

75th Anniversary Issue

PERKO®

"The difference is distinctive"



Catalog No. 240

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*Winslow Homer, THE HERRING NET, 1885
Mr. & Mrs. Martin A. Ryerson Collection,
The Art Institute of Chicago*

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Manufacturer of
SHIP AND BOAT EQUIPMENT
NAVIGATION LIGHTS
MARINE HARDWARE
FOR ALL SIZES AND TYPES OF
VESSELS

CATALOG NO. 240

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LIGHTS & HARDWARE



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Marvin S. Perkins
PRESIDENT

A word to our friends on our 75th Anniversary:

Many people have asked me my personal feelings as Perko celebrates its 75th anniversary. I think the words "quiet pride" summarize my thoughts.

Those of you who know us realize we won't have any fireworks display. Instead, we'll take this opportunity to reflect on our past with quiet pride.

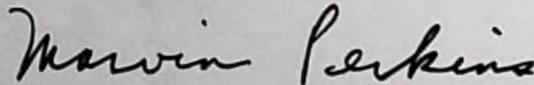
Pride in the way we've grown from a beginning product line of a handful of items to approximately 5000 separate products — manufactured exclusively for the marine industry. Pride in our physical growth from one compact room to about 250,000 square feet of modern manufacturing and office facilities. Pride in our distribution, which has grown from one small area to the entire world.

I'm certain the founders of Perko would be pleased with our progress. And it would be quite natural to dedicate our 75th anniversary to them.

But there's one more area of quiet pride. That's our staff and employees. It has been their dedication, loyalty, and devotion that has helped us earn our reputation as manufacturers of the world's finest marine lights, hardware and accessories. Our Commitment to Excellence is not merely a corporate slogan; it represents the deep, personal conviction of each of us on an individual basis.

So I think our founders would be pleased if we dedicated our 75th anniversary to them. I think they'd be even more pleased, however, to know it's being dedicated to our staff and employees.

They'd probably experience the same emotions I have: Quiet Pride.



Marvin Perkins
President

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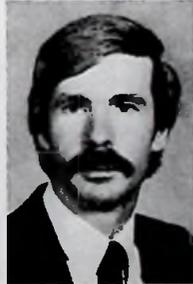


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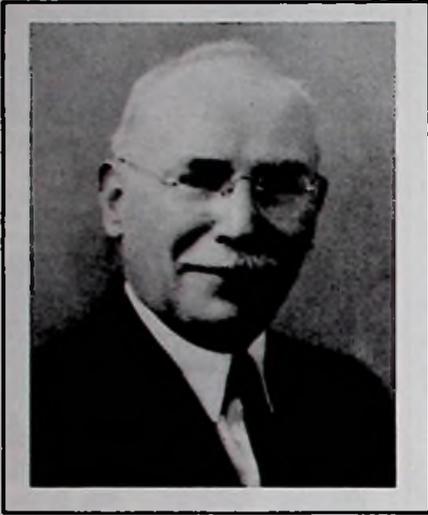
Edward J. Sheldon

ASSOCIATE:
Graham Strutt



Graham Strutt

THE PERKO® STORY



Frederick Perkins
CO-FOUNDERS
Louis E. Perkins



The origin of Perko may be traced back to the late 1800's. It was then, just prior to the turn of the century, that Frederick Perkins founded a small manufacturing plant in lower Manhattan.

By 1907, he was heavily involved in the manufacturing of a large variety of marine products. And in late 1916, the company — known as Perkins Marine Lamp, Inc. — outgrew its facilities and moved to what was then the farmlands of Brooklyn. It was at this time that Frederick's son, Louis, joined the company.

New products were added to the line, and sales activities expanded beyond the Northeast. The company offered cast bronze lights and hardware, first to the maritime industry, and then to the growing pleasure boat market. In 1922, the "Perko" trademark was introduced.

In the late 1920's the company introduced copper and nickel-plated products from its own plating department. When chromium plating was perfected in the 1930's the first Perko chromium-plated hardware appeared.

The 1930's was a period of exceptional growth. During this time, the company's reputation for manufacturing fine marine lights, hardware, and accessories for the pleasure boating market spread far and fast. In 1932, the company name was changed to Perkins Marine Lamp and Hardware Corporation.

This growth period necessitated additional facilities. The original one story manufacturing plant in Brooklyn grew to five stories. Ultimately, six more buildings were added until finally there was no more room for expansion.

Lou Perkins, who became Perko's president in 1947 upon the passing of his father, Frederick, was responsible for most of the plant expansion. It was in this year, also, that Lou's son Marvin joined the firm.

The company continued to grow, and, by the late 1950's, it was obvious that there was no more room for expansion in the Brooklyn site. It was then that Lou and Marvin made the decision to move the entire operation to Miami, Florida.

In 1960, Perko was able to entice Roy Hollenbeck into joining the company. Roy's extensive experience in manufacturing, plating, engineering, designing, and production was perfectly suited for his first challenge — to plan and coordinate the move from New York to Miami.

It was agreed that instead of separate facilities, everything should be placed under one roof. Additionally, since the new plant was to be quite large and extensive

encompassing a whole range of complete in-house production capabilities — from mill material to finished product — most subcontractors could be eliminated. Roy spent a great deal of time in laying out the plans for the new building and supervising the construction to insure that everything was located precisely where the plans indicated.

Finally, in January 1961, the company moved into its present site in North Miami, Florida. In late 1961, Perko's bronze foundry was established. In 1962, one die-cast machine was operational. Three years later, the die-casting operation had grown so extensively that a 47,000 square foot wrap-around extension was completed and a highly sophisticated die-casting system was established.

Upon the passing of Louis Perkins in 1964, Marvin continued to add to Perko's facilities. From an initial plant of 78,000 square feet, Perko's facilities now span approximately 225,000 square feet of office and manufacturing space. With this tremendous growth and expansion, you might think that the company would go through a period of stabilization. Not so, however, Perko has continued to innovate, grow, and expand.

In the late 1960's Marvin's son Fred — one of the industry's most knowledgeable authorities on navigational light requirements for vessels of all sizes — joined Perko. At the same time, the company introduced pressure-cast bronze hardware to the marine industry. In 1971, the plating department was

expanded to handle the complete seven-strike Perko-plate chromium plating process.

In 1973, the old foundry was totally replaced with an ultra-modern, 20,000 square foot foundry facility incorporating larger and up-to-date molding and melting equipment. In 1977, the plating department was subsequently updated again with an automated quality-control system and increased capacity. In 1979, a 35,000 square foot plastics injection molding facility became operational.

But from the very inception, and through every growth period, one thing remained constant — Perko's commitment to excellence. In that respect, nothing has changed since the late 1800's.



GENERAL INFORMATION

PRICES AND TERMS

Our costs are subject to change due to causes beyond our control. Therefore, our price list is only intended for guidance of our jobbers and do not necessarily establish resale prices. Applicable governmental regulations, shipping costs and other complications should be considered in arriving at a fair price. **All prices are subject to change without notice.** Terms are 30 days net; 2% if payment is sent 10 days from date of invoice. Orders from firms unknown to us and having no satisfactory commercial credit rating must be accompanied by cash or satisfactory references. C.O.D. shipments will be made if a 25% deposit is sent with order.

SALES POLICY

PERKO Products are sold through our established Distributors. We do not sell direct to the public or organizations not entitled to trade recognition. Therefore, possession of this catalog does not infer an offer to sell. Please contact your local marine supplier.

ONE-YEAR LIMITED WARRANTY

PERKO, INC. (PERKO) warrants to the original consumer purchaser that PERKO's consumer products will be free from defective materials or workmanship, under normal use and service, for a period of one (1) year from the original purchase date.

ALL IMPLIED WARRANTIES, INCLUDING MERCHANTABILITY, ARE ALSO LIMITED IN DURATION TO THE ONE YEAR PERIOD FROM THE ORIGINAL PURCHASE DATE. PERKO SHALL NOT BE LIABLE FOR LOSS OR USE OF ANY OF ITS CONSUMER PRODUCTS, NOR SHALL PERKO BE LIABLE FOR OTHER INCIDENTAL OR CONSEQUENTIAL COSTS, EXPENSES, OR DAMAGES INCURRED BY THE ORIGINAL CONSUMER PURCHASER OR BY ANY OTHER PERSON, FIRM OR CORPORATION.

SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY OR MAY NOT APPLY TO YOU. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU.

This Warranty is void if the consumer product warranted has been damaged by accident or unreasonable use, neglect, improper service or other cause not arising out of defects in material or workmanship. Excluded from this Warranty are Electric light bulbs (Lamps), Sealed Beam Units, Batteries, Fuses and all Sacrificial type Zinc Electrolysis Eliminators.

During the warranty period, your PERKO product will either be repaired or it will be replaced with a like product (at PERKO's option) without charge to the original consumer purchaser, when returned prepaid and insured, with proof-of-purchase date to PERKO at its address as listed below. In the event of replacement, the replacement product will continue the warranty of the original product, or ninety (90) days, whichever is longer. **IMPORTANT: FOR THIS WARRANTY TO BE EFFECTIVE PERKO MUST BE SUPPLIED WITH PROOF-OF-PURCHASE DATE OF THE PRODUCT.**

PERKOPLATE LIMITED WARRANTY

Perko, Inc. guarantees that all of its products finished with PERKOPLATE chromium plating process will maintain their original luster and brightness for as long as the original consumer-purchaser owns it.

During the Warranty period, Perko, Inc. agrees to repair or replace, (at Perko's option) without cost to the original consumer-purchaser, any product upon which the PERKOPLATE chromium finish corrodes, becomes dull or otherwise does not maintain its original luster and brightness. For this Warranty to be effective, the Perko product must be returned prepaid and insured to Perko, Inc. at its address shown below.

This Warranty is void if the PERKOPLATE finish has been damaged by accident or unreasonable use, neglect, improper service or other causes not arising out of defects in material or workmanship.

IN NO EVENT SHALL PERKO, INC. BE LIABLE FOR LOSS OF USE OF ITS CONSUMER PRODUCTS NOR FOR OTHER INCIDENTAL OR CONSEQUENTIAL COSTS, EXPENSES, OR DAMAGES INCURRED BY ANY PERSON.

Some States do not allow the exclusion or limitation of incidental or consequential damage, so the above limitation or exclusion may not apply to you.

This Warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

Perko does not authorize any person or company to create for it any other obligation or liability in connection with any of its products.

This Warranty gives you specific legal rights, and you may also have other rights which vary from State to State.

DESIGNS

For the purpose of constant improvement in our products, the designs and specifications are subject to change without notice.

RETURN GOODS

Material made to order is not returnable. Stock material is only returnable when permission has been granted by us, and is subject to a handling and refinishing charge. Shipping charges must be prepaid. Be sure to give date and number of invoice. Permission must be requested within 30 days after receipt of material.

WEIGHTS

The weights given in this catalog are approximate, but have been carefully determined and should be sufficient for general purposes.

SHIPPING INSTRUCTIONS

Customers should send specific shipping instructions, if this is not done, we will use our own judgement in selecting route.

SHIPMENTS

F.O.B. OUR PLANT, MIAMI, FLORIDA, unless quoted otherwise. We are not responsible for damage, loss or delay after goods are delivered to carrier. When loss or delay occurs, we will gladly assist in tracing or expediting, but such assistance is no criterion of responsibility.

When there is **LOSS OR APPARENT VISIBLE DAMAGE** to a shipment, when tendered for delivery, **DO NOT** give the carrier a clear receipt. Note such damage on the carrier's delivery receipt and **HAVE THE DRIVER SIGN THE RECEIPT.**

CONCEALED DAMAGE OR LOSS

1. Advise the delivering carrier in writing as soon as discovered or at least no more than 15 days after delivery, and request carrier to make an inspection.
2. **RETAIN** for the carrier's inspection, the **CONTAINER** and **ALL PACKING** that the damaged or lost material was packaged in.
3. **SHORTAGES** — Must be reported to us within 15 days after receipt of goods.

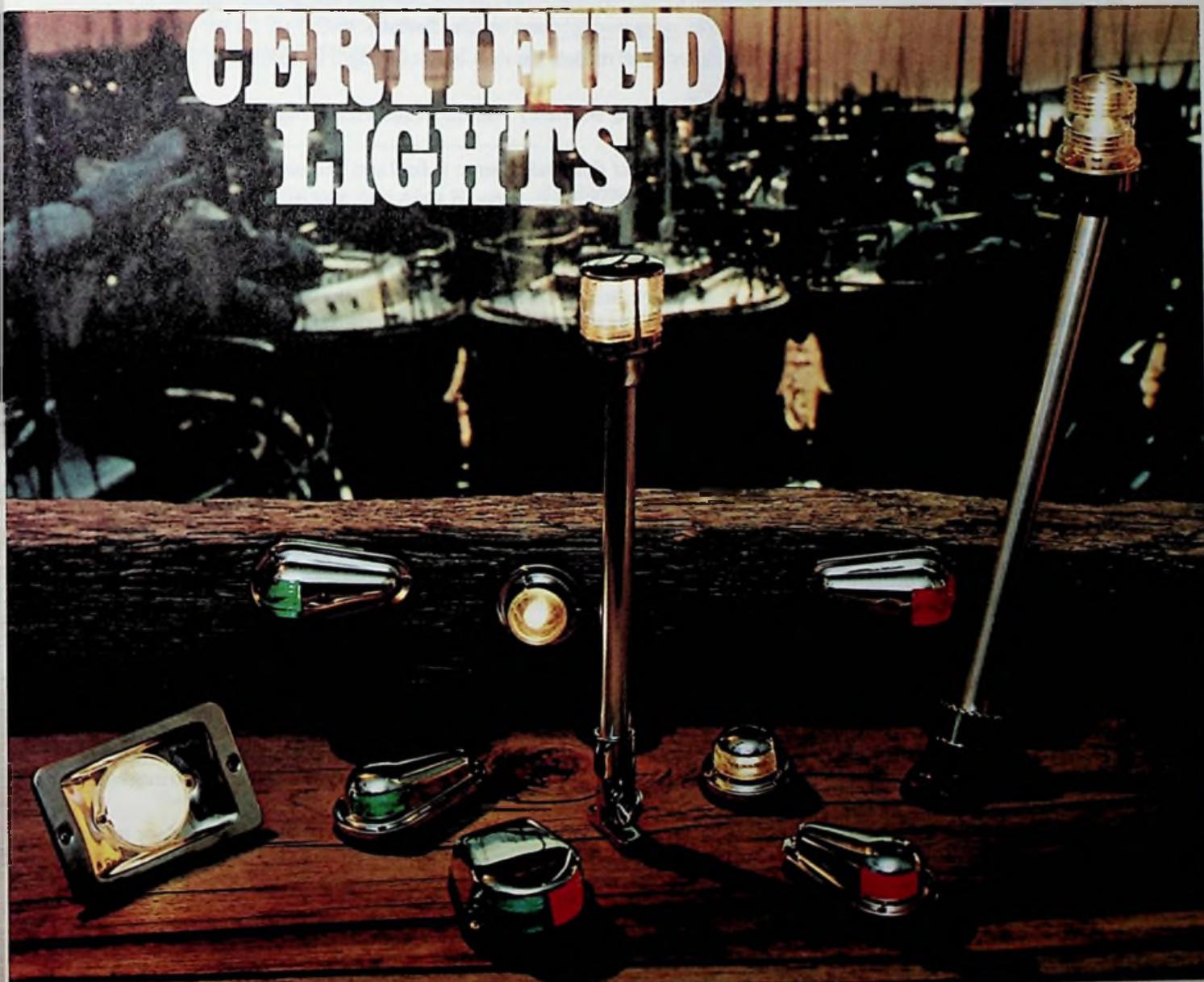
PERKO®

SECTION

A

**Navigation lights
for vessels
under 20 meters (65.7 ft.)**

**CERTIFIED
LIGHTS**



MANUFACTURED BY PERKO, INC., 16490 N.W. 13TH AVE., P.O. BOX 64000-D, MIAMI, FLORIDA 33164

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CERTIFICATION OF NAVIGATION LIGHTS FOR VESSELS UNDER 20 METERS (65.7 Ft)

BACKGROUND

The National Marine Manufacturers Association is a national trade association serving all elements of the recreational boating industry. Its members include manufacturers of all types of boating equipment - outboard and inboard boats, sailboats, marine engines, outboard motors, boat trailers, boating accessories and supplies.

NMMA has developed certification programs to help manufacturers comply with established standards and safety regulations, and to help inform the public of such compliance when purchasing equipment.

In 1968 NMMA inaugurated a certification program for boat manufacturers including horsepower and load capacity, flotation, steering and fuel systems, compartment ventilation, navigation lights and backfire flame control.

A manufacturer participating in this program must certify all models less than 26 feet in length (except racing boats) as fitted with standard equipment on a model year basis.

Inspectors from a nationally recognized independent testing laboratory visit the manufacturer, and physically inspect each model for compliance with all boat certification standards.

During the past several years we have devoted a great deal of time and expense to field and laboratory testing in an effort to comply with NMMA standards and to enable us to certify accordingly.

PRESENT

Currently, federal regulations for navigation lights on vessels under 20 meters are in a state of change. This affects not only the carriage of lights on the vessel, but the design, manufacture, and certification of lights as well. At the moment, the only means of certification widely recognized in the United States is through the NMMA program discussed above.

The U.S. Coast Guard has published a proposed regulation which will set forth a procedure by which navigation lights for vessels under 20 meters can be tested and certified under the 72 COLREGS. Until such time as the proposed regulation becomes an actual regulation, the U.S. Government cannot officially recognize any lights as meeting the 72 COLREGS for U.S. vessels under 20 meters - regardless of any claims.

It is important to note that navigation lights can be tested and certified to meet the 72 COLREGS in a foreign country, however, each country has their own testing and certification procedure, which differs from the proposed U.S. procedure. This means that a navigation light certified to meet the 72 COLREGS (prior to the implementation of the U.S. Standard) may be referring to approvals granted by another government, and cannot be recognized by the USCG for U.S. vessels until such time as the light passes the U.S. Standard. At this time, our government has no plans to accept foreign approvals as meeting the U.S. Standard.

Our navigation lights presently are certified under the NMMA Certification Procedure. The symbol **CERTIFIED** as it appears throughout this catalog, indicates this certification.

FUTURE

As the proposed U.S. regulation approaches finalization, PERKO shall continue to progress in meeting the latest standards. Due to the somewhat volatile nature of the rulemaking on this subject, it is difficult to predict when and in what exact form the final regulation will appear. Once this happens, we will have navigation lights certified to the new standard well in advance of the "effective dates" (the dates that the regulation specifies that only navigation lights certified to the new standard may be installed on a vessel).

The U.S. Coast Guard has also indicated that a vessel under 20 meters which was fitted with navigation lights prior to the effective date, need not refit with lights certified to the new standard.

INLAND RULES

In addition to the proposed regulations on International Rules (72 COLREGS) discussed above, the U.S. Coast Guard has published a proposed rulemaking covering the technical details of navigation lights in accordance with the Inland Navigational Rules Act of 1980 (Public Law 96-591). This proposed rulemaking will relax somewhat the requirements pertaining to the positioning and certain other details of navigation lights; however, the technical details on the construction of lights closely parallels the requirements discussed above for 72 COLREGS lights. The Public Law becomes effective on December 24, 1981 and mostly affects vessels built after that date.

To summarize; PERKO is, and will continue, to manufacture navigation lights that meet all current and future U.S. regulations. The proper installation of a current model of PERKO navigation lights will assure the meeting of the U.S. regulation in effect at the time.

"CHROMALEX"[®] COMBINATION BOW LIGHTS

PATENT NO. 3,828,714

PERKOPLATE CHROMIUM FINISH — RED AND GREEN LENSES

FOR USE ON POWER DRIVEN VESSELS UNDER 12 METERS (39.4 ft.)

20 POINTS — 225 DEGREES — 1 MILE VISIBILITY

CERTIFIED WITH A FIG. 71, 12 VOLT LAMP, SUPPLIED WITH LIGHT

| Size Base | Height Inches | Screw No. | Weight Ounces |
|-----------|---------------|-----------|---------------|
| 4x3-1/8 | 1-7/8 | 8 | 5-1/2 |

Fig. 1161 Has Bronze Housing Mounted on Black Plastic Base
Chromium Plated Housing

Each

Fig. 1310 Has Die Cast Zinc Alloy Housing Mounted on Black Plastic Base
Chromium Plated Housing

Each

MARK II Has a Black Plastic Insert on Top of Chromium Plated Housing.

Fig. 1410 Has Die Cast Zinc Alloy Housing Mounted On Black Plastic Base.

Each

SEE SECTION "M" FOR "CHROMALEX"[®] III
BOW LIGHT

SKIN PACK — Fig. 1310-SP

One Light Per Card
Six Cards Per Box
Weight Per Box, 2½ Pounds

Sold To Trade In Full Box Only

SEE SECTION "L" FOR "CHROMALEX"[®] III
SKIN PACKED BOW LIGHT

MARK I

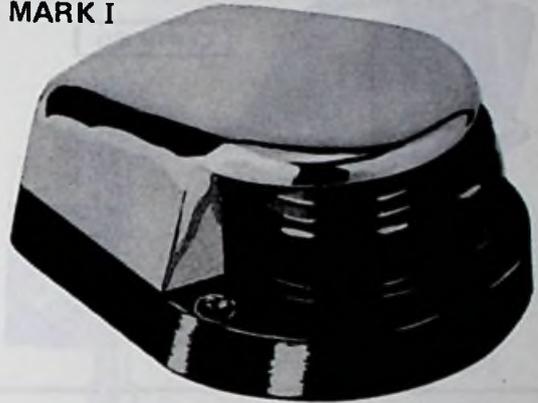


Fig. 1161 — Bronze
Fig. 1310 — Zinc Alloy

CERTIFIED

MARK II

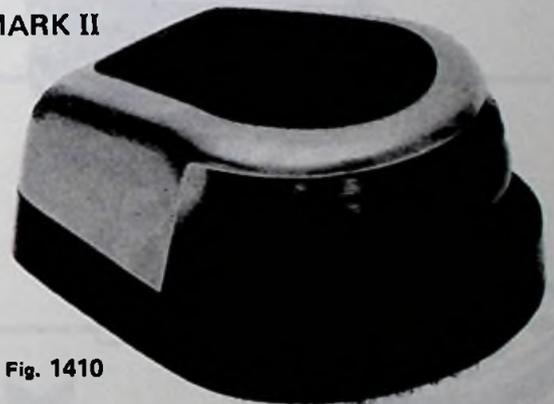


Fig. 1410

CERTIFIED



Fig. 1310-SP

SPARE PARTS

Electric Sockets, Specify Fig. 107
Lamps or "Bulbs," See Fig. 71

Lenses — Red, Specify Fig. 283-RA
Lenses — Green, Specify Fig. 283-GA

COMBINATION BOW LIGHT

**DIE CAST ZINC ALLOY — PERKOPLATE POLISHED CHROMIUM FINISH
 RED AND GREEN FRESNEL LENSES — COMPLETE WITH 12 VOLT LAMP
 FOR USE ON POWER DRIVEN VESSELS UNDER 12 METERS (39.4 ft.)
 20 POINTS — 225 DEGREES — 1 MILE VISIBILITY**



Fig. 1218

CERTIFIED



Fig. 1218-SP

**THE "RANGER" — Fig. 1218
 Certified with Fig. 71, 12 volt Bulb.**

| Each | Height Inches | Size Base Inches | Height Lens Inches | Staff Socket Inches | Weight Pounds |
|------|------------------|------------------------|--------------------------|---------------------------|------------------|
| | 3-3/8 | 6-1/4x3-7/8 | 2-1/2 | 3/4 | 3/4 |



SKIN PACK — Fig. 1218-SP

One Light Per Card
 Three Cards Per Box
 Weight Per Box, 4 Pounds

Sold To Trade In Full Box Only

CERTIFIED

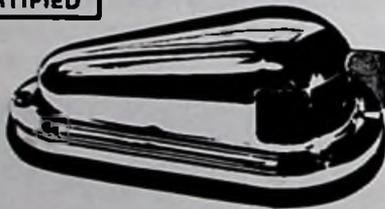


Fig. 904

COMBINATION BOW LIGHTS — Figs. 904 and 972

**Brass — Polished Chromium Plated — Black Plastic Base
 20 Points — 225 Degrees — Red and Green Lenses
 1 Mile Visibility**

**FOR USE ON SAIL OR POWER DRIVEN VESSELS
 UNDER 12 METERS (39.4 ft.)**

**With Stainless Steel Screws For Mounting.
 Certified with Fig. 71, 12 Volt Bulb, Supplied with Light.**

Fig. 904

| Each | Length Inches | Width Inches | Height Inches | Weight Ounces |
|------|------------------|-----------------|------------------|------------------|
| | 4 | 2-1/8 | 1-3/4 | 3-1/2 |

Fig. 972

| Each | Height Inches | Diameter Base Inches | Diameter Neck Inches | Length Neck Inches | Weight Ounces |
|------|------------------|----------------------------|----------------------------|--------------------------|------------------|
| | 1-5/8 | 2-3/8 | 3/4 | 1/2 | 3 |



SKIN PACK — Fig. 972-SP

One Light Per Card
 Four Cards Per Box
 Weight Per Box, 1 Pound

SOLD TO TRADE IN FULL BOX ONLY



Fig. 972

CERTIFIED



Fig. 972-SP

SPARE PARTS

Lenses, Red, For Fig. 1218, Specify Fig. 269-AR.
 Lenses, Green, For Fig. 1218, Specify Fig. 269-AG.
 Electric Socket For Fig. 1218, Specify Fig. 130.
 Bulb For Fig. 1218, See Fig. 71.

Lenses, Red, For Fig. 904 and Fig. 972, Specify Fig. 296R.
 Lenses, Green, For Fig. 904 and 972, Specify Fig. 296G.
 Electric Socket For Fig. 904 and Fig. 972, Specify Fig. 107.
 Bulbs For Figs. 904, 972 and 1218, See Fig. 71.

COMBINATION BOW LIGHTS — Figs. 970 and 974

Chromium Plated — Brass Light with Black Plastic Base —
Anodized Aluminum Tubing —
Deck Fittings are Die Cast Zinc Alloy — Chromium Plated
FOR USE ON SAIL OR POWER DRIVEN VESSELS UNDER 12 METERS (39.4 ft.)
20 Points — 225 Degrees — Red and Green Lenses

1 Mile Visibility

Certified with Fig. 71, 12 Volt Bulb, Supplied with Light.

Designed for Trolling, Bass Boats etc.

Adjustable or removable when not in use.

When in Fixed Vertical Position, the Light should be seen over the Top of the Electric Trolling Motor.

Fig. 970

Light is Removable From Deck Socket for Stowing Away —
Makes or Breaks Electric Connection When Inserted or
Removed, an indexing feature assures the proper alignment
fore and aft.

Has Waterproof Cap for Opening When Light Is Removed

| Each | Height Inches | Diameter Flange Inches | Weight Ounces |
|------|------------------|------------------------------|------------------|
| | 8-1/2 | 2 1/8 | 8 |

Fig. 974

Adjustable to Various Angles — Removable or Can Be Laid
Down When Not In Use.

| Each | Height Overall Inches | Dimensions Base Inches | Weight Ounces |
|------|-----------------------------|------------------------------|------------------|
| | 8-1/2 | 2 x 5/8 | 9 |

CERTIFIED



Fig. 970



Fig. 974

CERTIFIED

HALYARD EYES—Figs. 234 & 235

For Metal Flag Poles — White Nylon

For quick attachment of flag. Fits 3/4 inch diameter poles.

Fig. 234, each.

Fig. 235, each.

Standard Package, 10 Pieces.



Fig. 234



With Brass Snap

Fig. 235

NEW — IMPROVED GLARE SHIELD — Fig. 1192 BLACK PLASTIC — FOR 3/4" TUBING

This Newly Designed Glare Shield Will Fit Any Pole Light or
Combination Bow and Anchor Light Using 3/4 Inch
Diameter Tubing. It Has Been Increased In Size by Almost
50 Percent For More Effective Reduction of Glare.

Installs Quickly and Easily Without Need To Remove Light
Fixture From Tubing. Complete With Set Screw To Secure
Shield Firmly In Place.

| Each | Dimensions Inches | Weight Ounces |
|------|----------------------|------------------|
| | 6x4-5/16 | 3 |

Standard Package, 5 Pieces.

Note: Fig. 1192 Is Also Available In Skin Pack, See Section L.



Fig. 1192

SPARE PARTS FOR FIG. 970 AND FIG. 974

Lenses — Red, Specify Fig. 296-R
Lenses — Green, Specify Fig. 296-G
Electric Sockets, Specify Fig. 107

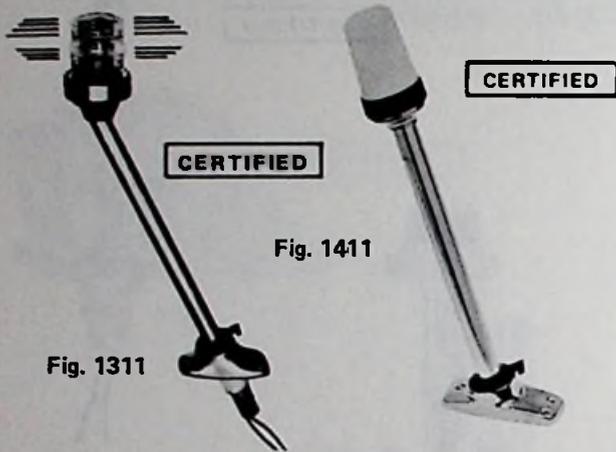
Fig. 974 Bracket Assembly with Thumb Screw and End Cap,
Specify Fig. 1120.
Spare Mounting Base for Fig. 970, Specify Fig. No. and 99A.
Lamps (Bulbs), See Fig. 71.

DECK MOUNT TELESCOPING STERN POLE LIGHTS

FOR USE ON POWER DRIVEN VESSELS UNDER 20 METERS (65.7 ft.)

Anodized Aluminum Tube — Die Cast Zinc Top and Base — Chromium Plated — Delrin D.C. Socket — with Bulb Clear or Frosted Globe — Certified with No. 90, 12 Volt 6 C.P. Bulb 32 Points — 2 Mile Visibility

A Positive and Unique Tightening Device for Adjusting the Height or Removing the Pole from the Base.



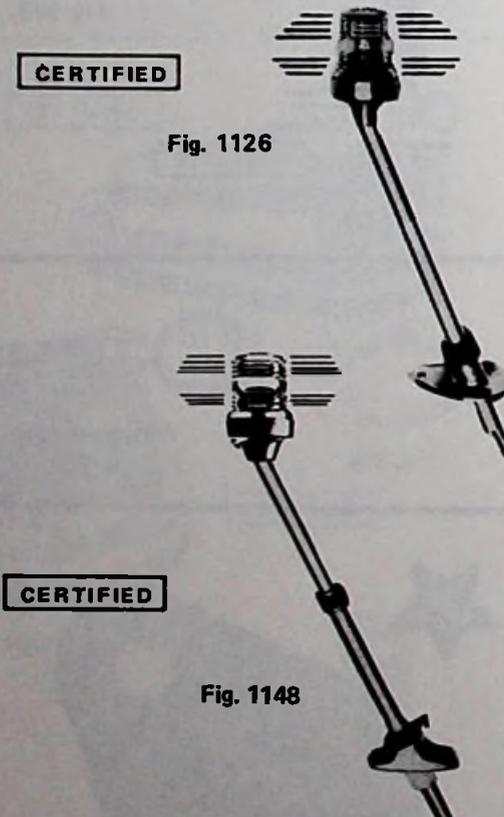
| No. | Fig. 1311 Each | Fig. 1411 Each | Length Inches | Weight Pounds |
|-----|----------------|----------------|---------------|---------------|
| 2 | | | 24 | 7/8 |
| 3 | | | 30 | 1 |
| 4 | | | 36 | 1 1/8 |



STERN POLE LIGHTS — Fig. 1126

Anodized Aluminum Tube — Chromium Plated — Bronze Top and Brass Base.

| No. | Each | Length Inches | Weight Pounds |
|-----|------|---------------|---------------|
| 2 | | 24 | 1 |
| 3 | | 30 | 1-1/8 |
| 4 | | 36 | 1-1/4 |



DOUBLE TELESCOPING TYPE — Fig. 1148

Same Construction as Fig. 1311

Height is adjustable from a minimum of 6 inches to a maximum of 52 inches.

| Each | Diameter Lower Tubing Inches | Weight Pounds |
|------|------------------------------|---------------|
| | 3/4 | 1-1/2 |

See Sections L and M for "CHROMALEX"® III Pole Lights



Figs. 1126, 1311 and 1411 Size No. 2, Available in Display Pack, See Section L.

SPARE PARTS FOR POLE LIGHTS PAGES A-6 AND A-7

- Fresnel Globes with Gasket — For All Lights except Figs. 1411 and 1430, See Fig. 248
- Spare Bulb Sockets — See Fig. 24 No. 2
- Lamps (Bulbs) — See Fig. 337 No. 11.
- Spare D.C. Connector for Figs. 1209, 1330 and 1430, Specify Fig. 42.
- Mounting Base Only For Figs. 1148, 1311, Specify Fig. 1156.
- Mounting Base Only For Fig. 1411, Specify Fig. No. and 99A.
- Mounting Base Only For Fig. 1330 and 1430 with Connector and Cap, Specify Fig. No. and 99A.
- Mounting Base Only For Fig. 1126 and 1209 with Connector and Cap, Specify Fig. No. and 99A.
- Spare Globe For Figs. 1411 and 1430, See Fig. 201.

DECK MOUNT STOW-A-WAY STERN POLE LIGHTS

FOR USE ON POWER DRIVEN VESSELS UNDER 20 METERS (65.7 ft.)

Anodized Aluminum Tube — Die Cast Zinc Top and Base — Chromium Plated — Delrin D.C. Socket — with Bulb Clear or Frosted Globe — Certified with No. 90, 12 Volt 6 C.P. Bulb 32 Points — 2 Mile Visibility

| No. | 1330 Each | 1430 Each | Length Inches | Weight Pounds |
|-----|-----------|-----------|---------------|---------------|
| 2 | | | 24 | 1 |
| 3 | | | 30 | 1-1/8 |
| 4 | | | 36 | 1-1/4 |

A Plastic Cap Is Attached To Base To Waterproof The Opening When Pole Is Removed.

An Indexing Feature Assures The Proper Alignment Fore And Aft.

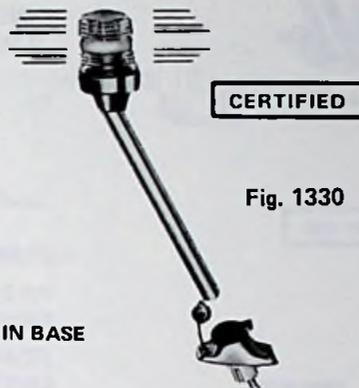


Fig. 1330

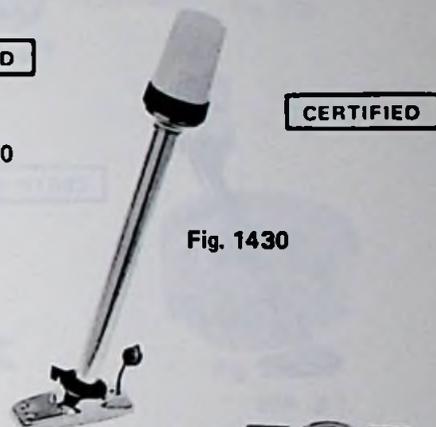


Fig. 1430

FIG. 1209 BRASS — CHROMIUM PLATED

Same Features as Fig. 1330 But this Unit has Bronze Globe Holder and Brass Mounting Base.

A Plastic Cap is Provided to Waterproof the Opening When Pole is Removed. A Plastic Cap Retainer is Also Included.

Base, Length 3-3/8", Width 2-1/4"

| Size No. | Each | Length Overall Inches | Weight Pounds |
|----------|------|-----------------------|---------------|
| 2 | | 24 | 1 |
| 3 | | 30 | 1-1/4 |
| 4 | | 36 | 1-1/2 |

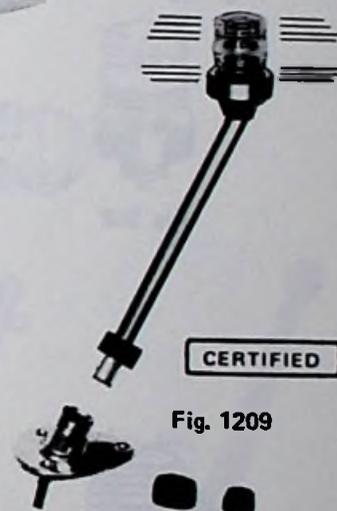


Fig. 1209



The Above Items in Size No. 2, Are Available in Display Pack, See Section L.

POLE LIGHTS FOR WINDSHIELD MOUNTING 360 DEGREE CLEAR LIGHT — FOLD DOWN TYPE VARIABLE ANGLE ASSEMBLY Die Cast Zinc Alloy Base and Globe Holder Chromium Plated

FOR USE ON POWER DRIVEN VESSELS UNDER 20 METERS (65.7 ft.)

Same Features as Fig. 1330 But this Light can be adjusted to suit any probable angle of windshield or top. Bracket is serrated to hold desired angle.



Fig. 1134

| Each | Height Overall Inches | Diameter Tubing Inches | Weight Ounces |
|------|-----------------------|------------------------|---------------|
| | 13-1/2 | 3/4 | 13 |

Fig. 1134 for flat Windshield or Horizontal Frame. Dimensions, Width (A) - 2", Height (B) - 5/8". Spare Brackets, Specify Fig. 1120

Fig. 1137 for flat or V-type Center Posts of Windshield. Dimensions, Width (A) - 5/8", Height (B) - 2-1/4". Spare Brackets, Specify Fig. 1122

Spare Brackets Include Thumb Screw, Washer and End Cap
Spare Thumb Screw Only Specify Fig. 1144



Fig. 1137



CERTIFIED

CERTIFIED



Fig. 455

STERN OR ANCHOR LIGHT—Fig. 455

Die Cast Zinc Alloy — Chromium Plated
Certified with No. 90 - 12 Volt, 6 C.P. Bulb Supplied.

**FOR USE ON POWER DRIVEN VESSELS
UNDER 20 METERS (65.7 ft.)**

2 Mile Visibility.

| No. | Each | Height Inches | Diameter Globe Inches | Size Base Inches | Weight Ounces |
|-----|------|------------------|-----------------------------|------------------------|------------------|
| 1 | | 6 | 1-3/4 | 3x2-1/8 | 12 |
| 2 | | 12 | 1-3/4 | 3x2-1/8 | 16 |



Fig. 438

CERTIFIED

STERN OR ANCHOR LIGHT—Fig. 438

All Brass — Chromium Plated
Certified with No. 90, 12 Volt 6 C.P. Bulb Supplied

**FOR USE ON POWER DRIVEN VESSELS
UNDER 20 METERS (65.7 ft.)**

2 Mile Visibility.

| No. | Each | Height Inches | Diameter Globe Inches | Size Base Inches | Weight Ounces |
|-----|------|------------------|-----------------------------|------------------------|------------------|
| 1 | | 6 | 1-3/4 | 3-3/8x2-1/4 | 6 |
| 2 | | 12 | 1-3/4 | 3-3/8x2-1/4 | 10 |



Fig. 362

CERTIFIED

MAST LIGHTS—Figs. 362 & 371

Pressure Cast Bronze—Frosted Fresnel Globe—
Double Contact Socket

**FOR USE ON SAIL OR POWER DRIVEN
VESSELS UNDER 20 METERS (65.7ft.)**

Certified for No. 90, 12 Volt 6 C.P. Bulb

2 Mile Visibility.

Fig. 362 — Tapped for 1/2 inch pipe.

Fig. 371 — Flat base drilled for two flat head screws.

Bulb Not Included.



Fig. 371

| Fig. | Plain Each | Chromium Plated Each | Diam. Globe Inches | Height Overall Inches | Diam. Base Inches | Wt. Lbs. |
|------|---------------|----------------------------|--------------------------|-----------------------------|-------------------------|-------------|
| 362 | | | 1-3/4 | 3-1/4 | 2-1/8 | 1/2 |
| 371 | | | 1-3/4 | 2-7/8 | 2-1/8 | 3/8 |



Fig. 112 B

CERTIFIED

ANCHOR OR SIGNAL LIGHT — Figs. 112 & 309

Cast Bronze — Plain or Chromium Plated — Fresnel Globe
**FOR USE ON SAIL OR POWER DRIVEN VESSELS
UNDER 20 METERS (65.7 ft.)**

Medium Screw Electric Socket — Bulb Not Included

Clear and Yellow — Certified for 15 Watt A-17 Frosted Bulb.

Red and Green — Certified for 25 Watt A-19 Frosted Bulb.

2 Mile Visibility

| Fig. | Plain Each | Chromium Plated Each | Height Overall Inches | Diameter Base Inches | Tapped Pipe Size Inches | Weight Pounds |
|------|---------------|----------------------------|-----------------------------|----------------------------|-------------------------------|------------------|
| 112B | | | 8-3/4 | 3-1/8 | — | 3-3/4 |
| 309B | | | 6-1/2 | — | 1/2 | 2-1/2 |

Yellow, Specify Fig. 112 MB, Fig. 309 MB

Red, Specify Fig. 112 RB, Fig. 309 RB

Green, Specify Fig. 112 GB, Fig. 309 GB

CERTIFIED



Fig. 309 B

SPARE PARTS

Globes For Figs. 362, 371, See Fig. 248F.
Globes For Figs. 438, 455, See Fig. 248.
Globes For Figs. 112, 309, See Fig. 108.
D.C. Bulbs, See Fig. 337.
Medium Base Bulbs, See Fig. 340.

Sockets for Figs. 362, 371, See Fig. 24 No. 1.
Sockets For Figs. 438 and 455, See Fig. 24 No. 2.
Sockets For Figs. 112 B and 309 B, Specify Fig. 226.

ADJUSTABLE SPREADER FLOODLIGHT – Fig. 280

All Brass – Chromium Plated

12 Volt Sealed Beam Unit - Watertight

This light has a ball joint action allowing it to be rotated in any position

| Each | Diameter Overall Inches | Depth Inches | Size Mounting Plate Inches | Weight Pounds |
|------|-------------------------|--------------|----------------------------|---------------|
| | 4-5/8 | 2-1/2 | 5-3/8 x 3/4 | 1-1/4 |



Fig. 280

THIS ITEM AVAILABLE IN DISPLAY PACK. SEE SECTION L.



“NON-FOULING” SPREADER LIGHT—Fig. 265

Pressure Cast Bronze – Chromium Plated - With 12 Volt, 6 C.P. Bulb

For mounting flush to spreader, will not foul sheets or halyards. Has many other uses aboard the boat.

| Each | Diameter Overall Inches | Depth Inches | Weight Ounces |
|------|-------------------------|--------------|---------------|
| | 2-3/4 | 1-3/8 | 3-1/2 |



Fig. 265

IMPROVED

MEAL AND ABSENT LIGHT—Fig. 329

Cast Bronze – Watertight – Double Contact Bayonet Socket

For mounting on yardarm. Supplied with two fresnel globes, one blue, the other clear. Bulbs Not Included.

| Chromium Plated Each | Size Base Inches | Length Overall Inches | Diam. Globe Inches | Wt. Lbs. |
|----------------------|------------------|-----------------------|--------------------|----------|
| | 3-3/8 x 1-3/4 | 9 | 2-1/2 | 2 |



Fig. 329

WOOD FLAG STAFF—Fig. 496

Solid Mahogany – Varnished – With Ferrule

| No. | Each | Length Overall Inches | Diam. Base Inches | Weight Ounces |
|-----|------|-----------------------|-------------------|---------------|
| 5 | | 24 | 1 | 6 |
| 6 | | 30 | 1-1/4 | 9-1/2 |
| 7 | | 36 | 1-1/4 | 14 |
| 8 | | 48 | 1-1/4 | 27 |

Fig. 496

FLAG STAFF—Fig. 495 Chromium Plated

With eyes for flag halyard. Complete with rubber “O” ring for firm fit in socket.

| No. | Each | Length Inches | Diam. Base Inches | Weight Ounces |
|-----|------|---------------|-------------------|---------------|
| 1 | | 14 | 1/2 | 3 |
| 2 | | 14 | 3/4 | 4 |
| 3 | | 18 | 3/4 | 5 |

Standard Package, Nos. 1 and 2 - 5 Pieces. No. 3 - 1 Piece

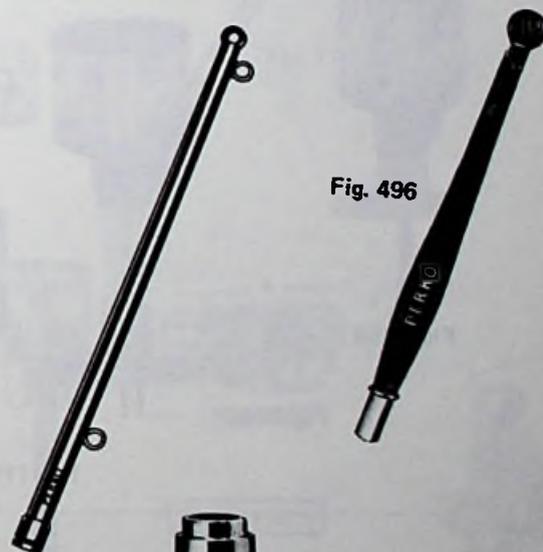


Fig. 495

CLAMP-ON FLAG STAFF SOCKET – Fig. 1302

Die Cast Zinc Alloy – Chromium Plated

Clamp will fit rails from 1/2" to 7/8" Diameter.

Socket is 3/4" I.D. and will accommodate above staffs Fig. 495,

Size Nos. 2 and 3.

| Each | Dimensions Inches | Knob Inches | Weight Ounces |
|------|-------------------|-------------|---------------|
| | 2 x 1-3/4 | 1-3/4 | 11 |



Fig. 1302

SPARE PARTS

Globes For Fig. 329, Specify Fig. 250 and Color.
Lens with Gasket For Fig. 265, Specify Fig. 284.
Sealed Beam Unit For Fig. 280, Specify Fig. 432.
Lamps (Bulbs), For Fig. 265, See Fig. 70 No. 0.

Sockets For Fig. 329, See Fig. 24 No. 2.
Sockets For Fig. 265, Specify Fig. 265-99-A.
Lamps (Bulbs), For Fig. 329, See Fig. 337.



As a 225° Point Bow Light

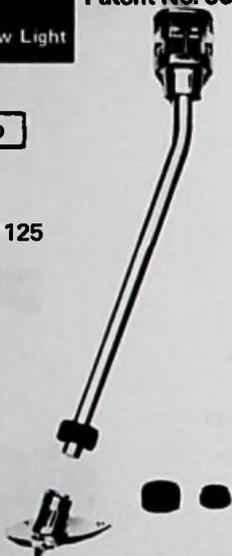
Combination Bow and Anchor Lights Complete with Two Fig. 71, 12 Volt Bulbs — Anodized Aluminum Tube — Marine Alloy Zinc Housing — Chromium Plated Patent No. 3344264



As a 360° Anchor Light

CERTIFIED

Fig. 1125



FOR USE ON SAIL OR POWER DRIVEN VESSELS UNDER 20 METERS (65.7 ft.) MEETS BOTH 2 MILE AND 3 MILE REQUIREMENTS

DECK MOUNT PLUG IN TYPE — Fig. 1125
 Brass Base — Chromium Plated — A Plastic Cap Is Provided To Waterproof The Opening When Pole Is Removed. A Plastic Cap Retainer Is Also Included.

| No. | Each | Length Inches | Weight Pounds |
|-----|------|---------------|---------------|
| 4 | | 36 | 1-1/2 |



Fig. 1183



Fig. 1196

CERTIFIED

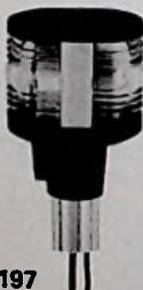


Fig. 1197

MAST ASSEMBLY — Figs. 1183 & 1197

| Fig. | Each | Height Inches | Size Base Inches | Weight Ounces | |
|------|------|-----------------------|--------------------|----------------------|---------------|
| 1183 | | 4-1/4 | 1x2-5/8 | 7 | |
| Fig. | Each | Height Overall Inches | O.D. Tubing Inches | Length Tubing Inches | Weight Ounces |
| 1197 | | 5 | 3/4 | 1 | 7 |

FIXED ASSEMBLY — Fig. 1196

| No. | Each | Height Overall Inches | Size Base Inches | Weight Ounces |
|-----|------|-----------------------|------------------|---------------|
| 1 | | 6 | 1x2-5/8 | 8 |
| 2 | | 12 | 1x2-5/8 | 10 |



Fig. 1201

NEW

TRI-COLOR MAST LIGHT — Fig. 1201

Combination Port, Starboard and Stern Light

Red and Green Sections - 112 1/2° - 10 points each - 1 mile visibility

White (clear) Section - 135° - 12 points - 2 mile visibility

Complete with Two Fig. 71, 12 Volt, 10 watt bulbs

FOR USE ON VESSELS UNDER SAIL ALONE LESS THAN 12 METERS (39.4 ft.)

Mounting Bracket for Flat Surfaces Is Easily Removed, Base of Light Fits 3/4" O.D. Tubing.

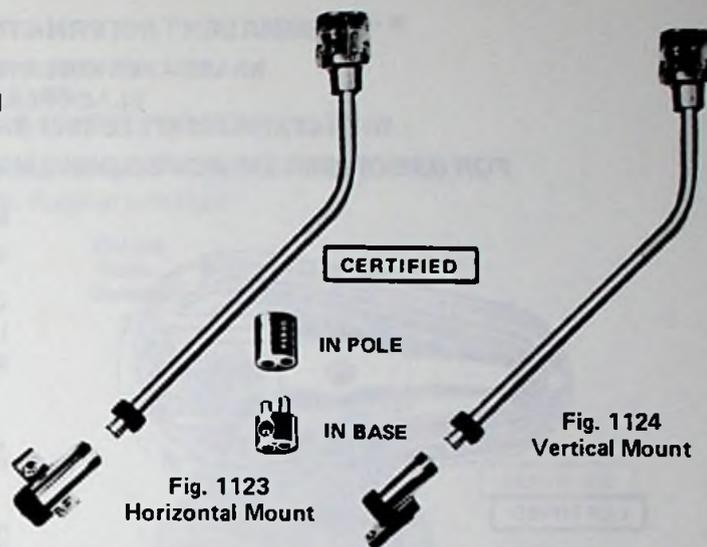
| Each | Height Overall Inches | Size Base Inches | C. to C. Mounting Holes | Weight Ounces |
|------|-----------------------|------------------|-------------------------|---------------|
| | 4-1/4 | 1x2-5/8 | 1-3/4 | 7 |

WINDSHIELD MOUNTED PLUG IN TYPE – COMBINATION BOW AND ANCHOR LIGHTS

Anodized Aluminum Tube – Marine Alloy Zinc Housing and Mounting Brackets – Chromium Plated – For Flat Or V-Type Windshields – With Plastic Cap For Tube When Pole Removed – Figs. 1123 & 1124

| No. | Each | *Length Inches | Weight Pounds |
|-----|------|----------------|---------------|
| 1 | | 13-1/2 | 1 |
| 2 | | 26-1/2 | 1-1/8 |

*Measurement Is From Top Of Bracket To Top Of Light.
Fig. 1123 Supplied With Two Black Plastic Insulators – One For Flat Surface And One For V-Type Windshields.
Fig. 1124 Supplied With One Black Plastic Insulator For Use On Either Flat Or V-Type Windshields.



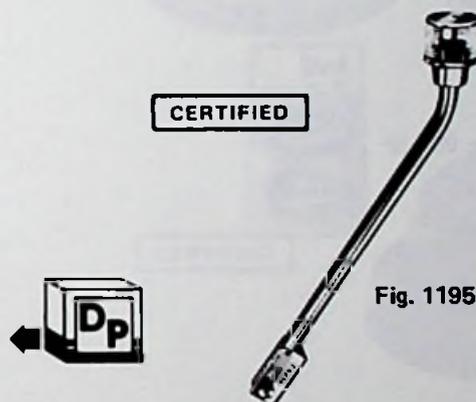
FOLD DOWN ASSEMBLY – Fig. 1195

For Windshield Mounting – Chromium Plated
Stainless Steel Mounting Bracket

| Each | Length Overall Inches | Mounting Bracket Inches | Diameter Tubing Inches | Weight Pounds |
|------|-----------------------|-------------------------|------------------------|---------------|
| | 20 | 1-11/16 x 3 | 3/4 | 7/8 |

Spare Mounting Bracket with Bolt and Nut, Specify Fig. 1157.

THIS ITEM AVAILABLE IN DISPLAY PACK, SEE SECTION L.



FOLD DOWN VARIABLE ANGLE ASSEMBLY

For Windshield Mounting – Chromium Plated
Figs. 1181, 1182 & 1184

This light can be adjusted to suit any probable angle of windshield or top. Bracket is serrated to hold desired angle.

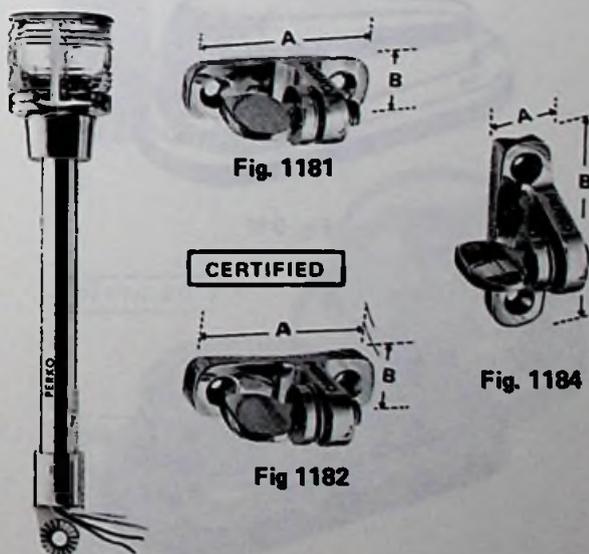
| Complete Each | Height Overall Inches | Diameter Tubing Inches | Weight Ounces |
|---------------|-----------------------|------------------------|---------------|
| | 13-1/2 | 3/4 | 13 |

Fig. 1181 for flat windshield or horizontal frame, dimensions, Width (A), 2" – Height (B), 5/8".
Spare Brackets, Specify Fig. 1120

Fig. 1182 for V-type windshield, dimensions, Width (A), 2" – Height (B), 5/8".
Spare Brackets, Specify Fig. 1121

Fig. 1184 for flat or V-type center posts of windshield, dimensions, Width (A), 5/8" – Height (B), 2-1/4".
Spare Brackets, Specify Fig. 1122

Spare Brackets include Thumb Screw, Washer and End Cap.
Spare Thumb Screw Only Specify Fig. 1144.



SPARE PARTS PAGES A-10 and A-11

Spare Lenses, Specify Fig. 278.
Glare Shield, See Fig. 1192.
Three Position Switches, See Fig. 366.
Spare Lamps (Bulbs), See Fig. 71.

Spare Lens Cap with Screw, Specify Fig. 1158A.
Spare Base For Fig. 1125, Specify 1125-99A.
Spare Mounting Bracket for Figs. 1123 and 1124, Specify Fig. No. and 99A.

® "CHROMALEX" INTERNATIONAL NAVIGATION LIGHTS

BRASS – PERKOPLATE CHROMIUM PLATED
BLACK PLASTIC BASE

WITH STAINLESS STEEL SELF TAPPING SCREWS FOR MOUNTING

FOR USE ON SAIL OR POWER DRIVEN VESSELS UNDER 12 METERS (39.4 ft.)



CERTIFIED

Fig 955



Fig. 955-SP

CERTIFIED

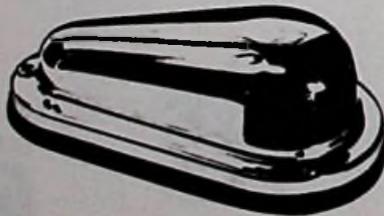


Fig. 915

CERTIFIED



Fig. 903

SIDE LIGHTS—Fig. 955

10 Points – 112-1/2 Degrees – 1 Mile Visibility

Certified with Fig. 71, 12 Volt Bulb, Supplied with Lights

Red and Green High Intensity Fresnel Lenses

| Per Pair | Length Inches | Width Inches | Depth Inches | Weight Per Pair Ounces |
|----------|---------------|--------------|--------------|------------------------|
| | 4-1/4 | 2-3/8 | 1-3/4 | 7 |

Half Pair, Red, Specify Fig. 955 R.

Green, Specify Fig. 955 G.

Spare Lenses, Red, Specify Fig. 260 R.

Spare Lenses, Green, Specify Fig. 260 G.

Spare Lamps (Bulbs) see Fig. 71.



SKIN PACK – Fig. 955-SP

1 Pair Per Card

4 Cards Per Box

Weight Per Box, 2 Pounds

Sold To Trade In Full Box Only



SIDE LIGHTS- Fig. 915

10 Points – 112-1/2 Degrees – Red and Green Lenses

1 Mile Visibility

Certified with Fig. 71, 12 Volt Bulb, Supplied with Light

For Mounting on Deck or Top of Deck House

| Per Pair | Length Inches | Width Inches | Depth Inches | Weight Per Pair Ounces |
|----------|---------------|--------------|--------------|------------------------|
| | 4-1/4 | 2-3/8 | 1-3/4 | 7 |

Half Pair, Red, Specify Fig. 915 R, Green, Specify Fig. 915 G.

Spare Lenses, Red, Specify Fig. 281 RA.

Spare Lenses, Green, Specify Fig. 281 GA.

Spare Sockets, Specify Fig. 107.

Spare Lamps (Bulbs), See Fig. 71.



BOW LIGHTS – Fig. 903

20 Points – 225 Degrees – Clear Lens

2 Mile Visibility

Certified with Fig. 71, 12 Volt Bulb, Supplied with Light

| Each | Length Inches | Width Inches | Depth Inches | Weight Ounces |
|------|---------------|--------------|--------------|---------------|
| | 4-1/4 | 2-3/8 | 1-3/4 | 4 |

Spare Lenses, Specify Fig. 281 A Clear.

Spare Sockets, Specify Fig. 107.

Spare Lamps (bulbs), see Fig. 71.

® "CHROMALEX" INTERNATIONAL NAVIGATION LIGHTS

BRASS – PERKOPLATE CHROMIUM PLATED
BLACK PLASTIC BASE

WITH STAINLESS STEEL SELF TAPPING SCREWS FOR MOUNTING

FOR USE ON SAIL OR POWER DRIVEN VESSELS UNDER 12 METERS (39.4 ft.)

Certified With Fig. 71, 12 Volt Bulb, Supplied with Light

| Height Light Inches | Diameter Base Inches | Weight Each Ounces |
|---------------------------|----------------------------|--------------------------|
| 1-5/8 | 2-3/8 | 3 |

SIDE LIGHTS—Fig. 963

10 Points — 112-1/2 Degrees — Red and Green Lenses
1 Mile Visibility

For mounting on deck or top of deck house.

Per Pair

Half Pair, Red, Specify Fig. 963-R. Green, Specify Fig. 963-G.
Spare Lenses, Red, Specify Fig. 281 RA.
Spare Lenses, Green, Specify Fig. 281 GA.
Spare Sockets, Specify Fig. 107.



CERTIFIED

Fig. 963

BOW LIGHTS — Fig. 964

20 Points — 225 Degrees — Clear Lens
2 Mile Visibility.

Each

Spare Lenses, Specify Fig. 281A Clear.
Spare Sockets, Specify Fig. 107.

CERTIFIED



Fig. 964

SKIN PACK — Fig. 964-SP

One Light Per Card
Four Cards Per Box
Weight Per Box, 1 Pound

Sold To Trade In Full Box Only



Fig. 964-SP

STERN LIGHT — Fig. 965

12 Points — 135 Degrees — Clear Lens
2 Mile Visibility

Each

Spare Lenses, Specify Fig. 281 A Clear.
Spare Sockets, Specify Fig. 107.

CERTIFIED



Fig. 965

SKIN PACK — Fig. 965-SP

One Light Per Card
Four Cards Per Box
Weight Per Box, 1 Pound

Sold To Trade In Full Box Only

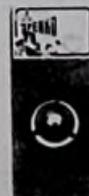


Fig. 965-SP

Spare Lamps (Bulbs) For All Above, See Fig. 71.



CERTIFIED

Fig. 1264

"NAUTIC" STREAMLINE SIDE LIGHTS – Fig. 1264
 Die Cast Zinc Alloy – Polished Chromium Plated
 10 Points – 112 1/2 Degrees – 1 Mile Visibility
 Colored Lenses 1 Red and 1 Green
 Certified With Fig. 71, 12 Volt Bulb, Supplied With Light
FOR USE ON POWER DRIVEN VESSELS UNDER 12 METERS (39.4 ft.)

| Per Pair | Length Overall Inches | Height Overall Inches | Thickness Inches | Weight Per Pair Pounds |
|----------|-----------------------|-----------------------|------------------|------------------------|
| | 5-1/2 | 3-1/8 | 1-3/4 | 1-3/4 |

Half Pair, Red, Specify Fig. 1264 R. Green, Specify Fig. 1264 G

Spare Lenses, Red, Specify Fig. 1264-99R.
 Spare Lenses, Green, Specify Fig. 1264-99G.
 Spare Sockets, Specify Fig. 130.
 Spare Lamps (Bulbs), see Fig. 71.



CERTIFIED

Fig. 1265

"NAUTIC" STREAMLINE BOW LIGHTS – Fig. 1265
 Die Cast Zinc Alloy – Polished Chromium Plated – Fresnel Lens.
 20 Points – 225 Degrees – 2 Mile Visibility – Clear Lens
 Certified With Fig. 71, 12 Volt Bulb, Supplied With Light
FOR USE ON POWER DRIVEN VESSELS UNDER 12 METERS (39.4 ft.)

| Each | Length Overall Inches | Width Overall Inches | Height Overall Inches | Weight Pounds |
|------|-----------------------|----------------------|-----------------------|---------------|
| | 6-1/4 | 3-7/8 | 3-1/4 | 3/4 |

Spare Lenses, Specify Fig. 1265-99A.
 Spare Sockets, Specify Fig. 130.
 Spare Lamps (Bulbs), see Fig. 71.



CERTIFIED

Fig. 1178

BOW OR MASTHEAD LIGHT – Fig. 1178
 Die Cast Zinc Alloy – Polished Chromium Plated – Fresnel Lens – 20 Points – 225 Degrees
FOR USE ON SAIL OR POWER DRIVEN VESSELS UNDER 20 METERS (65.7 ft.)
MEETS BOTH 2 MILE AND 3 MILE REQUIREMENTS
 Certified with Fig. 71, 12 Volt Bulb, Supplied With Light

| Each | Height Inches | Size Base Inches | Weight Ounces |
|------|---------------|------------------|---------------|
| | 4-1/4 | 1x2-5/8 | 7 |

Spare Lens, Specify Fig. 278.
 Spare Lamps (Bulbs), see Fig. 71.



CERTIFIED

Fig. 1331

®CHROMALEX BOW LIGHT – Fig. 1331
 Die Cast Zinc Alloy – Polished Chromium Plated – Black Plastic Base – Clear Fresnel Lens
 20 Points – 225 Degrees
FOR USE ON SAIL OR POWER DRIVEN VESSELS UNDER 20 METERS (65.7 ft.)
MEETS BOTH 2 MILE AND 3 MILE REQUIREMENTS
 Certified with Fig. 71, 12 Volt Bulb, Supplied With Light

| Each | Height Overall Inches | Width Overall Inches | Size Screw No. | Weight Ounces |
|------|-----------------------|----------------------|----------------|---------------|
| | 3-3/4 | 1-1/2 | 5 | 4 |

Spare Lens, Specify Fig. 278.
 Spare Lamps (Bulbs), see Fig. 71.

©CHROMALEX STERN LIGHTS — Fig. 1332
 Die Cast Zinc Alloy — Polished Chromium Plated —
 Black Plastic Base — Clear Fresnel Lens
 Certified with Fig. 71 Bulb, Supplied with Light.
12 Points — 135 Degrees — 2 Mile Visibility
FOR USE ON SAIL OR POWER DRIVEN VESSELS
UNDER 20 METERS (65.7 ft.)

| Each | Height Overall Inches | Width Overall Inches | Size Screw No. | Weight Ounces |
|------|-----------------------|----------------------|----------------|---------------|
| | 3-3/4 | 1-1/2 | 5 | 4 |

Spare Lens, Specify Fig. 278.
 Spare Lamps (Bulbs), see Fig. 71.



CERTIFIED

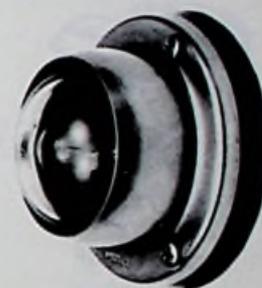
Fig. 1332

©CHROMALEX TRANSOM STERN LIGHT — Fig. 945
 Brass — Polished Chromium Plated
 Black Plastic Base
 With Stainless Steel Screws For Mounting
12 Points — 135 Degrees — Clear Lens
2 Mile Visibility
FOR USE ON SAIL OR POWER DRIVEN VESSELS
UNDER 20 METERS (65.7 ft.)

Certified with Fig. 71 Bulb, Supplied with Light.

| Each | Height of Light Inches | Diameter of Base Inches | Weight Ounces |
|------|------------------------|-------------------------|---------------|
| | 1-5/8 | 2 3/8 | 3 |

Spare Lenses, Specify Fig. 74.
 Spare Sockets, Specify Fig. 130.
 Spare Lamps (Bulbs), see Fig. 71.



CERTIFIED

Fig. 945

SKIN PACK — Fig. 945-SP

One Light Per Card
 Four Cards Per Box
 Weight Per Box, 1 Pound

Sold To Trade In Full Box Only



Fig. 945-SP

TRANSOM STERN LIGHTS — Figs. 939 and 946
 Brass — Polished Chromium Plated
12 Points — 135 Degrees — Clear — 2 Mile Visibility

FOR USE ON SAIL OR POWER DRIVEN VESSELS
UNDER 20 METERS (65.7 ft.)

Supplied Complete with 12 Volt Bulb.
 Certified for 12 Volt with Fig. 70 No. 0 Bulb.
 Certified for 32 Volt with Fig. 70 No. 2 Bulb.

Fig. 939

Molded Black Plastic Mounting Flange permits easy installation by drilling a 2-1/8" hole.

| Each | Dimensions Overall Inches | | Depth Inches | Weight Ounces |
|------|---------------------------|-------|--------------|---------------|
| | 5-3/16 x | 3-3/8 | | |
| | | | 1-1/2 | 6 |

Fig. 946

Supplied Complete with Black Plastic Mounting Flange and Stainless Screws for Mounting.

| Each | Diameter Inches | Depth Inches | Weight Ounces |
|------|-----------------|--------------|---------------|
| | 3 | 1-3/4 | 4 |

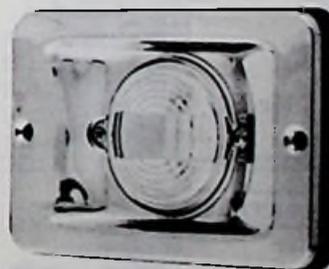


Fig. 939

CERTIFIED



Fig. 946

CERTIFIED

SPARE PARTS

Lens with Gasket For Fig. 939, Specify Fig. 284.
 Lens with Gasket For Fig. 946, Specify Fig. 946-99A.
 Socket Assembly For Fig. 939, Specify Fig. 939-99A.

Socket Assembly For Fig. 946, Specify Fig. 946-99B.
 Mounting Flange For Fig. 939, Specify Fig. 939-99C.
 Mounting Flange For Fig. 946, Specify Fig. 946-99C.
 Lamps (Bulbs), See Fig 70 Nos. 0 and 2.

"ROYAL" INTERNATIONAL NAVIGATIONAL LIGHTS
SHEET METAL — GALVANIZED STEEL OR BRASS — FRESNEL LENSES
FOR USE ON POWER DRIVEN VESSELS UNDER 20 METERS (65.7 ft.)



Fig. 91F

CERTIFIED



Fig. 98F

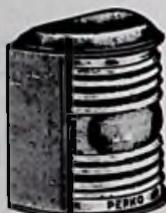


Fig. 99F

SIDE LIGHTS — Fig. 91F

10 Points — 112-1/2 Degrees — Red and Green Fresnel Lenses

| Class | Galv. Per Pair | Polished Brass Per Pair | Height Inches | Height Lens Inches | Weight Per Pair Pounds |
|-------|----------------|-------------------------|---------------|--------------------|------------------------|
| 2 | | | 5 | 4-1/4 | 2 |
| 3 | | | 6 | 5-3/16 | 3 |

Half Pair, Red, Specify Fig. 91-RF. Green Specify Fig. 91-GF.

BOW OR MASTHEAD LIGHTS — Fig. 98F

20 Points — 225 Degrees — Clear Lens

STERN LIGHTS — Fig. 99F

12 Points — 135 Degrees — Clear Lens

| Class | Galv. Each | Polished Brass Each | Height Inches | Height Lens Inches | Weight Pounds |
|-------|------------|---------------------|---------------|--------------------|---------------|
| 2 | | | 5 | 4-1/4 | 1-1/2 |
| 3 | | | 6 | 5-3/16 | 2 |

| BULB DATA FOR Figs. 91F, 98F & 99F | | | | | | |
|--|------------------|-----------|-----------------------------|------------------|-----------|-----------|
| For vessels under 12 meters (39.4 ft.) | | | For vessels 12 to 20 meters | | | |
| Fig. | Visibility Miles | 12 V Bulb | Fig. | Visibility Miles | 12 V Bulb | 32 V Bulb |
| 91F-C/2 | 1 | 70 No. 1 | 91F-C/3 | 2 | 70 No. 1 | 70 No. 2 |
| 98F-C/2 | 2 | 70 No. 1 | 98F-C/3 | 3 | 70 No. 1 | 70 No. 2 |
| 99F-C/2 | 2 | 70 No. 1 | 99F-C/3 | 2 | 70 No. 1 | 70 No. 2 |

"CORONET" INTERNATIONAL NAVIGATION LIGHTS

DIE CAST ZINC ALLOY — SATIN CHROMIUM PLATED — FRESNEL LENSES — BULBS NOT INCLUDED
FOR USE ON POWER DRIVEN VESSELS UNDER 20 METERS (65.7 ft.)



Fig. 109



CERTIFIED



Fig. 110



Fig. 111

SIDE LIGHTS — Fig. 109

10 Points — 112-1/2 Degrees

Colored Lenses 1 Red and 1 Green

| Class | Per Pair | Height Light Inches | Height Lens Inches | Weight Per Pair Pounds |
|-------|----------|---------------------|--------------------|------------------------|
| 2 | | 5-1/4 | 4-1/4 | 4 |

Half Pair, Red, Specify Fig. 91-RF Green Specify Fig. 91-GF.

BOW OR MASTHEAD LIGHTS — Fig. 110

20 Points — 225 Degrees — Clear Lens

STERN LIGHTS — Fig. 111

12 Points — 135 Degrees — Clear or Yellow Lens*

| Class | Each | Height Light Inches | Height Lens Inches | Weight Pounds |
|-------|------|---------------------|--------------------|---------------|
| 2 | | 5-1/4 | 4-1/4 | 2 |

* With Yellow Lens, Specify Fig. 111M.

| BULB DATA FOR Figs. 109, 110 & 111M. | | | | | |
|--|------------------|-----------|-----------------------------|-----------|-----------|
| For vessels under 12 meters (39.4 ft.) | | | For vessels 12 to 20 meters | | |
| Fig. | Visibility Miles | 12 V Bulb | Visibility Miles | 12 V Bulb | 32 V Bulb |
| 109 | 1 | 70 No. 0 | 2 | 70 No. 1 | 70 No. 2 |
| 110 | 2 | 70 No. 0 | 3 | 70 No. 1 | 70 No. 2 |
| 111 | 2 | 70 No. 0 | 2 | 70 No. 1 | 70 No. 2 |
| 111M | 2 | 70 No. 0 | 2 | 70 No. 1 | 70 No. 2 |

SPARE PARTS

Lenses For Figs. 91F and 109, See Fig. 259.
 Lenses For Figs. 98F and 110, See Fig. 256.
 Lenses For Figs. 99F and 111, See Fig. 269.
 Electric Adapters For Figs. 91F, 98F & 99F, See Fig. 138F, Specify Class.
 Mounting Bracket For Figs. 91F, 98F & 99F, Specify Fig. 92 and Finish.

ELECTRIC NAVIGATION LIGHTS
SHEET METAL – GALVANIZED STEEL OR BRASS
FOR USE ON POWER DRIVEN VESSELS UNDER 20 METERS (65.7 ft.)
BRASS SPRING TYPE ELECTRIC ADAPTERS – BULBS NOT INCLUDED

SIDE LIGHTS – Fig. 4F

10 Points – 112-1/2 Degrees – Red and Green – Fresnel Lenses

| Class | Galvanized Per Pair | Polished Brass Per Pair | Height Inches | Height Lens Inches | Weight Per Pair Pounds |
|-------|---------------------|-------------------------|---------------|--------------------|------------------------|
| 2 | | | 7-1/4 | 4-1/4 | 5 |
| 3 | | | 8-1/2 | 5-3/16 | 7 |

Half Pairs, Red, Add "R", Green, Add "G" to Fig. No. Specified

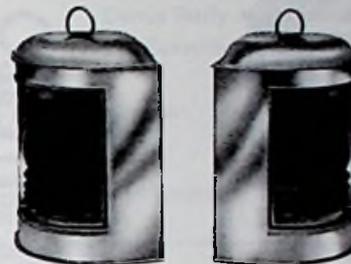


Fig. 4F

CERTIFIED

BOW LIGHTS – Fig. 5F

20 Points – 225 Degrees – Clear Or Yellow Fresnel Lens*

| Class | Galvanized Each | Polished Brass Each | Height Inches | Height Lens Inches | Weight Pounds Each |
|-------|-----------------|---------------------|---------------|--------------------|--------------------|
| 2 | | | 7-1/4 | 4-1/4 | 2-1/2 |
| 3 | | | 8-1/2 | 5-3/16 | 3-1/4 |

* Yellow – Available in Class 3 Only, Specify Fig. 5MF.



Fig. 5F

CERTIFIED



Fig. 7F

STERN LIGHTS – Fig. 7F

12 Points – 135 Degrees – Clear Or Yellow Fresnel Lens*

| Class | Galvanized Each | Polished Brass Each | Height Inches | Height Lens Inches | Weight Pounds Each |
|-------|-----------------|---------------------|---------------|--------------------|--------------------|
| 2 | | | 7-1/4 | 4-1/4 | 2-1/2 |
| 3 | | | 8-1/2 | 5-3/16 | 3-1/4 |

* Yellow – Available in Class 3 Only, Specify Fig. 7MF.

BULB DATA FOR Figs. 4F, 5F & 7F

For vessels under 12 meters (39.4 ft.)

| Fig. | Visibility Miles | 12 V Bulb | 32 V Bulb |
|-----------------------------|------------------|-----------|-----------|
| 4F-C/2 | 1 | 70 No. 1 | |
| 5F-C/2 | 2 | 70 No. 1 | |
| 7F-C/2 | 2 | 70 No. 1 | |
| For vessels 12 to 20 meters | | | |
| Fig. | Visibility Miles | 12 V Bulb | 32 V Bulb |
| 4F-C/3 | 2 | 70 No. 1 | 70 No. 2 |
| 5F-C/3 | 3 | 70 No. 1 | 70 No. 2 |
| 5MF-C/3 | 2 | 70 No. 1 | 70 No. 2 |
| 7F-C/3 | 2 | 70 No. 1 | 70 No. 2 |
| 7MF-C/3 | 2 | 70 No. 1 | 70 No. 2 |

ANTI-COLLISION STROBE LIGHT – Fig. 600

Satin Chromium Plated Housing – Clear 360° Fresnel Globe – High Intensity Xenon Strobe Lamp – Waterproof For 12 Volt Use

This Powerful Unit with Built-in Polarity Protection PRODUCES OVER 1 MILLION (1,000,000) PEAK CANDLE-POWER FOR INCREASED DISTANCE OF VISIBILITY. Flashes approximately 50 Times a Minute. Mounting Bracket for Flat Surfaces is Easily Removed, Base of Light fits 1/2" Pipe.

| Each | Height Overall Inches | Diameter Inches | Weight Pounds | Standard Package |
|------|-----------------------|-----------------|---------------|------------------|
| | 7 | 3-1/8 | 1 | 5 |

Fig. 600



THIS ITEM AVAILABLE IN DISPLAY PACK, SEE SECTION L.

NOTE: Anti-Collision Lights should only be used in imminent danger or emergency situations. The Coast Guard prohibits the use of these lights for other than emergency use, e.g. they should not be used as running lights, etc.

SPARE PARTS

Lenses For Fig. 4F, See Fig. 259.
 Lenses For Fig. 5F, See Fig. 266.
 Lenses For Fig. 7F, See Fig. 269.

Electric Adapter For Figs. 4F, 5F & 7F, See Fig. 290F, Specify Class.
 Lamps (Bulbs), See Fig. 70, Nos. 1 and 2.
 Side Light Brackets, See Fig. 131.



Fig. 17 Class 2
Fig. 19 Class 3

**CERTIFIED
ELECTRIC ONLY**



Fig. 18 Class 2
Fig. 20 Class 3



Fig. 97 Class 2
Fig. 102 Class 3



Fig. 0-2 JUNIOR

**CERTIFIED
ELECTRIC ONLY**



Fig. 0-6 SENIOR

SPARE PARTS

Lenses For Figs. 17 and 19, See Fig. 259.
Lenses For Figs. 18 and 20, See Fig. 256.
Lenses For Figs. 97 and 102, See Fig. 269.
Lenses For Fig. 0-2, Oil, See Fig. 261.
Lenses For Fig. 0-2 and 06, Electric, See Fig. 261F.
Oil Founts For All Except Fig. 0-2, See Fig. 286.
Oil Founts For Fig. 0-2, See Fig. 287.
Medium Screw Sockets Only, See Fig. 346 No. 1.
Electric Adaptors For Fig. 0-6, See Figs. 291, 292.
Electric Adaptors For Fig. 0-2, See Fig. 293.
Electric Adaptors For Figs. 17, 18 & 97, Specify Fig. 290F02.
Electric Adaptors For Figs. 19, 20 & 102, Specify Fig. 290F03.
Burners and Wicks For All Above, See Figs. 246, 302.
Lamps (Bulbs) For Figs. 0-2 & 0-6, See Fig. 337 No. 12,
Also Fig. 340 Nos. 5 & 6.
Lamps (Bulbs) For Figs. 17, 18, 19, 20, 97 & 102,
See Fig. 70 Nos. 1 & 2.
D.C. Sockets Only, See Fig. 276.
Side Light Brackets, See Fig. 131.

SIDE LIGHTS—Figs. 17 and 19

10 Points — 112-1/2 Degrees — Red and Green Fresnel Lenses
Oil or Electric — Certified for Electric Only — Bulbs Not Included
FOR USE ON POWER DRIVEN VESSELS UNDER 20 METERS (65.7 ft.)

| Fig. | Galvanized Per Pair | Polished Brass Per Pair | Height Inches | Height Lens Inches | Weight Pounds |
|------|---------------------|-------------------------|---------------|--------------------|---------------|
| 17 | | | 10-1/2 | 4-1/4 | 5-1/2 |
| 19 | | | 12-1/2 | 5-3/16 | 7-1/2 |

NOTE

For Oil Use, Specify Fig. 17 or 19.
For Electric Use, Specify Fig. 17F or 19F.
Half Pairs, Red, add "R," Green, add "G," to Fig. No. Specified.

BOW LIGHTS—Figs. 18 and 20

20 Points — 225 Degrees — Clear Fresnel Lens
Oil or Electric — Certified for Electric Only — Bulbs Not Included
FOR USE ON POWER DRIVEN VESSELS UNDER 20 METERS (65.7 ft.)

| Fig. | Galvanized Each | Polished Brass Each | Height Inches | Height Lens Inches | Weight Pounds |
|------|-----------------|---------------------|---------------|--------------------|---------------|
| 18 | | | 10-1/2 | 4-1/4 | 3 |
| 20 | | | 12-1/2 | 5-3/16 | 3-1/2 |

NOTE

For Oil Use, Specify Fig. 18 or 20.
For Electric Use, Specify Fig. 18F or 20F.

STERN LIGHTS—Figs. 97 and 102

12 Points — 135 Degrees — Clear Fresnel Lens
Oil or Electric — Certified for Electric Only — Bulbs Not Included
FOR USE ON POWER DRIVEN VESSELS UNDER 20 METERS (65.7 ft.)

| Fig. | Galvanized Each | Polished Brass Each | Height Inches | Height Lens Inches | Weight Pounds |
|---------|-----------------|---------------------|---------------|--------------------|---------------|
| 97 Oil | | | 10-1/2 | 4-1/4 | 3 |
| 102 Oil | | | 12-1/2 | 5-3/16 | 3-1/2 |

NOTE

For Oil Use, Specify Fig. 97 or 102.
For Electric Use, Specify Fig. 97F or 102F.

BULB DATA FOR ABOVE LIGHTS

| For vessels under 12 meters (39.4 ft.) | | | For vessels 12 to 20 meters | | | |
|--|------------------|-----------|-----------------------------|------------------|-----------|-----------|
| Fig. | Visibility Miles | 12 V Bulb | Fig. | Visibility Miles | 12 V Bulb | 32 V Bulb |
| 17F | 1 | 70 No. 1 | 19F | 2 | 70 No. 1 | 70 No. 2 |
| 18F | 2 | 70 No. 1 | 20F | 3 | 70 No. 1 | 70 No. 2 |
| 97F | 2 | 70 No. 1 | 102F | 2 | 70 No. 1 | 70 No. 2 |

ANCHOR LIGHTS — Figs. 02 and 06

32 Points — 360 Degrees — Clear Fresnel Lens* — Oil or Electric — 2 Mile Visibility — Electric Only — Bulbs Not Included
ELECTRIC LIGHTS FOR SAIL OR POWER DRIVEN VESSELS UNDER 20 METERS (65.7 ft.)

| Fig. | Galvanized Each | Polished Brass Each | Height Inches | Height Lens Inches | Weight Pounds |
|------|-----------------|---------------------|---------------|--------------------|---------------|
| 0-2 | | | 8-5/8 | 3-5/16 | 2 |
| 0-6 | | | 11-3/4 | 4-1/4 | 3 |

NOTE

FOR OIL USE, Specify Fig. 0-2 or 0-6.
FOR ELECTRIC D.C., Specify Fig. 0-2A or 0-6A.
FOR ELECTRIC MEDIUM SCREW, Specify Fig. 0-6B.
D.C. Electric Certified with No. 1004, 12 Volt 15 C.P. Bulb.
Medium Screw Electric Certified with 15 Watt A-17 Bulb.
* Electric Lights are Supplied with Frosted Lenses.

SPARE PARTS FOR SECTION A

112½° LENSES

| Class | Each | A Inches | B Inches |
|-------|------|----------|----------|
| 2 | | 4-1/4 | 3-3/16 |
| 3 | | 5-3/16 | 3-11/16 |

Red — Fig. 259-R
Green — Fig. 259-G

360° LENSES

| Class | Each | A Inches | B Inches |
|--------|------|----------|----------|
| Junior | | 3-5/16 | 3-3/16 |
| Senior | | 4-1/4 | 4 |

Clear — Fig. 261
Frosted — Fig. 261-F

225° LENSES

| Class | Each | A Inches | B Inches |
|-------|------|----------|----------|
| 2 | | 4-1/4 | 3-3/8 |
| 3 | | 5-1/8 | 3-1/4 |

Clear — Fig. 256
Yellow — Fig. 269-M (Class 3 only)

135° LENSES

| Class | Each | A Inches | B Inches |
|-------|------|----------|----------|
| 2 | | 4-1/4 | 3-1/2 |
| 3 | | 5-1/8 | 3-5/8 |

Clear — Fig. 269
Yellow — Fig. 269-M (Class 3 only)

FRESNEL GLOBES

Clear or Frosted — Plastic
Complete with Gasket

Clear — Fig. 248
Frosted — Fig. 248F

| Each | Height Inches | Diameter Thread Inches |
|------|---------------|------------------------|
| | 2½ | 2 |

Standard Package, 5 Pieces.

SKIN PACK — Fig. 248-SP

Clear — Plastic

Complete with Gasket
One Globe Per Card
Ten Cards Per Box
Weight Per Box, 1½ Pounds
Sold To Trade In Full Box Only

FRESNEL GLOBES

Plastic
Complete with Gasket

| Each | Height Inches | Diam. Thread Inches | Inside Diam. Inches |
|------|---------------|---------------------|---------------------|
| | 5 | 3-1/4 | 2-7/8 |

Clear — Fig. 106
Red — Fig. 106-R
Green — Fig. 106-G
Yellow — Fig. 106-M



Fig. 24

BAYONET

Double Contact Sockets
Delrin Body — Bronze Spring
Non-Corrosive Positive Contact

| No. | Each | Length Pigtails Inches | Outside Diameter Inches |
|-----|------|------------------------|-------------------------|
| 1 | | 10 | 3/4 |
| 2 | | 60 | 3/4 |

Standard package, 10 pieces



Fig. 52

BAYONET

Double Contact Socket
Brass Case — Bronze Spring

| Each | Outside Diameter Inches | Length Inches | Length Pigtails Inches |
|------|-------------------------|---------------|------------------------|
| | 11/16 | 7/8 | 6 |

Standard package 10 pieces.



Fig. 747

BAYONET

Double Contact Socket
Brass Case — Hard Rubber Insulation

| Each | Length Inches | Outside Diameter Inches |
|------|---------------|-------------------------|
| | 1-1/8 | 11/16 |

Wires enter bottom, screws in side.
Standard package 10 pieces.



Fig. 276

BAYONET

Double Contact Sockets

Brass Case — Tapped 1/8 Inch I.P.S.

| No. | Each | Length Overall Inches |
|-----|------|-----------------------|
| 0 | | 1-1/2 |
| 2 | | 2 |
| 3 | | 2-3/8 |
| 4 | | 3 |

Standard Package, 5 Pieces.

MEDIUM SCREW SOCKETS

Phenolic — C.G. Approved

250 Volts — 660 Watts

| No. | Each | *Size Thread Inches | Height Inches | Extreme Diameter Inches |
|-----|------|---------------------|---------------|-------------------------|
| 1 | | 1/8 | 2-1/8 | 1-1/2 |
| 3 | | 1/2 | 1-3/4 | 1-1/2 |

Standard package 5 pieces.
* No. 1 has Internal Thread, No. 3 has External Thread.



Fig. 346



Fig. 106

SPARE PARTS FOR SECTION A



Fig. 286

OIL FOUNT
Brass — Spring Type

| | | |
|------|-------------------------|-------------------------|
| Each | Diameter Overall Inches | Opening In Light Inches |
| | 3-5/8 | 3-3/16 |

Used in All Lights on Page A-18 Except Fig. 0-2.



Fig. 287

OIL FOUNT
Brass — Swivel Type

| | | |
|------|-------------------------|-------------------------|
| Each | Diameter Overall Inches | Opening In Light Inches |
| | 4-1/2 | 4 |

Used in Fig. 0-2.



Fig. 291

ELECTRIC ADAPTERS
Double Contact
Brass — Spring Type

| | | |
|------|-------------------------|-------------------------|
| Each | Diameter Overall Inches | Opening In Light Inches |
| | 3-5/8 | 3-3/16 |

Used in Fig. 0-6.



Fig. 293

ELECTRIC ADAPTER
Double Contact
Brass — Swivel Type

| | | |
|------|-------------------------|-------------------------|
| Each | Diameter Overall Inches | Opening In Light Inches |
| | 4-1/2 | 4 |

Used in Fig. 02



Fig. 292

ELECTRIC ADAPTER
Medium Screw
Brass — Spring Type

| | | |
|------|-------------------------|-------------------------|
| Each | Diameter Overall Inches | Opening In Light Inches |
| | 3-5/8 | 3-3/16 |

Used in Fig. 0-6.



Fig. 290F

ELECTRIC ADAPTER
Festoon Type
Brass — Swivel Type

| | | |
|------|-------------------------|-------------------------|
| Each | Diameter Overall Inches | Opening In Light Inches |
| | 4-1/2 | 4 |

Used in the Following Lights:

No. 2 — 4F-C/2, 5F-C/2, 7F-C/2, 17, 18, & 97
No. 3 — 4F-C/3, 5F-C/3, 7F-C/3, 19, 20 & 10
Be Sure to Specify Size.



Fig. 246

OIL BURNERS
Brass

| | | |
|------|---------------------|-------------------|
| Each | Diam. Thread Inches | Width Wick Inches |
| | 7/8 | 3/8 |

Standard Package, 5 Pieces

Used in All Lights on Page A-18.



Fig. 138F

ELECTRIC ADAPTER
Festoon Type
Brass — Spring Type

| | | |
|------|----------------------|-------------------------|
| Each | Diam. Overall Inches | Opening In Light Inches |
| | 2-3/16 | 1-7/8 |

Used in the Following Lights:

No. 2 — 91 C/2, 98 C/2 & 99 C/2.
No. 3 — 91 C/3, 98 C/3 & 99 C/3.
Be Sure to Specify Size.



Fig. 302

FLAT OIL WICKS
Cotton

| | | |
|--------|------|--------------|
| No. 00 | Each | Width Inches |
| | | 3/8 |

Standard Package, 20 Pieces.



Fig. 131

MOUNTING BRACKETS
For Lights
Galvanized or Brass

| | | | |
|------------|------------|--------------|---------------|
| Galv. Each | Brass Each | Width Inches | Height Inches |
| | | 1-1/2 | 4-3/4 |

Used on All Lights on Page A-18 Except Figs. 02 and 06.

SECTION B

PERKO®

**navigation lights
for vessels over
20 meters (65.7 ft.)
to meet
U.S. Coast Guard
Regulations
and
International Regulations
(72 COLREGS – IMCO)**



MANUFACTURED BY PERKO, INC. 16490 N.W. 13TH AVE., P.O. BOX 64000-D, MIAMI, FLORIDA 33164

FOR COMPLETE LINE SEE CATALOG NO. 240

72 COLREGS

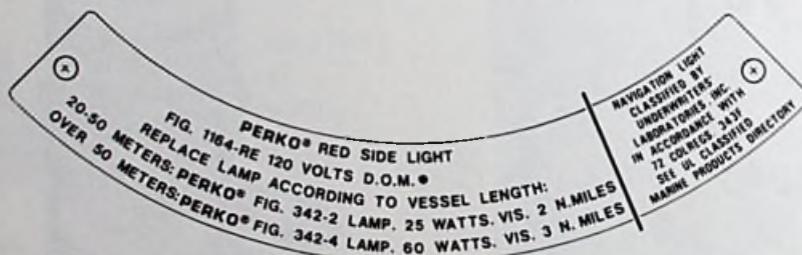
On March 31, 1977, the U.S. Coast Guard published in the Federal Register, an amendment to the navigation and navigable waters regulations, which added a new subchapter DD, (33CFR 87). This subchapter contains rules implementing and interpreting the International Regulations for Preventing Collisions at Sea, 1972 (72 COLREGS). The International Regulations for Preventing Collisions at Sea, 1960, were replaced by the 72 COLREGS at 1200 hours, zone time on July 15, 1977. Therefore, all U.S. vessels on the high seas must comply with the 72 COLREGS at this time.

Rules 21 and 22 of the 72 COLREGS, give the color and range requirements for various navigation lights, Annex I to the 72 COLREGS, gives positioning and technical details for these lights.

FINAL ACCEPTANCE LIGHTS

All vessels over 20 meters (65.7 ft.) are subject to the 72 COLREGS. The U.S. Coast Guard is accepting lights that have passed the U.L. tests (U.L. Standard 1104) as meeting the 72 COLREGS, as the first and only domestic manufacturer to pass U.L. 1104, Perko's "Final Acceptance" lights can be installed on any vessel over 20 meters (65.7 ft.).

A brass tag is permanently affixed to the light indicating the type light, figure no. voltage and type lamp to install to meet the visibility requirements. It also states that the light is classified by U.L. in accordance with the 72 COLREGS. This is the only documentation needed by a vessel for navigation lights to certify light construction compliance with the 72 COLREGS, and eliminates the former "Certificate of Compliance."



***Each light has its own serial no. for identification**

The lights shown on pages B-3 to B-6 are "Final Acceptance" lights and have passed U.L. 1104. The facimile of the tag shown above is used on our cast bronze lights. Similar rectangular tags are used on other style lights.

INTERIM ACCEPTANCE LIGHTS

The lights shown on pages B-7 and B-8 of this catalog may still be installed under the Interim Program until one year after U.L. standard 1104 becomes effective and without subsequently refitting to "Final Acceptance" lights.

SPECIAL PURPOSE LIGHTS

The lights shown on Pages B-9 through B-11 are offered for use where the vessel is subject to special local requirements.

For the present, the U.S. Coast Guard will not publish a list of U.L. classified lights or interim acceptance lights, however Field Offices have been notified. For more detailed information, consult the complete 72 COLREGS and your local Coast Guard office.

FINAL ACCEPTANCE LIGHTS

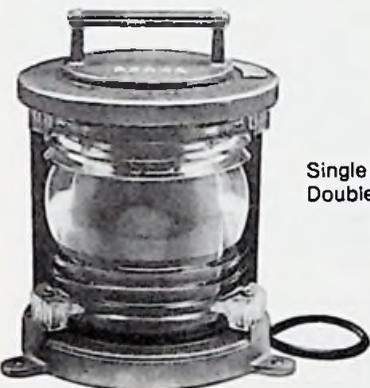
THE LIGHTS LISTED ON THIS PAGE HAVE BEEN TESTED BY UNDERWRITERS LABORATORIES, INC. UNDER U.L. STANDARD 1104 AND CLASSIFIED AS MEETING THE U.S. COAST GUARD REQUIREMENTS UNDER 72 COLREGS FOR USE ON ALL VESSELS OVER 20 METERS (65.7 ft.).

SINGLE AND DOUBLE LENS NAVIGATION LIGHTS CAST BRONZE — WATERTIGHT — ELECTRIC

Each section contains a Pre-Wired Medium Prefocus Lamp Socket with 3 Feet of 16/3-SO Cable and a watertight terminal tube. Watertight access cap for rebuilding and cleaning. Bulbs Not Included.

DOUBLE LENS TYPE

SINGLE LENS TYPE



Single Lens
Double Lens

Height
Overall
Inches

10
18

Height
Lens
Inches

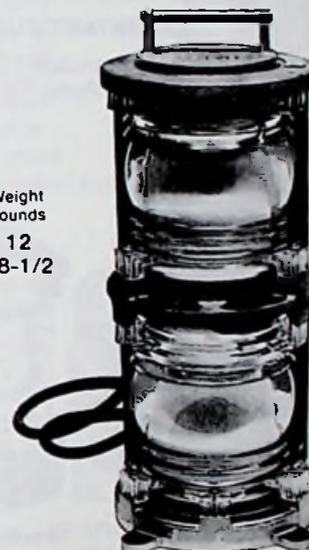
6-3/4
6-3/4

Weight
Pounds

12
18-1/2

IMPORTANT BULB DATA

To comply with U.L. Standard 1104, the lights listed on this page must use Perko Fig. 342 Bulbs.



| Single Lens | Double Lens |
|-------------|-------------|
|-------------|-------------|

For Vessels
20 Meters to 50 Meters
(65.7 ft. to 164.1 ft.)

For Vessels
Over 50 Meters
(164.1 ft.)

| Fig. No. | Fig. No. | Description | Visibility Arc | Visibility Miles | Required Wattage* | Visibility Miles | Required Wattage* |
|----------|----------|------------------------|-------------------|---------------------|----------------------|---------------------|----------------------|
| 1172-RE | 1164-RE | Red Side Light | 112½° | 2 | 25 | 3 | 60 |
| 1172-GE | 1164-GE | Green Side Light | 112½° | 2 | 25 | 3 | 40 |
| 1173-E | 1165-E | White Masthead Light | 225° | 5 | 40 | 6 | 60 |
| 1174-E | 1166-E | White Stern Light | 135° | 2 | 15 | 3 | 25 |
| 1174-ME | 1166-ME | Yellow Towing Light | 135° | 2 | 15 | 3 | 25 |
| 1169-E | 1167-E | White All-Round Light | 360° | 2 | 15 | 3 | 25 |
| 1170-RE | 1168-RE | Red All-Round Light | 360° | 2 | 25 | 3 | 60 |
| 1170-GE | 1168-GE | Green All-Round Light | 360° | 2 | 25 | 3 | 40 |
| 1170-ME | 1168-ME | Yellow All-Round Light | 360° | 2 | 15 | 3 | 25 |

*BULB DATA FOR ABOVE LIGHTS

The Above Lights must use Special Perko Bulb Type T-10, Medium Prefocus Base, 2-3/8" L.C.L., C-8 filament, Clear, 120 Volts, as follows:

| Fig. No. | Wattage |
|----------|---------|
| 342-1 | 15 |
| 342-2 | 25 |
| 342-3 | 40 |
| 342-4 | 60 |

SPARE PARTS

Top Cap with O-Ring, Fig. 1141
O-Ring only for Top Cap, Fig. 1159
Lens Gasket, Fig. 1143
Lenses, See Fig. 261, No. 1
Lens Retaining Clip with Bolt, Fig. 1133
Medium Prefocus Sockets Only, See Fig. 347
Dual Medium Prefocus Socket Assembly for Double Lens Lights, Specify Fig. 303.

FINAL ACCEPTANCE LIGHTS

THE LIGHTS LISTED ON THIS PAGE HAVE BEEN TESTED BY UNDERWRITERS LABORATORIES, INC. UNDER U.L. STANDARD 1104 AND CLASSIFIED AS MEETING THE U.S. COAST GUARD REQUIREMENTS UNDER 72 COLREGS FOR USE ON ALL VESSELS OVER 20 METERS (65.7 ft.).

ELECTRIC NAVIGATION LIGHTS

Brass or Galvanized Steel Body — Cast Bronze Rebulbing Cap — Medium Prefocus Lamp Socket — Terminal Tube for Cable Entrance — Bulbs Not Included

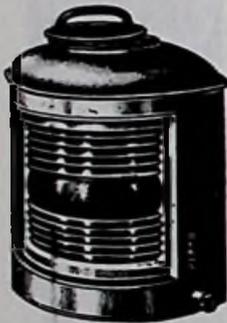
| Size No. | Galvanized* Steel Each | Plain Brass Each | Polished Brass Each | Nominal Height Lens Inches | Nominal Height Light Inches | Nominal Weight Pounds |
|----------|------------------------|------------------|---------------------|----------------------------|-----------------------------|-----------------------|
| 1 | | | | 6-3/4 | 11-1/2 | 8 |
| 2 | | | | 7-1/2 | 13-1/2 | 12 |

IMPORTANT BULB DATA

To comply with U.L. Standard 1104, the lights listed on this page must use Perko Fig. 342 Bulbs.

For Vessels 20 Meters to 50 Meters (65.7 ft. to 164.1 ft.)

| Fig. No. | Description | Visibility Arc | Visibility Miles | Require Wattage |
|----------|------------------------|----------------|------------------|-----------------|
| 1150-RE1 | Red Side Light | 112 1/2 ° | 2 | 25 |
| 1150-GE1 | Green Side Light | 112 1/2 ° | 2 | 25 |
| 1151-E01 | White Masthead Light | 225 ° | 5 | 40 |
| 1152-E01 | White Stern Light | 135 ° | 2 | 7.5 |
| 1152-ME1 | Yellow Towing Light | 135 ° | 2 | 7.5 |
| 1153-E01 | White All-Round Light | 360 ° | 2 | 15 |
| 1154-RE1 | Red All-Round Light | 360 ° | 2 | 60 |
| 1154-GE1 | Green All-Round Light | 360 ° | 2 | 40 |
| 1154-ME1 | Yellow All-Round Light | 360 ° | 2 | 25 |



Red & Green Side Lights
112 1/2 Degrees



Masthead Lights
225 Degrees



Stern or Towing Lights
135 Degrees



All-Round Lights
360 Degrees

For Vessels Over 50 Meters (164.1 ft.)

| Fig. No. | Description | Visibility Arc | Visibility Miles | Require Wattage |
|----------|------------------------|----------------|------------------|-----------------|
| 1150-RE2 | Red Side Light | 112 1/2 ° | 3 | 60 |
| 1150-GE2 | Green Side Light | 112 1/2 ° | 3 | 60 |
| 1151-E02 | White Masthead Light | 225 ° | 6 | 60 |
| 1152-E02 | White Stern Light | 135 ° | 3 | 25 |
| 1152-ME2 | Yellow Towing Light | 135 ° | 3 | 25 |
| 1153-E02 | White All-Round Light | 360 ° | 3 | 40 |
| 1154-RE2 | Red All-Round Light | 360 ° | 3 | 125 |
| 1154-GE2 | Green All-Round Light | 360 ° | 3 | 60 |
| 1154-ME2 | Yellow All-Round Light | 360 ° | 3 | 40 |

*BULB DATA FOR ABOVE LIGHTS

The Above Lights must use Bulb Type T-10, Medium Prefocus Base, 2-3/8" L.C.L., C-8 filament, 120 Volts, clear, as follows:

| Fig. No. | Wattage |
|----------|---------|
| 342-0 | 7.5 |
| 342-1 | 15 |
| 342-2 | 25 |
| 343-3 | 40 |
| 342-4 | 60 |
| *342-6 | 125 |

*Fig. 342-6 Same as Above except 2-3/16" L.C.L. and C-13B Filament.

*GALVANIZED STEEL LIGHTS ARE PREPRIMED

SPARE PARTS

112 1/2° Lenses, See Fig. 259, Nos. 1 or 2
 135° Lenses, See Fig. 269, Nos. 1 or 2
 225° Lenses, See Fig. 256, Nos. 1 or 2
 360° Lenses, For Figs. 1153-1154,
 See Fig. 261F, Nos. 1 or 2

Bronze Caps with "O" Ring, Specify Fig. 1160
 Medium Prefocus Socket with Cap Specify Fig. 347-A
 Socket Supports, See Fig. 341
 Mounting Brackets, Specify Fig. 143
 "O" Ring for Cap Specify Fig. 1193

FINAL ACCEPTANCE LIGHTS

THE LIGHTS LISTED ON THIS PAGE HAVE BEEN TESTED BY UNDERWRITERS LABORATORIES, INC. UNDER U.L. STANDARD 1104 AND CLASSIFIED AS MEETING THE U.S. COAST GUARD REQUIREMENTS UNDER 72 COLREGS FOR USE ON ALL VESSELS 20 METERS (65.7 ft.) to 50 METERS (164.1 ft.)

**SHEET METAL — GALVANIZED STEEL, POLISHED BRASS OR BRASS CHROMIUM PLATED
BOTTOM OPENING — ELECTRIC SOCKET IS SINGLE CONTACT PREFOCUS
FOR 12 VOLT USE ONLY — BULBS NOT INCLUDED**

| Fig. No. | Description | Visibility Arc | Visibility Miles | Required** Bulb Amperage |
|----------|----------------------|-------------------|---------------------|--------------------------------|
| 4-RD3 | Red Side Light | 112½° | 2 | .77A |
| 4-GD3 | Green Side Light | 112½° | 2 | .55A |
| 5-D03 | White Masthead Light | 225° | 5 | 2.03A |
| 7-D03 | White Stern Light | 135° | 2 | .25A |
| 7-MD3 | Yellow Towing Light | 135° | 2 | .55A |
| | Height | | Weight | |
| | Lens | | Pounds | |
| | Inches | | Each | |
| 8-1/2 | 5-3/16 | | 3-1/4 | |



**Red & Green
Side Lights
112½ Degrees**



**Stern
or
Towing Lights
135 Degrees**

NOTE: WHEN ORDERING, SPECIFY FINISH. GALVANIZED*, POLISHED BRASS OR CHROMIUM PLATED
*GALVANIZED STEEL LIGHTS ARE PREPRIMED

**BULB DATA FOR ALL LIGHTS ON THIS PAGE.

All Lights on This Page Must Use Bulb Type S-8, Single Contact Prefocus, C-8 Filament, Clear, 12 Volts, to Comply with U.L. Standard No. 1104.

| Fig. No. | Amperage | Mfg. No. |
|----------|----------|-------------|
| 373-1 | .25 | 25A/S8 |
| 373-2 | .55 | 55A/S8 |
| 373-3 | .77 | 77A/S8 |
| 373-4 | 1.15 | 1.15A/S8 |
| 373-5 | 2.03 | 2.03A/S8SCP |



**Masthead Lights
225 Degrees**

**ALL-ROUND LIGHTS — FOR VESSELS 20 TO 50 METERS (65.7 ft. to 164.1 ft.)
CAST BRONZE — PLAIN OR CHROMIUM PLATED —
ELECTRIC SOCKET IS SINGLE CONTACT PREFOCUS
FOR 12 VOLT USE ONLY — BULBS NOT INCLUDED**

| Fig. No. | Height Overall Inches | Diameter Base Inches | Tapped Pipe Size Inches | Weight Pounds |
|----------|-----------------------------|----------------------------|-------------------------------|------------------|
| 112 | 8-3/4 | 3-1/8 | — | 3-3/4 |
| 309 | 6-1/2 | — | 1/2 | 2-1/2 |

NOTE: WHEN ORDERING, SPECIFY FINISH.

Figs. 112 & 309 — BULB DATA

| Fig. No. | Description | Visibility Miles | Required** Bulb Amperage |
|---------------|------------------------|---------------------|--------------------------------|
| 112D & 309D | White All-Round Light | 2 | .55A |
| 112MD & 309MD | Yellow All-Round Light | 2 | .55A |
| 112RD & 309RD | Red All-Round Light | 2 | 1.15A |
| 112GD & 309GD | Green All-Round Light | 2 | 1.15A |



Fig. 112D



Fig. 309D

**All-Round
Lights
360 Degrees**

SPARE PARTS

Lenses For Fig. 4, See Fig. 259, Class 3.
Lenses For Fig. 5, See Fig. 256, Class 3.
Lenses For Fig. 7, See Fig. 269, Class 3.
Globes For Figs. 112 & 309, See Fig. 106.

Single Contact Prefocus Adapter For Figs. 4, 5 & 7,
Specify Fig. 294 No.3.
Single Contact Socket Assembly For Figs. 112D &
309D, Specify Fig. No. 103.
Mounting Brackets For Figs. 4, 5 & 7, Specify Fig. 131
and Finish.

FINAL ACCEPTANCE LIGHTS

THE LIGHTS LISTED ON THIS PAGE HAVE BEEN TESTED BY UNDERWRITERS LABORATORIES, INC. UNDER U.L. STANDARD 1104 AND CLASSIFIED AS MEETING THE U.S. COAST GUARD REQUIREMENTS UNDER 72 COLREGS FOR USE ON ALL VESSELS OVER 20 METERS (65.7 ft.).

ALL-ROUND LIGHTS CAST BRONZE — MEDIUM PREFOCUS LAMP SOCKET BULBS NOT INCLUDED

IMPORTANT BULB DATA

To comply with U.L. Standard 1104, the lights listed on this page must use Perko Fig. 342 Bulbs.



Fig. 403-2



Fig. 403-3
Fig. 454



Fig. 412

ALL-ROUND LIGHTS — Figs. 403, 412 & 454

| Fig. No. | Height Overall Inches | Height Lens Inches | Tapped Pipe Size Inches | Weight Pounds |
|----------|-----------------------|--------------------|-------------------------|---------------|
| 403-2 | 9 | 4-1/4 | 3/4 | 6-1/2 |
| 403-3 | 11-1/2 | 6-3/4 | 1 | 9-1/2 |
| 412 | 14 | 6-3/4 | — | 11-1/2 |
| 454 | 11-1/2 | 6-3/4 | 1 | 9-1/2 |

For Vessels 20 Meters to 50 Meters
(65.7 ft. to 164.1 ft.)

| Fig. No. | Description | Visibility Miles | Required Wattage* |
|----------|------------------------|------------------|-------------------|
| 403-EO2 | White All-Round Light | 2 | 25 |
| 403-RE2 | Red All-Round Light | 2 | 40 |
| 403-GE2 | Green All-Round Light | 2 | 40 |
| 403-ME2 | Yellow All-Round Light | 2 | 25 |
| 412-E | White All-Round Light | 2 | 15 |
| 412-RE | Red All-Round Light | 2 | 25 |
| 412-GE | Green All-Round Light | 2 | 25 |
| 412-ME | Yellow All-Round Light | 2 | 15 |

For Vessels Over 50 Meters
(164.1 ft.)

| Fig. No. | Description | Visibility Miles | Required Wattage* |
|----------|------------------------|------------------|-------------------|
| 403-EO3 | White All-Round Light | 3 | 25 |
| 403-RE3 | Red All-Round Light | 3 | 60 |
| 403-GE3 | Green All-Round Light | 3 | 40 |
| 403-ME3 | Yellow All-Round Light | 3 | 25 |
| 412-E | White All-Round Light | 3 | 25 |
| 412-RE | Red All-Round Light | 3 | 60 |
| 412-GE | Green All-Round Light | 3 | 40 |
| 412-ME | Yellow All-Round Light | 3 | 25 |

FIG. 454-E White Whistle Light —
Visibility 5 miles with Fig. 342 No. 4 Bulb.

SPARE PARTS

- Lens for Fig. 403-2, See Fig. 261-F Senior, Specify Color.
- Lenses for Figs. 403-3, 412, 454, See Fig. 261 No. 1.
- Medium Prefocus Socket for Fig. 403-2, See Fig. 347-A.
- Medium Prefocus Sockets for Figs. 403-3, 412, 454, See Fig. 347.
- Gasket for Lens or Cover for Fig. 403 No. 2, Specify Fig. 1140 Size 1.
- Gasket for Lens or Cover for Figs. 403 No. 3, 412, 454, Specify Fig. 1143.

*BULB DATA FOR ABOVE LIGHTS

The Above Lights must use Special Perko Bulb Type T-10, Medium Prefocus Base, 2-3/8" L.C.L., C-8 filament, Clear, 120 Volts, as follows:

| Fig. No. | Wattage |
|----------|---------|
| 342-1 | 15 |
| 342-2 | 25 |
| 342-3 | 40 |
| 342-4 | 60 |

INTERIM ACCEPTANCE LIGHTS

THE LIGHTS LISTED ON THIS PAGE HAVE BEEN GIVEN INTERIM ACCEPTANCE BY THE U.S. COAST GUARD FOR USE ON ALL VESSELS OVER 20 METERS (65.7 ft.) — SEE PAGE B-2 FOR DETAILS ON THE INTERIM ACCEPTANCE PROGRAM.

ELECTRIC NAVIGATION LIGHTS

Brass or Galvanized Steel Body — Bottom Opening — Medium Screw Lamp Socket
Bulbs Not Included

| Size No. | Galvanized Steel Each | Plain Brass Each | Polished Brass Each | Nominal Height Lens Inches | Nominal Height Light Inches | Nominal Weight Pounds |
|----------|-----------------------|------------------|---------------------|----------------------------|-----------------------------|-----------------------|
| 1 | | | | 6-3/4 | 11 | 6 |
| 2 | | | | 7-1/2 | 13 | 9 |

For Vessels 20 Meters to 50 Meters (65.7 ft. to 164.1 ft.)

| Fig. No. | Description | Visibility Arc | Visibility Miles | Required Wattage* |
|----------|------------------------|----------------|------------------|-------------------|
| 30-RB1 | Red Side Light | 112½° | 2 | 15 clear |
| 30-GB1 | Green Side Light | 112½° | 2 | 15 clear |
| 983-B01 | White Masthead Light | 225° | 5 | 40 clear |
| 986-B01 | White Stern Light | 135° | 2 | 15 clear |
| 986-MB1 | Yellow Towing Light | 135° | 2 | 15 clear |
| 32-B01 | White All-Round Light | 360° | 2 | 25 frosted |
| 84-RB1 | Red All-Round Light | 360° | 2 | 40 frosted |
| 84-GB1 | Green All-Round Light | 360° | 2 | 40 frosted |
| 84-MB1 | Yellow All-Round Light | 360° | 2 | 25 frosted |



Red & Green Side Lights
112½ Degrees



Masthead Lights
225 Degrees

For Vessels Over 50 Meters (164.1 ft.)

| Fig. No. | Description | Visibility Arc | Visibility Miles | Required Wattage* |
|----------|------------------------|----------------|------------------|-------------------|
| 30-RB2 | Red Side Light | 112½° | 3 | 40 clear |
| 30-GB2 | Green Side Light | 112½° | 3 | 60 clear |
| 983-B02 | White Masthead Light | 225° | 6 | 60 clear |
| 986-B02 | White Stern Light | 135° | 3 | 15 clear |
| 986-MB2 | Yellow Towing Light | 135° | 3 | 25 clear |
| 32-B02 | White All-Round Light | 360° | 3 | 25 frosted |
| 84-RB2 | Red All-Round Light | 360° | 3 | 60 frosted |
| 84-GB2 | Green All-Round Light | 360° | 3 | 60 frosted |
| 84-MB2 | Yellow All-Round Light | 360° | 3 | 40 frosted |



Stern or Towing Lights
135 Degrees



All-Round Lights
360 Degrees

*BULB DATA FOR ABOVE LIGHTS

The Above Lights must use Bulb Type T-10, Medium Screw Base, C-8 filament, 120 Volts, as follows:

| Fig. No. | Wattage | Mfg. No. |
|----------|------------|----------|
| 340-20 | 15 clear | 15T10 |
| 340-21 | 25 clear | 25T10 |
| 340-22 | 40 clear | 40T10 |
| 340-23 | 60 clear | 60T10/64 |
| 340-24 | 25 frosted | 25T10/IF |
| 340-25 | 40 frosted | 40T10/IF |
| 340-26 | 60 frosted | 60T10/IF |



Electric Adapter
In Base of Light

SPARE PARTS

112½° Lenses, See Fig. 259, Nos. 1 or 2
135° Lenses, See Fig. 269, Nos. 1 or 2
225° Lenses, See Fig. 256, Nos. 1 or 2
360° Lenses, See Fig. 261, Nos. 1 or 2

Medium Screw Adapters, See Fig. 283
Medium Screw Sockets, See Fig. 346, No.2
Mounting Brackets, Specify Fig. 143

INTERIM ACCEPTANCE LIGHTS

THE LIGHTS LISTED ON THIS PAGE HAVE BEEN GIVEN INTERIM ACCEPTANCE BY THE U.S. COAST GUARD FOR USE ON ALL VESSELS OVER 20 METERS (65.7 ft.) — SEE PAGE B-2 FOR DETAILS ON THE INTERIM ACCEPTANCE PROGRAM.

ELECTRIC NAVIGATION LIGHTS

Brass or Galvanized Steel Body — Bottom Opening — Medium Screw Lamp Socket
Bulbs Not Included

| Size No. | Galvanized Steel Each | Plain Brass Each | Polished Brass Each | Nominal Height Lens Inches | Nominal Height Light Inches | Nominal Weight Pounds |
|----------|-----------------------|------------------|---------------------|----------------------------|-----------------------------|-----------------------|
| 1 | | | | 6-3/4 | 15 | 7 |
| 2 | | | | 7-1/2 | 18 | 10-1/2 |



Red & Green Side Lights
112½ Degrees



Masthead Lights
225 Degrees



Stern or Towing Lights
135 Degrees



All-Round Lights
360 Degrees



Electric Adapter
In Base of Light

For Vessels 20 Meters to 50 Meters
(65.7 ft. to 164.1 ft.)

| Fig. No. | Description | Visibility Arc | Visibility Miles | Required Wattage |
|----------|------------------------|----------------|------------------|------------------|
| 21-RB1 | Red Side Light | 112½° | 2 | 15 clear |
| 21-GB1 | Green Side Light | 112½° | 2 | 15 clear |
| 982-B01 | White Masthead Light | 225° | 5 | 40 clear |
| 985-B01 | White Stern Light | 135° | 2 | 15 clear |
| 985-MB1 | Yellow Towing Light | 135° | 2 | 15 clear |
| 23-B01 | White All-Round Light | 360° | 2 | 25 frosted |
| 129-RB1 | Red All-Round Light | 360° | 2 | 40 frosted |
| 129-GB1 | Green All-Round Light | 360° | 2 | 40 frosted |
| 129-MB1 | Yellow All-Round Light | 360° | 2 | 25 frosted |

For Vessels Over 50 Meters
(164.1 ft.)

| Fig. No. | Description | Visibility Arc | Visibility Miles | Required Wattage |
|----------|------------------------|----------------|------------------|------------------|
| 21-RB2 | Red Side Light | 112½° | 3 | 40 clear |
| 21-GB2 | Green Side Light | 112½° | 3 | 60 clear |
| 982-B02 | White Masthead Light | 225° | 6 | 60 clear |
| 985-B02 | White Stern Light | 135° | 3 | 15 clear |
| 985-MB2 | Yellow Towing Light | 135° | 3 | 25 clear |
| 23-B02 | White All-Round Light | 360° | 3 | 25 frosted |
| 129-RB2 | Red All-Round Light | 360° | 3 | 60 frosted |
| 129-GB2 | Green All-Round Light | 360° | 3 | 60 frosted |
| 129-MB2 | Yellow All-Round Light | 360° | 3 | 40 frosted |

*BULB DATA FOR ABOVE LIGHTS

The Above Lights must use Bulb Type T-10, Medium Screw Base, C-8 filament, 120 Volts, as follows:

| Fig. No. | Wattage | Mfg. No. |
|----------|------------|----------|
| 340-20 | 15 clear | 15T10 |
| 340-21 | 25 clear | 25T10 |
| 340-22 | 40 clear | 40T10 |
| 340-23 | 60 clear | 60T10/64 |
| 340-24 | 25 frosted | 25T10/IF |
| 340-25 | 40 frosted | 40T10/IF |
| 340-26 | 60 frosted | 60T10/IF |

SPARE PARTS

112½° Lenses, See Fig. 259, Nos. 1 or 2
135° Lenses, See Fig. 269, Nos. 1 or 2
225° Lenses, See Fig. 256, Nos. 1 or 2
360° Lenses, See Fig. 261, Nos. 1 or 2

Medium Screw Adapters, See Fig. 288
Medium Screw Sockets, See Fig. 346, No. 2
Mounting Brackets, Specify Fig. 143

SPECIAL PURPOSE LIGHTS

THE LIGHTS LISTED ON THIS PAGE ARE OFFERED FOR EMERGENCY ONLY. THEY MAY BE USED ON VESSELS OVER 65 ft. LONG.

EMERGENCY OIL NAVIGATION LIGHTS FOR VESSELS OVER 65 FEET LONG Turret Top — Bottom Opening

| Size. No. | Galvanized* Steel Each | Plain Brass Each | Polished Brass Each | Nominal Height Lens Inches | Nominal Height Light Inches | Nominal Weight Pounds |
|--------------|------------------------------|------------------------|---------------------------|----------------------------------|-----------------------------------|-----------------------------|
| 1 | | | | 6-3/4 | 15 | 7 |
| 2 | | | | 7-1/2 | 18 | 10-1/2 |

Recommended For Vessels 20 Meters to 50 Meters
(65.7 ft. to 164.1 ft.)

| Fig. No. | Description | Visibility Arc |
|----------|------------------------|----------------|
| 21-R01 | Red Side Light | 112½° |
| 21-G01 | Green Side Light | 112½° |
| 982-001 | White Masthead Light | 225° |
| 982-R01 | Red Masthead Light | 225° |
| 982-M01 | Yellow Masthead Light | 225° |
| 985-001 | White Stern Light | 135° |
| 985-R01 | Red Stern Light | 135° |
| 985-M01 | Yellow Stern Light | 135° |
| 23-001 | White All-Round Light | 360° |
| 129-R01 | Red All-Round Light | 360° |
| 129-G01 | Green All-Round Light | 360° |
| 129-M01 | Yellow All-Round Light | 360° |



Red & Green
Side Lights
112½ Degrees



Masthead Lights
225 Degrees

Recommended For Vessels Over 50 Meters
(164.1 ft.)

| Fig. No. | Description | Visibility Arc |
|----------|------------------------|----------------|
| 21-R02 | Red Side Light | 112½° |
| 21-G02 | Green Side Light | 112½° |
| 982-002 | White Masthead Light | 225° |
| 982-R02 | Red Masthead Light | 225° |
| 982-M02 | Yellow Masthead Light | 225° |
| 985-002 | White Stern Light | 135° |
| 985-R02 | Red Stern Light | 135° |
| 985-M02 | Yellow Stern Light | 135° |
| 23-002 | White All-Round Light | 360° |
| 129-R02 | Red All-Round Light | 360° |
| 129-G02 | Green All-Round Light | 360° |
| 129-M02 | Yellow All-Round Light | 360° |



Stern
or
Towing Lights
135 Degrees

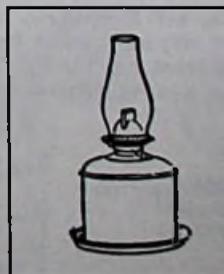


All-Round
Lights
360 Degrees

*GALVANIZED STEEL LIGHTS ARE PREPRIMED

SPARE PARTS

112½° Lenses, See Fig. 259, Nos. 1 or 2
 135° Lenses, See Fig. 269, Nos. 1 or 2
 225° Lenses, See Fig. 256, Nos. 1 or 2
 360° Lenses, See Fig. 261, Nos. 1 or 2
 Chimneys — See Fig. 267
 Burners — See Fig. 242
 Wicks — See Fig. 302 No. 2
 Oil Founts — See Fig. 282
 Mounting Brackets, See Fig. 143



Oil Lamp in
Base of Light

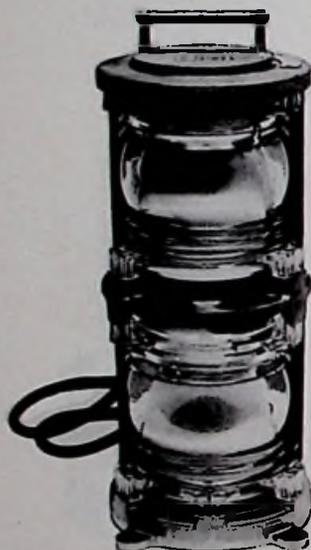
SPECIAL PURPOSE LIGHTS

THE LIGHTS SHOWN BELOW ARE OFFERED FOR USE WHERE THE VESSEL IS SUBJECT TO SPECIAL LOCAL REQUIREMENTS.

SINGLE AND DOUBLE LENS NAVIGATION LIGHTS CAST BRONZE – WATERTIGHT – ELECTRIC

Each section contains a prewired medium prefocus lamp socket with 3 feet of 16/3-S.O. Cable and watertight terminal tube. Watertight access cap for rebulbing and cleaning. Bulbs Not Included.

DOUBLE LENS TYPE



| | Height Overall Inches | Height Lens Inches | Weight Pounds |
|-------------|-----------------------------|--------------------------|------------------|
| Double Lens | 18 | 6-3/4 | 18-1/2 |
| Single Lens | 10 | 6-3/4 | 12 |

BULB DATA

The lights listed on this page must use Clear bulbs as follows:

| Fig. No. | | Wattage |
|----------|-----------------|---------|
| 342-1 | Medium Prefocus | 15 |
| 342-2 | Medium Prefocus | 25 |
| 342-3 | Medium Prefocus | 40 |

SINGLE LENS TYPE



Double Lens Type with Medium Prefocus Sockets

| Fig. No. | Description | Visibility Arc | Visibility Miles | Required Wattage |
|-----------|---------------------------|----------------|------------------|---------------------|
| 1165-RE | Red Masthead Light | 225° | 2 | 25 |
| 1165-ME | Yellow Masthead Light | 225° | 2 | 15 |
| *1165-REL | White/Red Masthead Light | 225° | 5/2 | 40/25 |
| 1166-RE | Red Stern Light | 135° | 2 | 25 |
| *1168-REL | White/Red All-Round Light | 360° | 3/2 | 25/25 |

Single Lens Type with Medium Prefocus Socket

| | | | | |
|---------|-----------------------|------|---|----|
| 1171-RE | Red Dredging Light | 45° | 2 | 25 |
| 1173-RE | Red Masthead Light | 225° | 2 | 25 |
| 1173-ME | Yellow Masthead Light | 225° | 2 | 15 |
| 1174-RE | Red Stern Light | 135° | 2 | 25 |

SPARE PARTS

Top Cap with O-Ring, Fig. 1141
O-Ring only for Top Cap, Fig. 1159
Lens Gasket, Fig. 1143
Lenses, See Fig. 261, No.1

Lens Retaining Clip with Bolt, Fig. 1133
Medium Prefocus Sockets only, See Fig. 347
Medium Prefocus Socket Assembly For
Double Lens Lights Specify, Fig. 303

*OUR STANDARD IS WHITE ON TOP RED ON BOTTOM, IF
REQUIRED OTHERWISE, PLEASE SPECIFY.

SPECIAL PURPOSE LIGHTS

THE LIGHTS SHOWN BELOW ARE OFFERED FOR USE WHERE THE VESSEL IS SUBJECT TO SPECIAL LOCAL REQUIREMENTS.

ELECTRIC NAVIGATION LIGHTS FOR VESSELS OVER 65 FT. LONG

Waterproof — Cast Bronze Rebulbing Cap — Terminal Tubes
MEDIUM PREFOCUS LAMP SOCKETS — LAMPS NOT INCLUDED

| Size No. | Galvanized Steel Each | Plain Brass Each | Polished Brass Each | Nominal Height Lens Inches | Nominal Height Light Inches | Nominal Weight Pounds |
|----------|-----------------------|------------------|---------------------|----------------------------|-----------------------------|-----------------------|
| 1 | | | | 6-3/4 | 11-1/2 | 8 |
| 2 | | | | 7-1/2 | 13-1/2 | 12 |

Recommended For Vessels 20 Meters to 50 Meters (65.7 ft. to 164.1 ft.)

| Fig. No. | Description | Visibility Arc | Visibility Miles | Required Wattage |
|----------|-----------------------|----------------|------------------|------------------|
| 1151-RE1 | Red Masthead Light | 225° | 2 | 25 |
| 1151-ME1 | Yellow Masthead Light | 225° | 2 | 15 |
| 1152-RE1 | Red Stern Light | 135° | 2 | 25 |

Recommended For Vessels Over 50 Meters (164.1 ft.)

| Fig. No. | Description | Visibility Arc | Visibility Miles | Required Wattage |
|----------|-----------------------|----------------|------------------|------------------|
| 1151-RE2 | Red Masthead Light | 225° | 2 | 25 |
| 1151-ME2 | Yellow Masthead Light | 225° | 2 | 15 |
| 1152-RE2 | Red Stern Light | 135° | 2 | 25 |



Fig. 1151



Fig. 1152

SPARE PARTS

135° Lenses, See Fig. 269, Nos. 1 or 2
225° Lenses, See Fig. 256, Nos. 1 or 2
Bronze Caps with "O" Ring Specify Fig. 1160
Spare "O" Ring Specify Fig. 1193

Medium Prefocus Sockets, See Fig. 347-A
Socket Supports, See Fig. 341
Mounting Brackets, Specify Fig. 143
For Bulbs See Fig. 342 - Specify Size

NEW

FLASHING YELLOW BOW LIGHT

GALVANIZED STEEL BODY, TOP OPENING, MEDIUM PREFOCUS SOCKET, SEALED FLASHER UNIT

| Each | Height Lens Inches | Height Light Inches | Weight Pounds |
|------|--------------------|---------------------|---------------|
| | 6 3/4 | 11 1/2 | 8 |

Designed to meet Federal Requirements for a flashing yellow 180°-225° bow light for barges, canal boats, etc., that are being pushed ahead or towed along side of a tug boat. For use on 110 volts A.C. - 2 mile visibility. The Federal Requirements for this light are applicable for inland waters, the Atlantic and Pacific Coasts, Gulf Coast, Gulf Intra-coastal Waterways and Western Rivers.



Fig. 1111ME

SPARE PARTS

Spare Lens, See Fig. 261 M No. 1
Spare Flasher Specify Fig. 133

Spare Socket, See Fig. 347-A
Bulb See Fig. 342 No. 1

VAPOR-PROOF FIXTURES

Combination Junction Box — Ceiling and Bulkhead Type — 7" Cast Guards — Screw Glass Globes — Clear — Keyless — Die Cast Aluminum — Non Corrosive — Satin Finish.

CAPACITY UP TO 100 WATTS

Fixtures have four 1/2 inch I.R.S. tappings.

| Fig. | Each | Diameter Box Inches | Length Overall Inches | Weight Pounds |
|------|------|---------------------|-----------------------|---------------|
| 1087 | | 3-3/4 | 9-1/2 | 3 |
| 1090 | | 3-3/4 | 10 | 3-1/4 |

FIG. 1090 EXTENDS FROM BULKHEAD 7 INCHES OVERALL

Spare Guards, Specify Fig. No. and 99-A
Spare Sockets, Specify Fig. No. and 99-B
Spare Clear Globes, Specify Fig. No. and 99-C



Fig. 1090

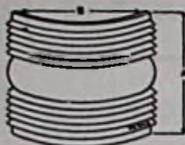


Listed by Underwriters Laboratories



Fig. 1087

SPARE PARTS FOR SECTION B



112 1/2° LENSES

| No. | Each | A Inches | B Inches |
|-----|------|----------|----------|
| 1 | | 6-3/4 | 6-1/8 |
| 2 | | 7-1/2 | 9-1/4 |

Red - Fig. 259-R
Green - Fig. 259-G

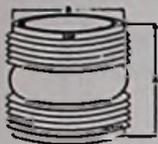


Fig. 341

SOCKET SUPPORTS FOR MEDIUM PREFOCUS SOCKET

Brass - 3/8" I.P.S. Thread

| No. | Each | Height Overall Inches | For Size Light |
|-------|------|-----------------------|----------------|
| 1 | | 7/8 | 1 |
| 1-1/2 | | 1-1/2 | 2 |



360° LENSES

| No. | Each | A Inches | B Inches |
|-----|------|----------|----------|
| 1 | | 6-3/4 | 5-1/8 |
| 2 | | 7-1/2 | 7-3/8 |

CLEAR White - Fig. 261
Red - Fig. 261-R
Green - Fig. 261-G
Yellow - Fig. 261-M

FROSTED White - Fig. 261-F
Red - Fig. 261-RF
Green - Fig. 261-GF
Yellow - Fig. 261-MF



Fig. 288

ELECTRIC ADAPTERS 2 Wire Brass Medium Screw Socket

| For Light No. | Each | Opening In Light Inches | Weight Ounces |
|---------------|------|-------------------------|---------------|
| 1 | | 3-3/4 | 6-1/2 |
| 2 | | 4-3/4 | 8 |



225° LENSES

| No. | Each | A Inches | B Inches |
|-----|------|----------|----------|
| 1 | | 6-3/4 | 4-1/2 |
| 2 | | 7-1/2 | 6-5/8 |

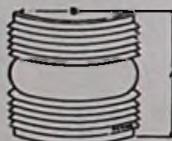
White - Fig. 256
Red - Fig. 256-R
Yellow - Fig. 256-M



Fig. 282

OIL FOUNTAINS Brass

| For Light No. | Each | Opening In Light Inches | Weight Ounces |
|---------------|------|-------------------------|---------------|
| 1 | | 3-3/4 | 8 |
| 2 | | 4-3/4 | 11 |



135° LENSES

| No. | Each | A Inches | B Inches |
|-----|------|----------|----------|
| 1 | | 6-3/4 | 5-1/8 |
| 2 | | 7-1/2 | 7-1/4 |

White - Fig. 269
Red - Fig. 269-R
Yellow - Fig. 269-M



Fig. 242

HINGED OIL BURNERS Brass

| Brass Each | Chrome Each | Diam. Thread Inches | Width Wick Inches |
|------------|-------------|---------------------|-------------------|
| | | 1-1/4 | 7/8 |

Standard Package - 5 Pieces



Fig. 346

MEDIUM SCREW SOCKET Phenolic - C.G. Approved 250 Volts - 660 Watts

| No. | Each | Size Thread Inches | Height Inches | Extreme Diameter Inches |
|-----|------|--------------------|---------------|-------------------------|
| 2 | | 3/8 | 2-1/8 | 1-1/2 |

Standard package 5 pieces.



Fig. 302

FLAT WICKS Cotton - 7/8" Wide

| No. | Each | Standard Package |
|-----|------|------------------|
| 2 | | 10 |



Figs. 347 & 347-A*

MEDIUM PREFOCUS SOCKETS Phenolic - 250 Volts - 1000 Watts

| Each | Overall Height Inches | Overall Diameter Inches | Weight Ounces |
|------|-----------------------|-------------------------|---------------|
| | 1-7/8 | 1-1/2 | 4 |

Standard Package - 5 Pieces

*Fig. 347-A supplied with metal Mounting Cap Tapped for 3/8" I.P.S.



Fig. 267

LIP CHIMNEYS Glass

| Each | Height Inches | Diam. Bottom Inches | Weight Ounces |
|------|---------------|---------------------|---------------|
| | 6 | 2-1/16 | 3 |

Standard Package - 5 Pieces



Fig. 342

MEDIUM PREFOCUS BULBS Clear - 120 Volts

| Fig. No. 342 | Wattage |
|--------------|---------|
| 0 | 7.5 |
| 1 | 15 |
| 2 | 25 |
| 3 | 40 |
| 4 | 60 |
| 6 | 125 |



Fig. 303

Medium Prefocus Socket Assembly Plug In Type - Prewired - with two medium prefocus sockets. For use in double lens lights Fig. 1164 series.

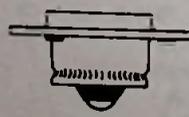


Fig. 373

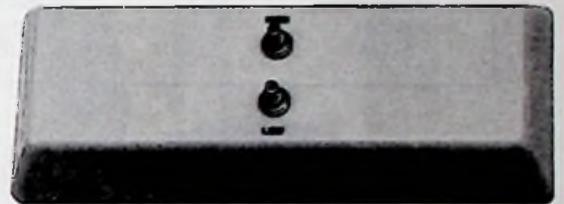
SINGLE CONTACT PREFOCUS BULBS C-8 FILAMENT Clear - 12 Volt

| Fig. No. 373 | Amperage | Mfg. No. |
|--------------|----------|------------------|
| 1 | .25 | 25A/SB |
| 2 | .55 | 55A/SB |
| 3 | .77 | 77A/SB |
| 4 | 1.15 | 1.15A/SB |
| 5 | 2.03 | 2.03A/SB 8SCP |

SECTION C-D

PERKO®

**SWITCHES, PANELS,
LIGHTING FIXTURES,
ETC.**



MANUFACTURED BY PERKO, INC. 16490 N.W. 13TH AVE., P.O. BOX 64000-D, MIAMI, FLORIDA 33164

FOR COMPLETE LINE SEE CATALOG NO. 240

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8500 SERIES IGNITION PROTECTED BATTERY SELECTOR SWITCHES

MAKE BEFORE BREAK DESIGN — FOR USE WITH TWO OR MORE BATTERIES — FOR SINGLE OR DUAL ENGINE SYSTEMS.* THESE NEWLY DESIGNED SWITCHES OFFER UNIQUE OPTIONS SUCH AS KEY LOCK ASSEMBLY FOR EXTRA THEFT PROTECTION. PERMITS SELECTION BETWEEN BATTERIES FOR STARTING AND CHARGING OR OPERATION OF BOTH BATTERIES IN PARALLEL. ALLOWS THE ADDITION OF AN EXTRA BATTERY FOR USE WITH ACCESSORIES. "OFF" POSITION ALSO ACTS AS AN EMERGENCY DISCONNECT IN THE EVENT OF AN ELECTRICAL PROBLEM.

Protected By U.S. Patent No. 4280028 and other Patents Pending

Surface Mount — Red Plastic Housing with Improved Design to Protect Electrical Connections — Large Black Plastic Knob — Copper Contacts — Stainless Steel Spring — Brass Terminals
For use with 6, 12, 24 and 32 Volt Systems
Capacity 250 AMPS Continuous
360 AMPS Intermittent

Diameter
Inches
5-1/4

Depth
Inches
2-5/8

Standard
Package
5

Weight
Pounds
1



Fig. 8501 without Key Lock Assembly



Fig. 8502 with Key Lock Assembly

ALTERNATOR FIELD DISCONNECT MODELS

The advantage of these models permits inadvertent switching to the "OFF" position even if the engine is running without damage to the alternator.



Fig. 8503 without Key Lock Assembly
with Field Disconnect Feature

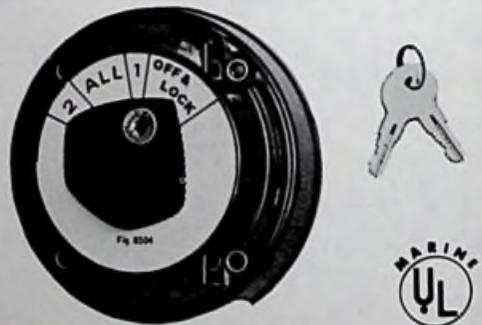


Fig. 8504 with Key Lock Assembly
with Field Disconnect Feature

*For Dual Engine Systems, 2 Switches are required.
Above switches are Marine U.L. Listed.

ALL OF THE ABOVE SWITCHES ARE PACKED IN OUR NEW CONVERTIBLE DISPLAY BOX FOR COUNTER OR RACK DISPLAY.
SEE SECTION L FOR DETAILS

9600 SERIES IGNITION PROTECTED MAIN BATTERY SWITCHES ON-OFF TYPE

NOW AVAILABLE WITH NEW KEY LOCK OPTION FOR EXTRA THEFT PROTECTION

Protected By U.S. Patent No. 4280028 and other Patents Pending

Surface Mount — Red Plastic Housing with Improved Design to Protect Electrical Connections — Large Black Plastic Knob — Copper Contacts — Stainless Steel Spring — Brass Terminals
For use with 6, 12, 24 and 32 Volt Systems
Capacity 250 AMPS Continuous
360 AMPS Intermittent

| Diameter Inches | Depth Inches | Standard Package | Weight Pounds |
|--------------------|-----------------|---------------------|------------------|
| 5-1/4 | 2-5/8 | 5 | 1 |



Fig. 9601 without Key Lock Assembly



Fig. 9602 with Key Lock Assembly

ALTERNATOR FIELD DISCONNECT MODELS

The advantage of these models permits inadvertent switching to the "OFF" position even if the engine is running without damage to the alternator.



Fig. 9603 without Key Lock Assembly
with Field Disconnect Feature



Fig. 9604 with Key Lock Assembly
with Field Disconnect Feature

Above switches are Marine U.L. Listed.

OF THE ABOVE SWITCHES ARE PACKED IN OUR NEW CONVERTIBLE DISPLAY BOX FOR COUNTER OR RACK DISPLAY.
 SEE SECTION L FOR DETAILS.

PUSH AND PULL SWITCHES—Fig. 105

All Brass – 2 Terminal – OFF-ON – 25 Amps. at 12 Volts

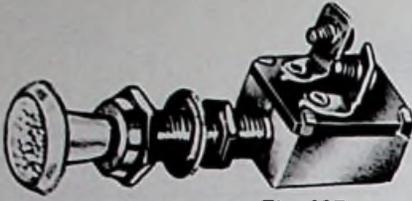


Fig. 105

| No. | Chromium Plated Each | Diam. Neck Inches | For Wood Thickness Inches | Length Overall Inches | Diam. Knob Inches | Weight Ounces |
|-----|----------------------|-------------------|---------------------------|-----------------------|-------------------|---------------|
| 1 | | 3/8 | 1 | 3 | 3/4 | 2 |
| 2 | | 3/8 | 1-1/4 | 3-1/4 | 3/4 | 2- |

Standard package 10 pieces.



SKIN PACK FIG. 105-SP No. 1

One Switch Per Card.
Twelve Cards Per Box.
Weight Per Box 3 Pounds.

Sold to trade in full box only.



Fig. 105 SP



PUSH-PULL SWITCH—Fig. 321

All Brass – 3 Terminal – OFF-ON-ON – 25 Amps. at 12 Volts

First "On" Position Energizes One Circuit.
Second "On" Position Energizes Other Circuit.

Ideal for Anchor Light on separate circuit from Running Lights, all on one switch. Not for use with Combination Bow and Anchor Lights. See Fig. 366

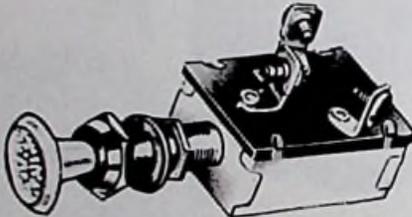


Fig. 321

| Chromium Plated Each | Diam. Neck Inches | Diam. Knob Inches | For Wood Thickness Inches | Weight Ounces |
|----------------------|-------------------|-------------------|---------------------------|---------------|
| | 3/8 | 3/4 | 1 | 3-1/4 |

Standard package 10 pieces.



3-POSITION PUSH-PULL SWITCH—Fig. 366

All Brass – 2 Circuit – OFF-ON-ON – 25 Amps. at 12 Volts

For use with combination bow and anchor lights. First position is off; second position for side, stern and bow lights; third position is for anchor light . . . illuminates bow compartments of bow-anchor light.

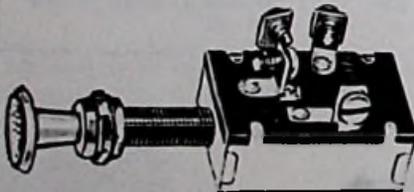


Fig. 366

| Chromium Plated Each | Diam. Neck Inches | Diam. Knob Inches | For Wood Thickness Inches | Weight Ounces |
|----------------------|-------------------|-------------------|---------------------------|---------------|
| | 3/8 | 3/4 | 1 | 3-1/4 |

Standard package 10 pieces.



SKIN PACK—Fig. 366-SP

One Switch Per Card.
Six Cards Per Box.
Weight Per Box 2 Pounds.

Sold to trade in full box only.



Fig. 366 SP

NOTE—Spare Plastic, Chromium Plated knobs for all Push-Pull switches, Specify Fig. 104.
Above Switches are not Ignition Protected. See Page CD-13 for details.

BUY STANDARD PACKAGES

3-POSITION PUSH-PULL SWITCH—Fig. 381

All Brass — 3 Terminal — 3/4 Inch Chromium Plated Knob
3 Position Switch — OFF-ON-ON — 25 Amps. at 12 Volts

First "on" position energizes one circuit. Second "on" position energizes all circuits.

| Chromium Plated Each | Diam. Neck Inches | For Wood Thickness Inches | Length Overall Inches | Weight Ounces |
|----------------------|-------------------|---------------------------|-----------------------|---------------|
| | 3/8 | 1 | 3-3/4 | 3 |

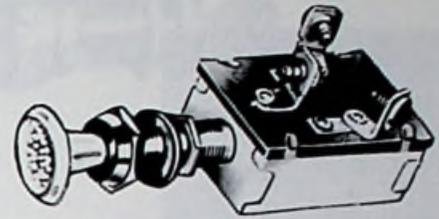


Fig. 381

Standard package 10 pieces.



SKIN PACK—Fig. 381-SP

One Switch Per Card.
Six Cards Per Box.
Weight Per Box 2 Pounds.

Sold to trade in full box only.



Fig. 381 SP



MOMENTARY STARTER SWITCH OR DASHBOARD HORN BUTTON—Fig. 255

All Brass — Push Button Type — 2 Point, 2 Terminal Spring Action — Chromium Plated Button — 25 Amp. at 12 Volts.

| Each | Diameter Neck Inches | For Wood Thickness Inches | Weight Ounces |
|------|----------------------|---------------------------|---------------|
| | 5/8 | 1 | 2-1/2 |

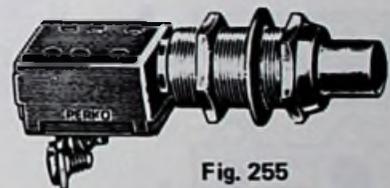


Fig. 255

Standard Package, 10 Pieces



SKIN PACK FIG. 255 SP

One Switch Per Card.
Six Cards Per Box.
Weight Per Box 3 Pounds.

Sold to trade in full box only.



Fig. 255 SP



WEATHERPROOF

MOMENTARY STARTER SWITCH OR DASHBOARD HORN BUTTON—Fig. 306

All Brass — Push Button Type — 2 Point, 2 Terminal Spring Action — Neoprene Cover Over Button — 25 Amps. at 12 Volts

| Each | Diameter Neck Inches | For Wood Thickness Inches | Weight Ounces |
|------|----------------------|---------------------------|---------------|
| | 5/8 | 1 | 2-1/2 |



Fig. 306

Standard Package, 5 Pieces

Spare covers with Nut. Specify Fig. 306-99A.

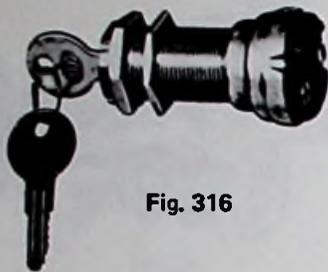


Fig. 316



Fig. 316 SP

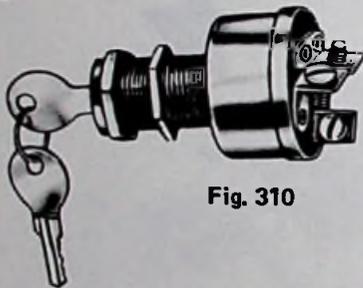


Fig. 310



Fig. 310-SP

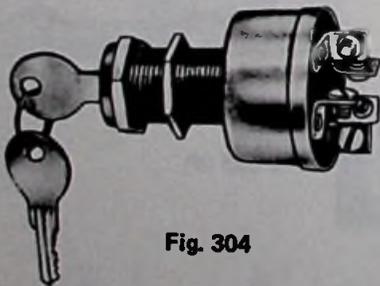


Fig. 304



Fig. 387

IGNITION LOCK SWITCH—Fig. 316

Face Plate Chromium Plated — 2 Terminal — 2 Keys
20 Amps. at 12 Volts — Off-On.

No. 1 Die Cast Zinc Housing
No. 2 All Brass

| No. | Each | Diameter Neck Inches | Length Neck Inches |
|-----|------|----------------------|--------------------|
| 1 | | 3/4 | 5/8 |
| 2 | | 13/16 | 1 |

Standard Package, 10 Pieces



SKIN PACK FIG. 316 SP

SIZE NO. 1

One Switch Per Card.

Six Cards Per Box.

Weight Per Box 2 Pounds.

Sold to trade in full box only.



IGNITION-STARTER SWITCH—Fig. 310

All Brass — Lock Type — 3 Terminal — 2 Keys — 3 Pos
Switch, OFF-IGNITION-START — 20 Amps. at 12 Volts
Returns automatically from start to ignition position.
Face nut is chromium plated, springs are stainless steel

| Each | Diameter Neck Inches | Length Neck Inches | Weight Ounces |
|------|----------------------|--------------------|---------------|
| | 13/16 | 1-1/16 | 4-1/2 |

Standard Package, 10 Pieces



SKIN PACK—Fig. 310-SP

One Switch Per Card.

Six Cards Per Box.

Weight Per Box 3 Pounds.

Sold to trade in full box only.



MAGNETO IGNITION STARTER SWITCH—Fig. 304
All Brass — 5 Terminals — 2 Keys — 20 Amps. at 12 Volts
3 Positions, OFF-RUNNING-START

Face Nut Chromium Plated, Stainless Steel Springs

| Each | Diameter Neck Inches | Length Neck Inches | Weight Ounces |
|------|----------------------|--------------------|---------------|
| | 13/16 | 1-1/4 | 8 |

Standard package, 5 Pieces.



MOISTURE PROOF

BOOT AND NUT ASSEMBLY—Fig. 387

For Lock Type Switches

Key enters thru elastic slot in rubber boot.

The nut fits Figs. 304, 310 and 316 No. 2

Each

SWITCH PANELS

COMPLETE WITH SWITCHES, FUSE HOLDERS AND NAME PLATES
SWITCHES RATED 15 AMP AT 12 VOLTS
FUSE HOLDERS FOR 1 1/4" LONG GLASS FUSES.

G. 517

Black Textured Finish-Embossed Lettering.
 This Panel Is Molded From A Durable Plastic That Is
 Flexible To Mount On Curved and Flat Surfaces.
 Illustration Shows Stock Panel.

| Part No. | Size Inches | Standard Package | Weight Ounces |
|----------|---------------|------------------|---------------|
| G. 517 | 6-1/2 x 4-1/4 | 5 | 8 |

Note, If Name Plates Other Than Shown Are Desired Specify Fig. 519, Fig. 517A And Name Required. See Fig. 519.

THIS ITEM AVAILABLE IN DISPLAY PACK. SEE SECTION L.



Fig. 517

G. 512

Modular Switch Panels — Chromium Plated —
 Turquoise Self Adhesive Name Plates.
 Aluminum Matte Background.
 Assembled 5 Position Panel
 This is a Stock Panel. Section "B" may be added or
 names changed.

| Part No. | Dimensions Inches | Weight Pounds |
|----------|-------------------|---------------|
| G. 512 | 6-1/4 x 3-3/4 | 1 |

NOTE — This Panel assembled with one Section "A", Four Section "B", One Section "C".

Add to or remove sections as desired, size of panel and
 quantity of switches regulated only by the space available.
 For additional selection of name plates, see Fig. 490.



Fig. 512

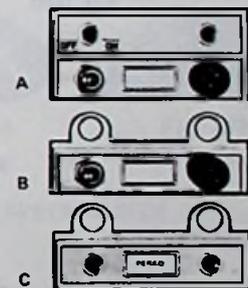


Fig. 511

MODULAR SECTIONS — Fig. 511

| Part No. | Dimensions Inches | Weight Ounces |
|-------------|-------------------|---------------|
| SECTION "A" | 1-3/4 x 3-3/4 | 3-1/2 |
| SECTION "B" | *7/8 x 3-3/4 | 2-1/2 |
| SECTION "C" | *1 x 3-3/4 | 2-1/4 |

*Does not include Assembly Eyes. Standard Package - 5 Pieces.

SWITCH NAME PLATES — Fig. 519

Black With Engraved White Lettering

| | | | | | | |
|---------------|----|----------------|----|----------------|----|--------------|
| Anchor Light | 12 | Engine Room | 24 | Misc. | 39 | Starter |
| Anchor Winch | 13 | Fan | 25 | Neutral | 40 | Stern Light |
| Bilge Pump | 14 | Flood Lights | 26 | Off | 41 | Throttle |
| Blower | 15 | Forward | 27 | On | 43 | Water System |
| Bow Light | 16 | Fuel | 28 | Outdrive Tilt | 44 | Wiper |
| Cabin Lights | 17 | Fuel Pump | 29 | Panel Lights | 45 | 12 Volt |
| Choke | 18 | Heater | 32 | Radio | 46 | 32 Volt |
| Compass | 19 | Horn | 34 | Reverse | 47 | 110V AC |
| Deck Lights | 20 | Ignition | 35 | Running Lights | | |
| Docking Light | 21 | Lights | 36 | Searchlight | | |
| Dome Light | 23 | Masthead Light | 37 | Spreader Light | | |



Fig. 519

| Part No. | Length Inches | Width Inches | Screw Size No. | Standard Package | Weight Per Dozen Ounces |
|----------|---------------|--------------|----------------|------------------|-------------------------|
| G. 519 | 1-1/2 | 1/2 | 4 | 5 | 1/2 |

Minimum Quantity, Stock Names, 5 Pieces. Special name plates, Minimum quantity 20 pieces each name.

Specify Switches, Specify Fig. 514.

Specify Fuse Holders, Specify Fig. 516.

Specify Cap Only for Fuse Holders, Specify Fig. 522.

These Panels are not Ignition Protected. See Page CD-13



Fig. 490



Fig. 786



Fig. 786-SP

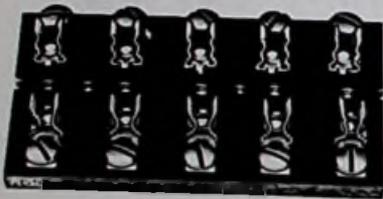


Fig. 626

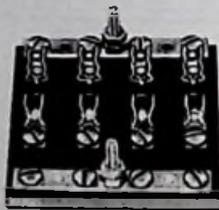


Fig. 647

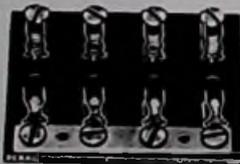


Fig. 629



Fig. 694



Fig. 627

ALUMINUM NAME PLATES — Fig. 490

Turquoise — Aluminum Matte Background — Self Adhesive
NAME SELECTION AVAILABLE (NO SPECIALS)

| No. | No. | No. |
|----------------|------------------|-------------------|
| 1 Anchor Light | 6 Dome Light | 11 Radio |
| 2 Bilge Pump | 7 Fuel | 12 Running Light |
| 3 Blower | 8 Horn | 13 Spreader Light |
| 4 Cabin Lights | 9 Masthead Light | 14 Starter |
| 5 Compass | 10 Misc. | 15 Wiper |

| Each | Dimensions Inches | Standard Package |
|------|----------------------|---------------------|
| | 15/16 x 3/8 | 5 |

FUSED LINE CONNECTOR — Fig. 786

Molded Bakelite — With 20 AMP Fuse and Wire Leads
For Standard Glass Fuses 1-1/4" Inches Long.

| Each | Length Inches | Diameter Inches | Weight Ounces |
|------|------------------|--------------------|------------------|
| | 2-1/8 | 5/8 | 3/4 |

Standard Package, 10 Pieces

SKIN PACK — FIG. 786-SP

One Connector Per Card. Weight Per Box, 3/4 Pounds
Ten Cards Per Box. Sold to Trade in Full Box Only

FUSE PANELS—Fig. 626

Molded Plastic Base — Brass Parts — For 1-1/4" Long Glass Fuses up to 20 Amps.

| Number of Gangs | Each | Dimensions Inches | Weight Ounces |
|--------------------|------|----------------------|------------------|
| 3 | | 2-1/4x2-7/16x3/16 | 2- |
| 4 | | 3x2-7/16x3/16 | 2- |
| 5 | | 3-3/4x2-7/16x3/16 | 2- |
| 6 | | 4-1/2x2-7/16x3/16 | 2- |

Standard package 5 pieces

COMBINATION FUSE

AND TERMINAL BLOCK—Fig. 647

With Heavy Duty Binding Posts — Molded Plastic Base
Brass Parts — For 1-1/4" Long Glass Fuses up to 20 Amps.

| Number Of Gangs | Each | Dimensions Inches | Weight Ounces | Standard Package |
|--------------------|------|----------------------|------------------|---------------------|
| 4 | | 3-x3-5/16x3/16 | 3-1/2 | |
| 6 | | 4-1/2x3-5/16x3/16 | 5 | |
| 8 | | 6x3-5/16x3/16 | 7 | |
| 12 | | 9x3-5/16x3/16 | 11 | |

FUSE PANELS—Fig. 629

With Single Bus Bar — Molded Plastic Base — Brass Parts
for 1-1/4" Long Glass Fuses up to 20 Amps.

| Number Of Gangs | Each | Dimensions Inches | Weight Ounces | Standard Package |
|--------------------|------|----------------------|------------------|---------------------|
| 4 | | 3x2-7/16x3/16 | 2 | |
| 6 | | 4-1/2x2-7/16x3/16 | 3 | |
| 8 | | 6x2-7/16x3/16 | 3 | |
| 12 | | 9x2-7/16x3/16 | 6-1/2 | |

FUSE PANEL—Fig. 694

Molded Plastic — Brass Metal Parts — For 1-1/4" Long
Fuses up to 30 Amps.

For two active fuses and one spare.

| Each | Dimensions Inches | Length Fuse Inches | Weight Ounces |
|------|----------------------|--------------------------|------------------|
| | 2-7/16x1-1/2x3/16 | 1-1/4 | 1-1/2 |

Standard package 5 pieces.

TERMINAL BLOCKS—Fig. 627

Molded Plastic Base — Brass Parts
Rated 30 Amps at 12 Volts.

| Number Of Gangs | Each | Dimensions Inches | Standard Package | Weight Ounces |
|--------------------|------|----------------------|---------------------|------------------|
| 2 | | 1-1/2x1-1/2x3/16 | 5 | 1- |
| 4 | | 3x1-1/2x3/16 | 5 | 2- |
| 6 | | 4-1/2x1-1/2x3/16 | 5 | 2- |

PLASTIC CABLE STRAPS—Fig. 196

Made of pliable butyrate in clear color and ultra-violet stabilized for weather resistance, this new strap eliminates the need for insulating cushion and provides excellent cable support at low cost. Single screw saves labor and fastenings. Width for all cable sizes 1/2" I.D. of fastening hole 3/16".

| No. | Cable Diameter Inches | Per 100 | No. | Cable Diameter Inches | Per 100 |
|-----|-----------------------|---------|-----|-----------------------|---------|
| 1 | 3/16 | | 5 | 1/2 | |
| 2 | 1/4 | | 6 | 5/8 | |
| 3 | 5/16 | | 7 | 3/4 | |
| 4 | 3/8 | | | | |

Standard package 100 pieces per size Minimum Quantity.
Conforms To U.S.C.G. Electrical Standards. See Page CD-13.



Fig. 196

BRASS CABLE STRAPS—Fig. 121

For Cable, Tubing, Control Wire, Etc.

| No. | Inside Diam. Inches | Per 100 | Length Inches | Width Inches | No. | Inside Diam. Inches | Per 100 | Length Inches | Width Inches |
|-----|---------------------|---------|---------------|--------------|-----|---------------------|---------|---------------|--------------|
| 1 | 1/8 | | 1-7/16 | 1/2 | 6 | 7/16 | | 1-5/8 | 1/2 |
| 2 | 3/16 | | 1-3/8 | 1/2 | 7 | 1/2 | | 1-1/2 | 1/2 |
| 3 | 1/4 | | 1-5/16 | 1/2 | 8 | 5/8 | | 1-3/4 | 1/2 |
| 4 | 5/16 | | 1-3/16 | 1/2 | 9 | 3/4 | | 1-7/8 | 1/2 |
| 5 | 3/8 | | 1-5/8 | 1/2 | | | | | |

Standard package 100 pieces per size Minimum Quantity.
Conforms To U.S.C.G. Fuel Standards.



Fig. 121

LINE SUPPORT CLIPS—Figs. 163, 164 & 165

Aluminum — Synthetic Rubber Cushion

| No. | For O.D. Line Inches | FIG. 163 Per 100 | FIG. 164 Per 100 | FIG. 165 Per 100 | Width Inches |
|-----|----------------------|------------------|------------------|------------------|--------------|
| 1 | 3/16 | | | *N.A. | 3/8 |
| 2 | 1/4 | | | *N.A. | 3/8 |
| 3 | 5/16 | | | | 1/2 |
| 4 | 3/8 | | | | 1/2 |
| 5 | 1/2 | | | | 1/2 |
| 6 | 5/8 | | *N.A. | *N.A. | 1/2 |

*NOT AVAILABLE

Standard package 100 pieces per size Minimum Quantity.
Conforms to U.S.C.G. Electrical and Fuel Standards. See Page CD-13.



Fig. 163
Single



Fig. 164
Double



Fig. 165
Triple

BE SURE TO SPECIFY SIZE

BAYONET SOCKETS—Fig. 472

Phenolic — Single and Double Contact

| No. | Each | Type | Height Inches | Diam. Base Inches | Weight Dozen Ounces |
|-----|------|----------------|---------------|-------------------|---------------------|
| 20 | | Double contact | 1 | 1-3/8 | 9 |
| 21 | | Single contact | 1 | 1-3/8 | 9 |

Standard package 10 pieces.



Fig. 472

ELECTRIC SOCKET ADAPTERS—Fig. 405

For Converting Various Types of Sockets

No. Each

- 1—From Bayonet Dble. Contact to Med. Screw
- 2—From Med. Screw to Bayonet Dble. Contact
- 3—From Mogul to Medium Screw

Illustration is type No. 2.

Standard package 5 pieces.



Fig. 405

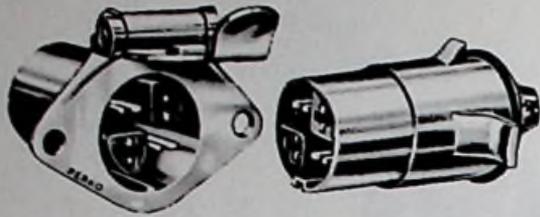


Fig. 739

4-WAY CONNECTOR FOR TRAILER LIGHTS—Fig. 739

CHROMIUM PLATED
 Snap Cover on Receptacle, Locks Plug in and
 Keeps Moisture Out.
 Fixed Polarity — Screw Terminals.

| Each | Length Overall Inches | Width Flange Inches | Weight Ounces |
|------|-----------------------------|---------------------------|------------------|
| | 3-3/4 | 2-1/8 | 4-1/2 |



4-PRONG CONNECTOR FOR TRAILER LIGHTS - Fig. 751

Plastic Body — Soft Plastic Caps — Screw Terminals
 Fixed Polarity — All Brass



Fig. 751

| Each | Size Inches | Weight Ounces |
|------|----------------|------------------|
| | 1 x 2 3/4 | 1 |

Standard package 10 pieces.



Fig. 720-2

MOLDED LINE CONNECTORS—Fig. 720

Waterproof Bodies — Color Coded Wires
 Rated 15 Amps at 12 Volts

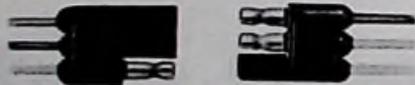


Fig. 720-3

Polarized for proper mating of circuits. Conductors precisely aligned and molded in S.A.E. Type P.V.C. insulation 1 minimum voltage drop and ease in making and breaking connections.

12 inch long wires on male and female sides.

| Poles | Each | Width Inches | Weight Ounces |
|-------|------|-----------------|------------------|
| 2 | | 5/8 | 1/2 |
| 3 | | 7/8 | 1 |
| 4 | | 1-1/8 | 1-1/2 |

Standard package 5 pieces.

Conforms to U.S.C.G. Electrical Standards. See Page CD-13.



**SKIN PACK, FIG. 720 SP,
 2, 3 or 4 Poles.**

One Connector Per Card.
 Five Cards Per Box.
 Weight Per Box, Average 9 Ounces.
 Sold to trade in full box only.



Fig. 720 SP



DASHBOARD LAMP — Fig. 184

Brass — Chromium Plated — Double Contact Socket With
 Switch — For 6 C.P. Bulb

Bulb is not included.



Fig. 184

| Each | Length Overall Inches | Size Base Inches | Weight Ounces |
|------|-----------------------------|------------------------|------------------|
| | 2-1/2 | 1-11/16 x 1-3/16 | 1-3/4 |

Standard Package, 10 Pieces.

Not Ignition Protected. See Page CD-13.

ALL ABOVE CONNECTORS ON THIS PAGE SUPPLIED COMPLETE ONLY, NO PARTS.

WATERTIGHT DECK CONNECTIONS—Fig. 1189

Brass with Black Plastic Covers — Double Contact —
Chromium Plated — Rated 15 Amps at 12 Volts

The covers snap on or off for quick connection of portable equipment. The connector is brass, well insulated.

| Each | Diameter Inches | Height Inches | Weight Ounces |
|------|-----------------|---------------|---------------|
| | 1-5/8 | 1-3/16 | 2 |

Standard Package, 10 Pieces

Spare Parts, See Fig. 1190

Not Ignition Protected. See Page CD-13.



Fig. 1189



Fig. 1190

WATERTIGHT DECK CONNECTION—Fig. 1190

Die Cast Zinc Alloy with Plastic Covers — Double Contact —
Chromium Plated — Rated 15 Amps at 12 Volts

Same as above Fig. 1189 in every detail except metal flange is Die Cast Zinc Alloy.

Each

Standard Package, 10 Pieces

Spare Connectors for Figs. 1189 and 1190, Specify Fig. 42

Spare Covers for male plugs, Specify Fig. 1145

Spare Covers for female socket, Specify Fig. 1147

Standard Package, Spares, 5 Pieces

Not Ignition Protected. See Page CD-13.



Fig. 1190-SP

SKIN PACK — FIG. 1190-SP

One Connection Per Card.

Five Cards Per Box.

Weight Per Box, 14 Ounces.

Sold to Trade in Full Box Only

WATERTIGHT CABLE OUTLETS—Figs. 424 & 1191

All Brass or Die Cast Zinc Alloy — Chromium Plated

Has rubber grommet for watertight passage of cable through deck or bulkhead, also prevents chafing of cable insulation.

| Fig. 424 Each | Fig. 1191 Each | Diameter Base Inches | For Cable Inches | Weight Ounces |
|---------------|----------------|----------------------|------------------|---------------|
| | | 1-1/4 | 5/16 | 1 |

Standard Package, 10 Pieces

Spare Rubber Grommets, Specify Fig. 1149



Fig. 424 — All Brass
Fig. 1191 — Die Cast

SKIN PACK—Fig. 1191-SP

One Outlet Per Card.

Five Cards Per Box.

Weight Per Box 10 Ounces.

Sold To Trade in Full Box Only.



Fig. 1191-SP

HORN PUSH BUTTON — Fig. 275

Brass — Chromium Plated — Bakelite Button and Interior
10 Amps. at 12 Volts

| Chromium Plated Each | Length Overall Inches | C to C Holes Inches | Diam. Inches | Weight Ounces |
|----------------------|-----------------------|---------------------|--------------|---------------|
| | 2-5/8 | 2-1/8 | 1-1/2 | 1 |

Standard Package, 10 Pieces

Not Ignition Protected. See Page CD-13.



Fig. 275

ELECTRIC LIGHTING LAMPS

BAYONET D.C. BASE – FIG. 337



Fig. 337

| Item No. | Mfr. Lamp No. | Volts | C.P. | Bulb Diam. Inches | Clear Each |
|----------|---------------|-------|------|-------------------|------------|
| 4 | 82 | 6 | 6 | 3/4 | |
| 11 | 90 | 12 | 6 | 3/4 | |
| 12 | 1004 | 12 | 15 | 3/4 | |
| 13 | 1142 | 12 | 21 | 1 | |
| 14 | 1144 | 12 | 32 | 1 3/8 | |
| 18 | 624 | 32 | 9 | 3/4 | |
| 19 | 1228 | 32 | 15 | 1 | |
| 20 | 1692 | 32 | 21 | 1 | |
| 21 | 1054 | 32 | 32 | 1 3/8 | |
| 23 | 15T7 | 120 | 15W | 7/8 | |

Standard Package, No. 4 to 21 Inc. 10 Pieces
No. 23, 6 Pieces



MINIATURE BAYONET BASE – FIG. 56



Fig. 56

| Item No. | Mfr. Lamp No. | Volts | C.P. | Bulb Diam. Inches | Clear Each |
|----------|---------------|-------|------|-------------------|------------|
| 4 | 1416 | 12 | 8 | 13/32 | |
| 5 | 1815 | 14 | 1.4 | 7/16 | |
| 6 | 1495 | 32 | 9 | 9/16 | |

Standard Package, 10 Pieces
No. 4 Available in Skin Pack, See Skin Pack Section.



DOUBLE ENDED BASE – FIG. 70



Fig. 70

| Item No. | Mfr. Lamp No. | Volts | C.P. | Bulb Diam. Inches | Clear Each |
|----------|---------------|-------|------|-------------------|------------|
| 0 | 212-2 | 12 | 6 | 9/16 | |
| 1 | 211-2 | 12 | 12 | 9/16 | |
| 2 | 10126 | 32 | 12 | 9/16 | |

Standard Package, 10 Pieces
No. 1 Available in Skin Pack, See Skin Pack Section.

DOUBLE ENDED BASE – FIG. 71



Fig. 71

12 8 3/8

Standard Package, 10 Pieces.
Fig. 71 Available in Skin Pack, See Skin Pack Section.

NOTE: Perko Double Ended Lamps have Nickel Plated Brass Caps and will not rust in a marine environment.



MEDIUM SCREW BASE – FIG. 340



Fig. 340

| Item No. | Mfr. Lamp No. | Volts | Watts | Type | L.C.L. Inches | Clear Each | Frost Each |
|----------|---------------|-------|-------|------|---------------|------------|------------|
| 5 | 15-A | 12 | 15 | A-17 | 2-3/8 | * N.A. | |
| 6 | 25-A | 12 | 25 | A-19 | 2-9/16 | N.A. | |
| 7 | 50-A21 | 12 | 50 | A-21 | 3-7/16 | N.A. | |
| 11 | 15-A | 32 | 15 | A-17 | 2-3/8 | N.A. | |
| 12 | 25-A | 32 | 25 | A-19 | 2-9/16 | N.A. | |
| 13 | 50-A21 | 32 | 50 | A-21 | 3-7/16 | N.A. | |
| 17 | 60A/CL | 120 | 60 | A-19 | 3-1/8 | | * N.A. |
| 19 | 100A/CL | 120 | 100 | A-19 | 3-1/8 | | N.A. |

Standard Package—No. 5 to 11 Inc. 6 Pieces
Nos. 12 to 19 Inc. 2 Pieces

* Not Available

NOTES

High Power Lamps For Searchlights And Sealed Beam Units, See Section E.

ELECTRIC LAMPS ARE NOT RETURNABLE. ORDER CAREFULLY.

JSH TYPE SWITCH FIG. 703
 on Magnetic — With 6 Inch Wire Leads
 Rated 6 Amps at 12 Volts

| Each | Length Neck Inches | Diameter Neck Inches | Between Lock Nuts Inches | Weight Ounces |
|------|--------------------------|----------------------------|--------------------------------|------------------|
| | 3/8 | 3/8 | 1/8 | 1/2 |

Standard package 10 pieces.

★
KIN PACK FIG. 703 SP
 One Switch Per Card.
 Six Cards Per Box.
 Weight Per Box 9 Ounces
 Sold to trade in full box only.

★
ROGGLE SWITCHES—Fig. 688 AND 745
 Fig. 688 — Brass — Screw Posts — No Leads
 Rated 15 Amps at 12 Volts
 Fig. 745 — Brass with Bakelite Insulation
 With 6 Inch Wire Leads
 Rated 20 Amps at 12 Volts

| | Nickel Plated Each | Length Neck Inches | Diam. Neck Inches | Max. Thickness of Panel Inches | Weight Ounces |
|-----------|--------------------------|--------------------------|-------------------------|--------------------------------------|------------------|
| Fig. 688— | | 3/8 | 7/16 | 3/16 | 1 |
| Fig. 745— | | 7/16 | 7/16 | 5/16 | 3/4 |

Standard package 10 pieces.



Fig. 703

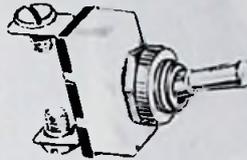


Fig. 688



Fig. 703 SP

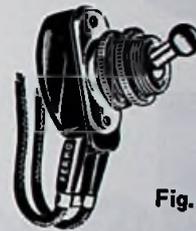


Fig. 745

Figs. 703—688—745 Switches are not Ignition Protected. See below.

U.S.C.G. ELECTRICAL STANDARDS

JANUARY 31, 1977 THE U.S.C.G. PUBLISHED SAFETY STANDARDS FOR MARINE ELECTRICAL SYSTEMS. THESE STANDARDS COVER SUCH TECHNICAL DETAILS AS:

CONDUCTOR SIZE AND AMPACITY

STRAIN RELIEF AND PULL TESTS

TERMINATION REQUIREMENTS

OVERCURRENT PROTECTION

IGNITION PROTECTION

BATTERIES AND ASSOCIATED CONDUCTORS

GROUNDING

INSULATION

A particular electrical component may be affected by some or all of the above categories. Those categories related to product design have been compiled with, however, many additional details must be considered by the installer of the equipment as well in order to achieve compliance with this standard. It is suggested that the actual standard be familiarized when installing equipment. Perhaps one of the most critical requirements is ignition protection. A product that is marked "Ignition Protected" can be used in that area of a boat that is not isolated from a gasoline fuel vapor source. Refer to the actual standard for a determination of what parts of a boat require Ignition Protected products. If a product is not plainly marked "Ignition Protected" then assume it is not.

FOR DETAILS ON ALL OF THE ABOVE, OBTAIN THE FOLLOWING:

U.S.C.G. SAFETY STANDARDS FOR ELECTRICAL SYSTEMS

CFR TITLE 33, CHAPTER 1, SUBCHAPTER S, PART 183, SUBPART 1, (33CFR183).

LIGHTING FIXTURES LOW VOLTAGE – 6 TO 32 INC.



Fig. 217



Fig. 1295



Fig. 217-SP



Fig. 450

BULKHEAD FIXTURES – Figs. 217 & 1295

Die Cast Zinc Alloy – Chromium Plated

Medium Screw Socket – Turn Switch

Fig. 1295 Has Power Take-Off Receptacle.

| Fig. | Chromium Plated Each | Size Base Inches | Projection Less Lamp Inches | Weight Ounces |
|------|----------------------|------------------|-----------------------------|---------------|
| 217 | | 2-1/2x1-3/4 | 2-5/8 | 10 |
| 1295 | | 2-1/2x1-3/4 | 2-5/8 | 10 |

Lamp Not Included.

Spare Sockets with Knob, Specify Fig. 223

Spare Power Take-Off Receptacle, Specify Fig. 225.



SKIN PACK – Fig. 217-SP

One Fixture Per Card

Six Cards Per Box

Weight Per Box, 3 1/2 Pounds

Sold To Trade In Full Box Only.



BULKHEAD FIXTURE – Fig. 450

Cast Bronze

Medium Screw Socket – Turn Switch

| Polished Bronze Each | Chromium Plated Each | Size Base Inches | Projection Less Lamp Inches |
|----------------------|----------------------|------------------|-----------------------------|
| | | 2-1/2x2-1/4 | 2-1/2 |

Spare Socket with Knob, Specify Fig. 223.



MARINE SHIELDS FOR FIXTURES – Figs. 27, 28 & 29

Translucent Plastic – Washable – Hand Laced to Plated Frame – Painted or Plain

Colorful painted marine design makes these shields decorative and appropriate for a yacht stateroom, cabin or marine room. Metal clip is for bulb up to 60 watts.

| Figs. 27-28 | Fig. 29* | Width Inches | Height Inches | Weight Ounces |
|--------------|------------|--------------|---------------|---------------|
| Painted Each | Plain Each | 4-1/2 | 4-5/8 | 1 |

Standard Package, 10 Pieces

*Fig. 29 Plain fits Hanging or Upright Bulbs.



SHIELD DESIGNS – Figs. 33, 34, & 36

Same quality and construction as Figs. 27 and 28. Attractive two color marine designs suitable for hanging upright bulb.

| Painted Each | Width Inches | Height Inches | Weight Ounces |
|--------------|--------------|---------------|---------------|
| | 4-1/2 | 4-5/8 | 1 |

Standard Package, 10 Pieces



SKIN PACK – Figs. 33, 34 or 36-SP

One Shield Per Card

Six Cards Per Box

Weight Per Box, 2 Pounds

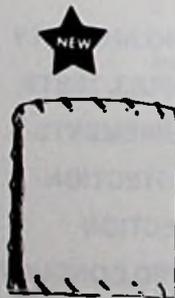
Sold To Trade In Full Box Only.



For Hanging Bulb
Fig. 27



For Upright Bulb
Fig. 28



For Hanging or Upright Bulb
Fig. 29



Fig. 33



Fig. 34



Fig. 36

LIGHTING FIXTURES

FOR CABIN, STATEROOM OR BERTH – ADJUSTABLE ANGLE SHADE
 LOW VOLTAGE 6 TO 32 INC.
 MOLDED PLASTIC – PUSH TYPE SWITCH

| No. | Dimensions Wall Plate Inches | Normal Projection Inches | Length Shade Inches | Weight Ounces |
|-----|------------------------------------|--------------------------------|---------------------------|------------------|
| 1 | 4-1/2 x 3-1/4 | 4-3/8 | 3 | 3 |
| 2 | 4-1/2 x 3-1/4 | 5 | 4-1/2 | 5 |
| 3 | 4-1/2 x 3-1/4 | 5 | 4-1/2 | 5 |



Fig. 1303 BK – Black
 Fig. 1303 WH – White

Size No. 1 has Bayonet Double Contact Socket.
 Will accommodate bulbs up to 32 C.P.

Size No. 2 has Medium Screw Socket.
 Will accommodate bulbs up to 40 watts.

Size No. 3 designed for Dual Voltage
 One Bayonet Socket – One Medium Screw Socket



Fig. 1303 Single Fixture has one shade same color as
 wall plate.

Each
 Specify Size and Color



Fig. 1304 BK – Black
 Fig. 1304 WH – White

Fig. 1304 Double Fixture has two shades and two
 switches. Shades same color as wall plate.

Each
 Specify Size and Color

Fig. 1350 Single Fixture has white translucent shade
 and white wall plate.

Each
 Specify Size



Fig. 1350

Spare Switches For Above, See Fig. 703.

Spare D.C. Sockets For No.1, Specify Fig. 276 No. 0

Spare Medium Screw Sockets For No.2, Specify Fig. 1323



BULKHEAD OR CEILING FIXTURE – Fig. 1212

Die Cast Zinc Alloy – Chromium Plated – White Plastic Globe
 Two D.C. Bayonet Sockets – Turn Switch

This fixture designed for arrangement in Modular Form.

| Each | Length Inches | Width Inches | Depth Inches | Weight Ounces |
|------|------------------|-----------------|-----------------|------------------|
| | 5-1/2 | 4-1/2 | 1-1/2 | 12 |

Spare Sockets, See Fig. 24 No. 1

Spare Switches, Specify Fig. 1212-99A

Spare White Plastic Globe, Specify Fig. 1212-99B

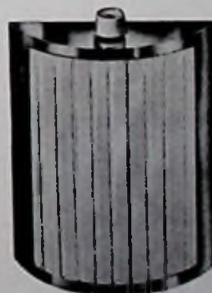


Fig. 1212



Fig. 308

FLUSH TYPE DOME LIGHT—Fig. 308
 Die Cast Zinc Alloy — Chromium Plated
 Double Contact Socket — Push Switch

| No. | Chromium Plated Each | Diameter Globe Inches | Diameter Overall Inches | Depth Above Flange Inches | Depth Below Flange Inches | Weight Ounces |
|-----|----------------------|-----------------------|-------------------------|---------------------------|---------------------------|---------------|
| 0 | | 3 | 3-3/4 | 5/8 | 3/4 | 5 |
| 1 | | 4 | 4-1/2 | 3/4 | 1-1/4 | 7 |
| 2 | | 5 | 5-1/2 | 3/4 | 1-1/2 | 9 |

Spare Globes, Specify Fig. 308-99A and Size

Spare Switches, See Fig. 703

Spare Sockets, See Fig. 24 No. 1



Fig. 300

DOME LIGHT— Fig. 300
 Die Cast Zinc Alloy — Chromium Plated
 Double Contact Socket — Push Switch

| No. | Chromium Plated Each | Diameter Globe Inches | Diameter Overall Inches | Depth Overall Inches | Weight Ounces |
|-----|----------------------|-----------------------|-------------------------|----------------------|---------------|
| 0 | | 3 | 3-3/4 | 1-1/2 | 7 |
| 1 | | 4 | 5-3/8 | 1-7/8 | 9 |
| 2 | | 5 | 6-1/2 | 2 | 11 |

Spare Globes, Specify Fig. 257 and Size

Spare Switches, See Fig. 703

Spare Sockets, See Fig. 24, No. 1



Fig. 300-SP



SKIN PACK — Fig. 300-SP
 Size No. 1 Only

One Light Per Card

Three Cards Per Box

Weight Per Box, 2½ pounds

Sold To Trade In Full Box Only



Fig. 555

DOME LIGHT — Fig. 555

Cast Bronze — Chromium Plated — Toggle Switch —
 Medium Screw Socket.

Will accommodate a 15-watt bulb. Fig. 340.

| Each | Diam. Globe Inches | Diam. Base Inches | Depth Inches | Weight Pounds |
|------|--------------------|-------------------|--------------|---------------|
| | 6 | 7-7/8 | 3-1/8 | 3-3/4 |

Spare Globe, Specify Fig. 257, 6 Inch

Spare Socket, Specify Fig. 346, No. 1

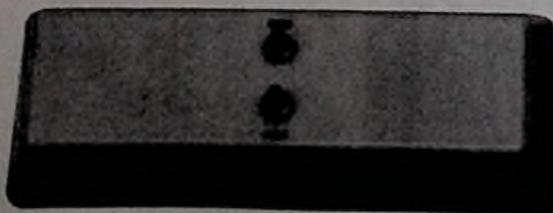


Fig. 318-A

DUAL VOLTAGE DOME LIGHT — Fig. 318-A

White Translucent Plastic Globe.

Heavy Cast Base — Integral Junction Box

Now supplied for ship and shore current. Complete with 2, 12 volt and 2, 110 volt bulbs.

| Each | Length Inches | Width Inches | Depth Inches | Weight Pounds |
|------|---------------|--------------|--------------|---------------|
| | 9-¾ | 3-½ | 1-7/8 | 1-5/8 |

Spare Switches, Specify Fig. 318-A-99C

Spare Globes, Specify Fig. 318-A-99D

Spare Sockets, See Fig. 24 No. 1

Spare Bulbs, See Fig. 337 Nos. 12 and 23

DOME LIGHT – Fig. 753

Low Voltage – 6 to 32 Inc.

Wrought Brass – Toggle Switch

Nickel Plated Reflector – Medium Screw Socket

Will accommodate bulbs up to 50 watts.

No. 1 has one socket and switch.

No. 2 has two sockets and switches.

| No. | Chromium Plated Each | Diameter Base Inches | Diameter Glass Inches | Depth Overall Inches | Weight Pounds |
|-----|----------------------|----------------------|-----------------------|----------------------|---------------|
| 1 | | 9-1/2 | 8 | 3 | 2 |
| 2 | | 9-1/2 | 8 | 3 | 2-1/4 |

Spare Toggle Switch, Specify, Fig. 745

Spare Frosted Glass, Specify Fig. 132

Spare Socket, Specify Fig. 1323

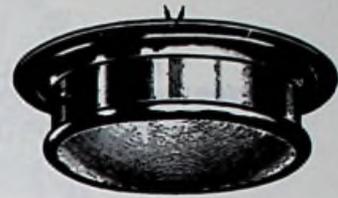


Fig. 753

WATERTIGHT DOME LIGHT – Fig. 1266

Cast Bronze – Double Contact Socket – Diffusing Globe

For small boats. Will accommodate up to a 21 C.P. bulb. With stainless steel reflector, toggle switch and one packing gland for cable.

| Plain Bronze Each | Chromium Plated Each | Extreme Diam. Inches | Diam. Globe Inches | Extreme Depth Inches | Weight Pounds |
|-------------------|----------------------|----------------------|--------------------|----------------------|---------------|
| | | 3-1/2 | 3-1/4 | 2-3/4 | 1-3/4 |

Spare Toggle Switch, Specify, Fig. 745

Spare Sockets, Specify Fig. 24 No. 1

Spare Globes, Specify Fig. 1266, 99A

With extra packing glands installed, price on application

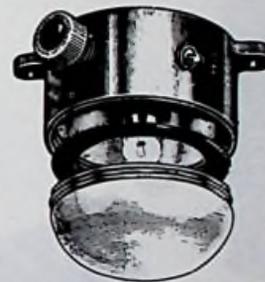


Fig. 1266

ADJUSTABLE UTILITY FIXTURE – Fig. 1254

Zinc Alloy Die Casting – Chromium Plated – Bayonet D.C. Socket – Complete With 12 Volt 6 C.P. Bulb – Shield Swivels To Any Desired Position

A shielded light serving numerous requirements. For berths, instrument panels, chart table, etc.

| Each | Diameter Overall Inches | Length Neck Inches | O.D. Neck Inches | Weight Ounces |
|------|-------------------------|--------------------|------------------|---------------|
| | 2-5/8 | 3/4 | 7/8 | 6 |

Spare Socket, Specify Fig. 24 No. 1



UTILITY LIGHT—Fig. 140

White Nylon – With 12 Volt Lamp

For instruments, charts or general fair illumination.

| Each | Size Inches | Weight Ounces | Standard Package |
|------|-------------|---------------|------------------|
| | 1-3/8 x 5/8 | 1/4 | 10 |

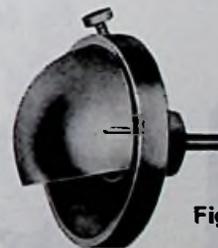


Fig. 1254



Fig. 140

SKIN PACK – Fig. 140-SP

One Light Per Card

Ten Cards Per Box

Weight Per Box, 2 3/4 Ounces

Sold To Trade In Full Box Only



Fig. 140-SP

**NEW
NITESIGHT SERIES
UTILITY LIGHTS**

**RED TRANSLUCENT LENS – FOR USE IN INTERIOR AND COCKPIT
THIS NEW SERIES OF LIGHTS SIGNIFICANTLY DECREASES “NIGHT BLINDNESS”
IDEAL FOR USE WHILE CRUISING, SAILING OR FISHING AT NIGHT**



Fig. 202



FIG. 202

**Die Cast Zinc Alloy – Chromium Plated
Double Contact Socket – Push Switch**

| No. | Chromium Plated Each | Diameter Globe Inches | Diameter Overall Inches | Depth Overall Inches |
|-----|----------------------|-----------------------|-------------------------|----------------------|
| 0 | | 3 | 3-3/4 | 1-1/2 |
| 1 | | 4 | 5-3/8 | 1-7/8 |
| 2 | | 5 | 6-1/2 | 2 |



Fig. 203



FIG. 203

**Die Cast Zinc Alloy – Chromium Plated
Double Contact Socket – Push Switch**

| No. | Chromium Plated Each | Diameter Globe Inches | Diameter Overall Inches | Depth Above Flange Inches | Depth Below Flange Inches |
|-----|----------------------|-----------------------|-------------------------|---------------------------|---------------------------|
| 0 | | 3 | 3-3/4 | 5/8 | 3/4 |
| 1 | | 4 | 4-1/2 | 3/4 | 1-1/4 |
| 2 | | 5 | 5-1/2 | 3/4 | 1-1/2 |

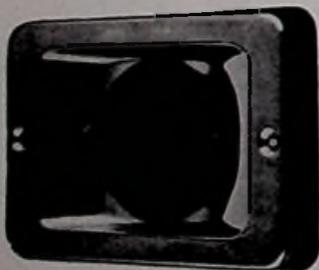


Fig. 204



FIG. 204

**Brass – Polished Chromium Plated
Supplied Complete with 12 Volt Bulb**

| Each | Dimensions Overall Inches | Depth Inches | Weight Ounces |
|------|---------------------------|--------------|---------------|
| | 5-3/16x3-3/8 | 1-1/2 | 6 |

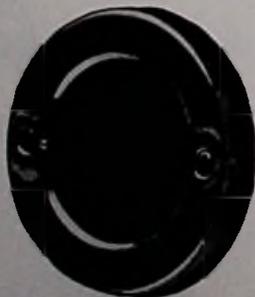


Fig. 205



FIG. 205

**Brass – Polished Chromium Plated
Supplied Complete with 12 Volt Bulb**

Supplied Complete with Black Plastic Base and Stainless Screws for Mounting

| Each | Diameter Inches | Depth Inches | Weight Ounces |
|------|-----------------|--------------|---------------|
| | 3 | 1-3/4 | 4 |

UNIVERSAL WALL OIL LAMP – Fig. 312

Brass

| Polished Brass Each | Height of Back Inches | Diam. of Fount Inches | Weight Pounds |
|---------------------|-----------------------|-----------------------|---------------|
| | 9 | 5 | 1-1/2 |

Spare Burners, Specify Fig. 173

Spare Chimneys, Specify Fig. 94

Spare Wicks, See Fig. 302 No. 2



Fig. 312

UNIOR CABIN OIL LAMP – Fig. 168

Double Swing – Weighted Base – All Brass

Same construction as our well known Newport Cabin Lamp Fig. 141, but reduced in size for use where space or headroom is limited.

| Polished Brass Each | Chromium Plated Each | Overall Height Inches | Extension Inches | Capacity Fount Pints | Weight Ounces |
|---------------------|----------------------|-----------------------|------------------|----------------------|---------------|
| | | 9 | 5 | 1/2 | 19 |

Spare Burners, Specify Fig. 231 and Finish

Spare Chimneys, Specify Fig. 230

Spare Wicks, See Fig. 302 No. 00



Fig. 168

NEWPORT CABIN OIL LAMP – Fig. 141

Double Swing – Weighted Base – All Brass

This lamp is of very sturdy construction, and minimum practical extension from wall. Diameter of wall plate 2-1/2 inches.

| No. | Polished Brass Each | Chromium Plated Each | Overall Height Inches | Extension Inches | Capacity Fount Pints | Weight Pounds |
|-----|---------------------|----------------------|-----------------------|------------------|----------------------|---------------|
| 1 | | | 10-1/2 | 5-1/2 | 1 | 1-3/4 |
| 2 | | | 12-1/2 | 6 | 1-1/4 | 2 |

For No.1
Specify

For No.2
See

Spare Burners 231 242

Spare Chimneys 230 267

Spare Wicks 302 No. 00 302 No.2

Specify Finish



Fig. 141

SMOKE BELL AND ARM – Fig. 128

All Brass

| No. | Polished Brass Each | Chromium Plated Each | Diam. Bell Inches | Extension to Center Inches | Weight Ounces |
|-----|---------------------|----------------------|-------------------|----------------------------|---------------|
| 0 | | | 3-1/2 | 3-1/2 | 3-1/2 |
| 1 | | | 4 | 4 | 4 |



Fig. 128

No. 0 size is for lamp Fig. 168.

No. 1 size is for lamp Fig. 141, sizes 1 and 2.

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2. The information contained herein is classified as [redacted] and is intended for the use of [redacted] personnel only.



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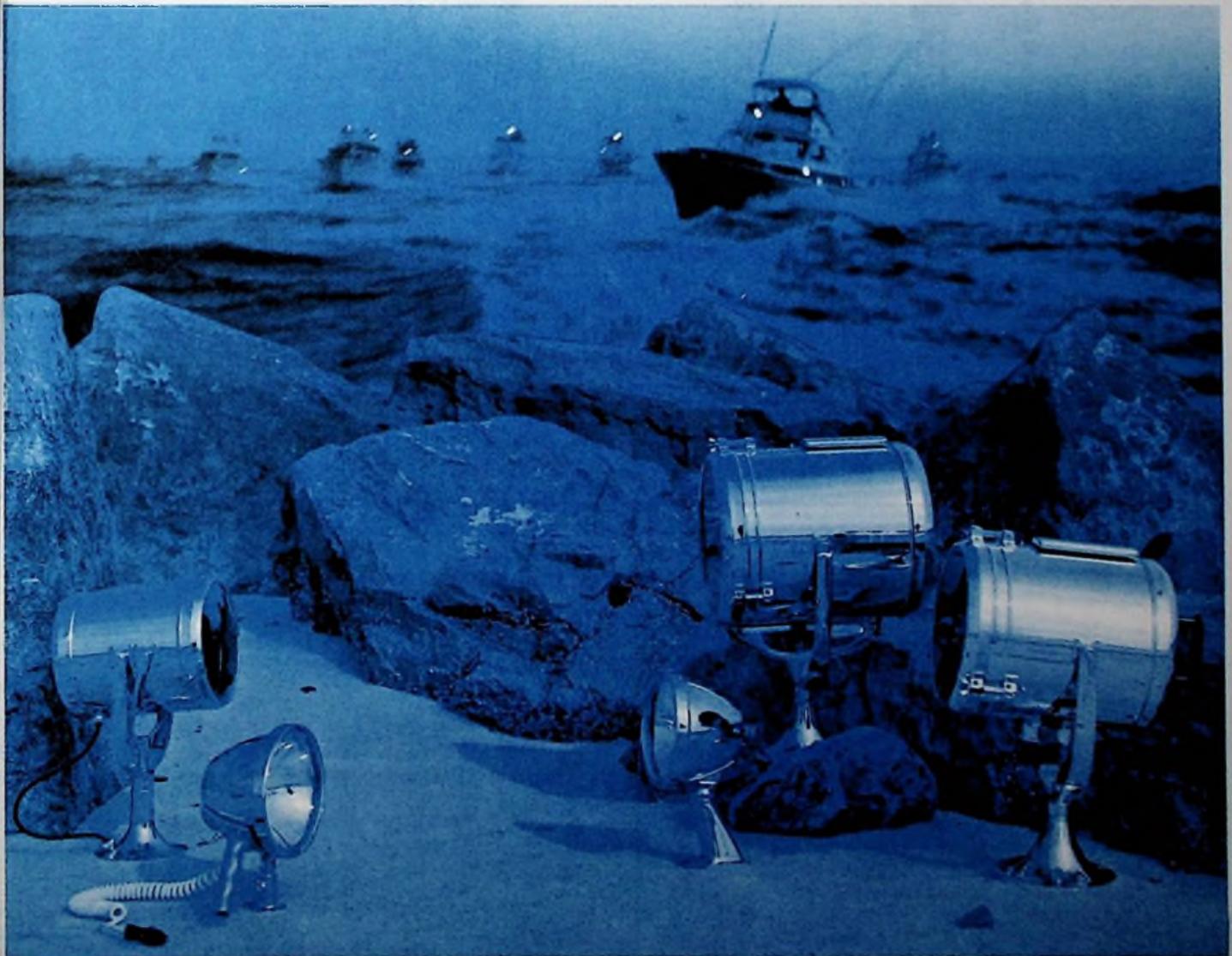
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PERKO®**SEARCHLIGHTS**

MANUFACTURED BY PERKO, INC. 16490 N.W. 13TH AVE., P.O. BOX 64000-D, MIAMI, FLORIDA 33164

FOR COMPLETE LINE SEE CATALOG NO. 240

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SEALED BEAM SEARCHLIGHTS

300, 400, and 500 SERIES

PERKO OFFERS HIGHEST QUALITY SEALED BEAM SEARCHLIGHTS IN A VARIETY OF STYLES, FINISHES AND VOLTAGES TO FIT EVERY NEED

The 300 Series and 500 Series are designed for durable service with weatherproof construction all brass bodies and cast bronze bases. The 400 Series features brass bodies and overall quality construction not normally found in portable type searchlights.

The searchlights on Pages E-3 and E-4 are available in a number of different sizes. The following list gives approximate distance or range, according to size and voltage.

| Size | Voltage | Beam Candlepower | Approximate Range |
|------|---------|------------------|-------------------|
| 1 | 12V | 50,000 | 1/4 Mile |
| *1-H | 12V | 100,000 | 1/3 Mile |
| 2 | 12V | 200,000 | 1/2 Mile |
| *2-H | 12V | 160,000 | 1/2 Mile |
| 2 | 24V | 300,000 | 2/3 Mile |
| 3 | 12V | 250,000 | 5/8 Mile |
| 3 | 24V | 470,000 | 3/4 Mile |
| 3 | 32V | 260,000 | 5/8 Mile |

*NOTE, The "H" Series searchlights are equipped with High-Intensity Halogen Sealed Beam Units which produce a brighter more piercing beam and last up to 2-1/2 times longer than ordinary sealed beam units.

IMPORTANT ORDERING INFORMATION

- When ordering, please specify the following ■
 1.) Figure Number 2.) Size 3.) Voltage 4.) Finish

SPARE SEALED BEAM UNITS FOR PERKO 300, 400, and 500 SERIES SEARCHLIGHTS

SEALED BEAM SPOTLIGHT UNITS — Fig. 433

| No. | 12 Volt Each | *24 Volt Each | 32 Volt Each | Diam. Lens Inches |
|-----|--------------|---------------|--------------|-------------------|
| 1 | | | **N.A. | 4-1/2 |
| 2 | | | N.A. | 6 |
| 3 | | | N.A. | 7 |

*Rated voltage is listed at 28 volts.
 **Not available.



Fig. 433

HALOGEN SEALED BEAM-SPOTLIGHT UNIT — FIG. 435 12 Volt — 50 Watt — High Intensity — Longer Life

| No. | Each | Diam. Lens Inches |
|-----|------|-------------------|
| 1 | | 4-1/2 |
| 2 | | 6 |



Fig. 435

300 SERIES SEARCHLIGHTS CAST BRONZE BASE — BRASS BODY SATIN CHROME OR POLISHED CHROME FINISH 12, 24, or 32 VOLTS

| Dimensions Figs. 305 & 313 | "A" Inches | "B" Inches | "C" Inches | "D" Inches | "G" Inches | "H" Inches | Weight Pounds |
|----------------------------------|---------------|---------------|---------------|---------------|---------------|---------------|------------------|
| | 8 | 8-1/2 | 10 | 7 | 2 | 2-1/8 | 14 |

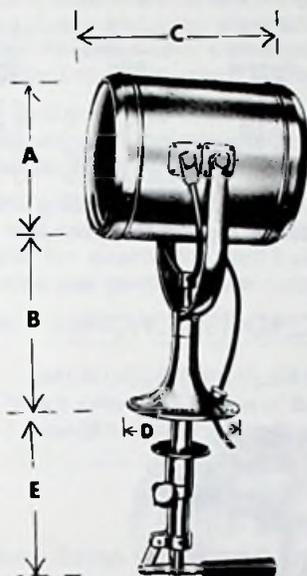


Fig. 305

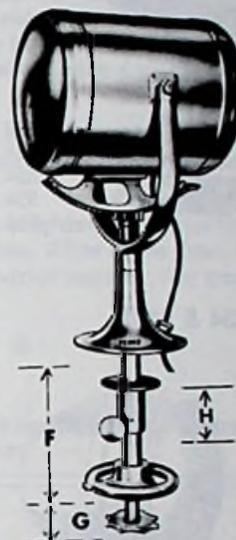


Fig. 313

| Fig. | "E" Inches |
|-------|---------------|
| 305 | 8-1/2 |
| 305-A | 15-1/2 |
| 305-B | 22-1/2 |
| 305-C | 29-1/2 |

| Fig. | "F" Inches |
|-------|---------------|
| 313 | 7-1/2 |
| 313-A | 14-1/2 |
| 313-B | 21-1/2 |
| 313-C | 28-1/2 |

SPARE PARTS

Sealed Beam Units — See Fig. 443 No. 3
Front Bezel With Glass, Specify Fig. 354
and Finish. Rear Cover, Specify Fig. 355
and Finish

CONTROL ASSEMBLIES ONLY

For Fig. 305 Specify 851
For Fig. 305A Specify 851 LA
For Fig. 305B Specify 851 LB
For Fig. 305C Specify 851 LC

For Fig. 313 Specify 852
For Fig. 313A Specify 852 LA
For Fig. 313B Specify 852 LB
For Fig. 313C Specify 852 LC

400 SERIES SEARCHLIGHTS BRASS BODY POLISHED CHROME FINISH

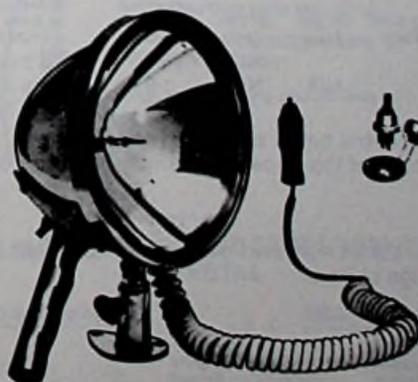
| Size No. | Voltage | Diam. Lens Inches | Weight Pounds |
|-------------|---------|-------------------------|------------------|
| 1 | 12V | 4-1/2 | 2-1/4 |
| 1-H* | 12V | 4-1/2 | 2-1/4 |
| 3 | 12V | 7 | 3-1/2 |
| 3 | 32V | 7 | 3-1/2 |

HAND SPOTLIGHTS — Figs. 440 & 440H
Push Button Switch — 8 Feet of Coiled Cord
Cigar Light Plug and D.C. Plug With Socket
Removable from Deck Socket for Portable Operation

Fig. 440 Size 1-H equipped with Halogen Sealed Beam Unit.

SPARE PARTS

Sealed Beam Units for Figs. 440 & 440H, See Figs. 433 and 435.
Cigar Lighter Plug, Specify Fig. 456
Deck Mounting Sockets for Light, Specify Fig. 494
D.C. Connections, See Fig. 1190



Figs. 440 & 440H SPOTLIGHTS

500 SERIES SEARCHLIGHTS CAST BRONZE BASE — BRASS BODY POLISHED CHROME FINISH



DECK CONTROL WITH SWITCH IN HEAD

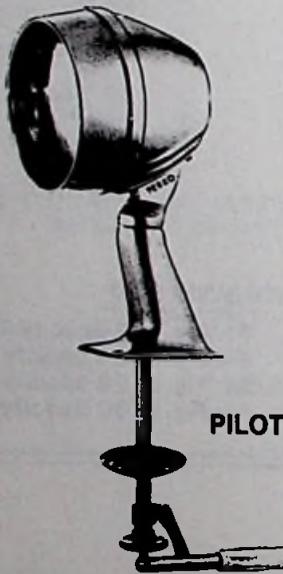
| Fig. | No. | 12 Volt Each | 24 Volt Each | 32 Volt Each | Nominal Diameter Inches | Dimensions Base Inches | Height Above Deck Inches |
|------|-----|--------------|--------------|--------------|-------------------------|------------------------|--------------------------|
| 538 | 1 | | N/A | N/A | 4-1/2 | 3-1/2 | 7-1/2 |
| 538 | 1H | | N/A | N/A | 4-1/2 | 3-1/2 | 7-1/2 |
| 534 | 2 | | | N/A | 6 | 4-7/8 x 3-1/8 | 12 |
| 534 | 2H | | N/A | N/A | 6 | 4-7/8 x 3-1/8 | 12 |
| 534 | **3 | | | | 7 | 4-7/8 x 3-1/8 | 12-1/2 |

Approximate Weight, Fig. 534, 5 pounds. Fig. 538, 1 1/2 pounds.

Figs. 534 & 534H

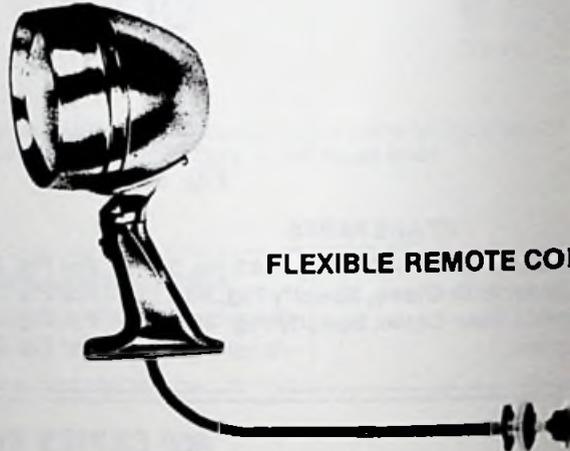


Figs. 538 & 538H



PILOT HOUSE CONTROL

Figs. 535 & 535H



FLEXIBLE REMOTE CONTROL

Figs. 536 & 536H

With finishing plate for underside of cabin top and position locking device.

| No. | 12 Volt Each | 24 Volt Each | 32 Volt Each | Nominal Diameter Inches | Dimensions Base Inches | *Height Above Deck Inches |
|-----|--------------|--------------|--------------|-------------------------|------------------------|---------------------------|
| 2 | | | N/A | 6 | 4-7/8 x 3-1/8 | 12 |
| 2H | | N/A | N/A | 6 | 4-7/8 x 3-1/8 | 12 |
| **3 | | | | 7 | 4-7/8 x 3-1/8 | 12-1/2 |

Length of control below base, 7-1/4 inches.
For thickness of top or deck maximum 4-1/2 inches.

NOTE

**Size No. 3 does not have lens bezel as illustrated. See Fig. 440 for basic design of head.

Has knob tightening device on dash for main set position of head.

| Fig. 536 No. | Fig. 536H No. | Length Control Inches | 12 Volt Each | 12 Volt-H Each | 24 Volt Each |
|--------------|---------------|-----------------------|--------------|----------------|--------------|
| 2-A | 2-AH | 36 | | | |
| 2-B | 2-BH | 48 | | | |
| 2-C | 2-CH | 60 | | | |
| **3-A | N/A | 36 | | | |
| **3-B | N/A | 48 | | | |
| **3-C | N/A | 60 | | | |

For Dimensions See Fig. 535.
Figs. 534 and 535, Weight About 5 Pounds.
*Fig. 536H, Available in 12 Volts only.
Special lengths longer than above, Price on application.
Maximum length for smooth operation is 12 feet.

Spare sealed beam units for all above lights, see Figs. 433 and 435.

SOLAR-RAY® SEARCHLIGHTS – 800 SERIES and 1900 SERIES

PERKO SOLAR-RAY® SEARCHLIGHTS ARE AVAILABLE FROM 10" THROUGH 19" SIZES. ALL MODELS OFFER RUGGED WEATHER-PROOF CONSTRUCTION WHICH WAS DEVELOPED OVER MANY YEARS OF RESEARCH AND RIGOROUS FIELD TESTING BY COMMERCIAL VESSELS, REQUIRING UNCOMPROMISING RESULTS UNDER EXTREME WEATHER CONDITIONS.

Both the 800 and 1900 Series are available in your choice of deck, wheel, lever, lever/gear or console mount controls. All models feature halo deflectors. Also full size parabolic glass mirror reflectors for maximum light output and ventilation covers for quick dissipation of heat to help prolong bulb life. Hinged front doors have quick release stainless steel latches to provide easy access for bulb replacement. The 800 Series models are available in our commercial satin chrome finish, which eliminates painting and provides a scratch resistant and chip-proof surface.

The 1900 Series was designed and built with the commercial user in mind where maximum size and brilliance counts. These units are constructed of marine aluminum with heavy duty castings and heavy gauge reinforced bodies for extra durability.

Solar-Ray® Searchlights give you a choice of the traditional incandescent or the brighter, more piercing quartz-halogen bulbs in a broad variety of voltages and wattages to fit every need. After more than 12 years of experience with the quartz-halogen bulbs we recommend them for superior results. For complete information on bulbs and candle power output, see Pages E-10 & E-11.

■ IMPORTANT ORDERING INFORMATION ■

WHEN ORDERING PLEASE SPECIFY THE FOLLOWING;

- 1.) Figure Number
- 2.) Size
- 3.) Finish
- 4.) Type of Bulb Socket
- 5.) Length of Controls below Mounting Base
- 6.) Overall height from bottom of Mounting Base to top of Head

SOLAR-RAY® SEARCHLIGHTS 800 SERIES – Fig. 883

Heavy Gauge Brass and Cast Bronze – For 6 through 230 Volts

Slide-Lock Focusing System – 3 Wire Cable, Grounded – Heat Tempered Front Lens
Ventilation Covers – No. 1 Size Single Ventilation – Nos. 2 & 3, Dual Ventilation
AVAILABLE IN PLAIN BRASS, SATIN CHROME OR POLISHED CHROME FINISH

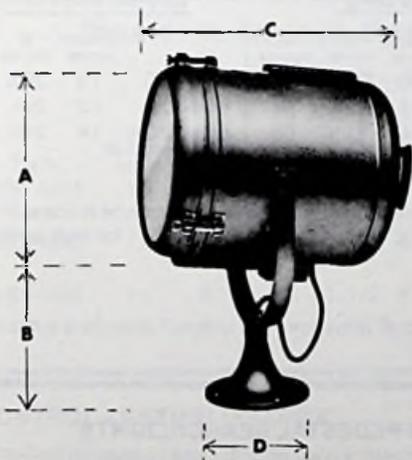
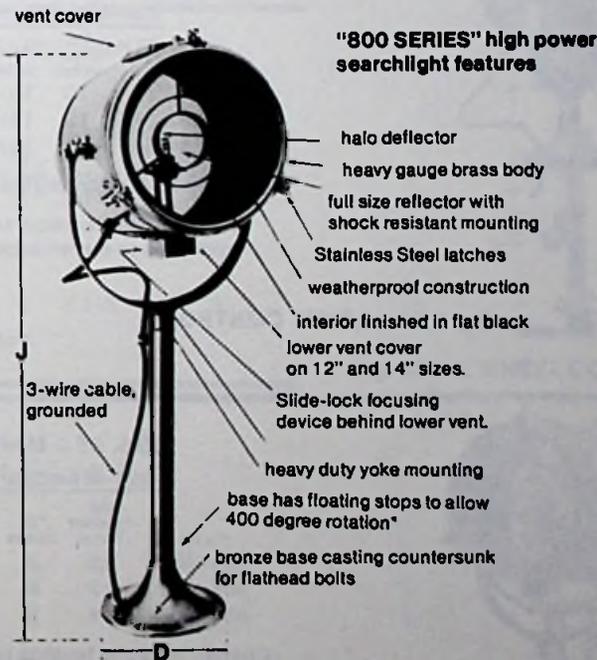


Fig. 883 STANDARD – DECK CONTROL

| Fig. No. | Diam. Reflector Inches | "A" Inches | "B" Inches | "C" Inches | "D" Inches | Weight Pounds |
|----------|------------------------|------------|------------|------------|------------|---------------|
| 883-1 | 10 | 10-1/8 | 9 | 13 | 7 | 25 |
| 883-2 | 12 | 12-1/8 | 10 | 15 | 7 | 33 |
| 883-3 | 14 | 14-1/8 | 11 | 17 | 7 | 45 |



Figs. 883-M and 883-H DECK CONTROL WITH EXTENDED PEDESTAL

IMPORTANT NOTES

See Pg. E-10 for complete listing of bulbs.
See Pg. E-12 for spare parts listing.

*Only applies to searchlights with controls.

883M - Medium Pedestal

| Fig. No. | Dia. Reflector Inches | "D" | "J" | Weight Pounds |
|----------|-----------------------|-----|--------|---------------|
| 883-MO1 | 10 | 8 | 27-1/2 | 51 |
| 883-MO2 | 12 | 8 | 29-1/2 | 59 |
| 883-MO3 | 14 | 8 | 31-1/2 | 71 |

883H - High Pedestal

| Fig. No. | Dia. Reflector Inches | "D" | "J" | Weight Pounds |
|----------|-----------------------|-----|-----|---------------|
| 883-HO1 | 10 | 8 | 44 | 53 |
| 883-HO2 | 12 | 8 | 46 | 61 |
| 883-HO3 | 14 | 8 | 48 | 73 |

SOLAR-RAY® SEARCHLIGHTS 800 SERIES — FIG. 884

Heavy Gage Brass and Cast Bronze — For 6-230 Volts
Slide-Lock Focusing System — 3 Wire Cable, Grounded — Heat Tempered Front Lens
Ventilation Covers — No. 1 Size Single Ventilation — Nos. 2 & 3, Dual Ventilation
AVAILABLE IN PLAIN BRASS, SATIN CHROME OR POLISHED CHROME FINISH

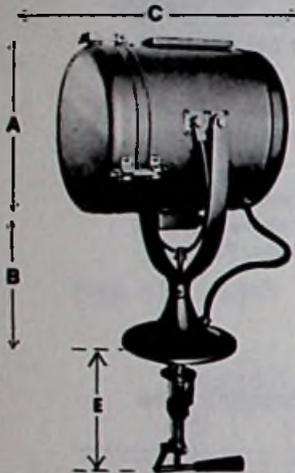


FIG. 884 STANDARD LEVER CONTROL SEARCHLIGHTS

| Fig. No. | Dia. Reflector Inches | "A" Inches | "B" Inches | "C" Inches | "D" Inches | "E" Inches | "H" Inches |
|----------|-----------------------|------------|------------|------------|------------|------------|------------|
| 884-1 | 10 | 10½ | 9 | 13 | 7 | 8½ | 2½ |
| 884-2 | 12 | 12½ | 10 | 15 | 7 | 8½ | 2½ |
| 884-3 | 14 | 14½ | 11 | 17 | 7 | 8½ | 2½ |

Fig. 884 LEVER CONTROL

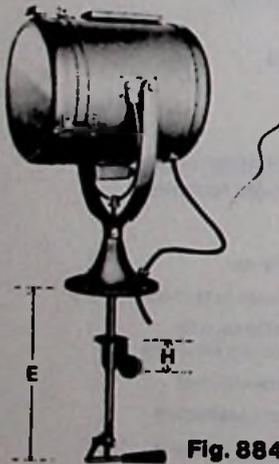


FIG. 884-L EXTENDED LEVER CONTROL SEARCHLIGHTS

| 884-LA Medium | | | | 884-LB Long | | | | 884-LC Extra Long | | | |
|---------------|-----------------------|------------|------------|-------------|-----------------------|------------|------------|-------------------|-----------------------|------------|------------|
| Fig. No. | Dia. Reflector Inches | "E" Inches | Wt. Pounds | Fig. No. | Dia. Reflector Inches | "E" Inches | Wt. Pounds | Fig. No. | Dia. Reflector Inches | "E" Inches | Wt. Pounds |
| 884-L1A | 10 | 15½ | 39 | 884-L1B | 10 | 22½ | 43 | 884-L1C | 10 | 29½ | 47 |
| 884-L2A | 12 | 15½ | 47 | 884-L2B | 12 | 22½ | 51 | 884-L2C | 12 | 29½ | 55 |
| 884-L3A | 14 | 15½ | 59 | 884-L3B | 14 | 22½ | 63 | 884-L3C | 14 | 29½ | 67 |

Custom control lengths are available. Specify desired "E" dimension.

If installation also requires searchlight to be extended above deck these lights can be made on pedestals as shown below. Specify "S" in place of "L" for medium pedestal or "T" for high pedestal.

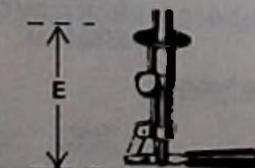
Fig. 884-L LEVER CONTROL



FIGS. 884-M and 884-H EXTENDED PEDESTAL SEARCHLIGHTS

| 884-M Medium Pedestal | | | | | | 884-H High Pedestal | | | | |
|-----------------------|-----------------------|------------|------------|------------|------------|---------------------|-----------------------|------------|------------|------------|
| Fig. No. | Dia. Reflector Inches | "D" Inches | "E" Inches | "J" Inches | Wt. Pounds | Fig. No. | Dia. Reflector Inches | "D" Inches | "E" Inches | "J" Inches |
| 884-M01 | 10 | 8 | 8½ | 27½ | 55 | 884-H01 | 10 | 8 | 8½ | 44 |
| 884-M02 | 12 | 8 | 8½ | 29½ | 66 | 884-H02 | 12 | 8 | 8½ | 46 |
| 884-M03 | 14 | 8 | 8½ | 31½ | 81 | 884-H03 | 14 | 8 | 8½ | 48 |

Custom pedestal heights are available. Specify desired "J" dimension.



**LEVER CONTROL
Figs. 884-M & 884-H**

CONTROL ASSEMBLIES ONLY

The control assemblies listed below are interchangeable (except Figs. 851-M and 851-H), making it possible to offer a variety of control assemblies with minimum inventory.

- For Fig. 884 Specify Fig. 851
- For Fig. 884L-A Specify Fig. 851-LA
- For Fig. 884L-B Specify Fig. 851-LB
- For Fig. 884L-C Specify Fig. 851-LC
- For Fig. 884M Specify Fig. 851M
- For Fig. 884H Specify Fig. 851H

SOLAR-RAY® SEARCHLIGHTS 800 SERIES — FIG. 885

Heavy Gauge Brass and Cast Bronze — For 6-230 Volts
Slide-Lock Focusing System — 3 Wire Cable, Grounded — Heat Tempered Front Lens
Ventilation Covers — No. 1 Size Single Ventilation — Nos. 2 & 3, Dual Ventilation
AVAILABLE IN PLAIN BRASS, SATIN CHROME OR POLISHED CHROME FINISH

FIG. 885 STANDARD WHEEL CONTROL SEARCHLIGHTS

| Fig. No | Dia. Reflector Inches | "A" Inches | "B" Inches | "C" Inches | "D" Inches | "F" Inches | "G" Inches | "H" Inches | Weight Pounds |
|---------|-----------------------|------------|------------|------------|------------|------------|------------|------------|---------------|
| 885-1 | 10 | 10-1/8 | 9 | 13 | 7 | 7-1/2 | 2 | 2-1/8 | 36 |
| 885-2 | 12 | 12-1/8 | 10 | 15 | 7 | 7-1/2 | 2 | 2-1/8 | 44 |
| 885-3 | 14 | 14-1/8 | 11 | 17 | 7 | 7-1/2 | 2 | 2-1/8 | 56 |

FIG. 885-L EXTENDED WHEEL CONTROL SEARCHLIGHTS

| 885-LA Medium | | | | 885-LB Long | | | | 885-LC Extra Long | | | |
|---------------|-----------------------|------------|------------|-------------|-----------------------|------------|------------|-------------------|-----------------------|------------|------------|
| Fig. No | Dia. Reflector Inches | "F" Inches | Wt. Pounds | Fig. No. | Dia. Reflector Inches | "F" Inches | Wt. Pounds | Fig. No. | Dia. Reflector Inches | "F" Inches | Wt. Pounds |
| 885-L1A | 10 | 14-1/2 | 40 | 885-L1B | 10 | 21-1/2 | 43 | 885-L1C | 10 | 28-1/2 | 46 |
| 885-L2A | 12 | 14-1/2 | 48 | 885-L2B | 12 | 21-1/2 | 51 | 885-L2C | 12 | 28-1/2 | 54 |
| 885-L3A | 14 | 14-1/2 | 60 | 885-L3B | 14 | 21-1/2 | 63 | 885-L3C | 14 | 28-1/2 | 66 |

Custom control lengths are available. Specify desired "F" dimension.
If installation also requires searchlight to be extended above deck these lights can be made with higher pedestals as shown below. Specify "S" in place of "L" for medium pedestal or "T" for high pedestal.

FIGS. 885M and 885H EXTENDED PEDESTAL SEARCHLIGHTS

885M — Medium Pedestal 885H — High Pedestal

| Fig. No | Dia. Reflector Inches | "D" Inches | "F" Inches | "J" Inches | Wt. Pounds | Fig. No. | Dia. Reflector Inches | "D" Inches | "F" Inches | "J" Inches | Wt. Pounds |
|---------|-----------------------|------------|------------|------------|------------|----------|-----------------------|------------|------------|------------|------------|
| 885-M01 | 10 | 8 | 7-1/2 | 27-1/2 | 55 | 885-H01 | 10 | 8 | 7-1/2 | 44 | 57 |
| 885-M02 | 12 | 8 | 7-1/2 | 29-1/2 | 66 | 885-H02 | 12 | 8 | 7-1/2 | 46 | 68 |
| 885-M03 | 14 | 8 | 7-1/2 | 31-1/2 | 81 | 885-H03 | 14 | 8 | 7-1/2 | 48 | 83 |

Custom pedestal heights are available. Specify desired "J" dimension.

CONTROL ASSEMBLIES ONLY

The Control assemblies listed below are interchangeable (except for Figs. 852-M and 852-H), making it possible to offer a variety of lights with minimum inventory.

- For Fig. 885, Specify 852
- For Fig. 885-LA, Specify 852-LA
- For Fig. 885-LB, Specify 852-LB
- For Fig. 885-LC, Specify 852-LC
- For Fig. 885M, Specify 852M
- For Fig. 885H, Specify 852H

REFER TO PAGE E-5
FOR
ORDERING INFORMATION

IMPORTANT NOTES

See Pg. E-10 for complete listing of bulbs.
See Pg. E-12 for spare parts listing.

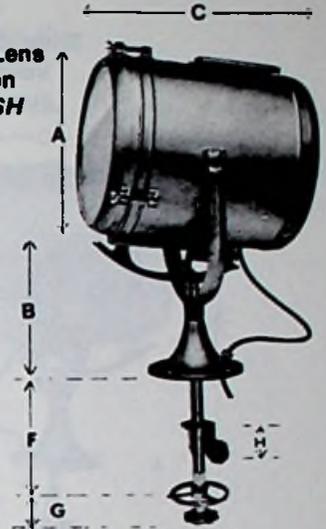
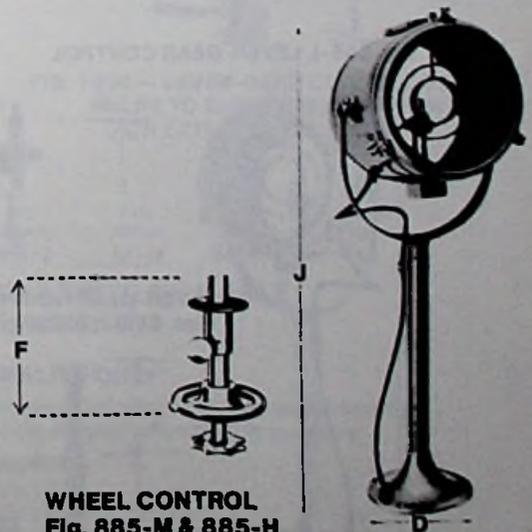


Fig. 885 WHEEL CONTROL



Fig. 885-L WHEEL CONTROL



WHEEL CONTROL
Fig. 885-M & 885-H

SOLAR-RAY® SEARCHLIGHTS 800 SERIES – FIG. 886-887

Heavy Gauge Brass and Cast Bronze – For 6-230 Volts
Slide-Lock Focusing System – 3 Wire Cable, Grounded – Heat Tempered Front Lens
Ventilation Covers – No. 1 Size Single Ventilation – Nos. 2 & 3, Dual Ventilation
AVAILABLE IN PLAIN BRASS, SATIN CHROME OR POLISHED CHROME FINISH

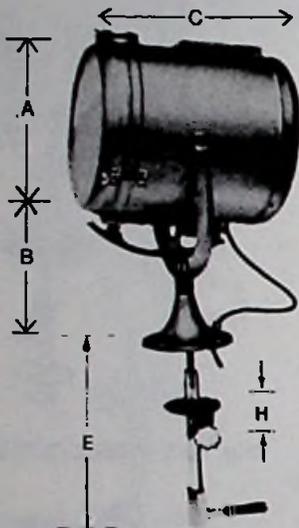
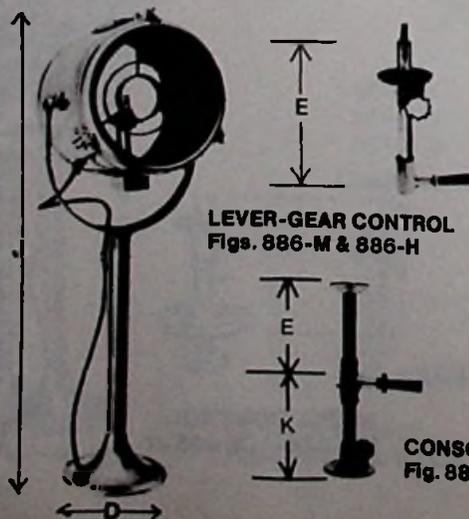


Fig. 886 LEVER-GEAR CONTROL



Fig. 886-L LEVER-GEAR CONTROL



LEVER-GEAR CONTROL
Figs. 886-M & 886-H

CONSOLE MOUNT
Fig. 887 CONTROL

FIG. 886 STANDARD LEVER-GEAR CONTROL SEARCHLIGHTS FIG. 887 STANDARD LEVER-GEAR CONSOLE MOUNT SEARCHLIGHTS

| Fig. No. | Dia. Reflector Inches | "A" Inches | "B" Inches | "C" Inches | "D" Inches | "E" Inches | "H" Inches |
|----------|-----------------------|------------|------------|------------|------------|------------|------------|
| 1 | 10 | 10-1/8 | 9 | 13 | 7 | 8-1/2 | 2-1/8 |
| 2 | 12 | 12-1/8 | 10 | 15 | 7 | 8-1/2 | 2-1/8 |
| 3 | 14 | 14-1/8 | 11 | 17 | 7 | 8-1/2 | 2-1/8 |

NEW

Console mount control same design as Fig. 886 lever gear control except for extension below control handle ("K" dimension) to solve the problem of vibration sometimes encountered in long controls. Specify "K" dimension measured from the center of the lever gear to the bottom console flange. Minimum "K" is 6 inches.

FIG. 886-L EXTENDED LEVER-GEAR CONTROL SEARCHLIGHTS FIG. 887-L EXTENDED LEVER-GEAR CONSOLE MOUNT SEARCHLIGHTS

| 886-LA Medium 887-LA Medium | | | | 886-LB Long 887-LB Long | | | 886-LC Extra Long 887-LC Extra Long | | | |
|--------------------------------|-----------------------|------------|------------|----------------------------|-----------------------|------------|--|----------|-----------------------|------------|
| Fig. No. | Dia. Reflector Inches | "E" Inches | Wt. Pounds | Fig. No. | Dia. Reflector Inches | "E" Inches | Wt. Pounds | Fig. No. | Dia. Reflector Inches | "E" Inches |
| L1A | 10 | 15 1/2 | 40 | L1B | 10 | 22 1/2 | 43 | L1C | 10 | 29 1/2 |
| L2A | 12 | 15 1/2 | 48 | L2B | 12 | 22 1/2 | 51 | L2C | 12 | 29 1/2 |
| L3A | 14 | 15 1/2 | 60 | L3B | 14 | 22 1/2 | 63 | L3C | 14 | 29 1/2 |

Custom control lengths are available. Specify desired "E" dimension.

If installation also requires searchlight to be extended above deck, these lights can be made higher pedestals as shown below. Specify "S" in place of "L" for medium pedestal or "T" for high pedestal.

FIGS. 886-M and 886-H – EXTENDED PEDESTAL SEARCHLIGHTS FIGS. 887-M and 887-H – EXTENDED PEDESTAL SEARCHLIGHTS

| 886-M Medium Pedestal 887-M Medium Pedestal | | | | | | 886-H High Pedestal 887-H High Pedestal | | | | |
|--|-----------------------|------------|------------|------------|------------|--|-----------------------|------------|------------|------------|
| Fig. No. | Dia. Reflector Inches | "D" Inches | "E" Inches | "J" Inches | Wt. Pounds | Fig. No. | Dia. Reflector Inches | "D" Inches | "E" Inches | "J" Inches |
| MO1 | 10 | 8 | 8 1/2 | 27 1/2 | 59 | HO1 | 10 | 8 | 8 1/2 | 44 |
| MO2 | 12 | 8 | 8 1/2 | 29 1/2 | 71 | HO2 | 12 | 8 | 8 1/2 | 46 |
| MO3 | 14 | 8 | 8 1/2 | 31 1/2 | 86 | HO3 | 14 | 8 | 8 1/2 | 48 |

Custom pedestal heights are available. Specify desired "J" dimension.

CONTROL ASSEMBLIES ONLY

The control assemblies listed below are interchangeable for Figs. 969-M, 969-H, 966-M and 966-H), making it possible to offer a variety of lights with minimum inventory.

- For Fig. 886 Specify 969
- For Fig. 886-LA Specify 969-LA
- For Fig. 886-LB Specify 969-LB
- For Fig. 886-LC Specify 969-LC
- For Fig. 886M Specify 969M
- For Fig. 886H Specify 969H
- For Fig. 887 Specify 966
- For Fig. 887-LA Specify 966-LA
- For Fig. 887-LB Specify 966-LB
- For Fig. 887-LC Specify 966-LC
- For Fig. 887M Specify 966M
- For Fig. 887H Specify 966H

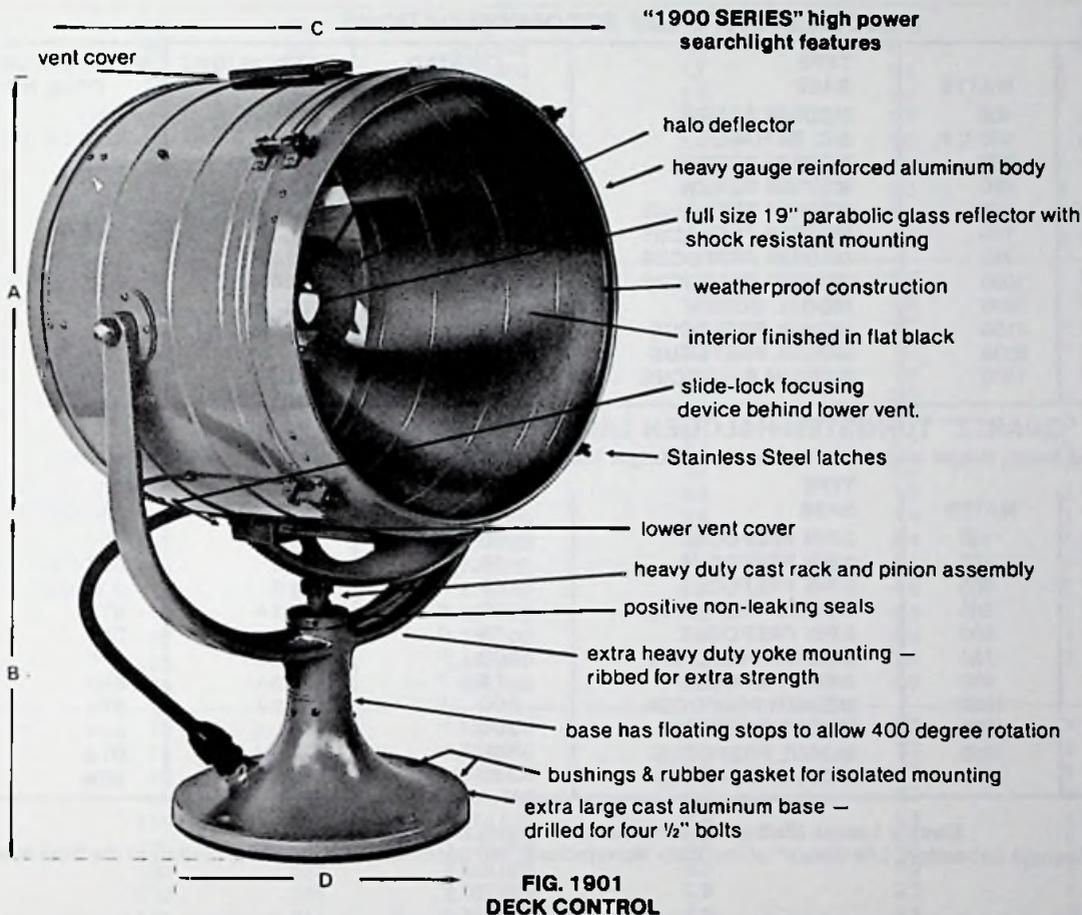
REFER TO PAGE E-5
FOR
ORDERING INFORMATION

IMPORTANT NOTES

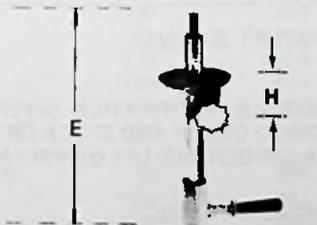
See Pg. E-10 for complete listing of bulbs.

See Pg. E-12 for complete listing of accessories.

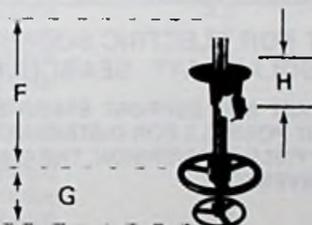
**"1900 SERIES SOLAR-RAY®" SEARCHLIGHTS
FOR 32, 120 OR 230 VOLTS — 3 WIRE GROUNDED
ALL ALUMINUM — PAINTED GRAY — INTERCHANGEABLE CONTROLS
LEVER/GEAR, WHEEL OR LEVER GEAR CONSOLE MOUNT**



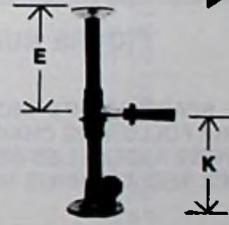
**FIG. 1901
DECK CONTROL**



**FIG. 1902 — LEVER-GEAR CONTROL
MOVES SMOOTH, ONE HAND OPERATION
AND HAS BUILT-IN LOCKING KNOB
TO SET POSITION OF ELEVATION**



**FIG. 1903 — WHEEL CONTROL
EXTRA LARGE CONTROL WHEELS FOR
EASE OF OPERATION**



**FIG. 1904 — LEVER-GEAR CONSOLE MOUNT
HELPS TO ELIMINATE VIBRATION
ON EXTENDED CONTROLS**

DIMENSIONS AND WEIGHT

| Size No. | "A" Inches | "B" Inches | "C" Inches | "D" Inches | "E" Inches | "F" Inches | "G" Inches | "H" Inches | "K" Inches | Weight Pounds |
|----------|------------|------------|------------|------------|------------|------------|------------|------------|------------|---------------|
| 4 | 19-1/2 | 13-1/4 | 20-3/4 | 13 | 22 | 20-1/2 | 2-1/2 | 4-1/4 | Specify* | 55 |

**SPECIAL HEIGHTS AND EXTRA LONG CONTROL SEARCHLIGHTS AVAILABLE
PRICE ON APPLICATION — SPECIFY MEASUREMENTS**

**REFER TO PAGE E-5
FOR
ORDERING INFORMATION**

IMPORTANT NOTES

See pg. E-10 for complete listing of bulbs.
See pg. E-12 for spare parts listing.

CONTROL ASSEMBLIES ONLY

The control assemblies listed below are interchangeable making it possible to offer a variety of lights with minimum inventory.

For Fig. 1902 Specify 1921

For Fig. 1903 Specify 1922

*For Fig. 1904 Specify 1923

**"K" Dimension must be Specified - Minimum is 6 Inches

IMPORTANT BULB INFORMATION FOR SOLAR-RAY® SEARCHLIGHTS
 — BULBS ARE NOT INCLUDED IN LIGHTS —

To give good results the bulb and reflector must be perfectly compatible, therefore be sure to mention the FIG. of the Bulb desired. Peak candlepower is exceedingly sensitive to many factors, i.e. light source out of focus 1/32 inch, Under-Voltage of only 4%, or difference between Lamp Manufacturers, which may cause reduction in range up to 20%.

INCANDESCENT LAMP RECOMMENDATIONS

| FIG. | VOLTS | WATTS | TYPE BASE | **RATED LIFE | SEARCHLIGHT SIZE NOS. | MANUFACTURER CODE NO. |
|------|-------|----------|-----------------|-----------------|--------------------------|--------------------------|
| 800 | 6 | 108 | MEDIUM SCREW | 50 HOURS | 1-2 | CPG |
| 801 | 12 | 100 C.P. | S.C. BAYONET | 100 " | 1-2 | 1020 OR 97 |
| 802 | 32 | 300 | MEDIUM SCREW | 50 " | 1-2 | CRX |
| 806 | 32 | 500 | MEDIUM SCREW | 50 " | 1-2-3-4 | DLT |
| 807 | 120 | 500 | MEDIUM PREFOCUS | 25 " | 1-2-3-4 | CZX |
| 809 | 120 | 750 | MEDIUM PREFOCUS | 25 " | 2-3-4 | DPJ |
| 837 | 120 | 750 | MEDIUM PREFOCUS | 200 " | 2-3-4 | DDY |
| 810 | 120 | 1000 | MEDIUM PREFOCUS | 25 " | 2-3-4 | DRS |
| 811 | 120 | 1000 | MOGUL SCREW | 25 " | 2-3 | DRW |
| 840 | 120 | 1500 | MOGUL PREFOCUS | 25 " | 4 | DTJ |
| 843 | 120 | 2000 | MOGUL PREFOCUS | 200 " | 4 | 2MG-48/5 |
| 860 | 230 | 1000 | MEDIUM PREFOCUS | 50 " | 2-3-4 | DWK |

"QUARTZ" TUNGSTEN-HALOGEN LAMP RECOMMENDATIONS

For more concentrated beam, longer distance, brighter lights, longer life, etc. we suggest these lamps in the following sizes.

| FIG. | VOLTS | WATTS | TYPE BASE | **RATED LIFE | SEARCHLIGHT SIZE NOS. | MANUFACTURER CODE NO. |
|------|-------|-------|-----------------|-----------------|--------------------------|--------------------------|
| 816 | 12 | 100 | 2-PIN PREFOCUS | 50 HOURS | 1-2-3 | FDT |
| 836 | 24 | 150 | 2-PIN PREFOCUS | 50 " | 1-2-3 | DZE-FDS |
| 817 | 32 | 200 | 2-PIN PREFOCUS | 200 " | 1-2-3 | G.E. 1945 |
| 844 | 120 | 500 | MEDIUM PREFOCUS | 100 " | 1-2-3-4 | BTM |
| 820 | 120 | 600 | 2-PIN PREFOCUS | 75 " | 1-2-3 | DYS |
| 845 | 120 | 750 | MEDIUM PREFOCUS | 200 " | 2-3-4 | BTP |
| 839 | 120 | 900 | 2-PIN PREFOCUS | 75 " | 2-3-4 | BVA |
| 846 | 120 | 1000 | MEDIUM PREFOCUS | 200 " | 2-3-4 | BTR |
| 847 | 120 | 1000 | MOGUL PREFOCUS | 200 " | 4 | BVV |
| 848 | 120 | 1500 | MOGUL PREFOCUS | 100 " | 4 | DTA |
| 859 | 120 | 2000 | MOGUL PREFOCUS | 250 " | 4 | BVV |

Electric Lamps (Bulbs) are not returnable unless the fault is ours.

**These are the "Rated Average Laboratory Life-Hours" of the Bulb Manufacturer. No guarantee that the life is limited to the time indicated.

**FIGURE NUMBER CHART FOR ELECTRIC SOCKET WITH SUPPORT STAND
 FOR SOLAR-RAY® SEARCHLIGHTS**

SOLAR-RAY® SEARCHLIGHTS INCLUDE THE SOCKET AND SUPPORT STAND BASED ON THE BULB INFORMATION GIVEN ORDERING. THE FOLLOWING CHART NOW MAKES IT POSSIBLE FOR DISTRIBUTORS OR DEALERS TO ORDER AND STOCK DIFFERENT STYLES OF THESE ASSEMBLIES SEPARATELY FOR FIELD CONVERSION, THEREBY COVERING A LARGER VARIETY OF VOLTAGE AND CANDLEPOWER REQUIREMENTS WITH MINIMUM INVENTORY.

| FIG. NO. | SOCKET TYPE | SEARCHLIGHT SIZE | | | 1" |
|-------------|--------------------------------|------------------|-----|-----|----|
| | | 10" | 12" | 14" | |
| 871 | S.C. Bayonet | #1 | #2 | #3 | N |
| 872 | Medium Screw | #1 | #2 | #3 | N |
| 873 | Medium Prefocus | #1 | #2 | #3 | N |
| 874 | Mogul Screw | N/A | #2 | #3 | N |
| 1930 | Mogul Prefocus (1500W) | N/A | N/A | N/A | 11 |
| 1931 | Mogul Prefocus (1000W & 2000W) | N/A | N/A | N/A | 11 |
| 875 | 2 Pin Prefocus (12 Volt) | #1 | #2 | #3 | N |
| 876 | 2 Pin Prefocus (24 Volt) | #1 | #2 | #3 | N |
| 878 | 2 Pin Prefocus (32 Volt) | #1 | #2 | #3 | N |
| 879 | 2 Pin Prefocus (600W) | #1 | #2 | #3 | N |
| 880 | 2 Pin Prefocus (900W) | N/A | #2 | #3 | N |

NOTE: When ordering specify the figure number and size of socket and stand assembly.

Example: If converting a 10 Inch diameter light from S.C. Bayonet to Medium Screw, order Fig. 872 No. 1.

BULB TECHNICAL DATA FOR SOLAR RAY® SEARCHLIGHTS

The Following Chart is Provided to Aid in Proper Bulb Selection

| Searchlight Size* | Voltage | Bulb Fig. No. | Maximum Candlepower Output | Horizontal Beam Spread Degrees | Vertical Beam Spread Degrees | Approx. Range Miles** | Approx. Life Hours |
|-------------------|---------|---------------|----------------------------|--------------------------------|------------------------------|-----------------------|--------------------|
| 1 - 10" | 6 | 800 | 554,000 | 1.0 | 1.7 | 3/4 | 50 |
| | 12 | 801 | 251,000 | 1.6 | 2.1 | 5/8 | 100 |
| | 12 | 816 | 1,168,000 | 1.7 | 1.4 | 1 | 50 |
| | 24 | 836 | 891,000 | 2.6 | 1.5 | 1 | 50 |
| | 32 | 817 | 571,000 | 2.6 | 1.7 | 3/4 | 200 |
| | 32 | 802 | 761,000 | 3.4 | 3.0 | 7/8 | 50 |
| | 32 | 806 | 943,000 | 3.4 | 3.9 | 1 | 50 |
| | 120 | 820 | 908,000 | 4.4 | 2.2 | 1 | 75 |
| | 120 | 807 | 1,332,000 | 3.5 | 2.8 | 1 1/8 | 25 |
| | 120 | 844 | 1,375,000 | 3.1 | 3.4 | 1 1/8 | 100 |
| | 2 - 12" | 6 | 800 | 718,000 | 1.0 | 1.7 | 7/8 |
| 12 | | 801 | 407,000 | 1.3 | 1.5 | 3/4 | 100 |
| 12 | | 816 | 1,617,000 | 1.5 | 1.2 | 1 1/4 | 50 |
| 24 | | 836 | 1,349,000 | 2.2 | 1.5 | 1 1/8 | 50 |
| 32 | | 817 | 865,000 | 2.4 | 1.6 | 7/8 | 200 |
| 32 | | 802 | 1,029,000 | 3.2 | 2.9 | 1 | 50 |
| 32 | | 806 | 1,496,000 | 3.4 | 3.5 | 1 1/8 | 50 |
| 120 | | 837 | 977,000 | 4.1 | 3.7 | 1 | 200 |
| 120 | | 845 | 1,185,000 | 3.7 | 5.2 | 1 | 200 |
| 120 | | 820 | 1,410,000 | 4.3 | 1.9 | 1 1/8 | 75 |
| 120 | | 809 | 1,747,000 | 3.6 | 3.4 | 1 1/4 | 25 |
| 120 | | 844 | 1,790,000 | 3.2 | 3.4 | 1 1/4 | 100 |
| 120 | | 807 | 1,799,000 | 3.3 | 3.1 | 1 1/4 | 25 |
| 120 | | 811 | 1,816,000 | 4.0 | 4.9 | 1 1/4 | 25 |
| 120 | | 810 | 1,894,000 | 4.0 | 3.8 | 1 3/8 | 25 |
| 120 | | 846 | 1,911,000 | 3.9 | 5.0 | 1 3/8 | 200 |
| 120 | | 839 | 2,482,000 | 4.5 | 5.5 | 1 1/2 | 75 |
| 230 | 860 | 865,000 | 6.9 | 5.9 | 7/8 | 50 | |
| 3 - 14" | 12 | 816 | 1,756,000 | 1.5 | 1.0 | 1 1/4 | 50 |
| | 24 | 836 | 1,367,000 | 2.3 | 1.2 | 1 1/8 | 50 |
| | 32 | 817 | 943,000 | 2.2 | 1.5 | 1 | 200 |
| | 32 | 806 | 1,591,000 | 4.0 | 3.7 | 1 1/8 | 50 |
| | 120 | 837 | 1,254,000 | 3.9 | 4.5 | 1 1/8 | 200 |
| | 120 | 845 | 1,531,000 | 3.6 | 5.1 | 1 1/8 | 200 |
| | 120 | 820 | 1,626,000 | 4.5 | 1.9 | 1 1/4 | 75 |
| | 120 | 844 | 2,007,000 | 2.9 | 3.2 | 1 3/8 | 100 |
| | 120 | 811 | 2,249,000 | 4.0 | 5.1 | 1 3/8 | 25 |
| | 120 | 807 | 2,353,000 | 3.2 | 3.2 | 1 1/2 | 25 |
| | 120 | 809 | 2,361,000 | 3.7 | 4.0 | 1 1/2 | 25 |
| | 120 | 846 | 2,586,000 | 3.8 | 5.0 | 1 1/2 | 200 |
| | 120 | 810 | 2,621,000 | 4.0 | 4.5 | 1 1/2 | 25 |
| | 120 | 839 | 2,889,000 | 4.5 | 5.2 | 1 5/8 | 75 |
| | 230 | 860 | 1,021,000 | 7.7 | 6.2 | 1 | 50 |
| 4 - 19" | 32 | 806 | 3,520,000 | 3.5 | 3.7 | 1 2/3 | 50 |
| | 120 | 837 | 2,076,000 | 3.6 | 4.2 | 1 3/8 | 200 |
| | 120 | 845 | 2,871,000 | 3.6 | 5.4 | 1 5/8 | 200 |
| | 120 | 807 | 3,191,000 | 3.5 | 4.0 | 1 5/8 | 25 |
| | 120 | 859 | 3,633,000 | 9.4 | 5.9 | 1 2/3 | 250 |
| | 120 | 847 | 3,659,000 | 4.5 | 5.4 | 1 2/3 | 200 |
| | 120 | 843 | 3,676,000 | 8.6 | 5.9 | 1 2/3 | 200 |
| | 120 | 844 | 4,212,000 | 3.0 | 5.4 | 1 3/4 | 100 |
| | 120 | 809 | 4,454,000 | 3.6 | 4.5 | 1 3/4 | 25 |
| | 120 | 846 | 4,601,000 | 4.5 | 5.4 | 1 7/8 | 200 |
| | 120 | 848 | 5,596,000 | 5.9 | 5.7 | 2 | 100 |
| | 120 | 810 | 5,622,000 | 3.6 | 4.2 | 2 | 25 |
| | 120 | 839 | 5,769,000 | 5.9 | 5.4 | 2 | 75 |
| | 120 | 840 | 5,968,000 | 5.6 | 5.4 | 2 1/8 | 25 |
| | 230 | 860 | 2,162,000 | 7.9 | 6.5 | 1 3/8 | 50 |

NOTES: *Solar Ray® Searchlight Sizes are given based on the actual diameter of the reflector.

**The approximate ranges listed above are based on photometric measurements of beam candlepower output under ideal conditions. Many factors such as atmospheric conditions, size and color of target, background, etc, may reduce effective range considerably; therefore, these figures are offered only for use as a guide for comparison between different bulb and voltage options.

SPARE PARTS
For Solar-Ray® Searchlights

| FIG. | SIZE | FRONT GLASS | FRONT DOOR WITH GLASS | BOX TYPE FOCUSING DEVICE WITH HOUSING | REAR COVER | REFLECTOR |
|------|------|-------------|-----------------------|---------------------------------------|------------|-----------|
| 883 | 1 | 889 #1 | 891 #1 | 892 | 908 #1 | 890 |
| | 2 | 889 #2 | 891 #2 | 892 | 908 #2 | 890 |
| | 3 | 889 #3 | 891 #3 | 892 | 908 #3 | 890 |
| 884 | 1 | 889 #1 | 891 #1 | 892 | 902 #1 | 890 |
| | 2 | 889 #2 | 891 #2 | 892 | 902 #2 | 890 |
| | 3 | 889 #3 | 891 #3 | 892 | 902 #3 | 890 |
| 885 | 1 | 889 #1 | 891 #1 | 909 #1 | 902 #1 | 890 |
| | 2 | 889 #2 | 891 #2 | 909 #2 | 902 #2 | 890 |
| | 3 | 889 #3 | 891 #3 | 909 #3 | 902 #3 | 890 |
| 886 | 1 | 889 #1 | 891 #1 | 909 #1 | 902 #1 | 890 |
| | 2 | 889 #2 | 891 #2 | 909 #2 | 902 #2 | 890 |
| | 3 | 889 #3 | 891 #3 | 909 #3 | 902 #3 | 890 |
| 887 | 1 | 889 #1 | 891 #1 | 909 #1 | 902 #1 | 890 |
| | 2 | 889 #2 | 891 #2 | 909 #2 | 902 #2 | 890 |
| | 3 | 889 #3 | 891 #3 | 909 #3 | 902 #3 | 890 |
| 1901 | 4 | 889 #4 | 1936 | 1934 | 1932 | 890 |
| 1902 | 4 | 889 #4 | 1936 | 1935 | 1933 | 890 |
| 1903 | 4 | 889 #4 | 1936 | 1935 | 1933 | 890 |
| 1904 | 4 | 889 #4 | 1936 | 1935 | 1933 | 890 |

When ordering specify spare part no., size and finish

Spare Electric Sockets
For Solar-Ray® Searchlights

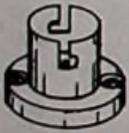


Fig. 472 No. 21
S.C. Bayonet



Fig. 894
Medium Screw



Fig. 895
Medium Prefocus



Fig. 893
Mogul Prefocus

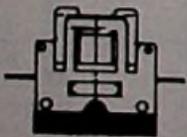


Fig. 899
2-Pin Prefocus*

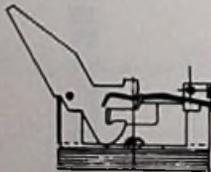


Fig. 866
2-Pin Prefocus**



Fig. 897
Mogul Screw

* For Sizes 10, 12 and 14 except for 900 Watt Bulb.

** For Sizes 12, 14 and 19 for Use With 900 Watt Bulb.

SECTION F

PERKO[®]

BLOWERS

VENTILATORS

VENTS



MANUFACTURED BY PERKO, INC. 16490 N.W. 13TH AVE., P.O. BOX 64000-D, MIAMI, FLORIDA 33164

FOR COMPLETE LINE SEE CATALOG NO. 240

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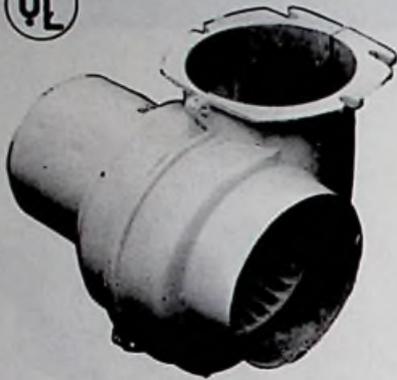


Fig. 778

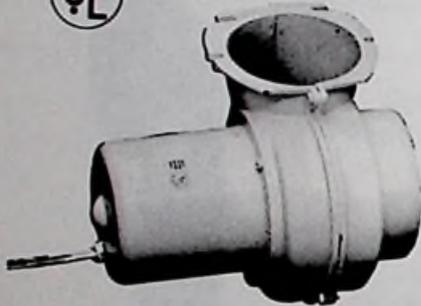


Fig. 791



Fig. 193 No. 1
NON-LOCKING



Fig. 193 No. 2
LOCK FEATURE



MARINE EXHAUST BLOWERS—Fig. 778—12 VOLTS
Designed to meet the requirements of U.S.C.G. Safety Standards—Ignition protected

Heavy Duty Motor with 18 - 8 Non-Magnetic Stainless Shaft - White Delrin Impeller

ALL PERKO BLOWERS ARE RATED FOR CONTINUOUS DUTY OPERATION

For removing fumes from the bilge and engine room, hausting excess heat and cooking odors from the galley. Getting rid of foul air or odors from cargo holds and E

Size No. 1 — Die Cast Housing, Satin Chromium Finish. Clamps are no longer necessary as the 3" duct is threaded. The inlet with a couple of turns. Saves time of installation and cost of clamps.

Size No. 2 — Cast Aluminum Housing, Natural Finish.

| No. | Size Intake Inches | Size Outlet Inches | Dimensions Overall Inches | Maximum Rated C.F.M. | Size Flange Inches |
|-----|--------------------|--------------------|---------------------------|----------------------|--------------------|
| 1 | 3 | 3 | 6-1/2 x 6 x 5 | 117 | 4 |
| 2 | 4 | 3-3/4 | 8 x 8 x 7 | 230 | 4 1/2 |

| No. | Each | Weight Pounds |
|-----|------|---------------|
| 1 | | 3 |
| 2 | | 6 |

MARINE EXHAUST BLOWERS—Fig. 791—12 VOLTS

This is our improved Fig. 778 Blower with the motor enclosed in an additional housing. The stainless steel impeller passes through a neoprene seal and the electric cable through a waterproof rubber gland.

| No. | Size Intake Inches | Size Outlet Inches | Dimensions Overall Inches | Maximum Rated C.F.M. | Flange Inches |
|-----|--------------------|--------------------|---------------------------|----------------------|---------------|
| 1 | 3 | 3 | 7-1/2 x 6 x 5 | 117 | 4 x |
| 2 | 4 | 3-3/4 | 8-1/2 x 8 x 7 | 230 | 4-3/4 |

| No. | Each | Weight Pounds |
|-----|------|---------------|
| 1 | | 3 1/2 |
| 2 | | 6 1/2 |

SPARE PARTS

Motors for Fig. 778 and 791, Specify Fig. 822 and Size. Impellers for Figs. 778 and 791, Specify Fig. 824 and Size.

BLOWER AND IGNITION SWITCHES—Fig. 193

RED PLASTIC HOUSING — IGNITION PROTECTED MAKE BEFORE BREAK FEATURE — SURFACE MOUNT

Protected by U.S. Patent No. 4, 280, 028 and other patents pending.

Capacity: 6 through 32 Volts
250 AMPS Continuous
360 AMPS Intermittent



No. 1 — Without Lock Feature

No. 2 — With Lock Feature

TESTED AND ACCEPTED FOR LABELING AND LISTING BY THE UNDERWRITERS LABORATORIES. INC.

With this switch the engine cannot be started before the blower has been turned on, then before the engine can be stopped the blower must again be started which helps clear out any remaining fumes, before and after engine operations.

| No. | Each | Diameter Inches | Depth Inches |
|-----|------|-----------------|--------------|
| 1 | | 5 1/4 | 2 5/8 |
| 2 | | 5 1/4 | 2 5/8 |

This item is available in Display Pack, See Section L.

EXHAUST DUCT – Fig. 789

Vinyl – with high tensile spring wire coil non-flammable – resists many corrosive chemicals – long life under exposure to sunlight – color is blue.

Supplied only in 25 foot lengths,
2 lengths per carton. Shipped only in full cartons.

| No. | Inside Diameter Inches | Per Length | Weight Per Carton Pounds |
|-----|------------------------|------------|--------------------------|
| 2 | 3 | | 12 |
| 3 | 3-1/2 | | 12 |
| 4 | 4 | | 13 |



MOUNTING ADAPTERS FOR EXHAUST DUCT – Fig. 787

Die Cast Zinc Alloy – Satin Chromium Finish

For Blower size No. 1 only.

For outlet end of duct or to support free end of duct in various installations. Can be fastened thru the base under deck or thru side if preferred.

| Each | Dimensions Inches | Weight Ounces |
|------|-----------------------|---------------|
| | 3-3/4 x 3-1/2 x 1-5/8 | 14 |



COWL VENTILATORS – Fig. 510

Fixed or Swivel Cowl

Round Mouth – With Threaded Deck Plate – Sheet Steel or Sheet Brass – Cast Bronze Deck Plate

Steel ventilators are finished in White Acry-Color outside and inside. Polished brass and chromium plated ventilators are finished in White Acry-Color on the inside only.

Has internal thumb screw to permit turning cowl to desired direction quickly and lock in position.

| Deck Plate Size Inches | White Each | Polished Brass Each | Chromium Plated Each | Diam. Mouth Inches | Height Overall Inches | Weight Pounds |
|------------------------|------------|---------------------|----------------------|--------------------|-----------------------|---------------|
| 4 | | | | 8 | 11 | 4 |
| 5 | | | | 10 | 13 | 6 |
| 6 | | | | 12 | 16 | 9 |
| 8 | | | N/A | 16 | 21 | 15-1/2 |

Spare Deck Plates, See Fig. 526



Fig. 789

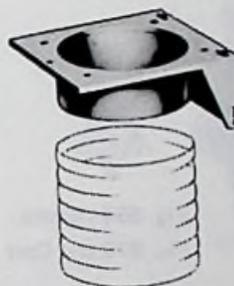


Fig. 787



Fig. 510





Fig. 1312
Chrome Plated Cowl



Fig. 1412 Black Insert In Cowl



Fig. 1312-SP

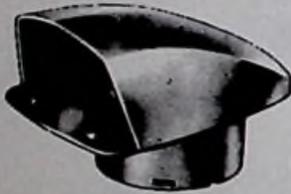


Fig. 654 Bronze
Fig. 870 Die Cast



Fig. 315



Fig. 315-SP



Fig. 339



Fig. 339-SP

"CHROMALEX" COWL VENTILATORS – Figs. 1312 & 1412

Die Cast Zinc Alloy – Chromium Plated

Black Plastic Base – For 3 Inch Duct

Designed for fast mounting.

No Screw Heads will show. Has integral Air Scoop.

No Hose Clamps Necessary – Duct threads into collar.

| Each | Mouth Opening Square Inches | Length Overall Inches | Width Overall Inches | Height Overall Inches | O.E.M. Package | Weight Ounces |
|------|-----------------------------|-----------------------|----------------------|-----------------------|----------------|---------------|
| | 7 | 5-3/4 | 4-3/8 | 2-5/8 | 50 | 11 |

See Section "M" for Our "Chromalex"® III Cowl Ventilator

SKIN PACK – Fig. 1312-SP

One Ventilator Per Card.

Four Cards Per Box.

Weight Per Box, 3 Pounds.

Sold To Trade In Full Box Only.

See Section "L" for Our "Chromalex"®

Skin Pack Cowl Ventilator

FLANGED VENTILATOR WITH COLLAR – Figs. 654 & 870

Fig. 654, Cowl is Cast Bronze, Flange and Collar are Die Cast

Zinc Alloy. Fig. 870 is all Die Cast Zinc Alloy.

CHROMIUM PLATED

Duct Threads into Size 2 Collar. No clamps necessary.

| No. | Fig. 654 Each | Fig. 870 Each | I. D. Duct Inches | Mouth Square Inches | Length Overall Inches | Width Overall Inches | Nominal Weight Ounces |
|-----|---------------|---------------|-------------------|---------------------|-----------------------|----------------------|-----------------------|
| 2 | | | 3 | 7 | 5-1/4 | 4 | 25 |

MIDGET CLAM SHELL VENTILATOR – Fig. 315

Brass – Chromium Plated

| No. | Each | Base Dimensions Inches | Height Opening Inches | Thickness Inches | For Screw No. | Weight Ounces |
|-----|------|------------------------|-----------------------|------------------|---------------|---------------|
| 1 | | 1-5/8x1-1/2 | 7/16 | .040 | 4 | 1/2 |
| 2 | | 2x2 | 9/16 | .064 | 6 | 1-1/4 |

Standard Package, 10 Pieces

SKIN PACK – Fig. 315-SP

No. 2 Size

One Ventilator Per Card,

Twelve Cards Per Box,

Weight Per Box, 1½ Pounds.

Sold To Trade In Full Box Only

CLAM SHELL VENTILATOR – Fig. 339

Brass – Chromium Plated

| Each | Width Opening Inches | Height Opening Inches | Base Dimensions Inches | For Screw No. | Weight Ounces |
|------|----------------------|-----------------------|------------------------|---------------|---------------|
| | 2-1/2 | 1-5/8 | 4 x 3-3/4 | 6 | 5 |

Standard Package, 5 Pieces

SKIN PACK – Fig. 339-SP

One Ventilator Per Card,

Six Cards Per Box,

Weight Per Box, 4 Pounds.

Sold To Trade In Full Box Only.

GAS TANK VENT—Fig. 505

Pressure Cast Bronze — Chromium Plated
With Removable Brass Wire Mesh Flame Arrester.

Designed to meet the requirements of the National Fire Protection Assn. Booklet No. 302 Section No. 323 on vent pipe outlets.

The Flame Arrester is 30 x 30 mesh. The 1/2" I.P.T. is off center to create a water baffle.

| Each | Diameter Flange Inches | O.D. Neck Inches | Length Neck Inches | Weight Ounces |
|------|------------------------|------------------|--------------------|---------------|
| | 2-1/2 | 1-3/16 | 1-1/2 | 6-1/2 |

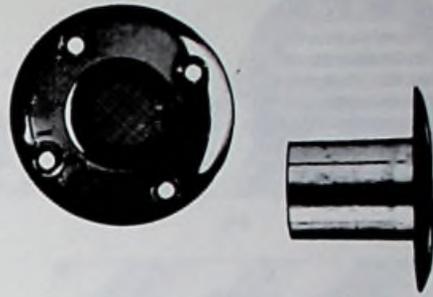


Fig. 505

GAS TANK VENT—Fig. 506

Die Cast Zinc Alloy — Chromium Plated —
With Removable Monel Wire 30 Mesh Screening

| Fig. | Size No. | Each | Hose Size Inches | Max. Wood Thickness Inches | Weight Ounces |
|------|----------|------|------------------|----------------------------|---------------|
| 506 | 4 | | 5/8 | 3/4 | 2 |

Standard Package, 10 Pieces.

Spare Nuts for Fig. 506, Specify Fig. 506-99A.



Fig. 506



Fig. 506-SP

SKIN PACK—Fig. 506-SP

One Vent Per Card.

10 Cards Per Box.

Weight Per Box, 1-1/2 Pounds.

Sold to Trade in full box only.



GAS TANK VENT—Fig. 509

Pressure Cast Bronze — Chromium Plated —
With Removable Monel Wire 30 Mesh Screening

| Fig. | Size No. | Each | Hose Size Inches | Max. Wood Thickness Inches | Weight Ounces |
|------|----------|------|------------------|----------------------------|---------------|
| 509 | 4 | | 5/8 | 3/4 | 4 |
| 509 | 5 | | 3/4 | 5/8 | 6 |

Standard Package, 10 Pieces.

Spare Nuts for Fig. 509, Specify Fig. 509-99A and Size.



Fig. 509

GAS TANK VENTS—Fig. 503

Pressure Cast Bronze — Chromium Plated —
With Removable Monel Wire 30 Mesh Screening

| No. | Each | Neck Pipe Size Inches | Elbow Pipe Size Inches | Max. Wood Thickness Inches | Weight Ounces |
|-----|------|-----------------------|------------------------|----------------------------|---------------|
| 3 | | 3/8 | 3/8x3/8 | 7/8 | 5-1/2 |
| 4 | | 1/2 | 1/2x1/2 | 7/8 | 6 |

Standard Package, 5 Pieces.



Fig. 503

GAS TANK VENTS—Fig. 515

Pressure Cast Bronze — Chromium Plated —
With Removable Monel Wire 30 Mesh Screening

| No. | Each | Pipe Size Inches | Max. Wood Thickness Inches | Weight Ounces |
|-----|------|------------------|----------------------------|---------------|
| 3 | | 3/8 | 5/8 | 3-3/4 |
| 4 | | 1/2 | 5/8 | 5-1/4 |

Standard Package, 10 Pieces.

Spare Nuts, See Fig. 75.



Fig. 515

All above vents are designed to meet the requirements of
 USCG Safety Standards January 31, 1977
 for gasoline fuel systems.



Fig. 330

LOCKER VENTILATORS – Fig. 330

18-8 Stainless Steel – Polished

| No. | Each | Diameter Inches | For Screw No. | Weight Ounces |
|-----|------|-----------------|---------------|---------------|
| 1 | | 2-1/2 | 6 | 1 |
| 2 | | 3-1/4 | 6 | 2 |

Standard Package, 10 Pieces



Fig. 330-SP

SKIN PACK – Fig. 330-SP

No. 2 Size

One Ventilator Per Card,
Twelve Cards Per Box,
Weight Per Box, 1½ Pounds.

Sold To Trade In Full Box Only.

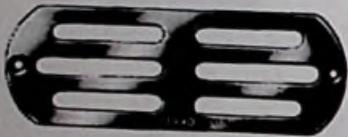


Fig. 550

TRANSOM OR LOCKER VENTILATOR – Fig. 550

18-8 Stainless Steel – Polished

| Each | Dimensions Inches | For Screw No. | Weight Ounces |
|------|-------------------|---------------|---------------|
| | 7 x 2-1/2 | 8 | 3 |

Standard Package, 10 Pieces

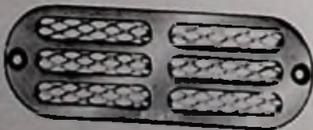


Fig. 1271

TRANSOM OR LOCKER VENTILATOR – Fig. 1271

Die Cast Zinc Alloy – Chromium Plated

With Grill Type Screen

| Each | Dimensions Inches | For Screw No. | Weight Ounces |
|------|-------------------|---------------|---------------|
| | 6 x 2 | 8 | 3 |

Standard Package, 10 Pieces

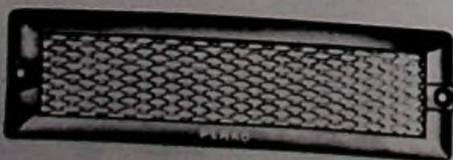


Fig. 1238

TRANSOM OR LOCKER VENTILATOR – Fig. 1238

Die Cast Zinc Alloy – Chromium Plated –

With Grill Type Screen

| Each | Dimensions Inches | For Screw No. | Weight Ounces |
|------|-------------------|---------------|---------------|
| | 8-3/8 x 2-1/4 | 8 | 3 |

Standard Package, 10 Pieces

LOUVER VENTILATORS—Fig. 334

Stainless Steel 18-8 Alloy No. 304
Polished

| No. | Each | Size Inches | Length Louvers Inches | Weight Ounces |
|-----|------|---------------|-----------------------|---------------|
| 2 | | 3 x 2-1/2 | 2 | 1 |
| 2-A | | 4 x 2-1/2 | 3 | 1-1/2 |
| 4 | | 5-1/2 x 2-1/2 | 2 | 2 |
| 4-A | | 7-1/2 x 2-1/2 | 3 | 2-1/2 |
| 6 | | 8 x 2-1/2 | 2 | 3 |
| 6-A | | 11 x 2-1/2 | 3 | 4 |

Standard Package, 10 Pieces per size



#2



#4

Fig. 334



#6



LOUVER VENTILATORS—Fig. 335

Stainless Steel 18-8 Alloy No. 304
Polished

| No. | Each | Size Inches | Length Louvers Inches | Weight Ounces |
|-----|------|---------------|-----------------------|---------------|
| 3 | | 3 x 3 | 2 | 1-1/2 |
| 3-A | | 4 x 3-1/2 | 3 | 2 |
| 6 | | 5-1/2 x 3 | 2 | 2-1/2 |
| 6-A | | 7-1/2 x 3-1/2 | 3 | 3-1/4 |
| 9 | | 8 x 3 | 2 | 3-1/2 |
| 9-A | | 11 x 3-1/2 | 3 | 4 |

Standard Package, 10 Pieces Per size



#3



#6

Fig. 335



#9



LOUVER VENTILATORS—Fig. 336

Stainless Steel 18-8 Alloy No. 304
Polished

| No. | Each | Size Inches | Length Louvers Inches | Weight Ounces |
|-----|------|-------------|-----------------------|---------------|
| 4 | | 3-3/4 x 3 | 2 | 1-3/4 |
| 4-A | | 4-3/8 x 4 | 3 | 2 |
| 5 | | 4-1/2 x 3 | 2 | 2 |
| 5-A | | 5-3/8 x 4 | 3 | 2-1/4 |
| 6 | | 5-1/4 x 3 | 2 | 2-1/2 |
| 6-A | | 6-3/8 x 4 | 3 | 3 |

Standard Package, 10 Pieces Per size



#4



#6

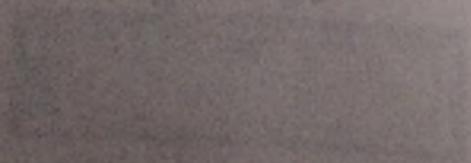
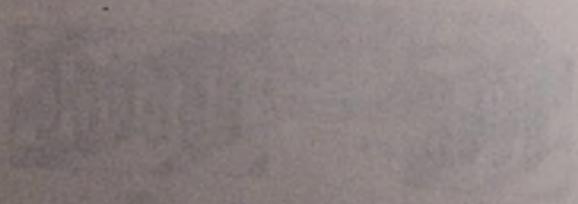
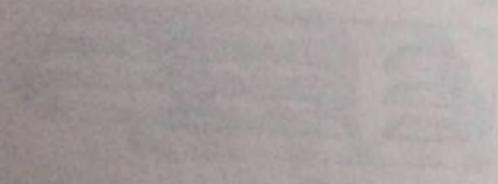
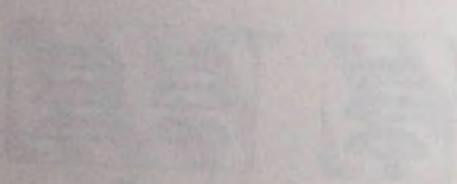
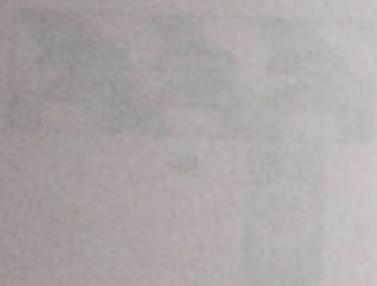
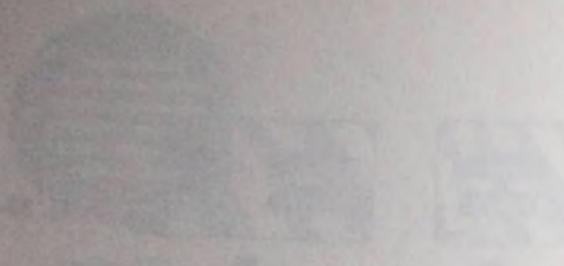
Fig. 336



#5

BUY STANDARD PACKAGES

APPENDIX



THESE FIGURES ILLUSTRATE THE SEVERAL TYPES OF JOINTS WHICH MAY BE USED IN THE CONSTRUCTION OF A BRIDGE. THE FIGURES ARE CLASSIFIED AS FOLLOWS:

1. **FIXED JOINTS** - These joints are used where the bridge is to be rigidly connected to the abutments or piers. They are capable of resisting both longitudinal and transverse forces.

2. **SLIDING JOINTS** - These joints are used where the bridge is to be free to slide longitudinally on the abutments or piers. They are capable of resisting only transverse forces.

3. **ROLLING JOINTS** - These joints are used where the bridge is to be free to slide longitudinally on the abutments or piers. They are capable of resisting only transverse forces.

4. **PIVOT JOINTS** - These joints are used where the bridge is to be free to rotate about a point. They are capable of resisting only longitudinal forces.

| JOINT TYPE | RESISTANCE TO LONGITUDINAL FORCE | RESISTANCE TO TRANSVERSE FORCE |
|---------------|----------------------------------|--------------------------------|
| Fixed Joint | Yes | Yes |
| Sliding Joint | No | Yes |
| Rolling Joint | No | Yes |
| Pivot Joint | Yes | No |

THESE FIGURES ILLUSTRATE THE SEVERAL TYPES OF JOINTS WHICH MAY BE USED IN THE CONSTRUCTION OF A BRIDGE. THE FIGURES ARE CLASSIFIED AS FOLLOWS:

1. **FIXED JOINTS** - These joints are used where the bridge is to be rigidly connected to the abutments or piers. They are capable of resisting both longitudinal and transverse forces.

2. **SLIDING JOINTS** - These joints are used where the bridge is to be free to slide longitudinally on the abutments or piers. They are capable of resisting only transverse forces.

3. **ROLLING JOINTS** - These joints are used where the bridge is to be free to slide longitudinally on the abutments or piers. They are capable of resisting only transverse forces.

4. **PIVOT JOINTS** - These joints are used where the bridge is to be free to rotate about a point. They are capable of resisting only longitudinal forces.

| JOINT TYPE | RESISTANCE TO LONGITUDINAL FORCE | RESISTANCE TO TRANSVERSE FORCE |
|---------------|----------------------------------|--------------------------------|
| Fixed Joint | Yes | Yes |
| Sliding Joint | No | Yes |
| Rolling Joint | No | Yes |
| Pivot Joint | Yes | No |

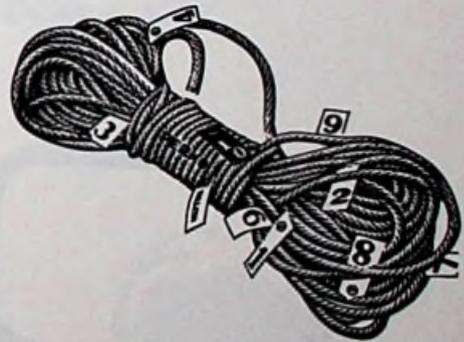
PERKO®

**windows and
portlights**

sinks

lead lines

**bells
fog horns
etc.**



MANUFACTURED BY PERKO, INC., 16490 N. W. 13TH AVE., P.O. BOX 64000-D, MIAMI, FLORIDA 33164

FOR COMPLETE LINE SEE CATALOG NO. 240

MARINE WINDOWS WITH SPIGOT – Fig. 796

Cast Bronze or Aluminum – Plain Finish
Watertight – Two Fastenings – Clear Glass

Screen and Finishing Frame Not Included
See Figs. 812, 813 and 814.

Length of spigot is 2 inches. Glass thickness is 1/4 inch.



Fig. 796

| No. | Size of Opening Inches | Plain Bronze Each | Plain Aluminum Each | Weight Pounds |
|-----|---|--|----------------------|-------------------------------|
| 1 | 5x12 | | | |
| 2 | 7x16 | | | |
| | Dimensions Outside of Frame Inches | Dimensions Outside of Spigot Inches | Bronze Weight Pounds | Aluminum Weight Pounds |
| 1 | 7 ⁷ / ₈ x 14 ⁷ / ₈ | 5 ³ / ₈ x 12-7/16 | 13 | 5 |
| 2 | 10 ¹ / ₈ x 19 ¹ / ₄ | 7 ¹ / ₂ x 16 ¹ / ₂ | 21 | 7 ¹ / ₂ |

Spare Wing Nuts for Bronze Windows, See Fig. 453 No. 4.
Spare Wing Nuts for Aluminum Windows, Specify Fig. 796-99A



MARINE WINDOWS WITHOUT SPIGOT – Fig. 803

Cast Bronze or Aluminum – Plain Finish
Watertight – Two Fastenings – Clear Glass

Screen and Finishing Frame Not Included
See Figs. 812, 813 and 814

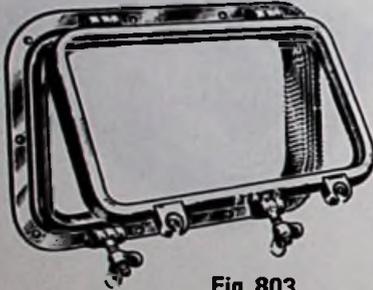


Fig. 803

| No. | Size of Opening Inches | Plain Bronze Each | Plain Aluminum Each | Bronze Weight Pounds | Aluminum Weight Pounds |
|-----|------------------------|-------------------|---------------------|--------------------------------|------------------------|
| 1 | 5 x 12 | | | 10 ¹ / ₂ | 4 |
| 2 | 7 x 16 | | | 16 | 6 |

For Frame Dimensions, See Fig. 796

Spare Wing Nuts for Bronze Windows, See Fig. 453 No. 4.
Spare Wing Nuts for Aluminum Windows, Specify Fig. 803-99A



OUTSIDE FINISHING FRAMES – Fig. 812

Cast Bronze or Aluminum – Plain Finish

For Figs. 796 or 803

Countersunk Screw Holes Placed as Illustrated. Not in Line With Mounting Holes of Window Frame.

These Fit Over the Outside of the Spigot on Fig. 796.

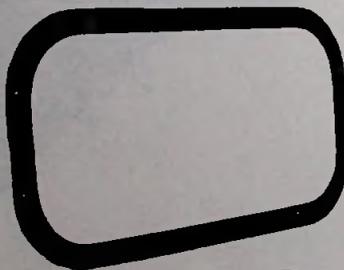


Fig. 812

| No. | Bronze Each | Aluminum Each | Inside Dimensions Inches | Outside Dimensions Inches | Bronze Weight Pounds | Aluminum Weight Pounds |
|-----|-------------|---------------|--|--|-------------------------------|------------------------|
| 1 | | | 5 ¹ / ₂ x 12 ¹ / ₂ | 7 ¹ / ₄ x 14 ¹ / ₄ | 1 ¹ / ₂ | |
| 2 | | | 7 ¹ / ₂ x 16 ¹ / ₂ | 9 ¹ / ₄ x 18 ¹ / ₄ | 2 ¹ / ₄ | |



OUTSIDE BOLT-THRU FRAMES – Fig. 813

Cast Bronze or Aluminum – Plain Finish.

For Figs. 796 or 803

Bolt Holes in Line With Mounting Holes of Window Frame.
These Fit Over the Outside of the Spigot on Fig. 796.



Fig. 813

| No. | Bronze Each | Aluminum Each | Inside Dimensions Inches | Outside Dimensions Inches | Bronze Weight Pounds | Aluminum Weight Pounds |
|-----|-------------|---------------|--|---|-------------------------------|------------------------|
| 1 | | | 5 ¹ / ₂ x 12 ¹ / ₂ | 7 ³ / ₄ x 14 ³ / ₄ | 2 ³ / ₈ | |
| 2 | | | 7 ¹ / ₂ x 16 ¹ / ₂ | 10 ¹ / ₈ x 19 ¹ / ₈ | 3 ¹ / ₂ | |

ROUND PORTLIGHTS—Fig. 317

Cast Bronze — Glass Area Is Same Diameter as Opening
All Sizes Are Grooved For Screens

| Diam. Opening Inches | Plain Bronze Each | Diam. Clear Glass Inches | Outside Diam. Frame Inches | Thickness Glass Inches | O.D. Spigot Inches | Weight Pounds |
|----------------------|-------------------|--------------------------|----------------------------|------------------------|--------------------|---------------|
| 4 | | 4 | 7 | 1/4 | 4-3/8 | 3-3/4 |
| 5 | | 5 | 8 | 1/4 | 5-7/16 | 5 |
| 6 | | 6 | 9 | 1/4 | 6-3/8 | 6-1/2 |
| *8 | | 8 | 11-5/8 | 1/4 | 8-1/2 | 10-1/4 |

*8" size has two dog bolts.

Length of Spigot for All Sizes is 3/8"

Screen not included, see fig. 442



MORE-AIR PORTLIGHTS—Fig. 157

Cast Bronze — Complete With Outside Finishing Ring — Glass Area Is Same Diameter As Opening — All Sizes Are Grooved For Screens

Overall Length of Spigot without Flange is 1 1/4".
Length of Spigot Between Flange and Ring is 1 1/2".

| Opening Inches | Plain Bronze Each | Outside Diameter Frame Inches | Thickness Glass Inches | O.D. Spigot Inches | Weight Pounds |
|----------------|-------------------|-------------------------------|------------------------|--------------------|---------------|
| 4 | | 7 | 1/4 | 4-3/8 | 4-3/4 |
| 5 | | 8 | 1/4 | 5-7/16 | 7-1/4 |
| 6 | | 9 | 1/4 | 6-3/8 | 8-1/2 |
| 8 | | 11-5/8 | 1/4 | 8-1/2 | 12-3/4 |

Spare Finishing Rings, Specify Fig. 157-99A.

Spare Wing Nuts for Figs. 157 and 317 4", 5", 6", See Fig. 453 No. 4.
8" See Fig. 453 No. 5.

Screen not included, see Fig. 442



DECK LIGHTS—Fig. 838

Cast Bronze — Plain or Chrome Finish — Clear Glass

| Diameter Glass Inches | Plain Bronze Each | Chrome Plated Each | Thickness Glass Inches | O.D. Spigot Inches | Outside Diam. Frame Inches | Length Spigot Inches | Weight Pounds |
|-----------------------|-------------------|--------------------|------------------------|--------------------|----------------------------|----------------------|---------------|
| 4 | | | 1/4 | 4-7/8 | 6 | 11/16 | 1-3/4 |
| 5 | | | 1/4 | 5-7/16 | 7-1/2 | 5/8 | 2 |
| 6 | | | 1/4 | 6-7/8 | 8-1/4 | 5/8 | 2-3/4 |
| *8 | | | 1/4 | 9-1/16 | 11 | 1-3/16 | 5-1/4 |

*8 inch size has Tempered Glass.



ROUND PORTLIGHT SCREENS—Fig. 442

Brass — White Acry-Color Finish — Spring Type

For Figs. 157 & 317 Portlights

| For Size Opening Inches | Each | For Size Opening Inches | Each |
|-------------------------|------|-------------------------|------|
| 4 | | 6 | |
| 5 | | 8 | |



SCREENS FOR MARINE WINDOWS — Fig. 814

For Figs. 796 & 803

Brass — White Acry-Color Finish

| No. | Each | Dimensions Inches | Weight Ounces |
|-----|------|-------------------|---------------|
| 1 | | 5 x 12 | 5 |
| 2 | | 7 x 16 | 7 |



Fig. 317



Fig. 157



Fig. 838



Fig. 442



Fig. 814



Fig. 441

PORTLIGHT CHAINS—Fig. 441

Stainless Steel Chain — Chromium Plated Brass Fittings.

| Each | Length Inches | Length Strap Inches | Weight Ounces |
|------|------------------|---------------------------|------------------|
| | 7 | 1 7/8 | 2 |

Standard Package, 5 Pieces.



Fig. 461

RUBBER FOR PORTLIGHTS AND WINDOWS—Fig. 461

Size
1/4" x 3/8" x 1/2"

Per Length

Supplied only in 10 foot lengths.

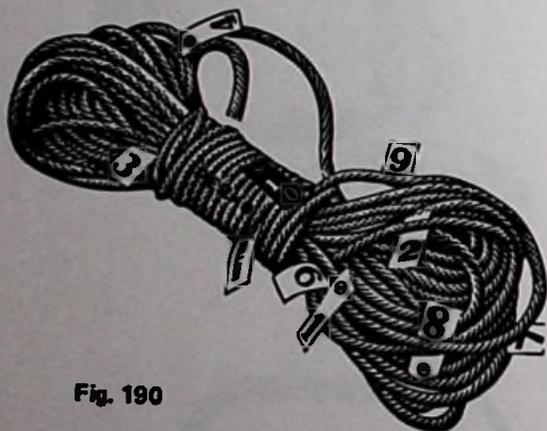


Fig. 190

"NEPTUNE" MARKED LEAD LINES—Fig. 190

Vinylite Plastic Markers — 5/16 Inch Dacron Line

Instead of the old cryptic markings, this line makes use of colored plastic markers printed with numerals in contrasting colors. These markers are soft and resilient, unaffected by salt, grease, oil and sunlight. The Neptune Line was widely used by the Navy, Army and U.S. Maritime Commission. It is also used by skin divers with a float to mark the depth of a dive.

| Length Fathoms | Each | Length Fathoms | Each |
|-------------------|------|-------------------|------|
| 7 | | 20 | |
| 10 | | 25 | |
| 15 | | 30 | |

NOTE: 7 and 10 fathom lines are marked every fathom and half a fathom, the latter indicated by a yellow strip. Longer lines marked according to Navy standard . . . i.e. 2 - 3 - 5 - 7 - 10 - 13 - 15 - 17 - 20 fathoms and every 5 fathoms thereafter.



Fig. 940

SOUNDING LEADS—Fig. 940

All weights from 2 to 10 pounds inclusive carried in stock

PER POUND —

ROUND STAINLESS STEEL SINKS – Fig. 391

Deep Drawn, Seamless Construction –
20 Gauge 18-8 – Polished Finish – Self Rimming

| No. | Each | Diameter Inside Inches | Diameter Outside Rim Inches | Depth Inside Inches | Weight Pounds |
|-----|------|------------------------|-----------------------------|---------------------|---------------|
| 6 | | 11-3/4 | 13-3/4 | 5 | 2 |



Fig. 391

Finishing frame not required.

Drain fitting not included, see Fig. 586.



STAINLESS STEEL SINKS – Fig. 392

Deep Drawn, Seamless Construction –
20 Gauge 18-8 – Satin Finish – Self Rimming

Bottom heavily undercoated for sound deadening.

| No. | Each | Size Inside Inches | Size Outside Rim Inches | Depth Inside Inches | Weight Pounds |
|-----|------|--------------------|-------------------------|---------------------|---------------|
| 1 | | 10 x 14 | 13 x 17 | 6-1/2 | 5 |
| 2 | | 14 x 15 | 17 x 19 | 7 | 6-1/2 |



Fig. 392

Finishing frames not required.

Drain fitting not included, see Fig. 357.



DRAIN FITTINGS – Figs. 357 and 586

Fig. 357 Stainless Steel For use with Fig. 392

Fig. 586 Brass-Chromium Plated For use with Fig. 391

| Fig. | Each | Opening In Sink Inches | Diameter Tail Piece Inches | Weight Ounces |
|------|------|------------------------|----------------------------|---------------|
| 357 | | 3-1/2 | 1-1/2 | 20 |
| 586 | | 2 | 1-1/2 | 10 |



Fig. 586



Fig. 357



SEAGOING ASH TRAY—Fig. 795

All Brass – Chromium Plated
Swing Type – Removable

| Each | Dimensions Mounting Plate Inches | Overall Height Inches | Weight Ounces |
|------|----------------------------------|-----------------------|---------------|
| | 1-3/4 x 1-1/4 | 3 | 5-3/4 |

Spare Wall Plate, Specify Fig. 166, Chrome.

Spare Acorn Nut, See Fig. 465 No. 2 .



Fig. 795

THE 8, 10, 12 AND 14 INCH BELLS LISTED ON THIS PAGE HAVE BEEN REVIEWED BY THE U.S. COAST GUARD AND COMPLY WITH C.G. 169 REGULATIONS FOR SOUND SIGNAL APPLIANCE AS REQUIRED BY ANNEX III PARAGRAPH 2 OF THE 72 COLREGS. THE 8 AND 10 INCH SIZES ARE FOR USE ON VESSELS UNDER 20 METERS IN LENGTH. THE 12 AND 14 INCH SIZES ARE FOR USE ON ANY SIZE VESSEL.



CAST BRONZE FOG BELLS—Fig. 420

Medium Weight — With Removable Bracket

| Bottom Diameter Inches | Polished Bronze Each | Chromium Plated Each | Height Overall Inches | Weight Pcs |
|------------------------|----------------------|----------------------|-----------------------|------------|
| 6 | | | 5 | 3 |
| 8 | | | 6-1/8 | 6 |



CAST BRONZE FOG BELLS—Fig. 150

Heavy Weight — With Removable Bracket

| Bottom Diameter Inches | Plain Bronze Each | Polished Bronze Each | Chromium Plated Each | Height Overall Inches | Weight Pcs |
|------------------------|-------------------|----------------------|----------------------|-----------------------|------------|
| 8 | | | | 8 | 9 |
| 10 | | | | 10-1/2 | 16 |
| 12 | | | | 12 | 31 |

Now Available in Plain Bronze.

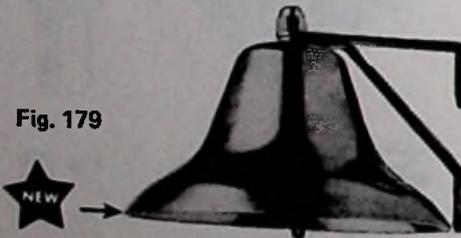


CAST BRONZE FOG BELL—Fig. 158

Heavy Weight — With Stationary Bracket

| Bottom Diameter Inches | Plain Bronze Each | Polished Bronze Each | Chromium Plated Each | Height Overall Inches | Weight Pcs |
|------------------------|-------------------|----------------------|----------------------|-----------------------|------------|
| 12 | | | | 12 | 31 |
| 14 | | | | 13 | 35 |

Now Available in Plain Bronze.



BRASS FOG BELL—Fig. 179

Light Weight — With Stationary Bracket

| Bottom Diameter Inches | Plain Brass Each | Height Overall Inches | Weight Pcs |
|------------------------|------------------|-----------------------|------------|
| 12 | | 8 | |

SPARE PARTS
SPECIFY SPARE PART NO., SIZE and FINISH

| ARMS | | WALL PLATES | | CLAPPERS | | EYE BOLTS | | ACORN NUTS | |
|------------------------|----------------|---------------|----------------|--------------------|----------------|-------------------|----------------|------------|----------------|
| Figure No. | Spare Part No. | Figure No. | Spare Part No. | Figure No. | Spare Part No. | Figure No. | Spare Part No. | Figure No. | Spare Part No. |
| 420-6" | 420-99A-6" | 420-6" | 127 | 420-6" | 153 | 420-6" | 113 | 420-6" | 40 |
| 420-8" | 171 | 420-8" | 127 | 420-8" | 144 | 420-8" | 123 | 420-8" | 40 |
| 150-8" | 171 | 150-8" | 127 | 150-8" | 144 | 150-8" | 123 | 150-8" | 41 |
| 150-10" | 150-99A-10" | 150-10" | 150-99B-10" | 150-10" | 150-99C | 150-10" | 150-99D | 150-10" | 41 |
| 150-12" | 150-99A-12" | 150-12" | 150-99B-12" | *150-12" | 172 | *150-12" | 172 | 150-12" | 41 |
| *158-12" | 158-99A-12" | *158-12" | 158-99A-12" | *158-12" | 172 | *158-12" | 172 | 158-12" | 41 |
| *158-14" | 158-99A-14" | *158-14" | 158-99A-14" | *158-14" | 172 | *158-14" | 172 | 158-14" | 41 |
| *179 | 179-99A | *179 | 179-99A | 179 | 144 | 179 | 179-99B | 179 | 41 |
| *Includes Wall Bracket | | *Includes Arm | | *Includes Eye Bolt | | *Includes Clapper | | | |

BRASS FOG BELLS – Fig. 159

With Removable Arm and Wall Plate
Clapper has short arm for Lanyard.

| Bottom Diameter Inches | Plain Brass Each | Polished Brass Each | Chromium Plated Each | Height Overall Inches | Weight Pounds |
|------------------------|------------------|---------------------|----------------------|-----------------------|---------------|
| 6 | | | | 4 | 1 |
| 8 | | | | 5 | 2-1/4 |



Fig. 159

SPARE PARTS – SPECIFY FINISH

| | Plain Each | Polished Each | Chrome Each |
|--|------------|---------------|-------------|
| Arm Only, Fig. 159-99 A | | | |
| 6" Clapper Only, Fig. 159-99 B | | | |
| 8" Clapper Only, Fig. 153 | | | |
| Eye Bolt Only,, Fig. 113 | | | |
| Wall Plate Only, Fig. 166 | | | |
| Acorn Nut Only, Specify Fig. 465 No. 4 | | | |

SKIN PACK – Fig. 159-SP

6 Inch – Chromium Plated
One Bell Per Card.
Two Cards Per Box.
Weight Per Box, 2 3/4 Pounds.
Sold To Trade In Full Box Only



Fig. 159-SP

FOG HORNS– Fig. 162

Aluminum – Durable White Baked Enamel Finish –
Nylon Mouthpiece
Lightweight Fog Horn that is attractive and practical

| Each | Length Inches | Weight Ounces |
|------|---------------|---------------|
| | 12-1/2 | 6 |



Fig. 162

SKIN PACK – Fig. 162-SP

One Horn Per Card.
Six Cards Per Box.
Weight Per Box 2 1/2 Pounds.
Sold To Trade in Full Box Only



Fig. 162-SP

TRIPLEX MOTOR BOAT WHISTLE– Fig. 167

| Each | Length Overall Inches | Width Overall Inches | Standard Package | Weight Per Dozen Pounds |
|------|-----------------------|----------------------|------------------|-------------------------|
| | 6 | 1-3/4 | 10 | 1 |



Fig. 167

SKIN PACK – Fig. 167-SP

One Whistle Per Card.
Twelve Cards Per Box,
Weight Per Box, 1 1/2 Pounds.
Sold To Trade In Full Box Only.

Fig. 167-SP



SIGNAL WHISTLE– Fig. 349

| Each | Length Inches | Width Inches | Standard Package | Weight Per Dozen Ounces |
|------|---------------|--------------|------------------|-------------------------|
| | 2-1/4 | 3/4 | 10 | 8 |



Fig. 349

SKIN PACK – Fig. 349-SP

One Whistle Per Card.
Ten Cards Per Box.
Weight Per Box, 1-1/4 Pounds.
Sold To Trade In Full Box Only.



Fig. 349-SP



COURSE PROTRACTOR – Fig. 706

Indicates Course and Reverse Course – Transparent

A precision instrument that is accurate in detail. *PO* depths etc. are clearly visible through protractor. The various mileage scales used on all coastal and harbor charts extend on short end to show reverse course.

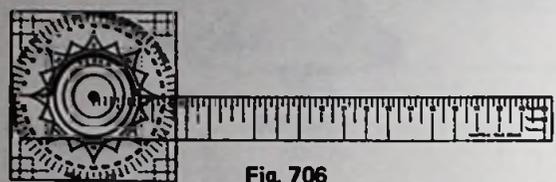


Fig. 706

| Each | Extreme Length Inches | Diam. Compass Card Inches |
|------|-----------------------|---------------------------|
| | 21-1/2 | 6-3/8 |

LUCITE PARALLEL RULES—Fig. 630

Transparent – Aluminum Bars – Heavy Type

Chart data shows clearly through transparent lucite. type with finger grips, and corprene non-sliding discs.

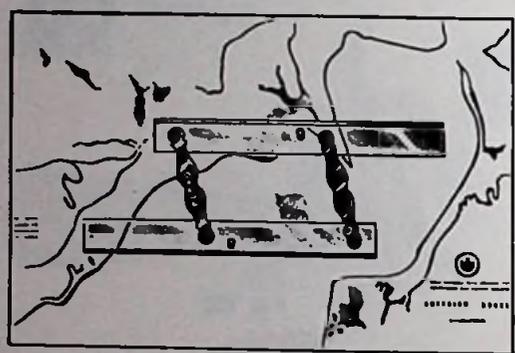


Fig. 630

| Length Closed Inches | Each | Width Closed Inches | Thickness Inches |
|----------------------|------|---------------------|------------------|
| 12 | | 2-1/2 | 3/16 |
| 15 | | 2-1/2 | 3/16 |
| 18 | | 2-1/2 | 3/16 |

DIVIDERS—Fig. 693

Brass – Chromium Plated – Navy Type

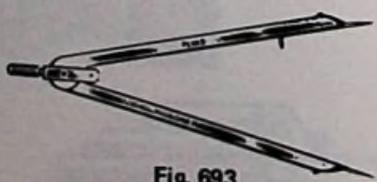


Fig. 693

- No.
- 1 Length, 5-1/2 inches
 - 2 Length, 7 inches

No. 2 size has straightening device and reversible points. Standard Package, 5 Pieces.

YACHT LOG BOOK—Fig. 708

112 Pages – Water Resistant Binding

Cover is hard plastic coated Kivar. Water resistant and durable. Navy blue with gold lettering. In addition to page log data, these books contain useful information such as extracts from Bowditch Practical Navigator on symbols for weather, state of sea, cloud formations, force of wind, log and marine telephone log.

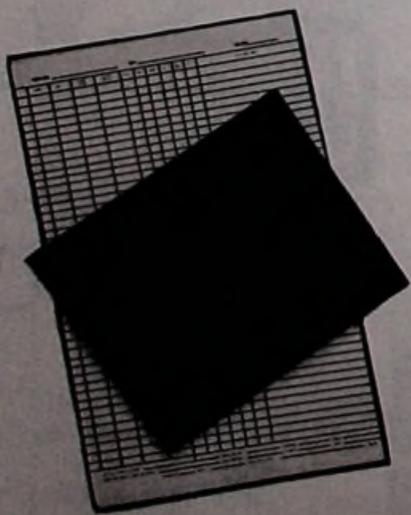


Fig. 708

Weight, 20 Ounces
 Each
 Standard Package, 5 pieces.

PERKO[®]

steering equipment

shaft fittings

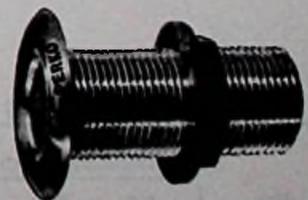
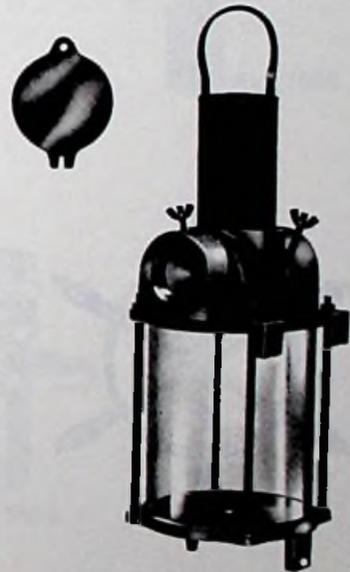
thru hulls

water strainers

fuel filters

underwater fittings

pumps, drainers



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MAHOGANY STEERING WHEELS—Fig. 657

With Bronze Hub — Chromium Plated

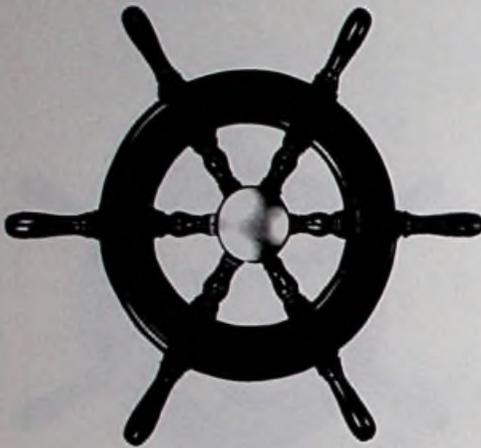


Fig. 657

These 6 spoke wheels are beautifully finished with four coats of marine spar varnish, hand rubbed. The mounting nut is hidden behind a chromium plated cap.

These wheels are very strong and well engineered. The spokes are held firmly within the hub by integral spacers and partitions. Packed in individual cartons.

| No. | Nominal Size Inches | Actual Diameter Overall Inches | For Shaft Inches | Weight Pounds |
|-----|---------------------|--------------------------------|------------------|---------------|
| 1 | 18 | 17-1/4 | 3/4 | 5 |
| 2 | 18 | 17-1/4 | 1 | 5 |
| 3 | 20 | 19-1/4 | 3/4 | 5 |
| 4 | 20 | 19-1/4 | 1 | 5 |
| 5 | 22 | 22-1/4 | 1 | 6-1/2 |
| 6 | 24 | 24-3/8 | 1 | 9 |
| 7 | 28 | 28 | 1 | 12 |
| 8 | 30 | 30 | 1 | 15 |

3/4 inch bore on 18 and 20 inch wheels is tapered. 1 inch bore is straight.

Length bore, 18", 20", 22" sizes, is 1-1/4"
 Length bore, 24", 28", 30" sizes, is 1-5/8"



STEERING WHEELS—Fig. 914

Brass — Wood Grips — Round Spokes — 1/4 Inch Keyway



Fig. 914

| No. | Diam. Overall Inches | Polished Brass Each | Chromium Plated Each | For Shaft Inches | Length Hub Inches | Weight Pounds |
|-----|----------------------|---------------------|----------------------|------------------|-------------------|---------------|
| 1 | 16 | | | 3/4 | 2-1/8 | 4-3/4 |
| 2 | 16 | | | 1 | 2-1/8 | 4-3/4 |
| 3 | 20 | | | 3/4 | 2-1/8 | 6-1/4 |
| 4 | 20 | | | 1 | 2-1/8 | 6-1/4 |
| 5 | 24 | | | 1 | 2-1/8 | 7 |

Spare Grips, Specify Fig. 670, No. 2
 Spare Nuts For Grips, See Fig. 465 No. 4

SIZE NUMBERS FOR SHAFT AND PIPE STANDARDIZED AS FOLLOWS

| SHAFT SIZES, INCHES | | | | PIPE SIZES, INCHES | | | |
|---------------------|-------|-----|-------|--------------------|------|-----|------|
| No. | Size | No. | Size | No. | Size | No. | Size |
| 1 | 1/2 | 7 | 1-1/4 | 1 | 1/8 | 11 | 3 |
| 2 | 5/8 | 8 | 1-3/8 | 2 | 1/4 | 12 | 4 |
| 3 | 3/4 | 9 | 1-1/2 | 3 | 3/8 | 13 | 5 |
| 4 | 7/8 | 10 | 1-3/4 | 4 | 1/2 | 14 | 6 |
| 5 | 1 | 11 | 2 | 5 | 3/4 | 15 | 8 |
| 6 | 1-1/8 | 12 | 2-1/4 | | | | |

HYSPEED RUDDERS— Fig. 818

Cast Manganese Bronze

Constructed in perfectly balanced proportion. Designed for express cruisers, runabouts, speedboats and all boats not carrying a skag

| No. | Each | Dimension Inches | | | | Weight Pounds |
|-----|------|------------------|----|-------|----|---------------|
| | | A | B | C | D | |
| 5 | | 9 | 12 | 1 | 16 | 13 |
| 7 | | 12 | 16 | 1-1/4 | 18 | 23 |

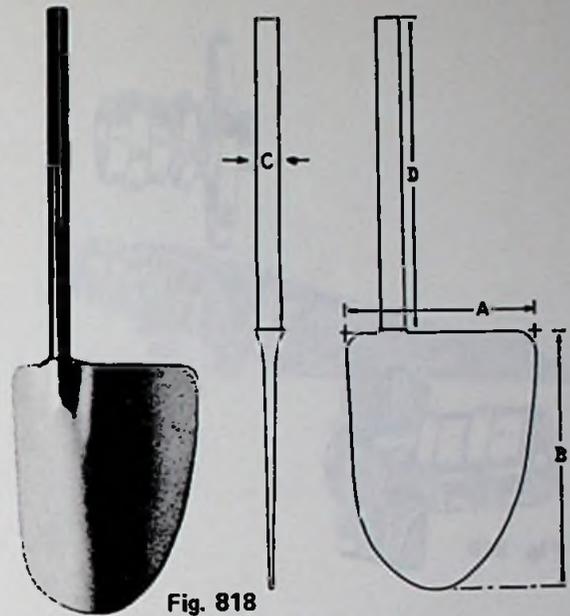


Fig. 818

RUDDER STUFFING BOXES—Fig. 1088

Cast Bronze — Plain — With Square Flange — Four Bolt Holes

| No. | For Diam. Stock Inches | Each | Size Flange Inches | Overall Length Bearing Inches | Drilled For Fastening Inches | Weight Pounds |
|-----|------------------------|------|--------------------|-------------------------------|------------------------------|---------------|
| 5 | 1 | | 3-3/4x3-3/4 | 5-1/4 | 3/8 | 3 |
| 7 | 1-1/4 | | 3-3/4x3-3/4 | 6-1/4 | 3/8 | 4 |

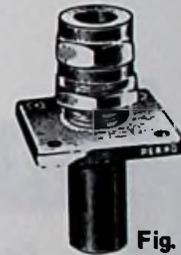


Fig. 1088

RUDDER STUFFING BOXES—Fig. 1089

Cast Bronze - Plain — With Oval Flange — Two Bolt Holes

| No. | For Diam. Stock Inches | Each | Size Flange Inches | Length Bearing Inches | Drilled for Fastening Inches | Weight Pounds |
|-----|------------------------|------|--------------------|-----------------------|------------------------------|---------------|
| 5 | 1 | | 4-1/4x2-1/4 | 5-3/8 | 3/8 | 3-1/4 |
| 7 | 1-1/4 | | 5-3/4x3 | 6-3/8 | 1/2 | 5-1/2 |
| 9 | 1-1/2 | | 6-1/2x3-1/2 | 6-3/4 | 1/2 | 6-3/4 |



Fig. 1089

BRONZE COLLARS—Fig. 815

| No. | For Diam. Stock Inches | Each | Outside Diameter Inches | Thickness Inches | Weight Ounces |
|-----|------------------------|------|-------------------------|------------------|---------------|
| 5 | 1 | | 1-3/4 | 15/16 | 7 |
| 7 | 1-1/4 | | 2-1/8 | 15/16 | 11 |
| 9 | 1-1/2 | | 2-1/2 | 1-1/8 | 19 |



Fig. 815



Fig. 320

STUFFING BOXES—Fig. 320

Cast Bronze — Regular

| No. | Shaft Size Inches | Each | Size Flange Inches | For Diam. Bolt Inches | Length Bearing Inches | Weight Pounds |
|-----|-------------------|------|--------------------|-----------------------|-----------------------|---------------|
| 3 | 3/4 | | 4 x 1-3/4 | 3/8 | 2-1/8 | 1-1/8 |
| 5 | 1 | | 4-1/4x2-1/8 | 7/16 | 2-5/8 | 1-3/4 |
| 6 | 1-1/8 | | 4-7/8x2-1/8 | 1/2 | 2-7/8 | 2-1/4 |
| 7 | 1-1/4 | | 5-3/4x2-3/8 | 1/2 | 2-7/8 | 3 |
| 9 | 1-1/2 | | 6-1/2x3 | 1/2 | 3 | 3-1/2 |



EXTRA HEAVY STUFFING BOXES—Fig. 819

Rectangular Flange — Cast Bronze

| No. | Shaft Size Inches | Each | Size Flange Inches | For Diam. Bolt Inches | Length Bearing Inches | Weight Pounds |
|-----|-------------------|------|--------------------|-----------------------|-----------------------|---------------|
| 7 | 1-1/4 | | 5-5/8x3-5/8 | 1/2 | 4-1/4 | 6-1/2 |
| 9 | 1-1/2 | | 6 x 4-3/8 | 1/2 | 5-1/2 | 10 |
| 10 | 1-3/4 | | 6-1/2x4-1/2 | 5/8 | 7 | 13-1/2 |
| 11 | 2 | | 7-3/4x5 | 5/8 | 7-3/8 | 15-1/2 |



SELF-ALIGNING STUFFING BOXES—Fig. 734

Cast Bronze — Rectangular Flange

| No. | For Shaft Inches | Each | Size Flange Inches | Length from Flange to End of Box Inches | Weight Pounds |
|-----|------------------|------|--------------------|---|---------------|
| 5 | 1 | | 5x3-1/4 | 6-3/4 | 5 |
| 7 | 1-1/4 | | 6x4-1/4 | 7-3/4 | 9-1/2 |
| 9 | 1-1/2 | | 7x4-1/2 | 8-1/4 | 13 |

Note: Length Bearing does not include packing nut or space for packing.

Spare Stuffing Boxes, See Fig. 672.

Spare Hoses, See Fig. 673.

Spare Clamps, See Fig. 6400.



Fig. 819



Fig. 734

PACKING NUTS AND LOCK NUTS—Figs. 73 & 79

For Stuffing Boxes — Cast Bronze

| No. | Shaft Size Inches | Fig. 73 Each | Fig. 79 Each | Width Hex Inches | For Use With Figures |
|-----|-------------------|--------------|--------------|------------------|---------------------------------|
| 3 | 3/4 | | | 1-3/8 | 320 |
| 3A | 3/4 | | | 1-3/4 | 672 No. 3 |
| 4A | 7/8 | | | 1-3/4 | 672 No. 4 |
| 5 | 1 | | | 1-3/4 | 320, 672, 1088, 1089 |
| 6 | 1-1/8 | | | 2 | 320, 672, 1088, 1089 |
| 7 | 1-1/4 | | | 2 | 672 |
| 7A | 1-1/4 | | | 2-1/4 | 320, 819, 1088, 1089 (Size No.) |
| 9 | 1-1/2 | | | 2-3/8 | 672 |
| 9A | 1-1/2 | | | 2-1/2 | 320, 819, 1089 (Size No. 9) |
| 10 | 1-3/4 | | | 3-1/4 | 819 |
| 11 | 2 | | | 3-1/2 | 819 |



STAINLESS STEEL MARINE HOSE CLAMPS—Fig. 6400

No Rivets — Welded

This item meets the requirements of U.S.C.G. Safety Standards, January 31, 1977, for Gasoline Fuel Systems.

| Part Number | Each | Size Hose Inches | | Clamp Diameter Inches | | Box Quantity | Weight Per 100 in Pounds |
|-------------|------|------------------|-------|-----------------------|--------|--------------|--------------------------|
| | | From | To | Min. | Max. | | |
| 4 | | 1/4 | 5/8 | 3/8 | 11/16 | 10 | 2 |
| 10 | | 3/8 | 5/8 | 5/8 | 1-1/16 | 10 | 6 |
| 12 | | 5/8 | 3/4 | 11/16 | 1-1/4 | 10 | 6 |
| 16 | | 3/4 | 1 | 13/16 | 1-1/2 | 10 | 7 |
| 20 | | 1 | 1-1/4 | 13/16 | 1-3/4 | 10 | 7 |
| 28 | | 1-1/4 | 1-3/4 | 1-5/16 | 2-1/4 | 10 | 8 |
| 36 | | 1-3/4 | 2-1/4 | 1-13/16 | 2-3/4 | 10 | 9 |
| 44 | | 2-1/4 | 2-3/4 | 2-5/16 | 3-1/4 | 10 | 9 |
| 52 | | 3 | 3-1/4 | 2-13/16 | 3-3/4 | 10 | 11 |
| 56 | | 3-1/4 | 3-1/2 | 3-1/16 | 4 | 10 | 11 |
| 64 | | 3-1/2 | 4 | 3-9/16 | 4-1/2 | 10 | 12 |

Note — Above clamps are 1/2 inch wide except Size No. 4 which is 5/16 inch.



Fig. 73



Fig. 79



Fig. 6400

SELF ALIGNING SHAFT LOGS—Fig. 671

Cast Bronze

| No. | Each | Size Shaft Inches | Size Base Inches | Length Overall Inches | Degrees of Angle | Weight Pounds |
|-----|------|-------------------|------------------|-----------------------|------------------|---------------|
| 3 | | 3/4 | 11-3/8x3-1/2 | 18 | 12 | 5-1/4 |
| 5 | 1 | 1 | 11-3/8x3-1/2 | 18 | 12 | 5-1/4 |
| 7 | | 1-1/4 | 16-1/2x4-1/4 | 23-1/2 | 10 | 10-1/4 |
| 9 | | 1-1/2 | 19x5 | 28 | 10 | 17-3/4 |



Fig. 671

NOTE — All Bases are spotted for Bolt Holes, but not drilled.



STUFFING BOX AND EXTRA HOSE

Figs. 672, 673 For Self Aligning Shaft Logs

| For Log No. | Size Shaft Inches | Fig. 672 Stuffing Box Each | Fig. 673 Hose Each | I.D. Hose Inches | Length Hose Inches |
|-------------|-------------------|----------------------------|--------------------|------------------|--------------------|
| 3 | 3/4 | | | 1-3/4 | 4 |
| 4 | 7/8 | | | 1-3/4 | 4 |
| 5 | 1 | | | 1-3/4 | 4 |
| 7 | 1-1/4 | | | 2-3/8 | 5 |
| 9 | 1-1/2 | | | 2-5/8 | 5 |



Fig. 672



Fig. 673

For Hose Clamps, See Fig. 6400.



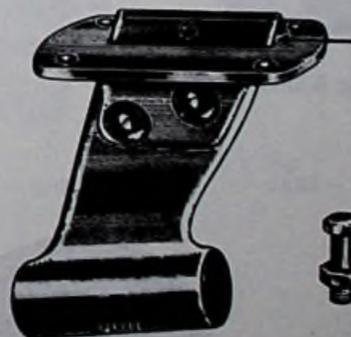
UNIVERSAL STRUTS—Fig. 1055

Cast Manganese Bronze — For Cutless Rubber Bearings

These struts can be made any length shorter than standard by sliding the shank up through the base to the required length. The necessary angle for the shaft is also obtained in the same way.

Two Everdur Hex Head Bolts are furnished. Extreme drop to center of shaft is 7 inches. Base drilled for 5/16 inch bolts. Dimensions of base 5-3/8 x 3-1/8 inches.

| No. | Each | For Diam. Shaft Inches | For Cutless Bearing Code | Length Bearing Inches | Weight Pounds |
|-----|------|------------------------|--------------------------|-----------------------|---------------|
| 5 | | 1 | Kayak | 4 | 7-1/2 |
| 7 | | 1-1/4 | Kidnap | 5 | 7-1/2 |



CUT OFF HERE



Fig. 1055

PIPE DECK PLATES

Bronze — Straight Pipe Threads

Size Nos. 7 - 8 are Pressure Cast Bronze.

Other Sizes Cast Bronze.

Size Nos. 7 and 8 are Slotted per Illustration.

Other Sizes have Holes for Key, Not Slotted.

Marked Type is Marked on the Plate,

Not on the Cap.

Caps have "O" Ring for Water Tightness

Complete with Key

UNMARKED — Fig. 528



Fig. 528

| No. | Pipe Size Inches | Machine Finish Complete Each | Polished Chromium Plated Complete Each | Outside Diam. Plate Inches | Weight Pounds |
|-----|------------------|------------------------------|--|----------------------------|---------------|
| 6 | 1 | | | 2-7/8 | 5/8 |
| 7 | 1-1/4 | | | 3-5/16 | 7/8 |
| 8 | 1-1/2 | | | 3-5/8 | 1 |
| 9 | 2 | | | 4-1/4 | 1-1/2 |
| 10 | 2-1/2 | | | 4-5/8 | 2 |
| 11 | 3 | | | 5-3/8 | 2-1/2 |



Fig. 528-G

MARKED "GAS" — Fig. 528-G

| No. | Pipe Size Inches | Machine Finish Complete Each | Polished Chromium Plated Complete Each | Outside Diam. Plate Inches | Weight Pounds |
|-----|------------------|------------------------------|--|----------------------------|---------------|
| 7 | 1-1/4 | | | 3-5/16 | 7/8 |
| 8 | 1-1/2 | | | 3-5/8 | 1 |
| 9 | 2 | | | 4-1/4 | 1-1/2 |

This item meets the requirements of U.S.C.G. Safety Standards, January 31, 1977, for Gasoline Fuel Systems.



Fig. 528-D

MARKED "DIESEL" — Fig. 528-D

| No. | Pipe Size Inches | Machine Finish Complete Each | Polished Chromium Plated Complete Each | Outside Diam. Plate Inches | Weight Pounds |
|-----|------------------|------------------------------|--|----------------------------|---------------|
| 7 | 1-1/4 | | | 3-5/16 | 7/8 |
| 8 | 1-1/2 | | | 3-5/8 | 1 |
| 9 | 2 | | | 4-1/4 | 1-1/2 |



Fig. 528-W

MARKED "WATER" — Fig. 528-W

| No. | Pipe Size Inches | Machine Finish Complete Each | Polished Chromium Plated Complete Each | Outside Diam. Plate Inches | Weight Pounds |
|-----|------------------|------------------------------|--|----------------------------|---------------|
| 7 | 1-1/4 | | | 3-5/16 | 7/8 |
| 8 | 1-1/2 | | | 3-5/8 | 1 |
| 9 | 2 | | | 4-1/4 | 1-1/2 |

SPARE PARTS FOR ABOVE DECK PLATES

Spare Caps, Specify Fig. 528, 99A Size and Finish.

Spare "O" Ring, Specify Fig. 528, 99B and Size.

Spare Keys, Sizes 6 to 10, Specify Fig. 1248, and Size.

Size 11, Specify Fig. 528-99C Size No. 11.



Fig. 524

"WASTE" FITTINGS — Fig. 524

FOR USE IN EMPTYING HOLDING TANKS

Pressure Cast Bronze — Chromium Plated

With "O" Ring — Airtight — Complete with Key.

Complies with adopted standard on "Fittings" A.B.Y.C. recommended practices and standards covering sewage holding and/or treatment devices for marine waste systems.

| Each | Straight Pipe Thread Inches | Outside Diam. Plate Inches | Weight Pounds |
|------|-----------------------------|----------------------------|---------------|
| | 1-1/2 | 3-5/8 | 1 |

Spare Caps, Specify Fig. 524-99A.

Spare "O" Rings, Specify Fig. 528-99B Size No. 8.

Spare Keys, See Fig. 1248—Size No. 7-8

NEW IMPROVED 1300 – 1400 SERIES “CHROMALEX®” FILLS

NOW AVAILABLE IN DIFFERENT STYLES ROUND OR SQUARE WITH NEW KEY LOCK OPTION FOR ADDED PROTECTION. FILLS ARE ALSO AVAILABLE MARKED “DIESEL” OR “WATER”. FILLS WITH LOCKING CAP HAVE FIVE PIN TUMBLER LOCK DESIGNED FOR MARINE ENVIRONMENT.

All Fills On This Page Meet The Requirements Of The U.S.C.G. Safety Standards, January 31, 1977 For Gasoline Fuel Systems.

Die Cast Zinc Alloy Body – Chromium Plated – Black Plastic Cap, Impervious to Gasoline – Complete with Grounding Lug with Screw.

Cap has integral retainer feature and is equipped with gasket to assure water tightness of fill. Neck has bead for hose retention.

1300 SERIES FILLS

| Each | Diameter Overall Inches | Length Hose Neck Inches | For Hose Size Inches | For Screw No. | OEM Package | Weight Ounces |
|------|-------------------------|-------------------------|----------------------|---------------|-------------|---------------|
| | 3-1/8 | 1-5/8 | 1-1/2 | 7 | 50 | 6 |

1400 SERIES FILLS

| Each | Overall Dimensions Inches | Length Hose Neck Inches | For Hose Inches | For Screw No. | OEM Package | Weight Ounces |
|------|---------------------------|-------------------------|-----------------|---------------|-------------|---------------|
| | 3 x 3 | 1-5/8 | 1-1/2 | 7 | 50 | 7 |



Figs.
1313 – GAS
1328 – DIESEL
1329 – WATER



Figs.
1397 – LOCKING DIESEL
1398 – LOCKING WATER
1399 – LOCKING GAS



LOCKING GAS CAP – Fig. 1324

Black Plastic Cap – Built-In Five Pin Tumbler Lock – Supplied with 2 Keys – Gasket to Prevent Moisture from Entering Tank.

Locking Cap Will Fit all PERKO CHROMALEX® Gas Fills. Figs. 1313, 1413 and 1513 Already in Use.



Fig.
1413 – GAS



Fig.
1499 – LOCKING GAS

| Each | Standard Package | Weight Ounces |
|------|------------------|---------------|
| | 5 | 3 |



Fig.
1324

Spare Non-Locking Cap – Specify Fig. 126



Fig. 1245

GAS TANK CAP—Fig. 1245

Die Cast Zinc Alloy — Chromium Plated

Complete with Deck Flange and 24 Inch Safety Cord.

| Each | Threaded for Pipe Inches | Height Overall Inches | Diam. Deck Flange Inches | For Screw No. | Weight Ounces |
|------|--------------------------|-----------------------|--------------------------|---------------|---------------|
| | 1-1/2 | 1-1/8 | 3-1/8 | 7 | 9-1/2 |

Spare Caps with Safety Cord, Specify Fig. 1245-99A.
Standard Package, 5 Pieces.



Fig. 1270

DECK PLATES FOR HOSE — Fig. 1270

Die Cast Zinc Alloy — Chromium Plated Neck Has Bead For Improved Hose Retention — Cap Has "O" Ring.

Cap Has Holes and Slot for Key, Screw Driver or Large Coin. Complete with Key.

Size No. 1B meets requirements of U.S.C.G. Gasoline Fuel Systems.

Fig. 1270 No. 1 marked "WASTE"

Fig. 1270 No. 1B marked "GAS"

Fig. 1270 No. 1C marked "WATER"

Fig. 1270 No. 1D marked "DIESEL"

| No. | Each | Inside Diameter Neck Inches | For Hose Inches | Length Neck Inches | Diameter Flange Inches | Weight Ounces |
|-----|------|-----------------------------|-----------------|--------------------|------------------------|---------------|
| 1 | | 1-3/8 | 1-1/2 | 2-3/4 | 3-1/4 | 14 |

NOTE: Figs. 1270 B, C and D Supplied with Safety Cord.

Spare Caps, Specify Fig. 1270 — 99A and Marking.

Spare Keys, See Fig. 1248, Size No. 7-8

Spare "O" Rings, Specify Fig. 528-99B Size No. 8



Fig. 526

REGULAR DECK PLATES—Fig. 526

Cast Bronze — With Key

| Diam. Opening Inches | Machine Finish Complete Each | Polished Chromium Plated Complete Each | Keys Only Each | Outside Diam. Plate Inches | Weight Pounds |
|----------------------|------------------------------|--|----------------|----------------------------|---------------|
| 3 | | | | 5-3/8 | 2 |
| 4 | | | | 7-1/16 | 2-1/4 |
| 5 | | | | 8-3/8 | 4-3/4 |
| 6 | | | | 9-3/8 | 6-1/2 |
| 8 | | N.A. | | 10-1/4 | 7 |

Keys Only, Specify Fig. 539 and Size.

Spare Caps, Specify Fig. 526, 99A Size and Finish.

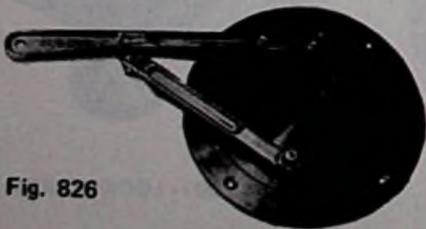


Fig. 826



Fig. 826-SP



DECK PLATE KEY—Fig. 826

Die Cast Zinc Alloy — Chromium Plated

Heavy Duty with Extra-Sturdy pins that have been increased in size from previous models.

Will fit all sizes of deck plates up to 8 inch diameter.

| Each | Length Overall Inches | Standard Package | Weight Ounces |
|------|-----------------------|------------------|---------------|
| | 8-1/2 | 5 | 9-1/2 |

SKIN PACK—Fig. 826SP

One Key Per Card.

Six Cards Per Box.

Weight Per Box, 4 Pounds.

Sold to Trade In Full Box Only.

DECK PLATE KEYS – Fig. 1248

Die Cast Zinc Alloy – Natural Finish

| *No. | Each | C to C Of Lugs Inches | Length Overall Inches | Weight Ounces |
|------|------|-----------------------------|-----------------------------|------------------|
| 6 | | 5/8 | 3-3/8 | 2 |
| 7-8 | | 1-1/8 | 3-3/8 | 2 |
| 9 | | 1-11/16 | 4-3/8 | 2-1/2 |
| 10 | | 2 | 4-3/8 | 2-1/2 |



Fig. 1248

*Corresponds with Size of Deck Plate.

Note: Above Keys Fit Figs. 524, 528 and 1270.

SAFETY CORDS – Fig. 537

For PIPE DECK PLATES

The Caps of Our Fig. 528 Deck Plates
Are Pre-Drilled and Tapped for this Cord.
Cord is High Strength Monofilament, 24 Inches
Long. Each

Standard Package, 5 Pieces.

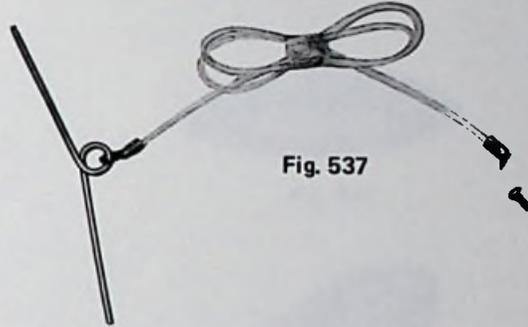


Fig. 537

CHOKE CONTROL HANDLES – Fig. 692

For Casing With Left Hand Lay – All Brass – Chromium
Plated – Friction Device

Has An Adjustable Friction Device to Hold At Desired Setting.

Control wire and casing can be easily attached. No soldering
necessary, wire held by set screw in knob. Casing threaded
into tube. For use on a dash or bulkhead up to 2 inches
thick.

| Each | Length Inches | Diam. Stem Inches | Standard Package | Weight Ounces |
|------|------------------|-------------------------|---------------------|------------------|
| | 4-7/8 | 3/8 | 5 | 2 |



Fig. 692

BOWDEN WIRE AND CASING—Fig. 353

Brass – 1/4 Inch O.D. Casing – Left Hand Lay – Wire
Diameter .072 Inches

50 FOOT LENGTHS ONLY

No. 1 Casing only per length
No. 2 Wire only, per length



Fig. 353

CONTROL WIRE SOCKETS—Fig. 679

Plain Brass

| No | Each | Length Inches | Diameter Inches | Between Jaws Inches | Length Jaws Inches | Weight Ounces |
|----|------|------------------|--------------------|---------------------------|--------------------------|------------------|
| 1 | | 1 | 3/8 | 1/8 | 1/2 | 1/2 |

Length jaws measured to center of screw.

Standard Package, 10 Pieces.

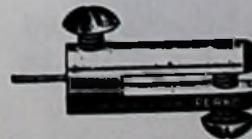


Fig. 679

BOWDEN CASING CLAMP—Fig. 352

Brass – Swivel Type – Plain

Will hold control casing firmly while swivel feature allows
smooth sliding of control wire in casing at any angle.

| Each | Size Base Inches | Standard Package | Weight Ounces |
|------|---------------------|---------------------|------------------|
| | 2-1/4x1 | 10 | 3 |



Fig. 352

STEERER AND CONTROL PARTS—Fig. 865

Cast Bronze – Plain



1. Lever



2. Clevis

Fig. 865

| No. | Item | Each | Length Overall Inches | Length C to C Inches | Weight Pounds |
|-----|--------|------|-----------------------|----------------------|---------------|
| 1 | Lever | | 8 | 6 | 1-3 |
| 1-A | Lever | | 10 | 6-7-8* | 2-1 |
| 1-C | Lever | | 10 | 6-7-8* | 2-1 |
| 2 | Clevis | | 2-1/2 | | 1 |
| 2-A | Clevis | | 2-1/2 | | 1 |
| 2-B | Clevis | | 4-1/16 | | 3 |

| No. | For Diam. Shaft Inches | For Diam. Pin Inches | Diam. Bolt Inches | Tapped For Rod Inches | Tapped For Pipe Inches | Inside Jaw Inches | Diam. Flange Inches |
|-----|------------------------|----------------------|-------------------|-----------------------|------------------------|-------------------|---------------------|
| 1 | 1 | 1/2 | | | | | |
| 1-A | 1 | 1/2 | | | | | |
| 1-C | 1-1/4 | 1/2 | | | | | |
| 2 | | | 1/2 | 3/4 | | 1/2 | |
| 2-A | | | 1/2 | | 1/2 | 1/2 | |
| 2-B | | | 1/2 | | 3/4 | 9/16 | |

*Nos. 1-A, 1-C Are Of Heavy Construction Like No. 1, And With Three Pin Holes.



ELECTROLYSIS COLLARS—Fig. 252

FOR SHAFT

Streamlined Zinc Die Casting – Precision Made And Balanced –

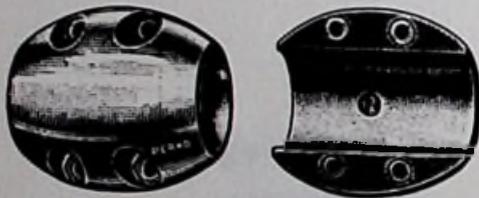


Fig. 252

These collars help to protect vital underwater fittings such as rollers, struts, shafts, strut bolts, also prevent pitting of all underwater fastenings.

Sizes No. 3 thru 7 have 2 bolts, larger sizes 4 bolts.

| No. | Each | Shaft Size Inches | Length Overall Inches | Standard Package | Bulk Package | Weight Pounds |
|-----|------|-------------------|-----------------------|------------------|--------------|---------------|
| 3 | | 3/4 | 2 | 10 | 25 | 3/4 |
| 4 | | 7/8 | 2 | 10 | 25 | 3/4 |
| 5 | | 1 | 2-1/4 | 10 | 50 | 1-1/8 |
| 6 | | 1-1/8 | 2-1/4 | 10 | 50 | 1-1/8 |
| 7 | | 1-1/4 | 2-1/4 | 10 | 50 | 1-1/8 |
| 8 | | 1-3/8 | 2-3/4 | 10 | 50 | 1-3/8 |
| 9 | | 1-1/2 | 2-3/4 | 10 | 50 | 1-3/8 |
| 10 | | 1-3/4 | 2-7/8 | 5 | 25 | 2-1/2 |
| 11 | | 2 | 2-7/8 | 5 | 25 | 2-1/2 |



ELECTROLYSIS COLLARS—Fig. 253

FOR SHAFT

Zinc Die Castings – Heavy Duty Commercial Type –



Fig. 253

| No. | Each | Shaft Size Inches | Length Overall Inches | Diam. Overall Inches | Weight Pounds |
|-----|------|-------------------|-----------------------|----------------------|---------------|
| 11 | | 2 | 1-1/8 | 3-3/4 | 1-1 |
| 12 | | 2-1/4 | 1-1/8 | 3-3/4 | 1-1 |
| 13 | | 2-1/2 | 1-5/8 | 5 | 3-1 |
| 14 | | 3 | 1-5/8 | 5 | 3 |
| 15 | | 3-1/2 | 1-11/16 | 6 | 6 |
| 16 | | 4 | 1-11/16 | 6 | 5 |



ELECTROLYSIS ELIMINATORS—Fig. 407

FOR RUDDERS

Smooth Zinc Die Castings –



Fig. 407

| No. | Per Set as Illustrated | Diameter Inches | Standard Package | Bulk Package | Length Bolt Inches | Weight Com. Pounds |
|-----|------------------------|-----------------|------------------|--------------|--------------------|--------------------|
| 2 | | 2-7/8 | 10 | 50 | 2 | 1 |
| 2-A | | 3-3/4 | 5 | 25 | 2 | 1-3 |
| 3 | | 5 | 5 | 25 | 2 | 3 |

ALL ABOVE ZINGS EXCEPT FIG. 253 IN STANDARD OR BULK PACKAGES ONLY. NO BROKEN PACKAGES.

ELECTROLYSIS ELIMINATORS—Fig. 244 FOR SMALL BOAT HULLS

Zinc Die Castings

| No. | Each | Length Inches | Width Inches | Standard Package | Bulk Package | Weight |
|-----|------|------------------|-----------------|---------------------|-----------------|-----------|
| 1 | | 3-1/2 | 1-3/4 | 10 | 100 | 6-1/2 oz. |
| 2 | | 5-1/4 | 2-1/8 | 10 | 50 | 1-1/4 lb. |



Fig. 244



ELECTROLYSIS ELIMINATORS—Fig. 247 FOR SMALL BOAT HULLS

Die Cast Zinc

| Each | Length Inches | Width Inches | Standard Package | Bulk Package | Weight Ounces |
|------|------------------|-----------------|---------------------|-----------------|------------------|
| | 4-3/4 | 2 | 10 | 50 | 14 |



Fig. 247



ELECTROLYSIS ELIMINATORS — Fig. 241 FOR YACHT HULLS

Die Cast Zinc

| Each | Length Inches | Width Inches | Thickness Inches | Standard Package | Bulk Package | Weight Pounds |
|------|------------------|-----------------|---------------------|---------------------|-----------------|------------------|
| | 9-1/4 | 3-3/8 | 3/4 | 5 | 25 | 3-1/4 |



Fig. 241



ELECTROLYSIS ELIMINATORS—Fig. 345 FOR COMMERCIAL HULLS

Die Cast Zinc

| Each | Length Inches | Width Inches | Thickness Inches | Standard Package | Bulk Package | Weight Pounds |
|------|------------------|-----------------|---------------------|---------------------|-----------------|------------------|
| | 6-1/4 | 2-3/4 | 5/8 | 5 | 25 | 2-1/4 |



Fig. 345



ELECTROLYSIS ELIMINATORS—Fig. 254 FOR MARINE ENGINES

Zinc With Forged Bronze Plug

| No. | Complete Each | Plug I.P.S. Inches | Zinc Dimensions Inches | Weight Ounces |
|-----|------------------|--------------------------|------------------------------|------------------|
| 3 | | 3/8 | 3/8x1-3/4 | 2 |
| 4 | | 1/2 | 5/8x2 | 4-1/2 |
| 5 | | 3/4 | 3/4x2 | 7 |
| 5A | | 3/4 | 3/4x3-1/4 | 8-1/2 |

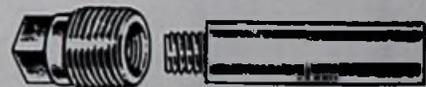


Fig. 254

Spare Zincs, Specify Fig. 254-99 A And Size
Spare Bronze Plugs, Specify Fig. 254-99 B And Size

Standard Package, 5 Pieces Per Size.

ALL ABOVE ZINCS IN STANDARD OR BULK PACKAGES ONLY. NO BROKEN PACKAGES.

FUEL FILTER AND SEPARATOR

FIG. 299

Cast Bronze – With “Kwick Klean” Filter Element

For Gasoline – Diesel Fuel – Lubricating Oil – Air – Water

Complies With U.S.C.G. Standards For Fuel Filters And Strainers.*

These units are guaranteed to separate water from gasoline or diesel fuel. The filter element is a 40 micron microcarbon ribbon type made of cellulose and impregnated with phenolic resin. It has a high rate of flow sufficient to feed high horsepower diesel and gasoline engines. Easily cleaned by reverse flow or back flushing with compressed air.



Fig. 299

Cast Bronze Housing and Adjustable Mounting Bracket –
Drain Plug – Viton “O” Ring Gasket.

Tested and accepted for labeling and listed by the Underwriters Laboratories Inc.

| Size No. | Complete Each | Length Overall Inches | Diam. Inches | Tapped For Pipe Inches | Weight Pounds |
|----------|---------------|-----------------------|--------------|------------------------|---------------|
| 1 | | 5-1/2 | 2-3/8 | 3/8 | 3-3/4 |
| 2 | | 6-1/4 | 3-1/8 | 1/2 | 5-1/2 |

No. 1 Element is 1-3/4" O.D. x 1-3/4 long.
No. 2 Element is 2-1/4" O.D. x 2" long.

KEEP IT CLEAN WITH AN APPROVED FILTER

There are three classifications for fuel cleaning devices:

Filters, which remove particles of microscopic size (40 microns or less)

Strainers, which remove larger particles (More than 40 but less than 150 microns)

Separators, which effectively remove water from the fuel.

SPARE PARTS

Spare elements, Specify Fig. 324 and Size No.

Spare “O” Rings, Specify Fig. 327 and Size No.

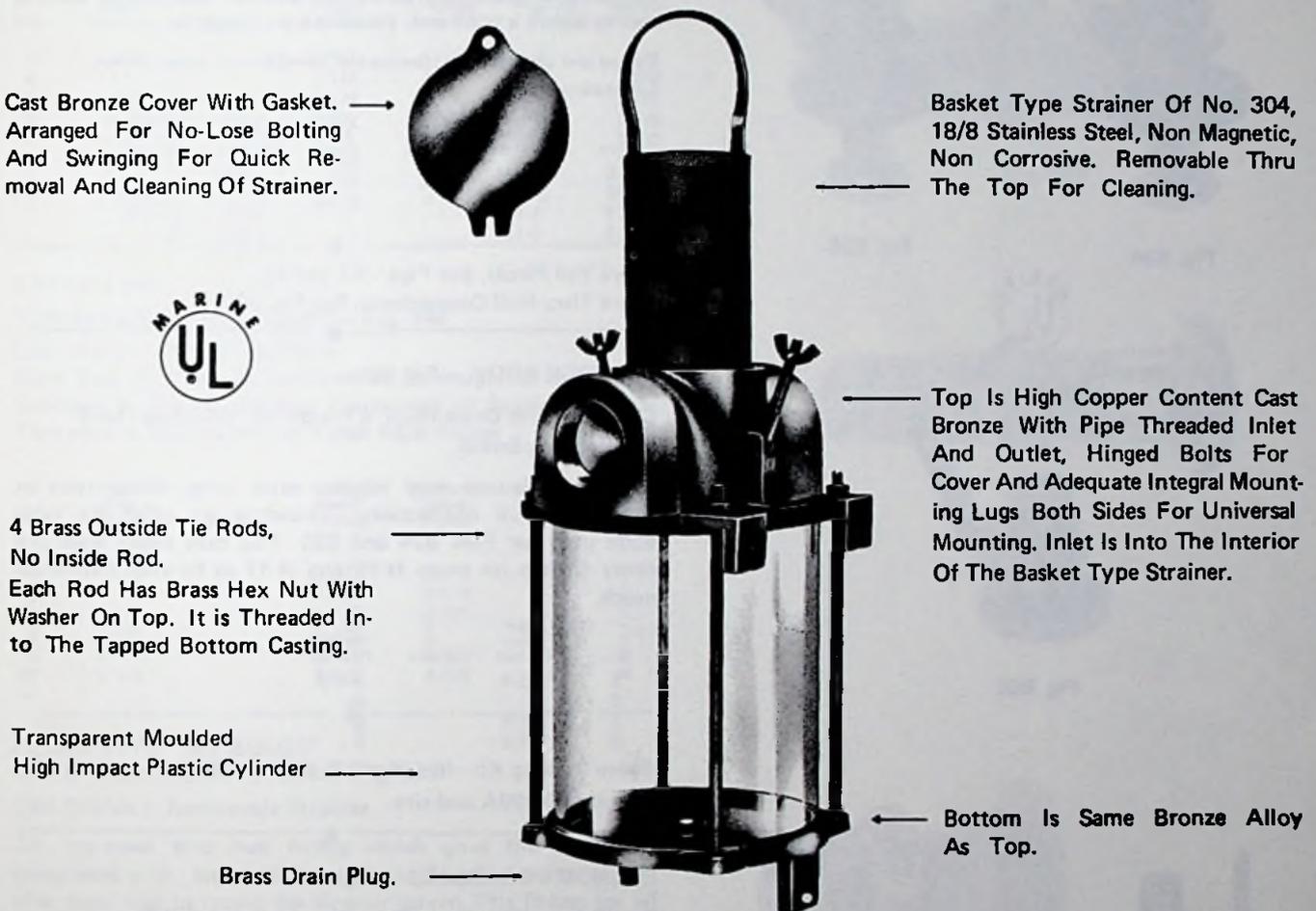
*U. S. Coast Guard Safety Standards For Gasoline Fuel Systems, January 31, 1977.

INTAKE WATER STRAINERS

FIGS. 493 AND 500

Perko water strainers are designed for easier installation and cleaning. Also, the outside tie rod safety feature eliminates the electrolysis problems often encountered with designs using internal tie rods.

Tested and accepted for labeling and listed by the Underwriter's Laboratories, Inc.



Cast Bronze Cover With Gasket. Arranged For No-Lose Bolting And Swinging For Quick Removal And Cleaning Of Strainer.

Basket Type Strainer Of No. 304, 18/8 Stainless Steel, Non Magnetic, Non Corrosive. Removable Thru The Top For Cleaning.



4 Brass Outside Tie Rods, No Inside Rod. Each Rod Has Brass Hex Nut With Washer On Top. It is Threaded Into The Tapped Bottom Casting.

Top Is High Copper Content Cast Bronze With Pipe Threaded Inlet And Outlet, Hinged Bolts For Cover And Adequate Integral Mounting Lugs Both Sides For Universal Mounting. Inlet Is Into The Interior Of The Basket Type Strainer.

Transparent Moulded High Impact Plastic Cylinder

Bottom Is Same Bronze Alloy As Top.

Brass Drain Plug.

Fig. 493 – STANDARD TYPE

| No. | Complete Each | Pipe Size Inches | Size Cylinder Inches | Approx. Height Inches | Approx. Width Overall Inches | Approx. Weight Pounds |
|-----|---------------|------------------|----------------------|-----------------------|------------------------------|-----------------------|
| 3 | | 3/8 | 2-3/4x2-1/2 | 4-1/4 | 3-1/4 | 2-1/2 |
| 4 | | 1/2 | 3-1/2x4 | 5-3/4 | 4-1/2 | 5 |
| 5 | | 3/4 | 3-1/2x6 | 8-3/8 | 4-1/2 | 5 |
| 6 | | 1 | 4-1/2x5-1/2 | 9-1/2 | 5-1/2 | 8 |
| 7 | | 1-1/4 | 4-1/2x6 | 10 | 5-1/2 | 8 |
| 8 | | 1-1/2 | 6 x8 | 11-1/2 | 7 | 14 |
| 9 | | 2 | 6 x12 | 16 | 7-1/4 | 18 |
| 10 | | 2-1/2 | 6 x12 | 16 | 7-1/2 | 18 |

Fig. 500 – HEAVY DUTY TYPE

High Capacity For Diesels And Large Gasoline Engines

| | | | | | |
|----|-------|------|--------|---|----|
| 9 | 2 | 8x10 | 14-1/2 | 9 | 34 |
| 10 | 2-1/2 | 8x12 | 16-1/2 | 9 | 34 |
| 11 | 3 | 8x14 | 18-1/2 | 9 | 34 |

SPARE PARTS

SPECIFY FIG. NO. OF STRAINER, SIZE AND PART NO. BELOW.

| | | | | | | | |
|----------------------|------|-----------------|------|----------------------------|------|--|------|
| Top Casting | 99-A | Basket Strainer | 99-D | Tie Rod | 99-G | Wing Nut And Washer For Cover | 99-K |
| Bottom Casting | 99-B | Cover | 99-E | Nut And Washer For Tie Rod | 99-H | Hinged Bolt For Cover With Pin, Nut And Washer | 99-L |
| Transparent Cylinder | 99-C | Cover Gasket | 99-F | Cylinder Gasket | 99-J | | |

SEACOCKS – Figs. 834 & 835

Cast Bronze with Drain Plugs, Thru Hull and Tail Piece

Fig. 834 with 90 degree curved tail piece.

Fig. 835 with straight tail piece.

These sturdy units are of a ball valve design with bronze chromium plated ball to reduce wear and costly time consuming maintenance. They are equipped with Teflon® seats for smooth operation, quick and positive opening or closing and to assure a tight seal. Handles are removable.

Tested and accepted for labeling and listed by the Underwriters Laboratories Inc.



Fig. 834



Fig. 835



| No. | Pipe Size Inches | Fig. 834 Each | Fig. 835 Each | Hose Size Inches | Complete Weight Pounds |
|-----|------------------|---------------|---------------|------------------|------------------------|
| 5 | 3/4 | | | 3/4 | 3 |
| 6 | 1 | | | 1 | 4-3/4 |
| 7 | 1-1/4 | | | 1-1/4 | 7-1/2 |
| 8 | 1-1/2 | | | 1-1/2 | 10 |

Spare Tail Pieces, See Figs. - 63 and 76.

Spare Thru-Hull Connections, See Fig. 322



SEACOCK BODY – Fig. 805

Complete with Drain Plugs, 4 Pre-drilled Mounting Holes and Bonding Screw.

Some installations may require extra long, scoop type or flush thru hull connections. Therefore we offer the valve body used for Figs. 834 and 835. You may select from our many fittings on pages H-15 and H-17 to fit your individual needs.



Fig. 805

| No. | Pipe Size Inches | Each | Weight Pounds |
|-----|------------------|------|---------------|
| 5 | 3/4 | | 2-1/2 |
| 6 | 1 | | 4 |
| 7 | 1-1/4 | | 6 |
| 8 | 1-1/2 | | 8 |

Spare Packing Kit—Includes 2-Seals & 2 “O” Rings—Specify 805-99A and size.



ECONOMY SEACOCKS – Figs. 821 & 823

Cast Bronze With Drain Plug, Thru Hull and Tail Piece.

Improved design now features ball valve for smooth operation.



Fig. 821



Fig. 823



| No. | Pipe Size Inches | Fig. 821 Each | Fig. 823 Each | Hose Size Inches | Complete Weight Pounds |
|-----|------------------|---------------|---------------|------------------|------------------------|
| 4 | 1/2 | | N.A. | 5/8 | 7/8 |
| 5 | 3/4 | | | 3/4 | 1-1/2 |
| 6 | 1 | | | 1 | 2-1/2 |
| 7 | 1-1/4 | | | 1-1/4 | 4 |
| 8 | 1-1/2 | | | 1-1/2 | 5-1/4 |

Spare Tail Pieces, See Adapter, Figs. 76 and 63.

Spare Thru-Hull Connections, See Fig. 322.



ECONOMY SEACOCK BODY – Fig. 825

Cast Bronze – Complete with Drain Plug.

Improved design now features ball valve for smooth operation.



Fig. 825



| No. | Pipe Size Inches | Each | Weight Pounds |
|-----|------------------|------|---------------|
| 4 | 1/2 | | 3/4 |
| 5 | 3/4 | | 1 |
| 6 | 1 | | 1-1/2 |
| 7 | 1-1/4 | | 2-1/4 |
| 8 | 1-1/2 | | 3-1/4 |

STANDARD

THRU-HULL CONNECTIONS—Fig. 322

Cast Bronze — Machined Flange

Back Side of Flange is Machined to Fit snugly to Hull and is Grooved to Retain Bedding Compound or Sealant. Neck is Threaded to Approximately 1/8 Inch From Flange.

| No. | Pipe Size Inches | Each | Length Neck Inches | Diameter Flange Inches | For Strainer Fig. 86 No. | Weight Pounds |
|-----|------------------|------|--------------------|------------------------|--------------------------|---------------|
| 3 | 3/8 | | 2-1/4 | 1-1/2 | 1 | 1/4 |
| 4 | 1/2 | | 2-1/4 | 1-5/8 | 1 | 3/8 |
| 5 | 3/4 | | 2-1/4 | 2 | 2 | 1/2 |
| 6 | 1 | | 2-1/2 | 2-1/4 | 3 | 5/8 |
| 7 | 1-1/4 | | 3 | 2-7/8 | 4 | 1-1/2 |
| 8 | 1-1/2 | | 3-1/4 | 3 | 5 | 1-3/4 |
| 9 | 2 | | 3-1/2 | 3-1/2 | 5 | 2-3/8 |
| 10 | 2-1/2 | | 3-5/8 | 4-1/2 | 6 | 3-1/4 |



EXTRA LONG

THRU-HULL CONNECTIONS — Fig. 348

Cast Bronze — Machined Flange

Back Side of Flange is Machined to Fit snugly to Hull and is Grooved to Retain Bedding Compound or Sealant. Neck is Threaded to Approximately 1 inch from Flange

| No. | Pipe Size Inches | Each | Length Neck Inches | Diameter Flange Inches | For Strainer Fig. 86 No. | Weight Pounds |
|-----|------------------|------|--------------------|------------------------|--------------------------|---------------|
| 5 | 3/4 | | 5-1/2 | 2 | 2 | 3/4 |
| 6 | 1 | | 5-1/2 | 2-1/4 | 3 | 1 |
| 7 | 1-1/4 | | 5-1/2 | 2-7/8 | 4 | 2 |
| 8 | 1-1/2 | | 5-1/2 | 3 | 5 | 2-1/4 |
| 9 | 2 | | 5-1/2 | 3-1/2 | 5 | 3 |
| 10 | 2-1/2 | | 5-1/2 | 4-1/2 | 6 | 4 |



FLUSH TYPE "NO BULGE"

THRU HULL CONNECTIONS—Fig. 361

Cast Bronze — Removable Strainer

An improved thru hull fitting which gives the option of being used with or without strainer. Supplied with removable snap ring to retain the strainer screen. This fitting for all types of boats, but especially appreciated by builders and owners of sail boats. Nothing extending beyond hull to cause friction or slow boat down. The ends of these fittings have tapered threads for easy attachment of valves or other pipe fittings.

| No. | Pipe Size Inches | Fig. 361 Each | Length Overall Inches | Inside Diameter Inches | Diameter Flange Inches | Weight Pounds |
|-----|------------------|---------------|-----------------------|------------------------|------------------------|---------------|
| 4 | 1/2 | | 2-7/16 | 1/2 | 2-1/2 | 3/4 |
| 5 | 3/4 | | 2-3/4 | 3/4 | 2-1/2 | 7/8 |
| 6 | 1 | | 3 | 1 | 3 | 1-1/4 |
| 7 | 1-1/4 | | 3-3/8 | 1-1/4 | 3 | 1-1/2 |
| 8 | 1-1/2 | | 3-1/2 | 1-1/2 | 3-1/4 | 1-3/4 |



INTAKE STRAINERS—Fig. 65

Cast Bronze — Plain

| No. | Pipe Size Inches | Each | Length Neck Inches | Dimensions Strainer Inches | Weight Pounds |
|-----|------------------|------|--------------------|----------------------------|---------------|
| 4 | 1/2 | | 2-5/8 | 3 x 4 | 5/8 |
| 5 | 3/4 | | 2-9/16 | 3 x 4 | 7/8 |
| 6 | 1 | | 3 | 3 x 4 | 1-1/8 |
| 7 | 1-1/4 | | 3-1/2 | 3-1/4 x 4-1/4 | 1-3/4 |



All Fittings Shown on This Page Have Been Tested and Accepted For Labeling and Listed by the Underwriters Laboratories, Inc.

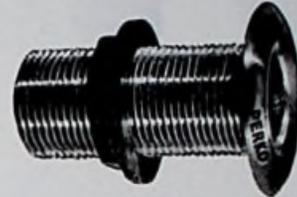


Fig. 322



Fig. 348

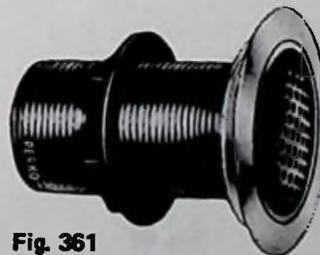


Fig. 361

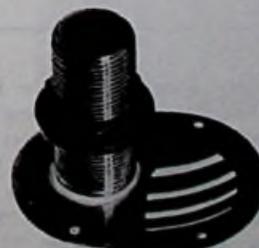


Fig. 65



Fig. 301

PLASTIC THRU-HULL CONNECTIONS – Fig. 301
Durable Plastic – For Use With Hose*

| No. | For Hose Inches | Diam Flange Inches | Weight Ounces | Standard Package | Bulk Package |
|-----|-----------------|--------------------|---------------|------------------|--------------|
| 4 | 1/2 | 1-1/2 | 1 | 10 | 100 |
| 4A | 5/8 | 1-1/2 | 1 | 10 | 100 |
| 5 | 3/4 | 1-7/8 | 1-3/4 | 10 | 100 |
| 6 | 1 | 2-1/4 | 2-1/4 | 5 | 50 |
| 6A | 1-1/8 | 2-1/4 | 2-1/2 | 5 | 50 |
| 8 | 1-1/2 | 3 | 5-1/4 | 5 | 50 |

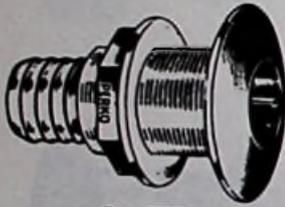


Fig. 350

THRU-HULL CONNECTIONS – Fig. 350

Cast Bronze For Use With Hose* – Backside of Flange is Machined to Fit snugly to Hull and is Grooved to Retain Bedding Compound or Sealant.

| No. | For Hose Inches | Plain Each | Polished Chromium Plated Each | Diam. Flange Inches | Maximum Wood Thickness Inches | Weight Pounds |
|-----|-----------------|------------|-------------------------------|---------------------|-------------------------------|---------------|
| 4 | 5/8 | | | 1-5/8 | 1-1/4 | 3/8 |
| 5 | 3/4 | | | 2 | 1-5/8 | 1/2 |
| 6 | 1 | | | 2-3/8 | 1-7/8 | 7/8 |
| 7 | 1-1/4 | | | 3 | 2 | 1-3/8 |
| 8 | 1-1/2 | | | 3-1/8 | 2 | 1-1/2 |

Spare Flanged Nuts, See Fig. 75.

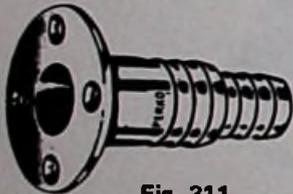


Fig. 311

THRU-HULL CONNECTIONS – Fig. 311

Cast Bronze – Chromium Plated – For Use With Hose*

| Each | For Size Hose Inches | Inside Diameter Inches | Length Overall Inches | Diam. Flange Inches | Weight Ounces |
|------|----------------------|------------------------|-----------------------|---------------------|---------------|
| | 3/4 and 1 | 9/16 | 3-1/8 | 2-1/8 | 7 |



Fig. 66

SCOOP STRAINERS—Fig. 66

Cast Bronze

| No. | Each | Outside Dimension Inches | For Thru-Hull Size Inches | Weight Pounds |
|-----|------|--------------------------|---------------------------|---------------|
| 1 | | 3-1/2x2-1/2 | 1/2 | 1/4 |
| 2 | | 5 x3-1/4 | 1 | 3/4 |
| 3 | | 6-1/4x4-1/4 | 1-1/4 | 1 |
| 4 | | 8 x5-1/8 | 2 | 2 |

Standard Package, 5 Pieces.



Fig. 86

ROUND STRAINERS—Fig. 86

Cast Bronze

| No. | Each | Outside Diam. Inches | Inside Diam. Inches | For Thru-Hull Size Inches | Standard Package | Weight Pounds |
|-----|------|----------------------|---------------------|---------------------------|------------------|---------------|
| 1 | | 2-1/2 | 1-5/8 | 1/2 | 5 | 1/5 |
| 2 | | 3 | 2 | 3/4 | 5 | 1/4 |
| 3 | | 3-1/2 | 2-3/8 | 1 | 5 | 1/3 |
| 4 | | 4 | 3 | 1-1/4 | 5 | 1/3 |
| 5 | | 5 | 3-3/4 | 2 | 5 | 3/4 |
| 6 | | 6 | 4-1/2 | 2-1/2 | 1 | 1 |
| 7 | | 8 | 6-1/4 | — | 1 | 2-1/4 |



All Fittings on This Page Have Been Tested and Accepted For Labeling and Listed by Underwriters Laboratories Inc. *Thru-Hull Connections For Use With Hose Are Not Recommended For Use Below The Waterline Per ABYC "Safety Standards For Small Craft" Section H-27.3.

PIPE TO HOSE ADAPTER—Fig. 76

Cast Bronze

| No. | Pipe Size Inches | Each | Hose Size Inches | Length Overall Inches | Weight Ounces |
|-----|------------------|------|------------------|-----------------------|---------------|
| 4 | 1/2 | | 5/8 | 1-5/8 | 1-1/2 |
| 5 | 3/4 | | 3/4 | 1-3/4 | 2-1/8 |
| 6 | 1 | | 1 | 1-3/4 | 3-1/2 |
| 7 | 1-1/4 | | 1-1/4 | 2 | 5-1/8 |
| 8 | 1-1/2 | | 1-1/2 | 2-1/4 | 8-1/8 |
| 9 | 2 | | 2 | 2-5/8 | 16 |

This item meets the requirements of U.S.C.G. Safety Standards January 31, 1977, for Gasoline Fuel Systems.



Fig. 76

PIPE TO HOSE ADAPTER—Fig. 63

Cast Bronze — Curved — 90 Degrees

| No. | Pipe Size Inches | Each | Hose Size Inches | Length Overall Inches | Weight Ounces |
|-----|------------------|------|------------------|-----------------------|---------------|
| 5 | 3/4 | | 3/4 | 1-3/4 | 2-1/8 |
| 6 | 1 | | 1 | 1-3/4 | 3-1/2 |
| 7 | 1-1/4 | | 1-1/4 | 2 | 5-1/8 |
| 8 | 1-1/2 | | 1-1/2 | 2-1/4 | 8-1/8 |

This item meets the requirements of U.S.C.G. Safety Standards, January 31, 1977, for Gasoline Fuel Systems.



Fig. 63

FLANGED NUTS—Fig. 75

Bronze — For Hull Connections

| No. | Pipe Size Inches | Each | Standard Package | Weight Ounces |
|-----|------------------|------|------------------|---------------|
| 3 | 3/8 | | 5 | 1 |
| 4 | 1/2 | | 5 | 1-1/4 |
| 5 | 3/4 | | 5 | 2 |
| 6 | 1 | | 5 | 2-1/2 |
| 7 | 1-1/4 | | 5 | 6 |
| 8 | 1-1/2 | | 1 | 6 |
| 9 | 2 | | 1 | 10 |
| 10 | 2-1/2 | | 1 | 15 |

Size Nos. 3 to 7 inc. are Pressure Cast.
Balance are Sand Cast.



Fig. 75

EXHAUST FITTING—Fig. 755

Cast Bronze — With "No Stain" Collar — For Hose

The outside diameter of the neck is for 1-7/8 inch hose which fits over 1-1/2 inch pipe.

| Plain Each | Chrome Plated Each | Length Overall Inches | Inside Diameter Inches | Diameter Flange Inches | Weight Pounds |
|------------|--------------------|-----------------------|------------------------|------------------------|---------------|
| | | 3-1/4 | 1-9/16 | 3-1/2 | 1-1/8 |



Fig. 755

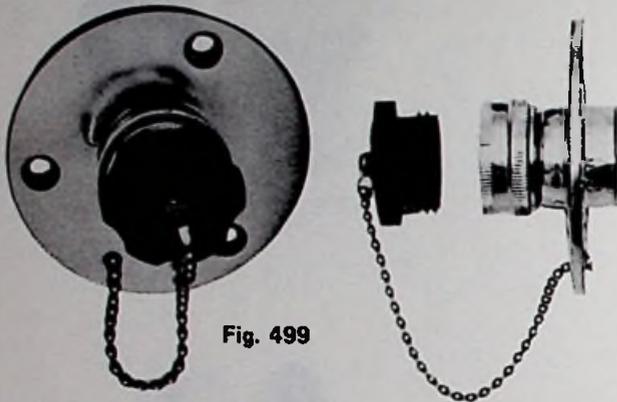


Fig. 499

FRESH WATER INLET FITTING – Fig. 499

Pressure Cast Bronze – Chromium Plated

For obtaining fresh water under pressure at dockside. For all types and sizes of vessels but particularly useful on houseboats.

External portion has a swivel hose connector, standard size, with watertight plug and stainless steel bead chain.

Internal portion has 1/2 inch female N.P. thread.

| Each | Diameter Flange Inches | Weight Ounces |
|------|------------------------|---------------|
| | 2-3/4 | 8 |

Spare Cap with Chain, Specify Fig. 499-99 A.



Fig. 467

GALLEY AND LAVATORY PUMP – Fig. 467

Bronze – Chromium Plated

Inlet Valve Designed to Hold Prime, Pump has Leakproof Neoprene U-Cup Seals

| Chromium Plated Each | Diam. Barrel Inches | Length Neck Inches | Threaded For Pipe Inches | Weight Pounds |
|----------------------|---------------------|--------------------|--------------------------|---------------|
| | 1-1/2 | 2-1/2 | 1/2 | 3-1/2 |

Spare Handle Only, Specify Fig. 467-99A.
 Repair Kit, Consisting of Rubber Plunger, Seal, Valve, Washer and Spring. Specify Fig. 467-99B.

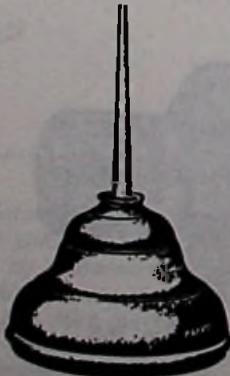


Fig. 326

ZINC MARINE OILERS—Fig. 326

Spring Brass Bottom

| Complete Each | Capacity Ounces | Diam. Inches | Length Spout Inches | Weight Ounces |
|---------------|-----------------|--------------|---------------------|---------------|
| | 8 | 4 | 4 | 4 |

Standard Package, 10 Pieces. Minimum Quantity.

Spare Spouts, Specify Fig. 326-99 A.

NEW COCKPIT SCUPPER — Fig. 285

Molded Durable White Plastic — For Use with 1-1/2" I.D. Hose.

Designed for fast removal of water in cockpits and on decks. Features molded plastic insert that prevents large objects from entering without restricting water flow.

| Each | Dia. Flange | Dia. Opening | Weight Ounces |
|------|-------------|--------------|---------------|
| | 2-3/4 | 1-1/2 | 5 |

Standard Package, 5 Pieces

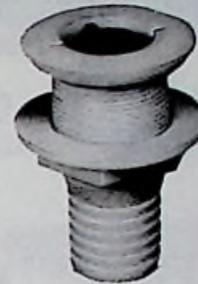


Fig. 285



COCKPIT SCUPPER—Fig. 142

Cast Bronze — With Rubber Ball Back Water Check

Especially needed in sailboats when outlet is below the waterline. With key for removing cap.

Angle of outlet is 45 degrees.

| No. | Plain Each | Chromium Plated Each | For Diam. Hose Inches | Diameter Flange Inches | Diameter Grate Inches | Weight Pounds |
|-----|------------|----------------------|-----------------------|------------------------|-----------------------|---------------|
| 1 | | | 1 | 3-1/4 | 1-13/16 | 1-1/4 |
| 2 | | | 1-1/2 | 3-3/4 | 2-1/4 | 2 |

Spare Caps, Specify Fig. 142-99A Size and Finish
Spare Ball Checks, Specify Fig. 142-99 B and Size
Spare Keys, See Fig. 1248 No. 8

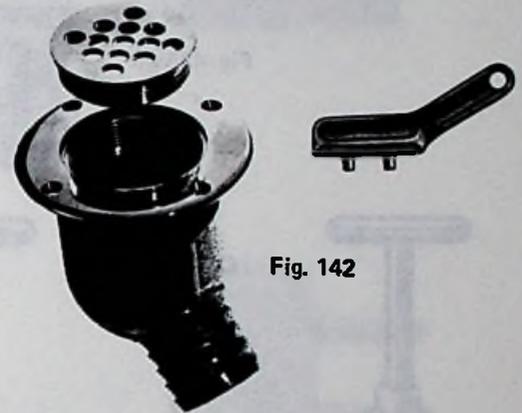


Fig. 142

JUNIOR STRAINER — Fig. 709

Cast Bronze — For 5/8 Inch Hose

| Each | Length Overall Inches | Width Inches | Weight Ounces |
|------|-----------------------|--------------|---------------|
| | 3-5/8 | 1-3/4 | 6 |

Standard Package, 5 Pieces.



Fig. 709

NAVY PUMP STRAINERS

Figs. 704, 705, 721 & 722

Cast Bronze

| Fig. | Each | Pipe Thread Inches | For Hose Inches | Length Inches | Width Inches | Weight Pounds |
|------|------|--------------------|-----------------|---------------|--------------|---------------|
| 704 | | | 1-1/4 | 7 | 2-3/4 | 2 |
| 705 | | | 1-1/4 | 4-3/4 | 2-3/4 | 1-1/2 |
| 721 | | 1-1/4 | | 5 | 2-3/4 | 1-1/2 |
| 722 | | 1-1/4 | | 4-3/4 | 2-3/4 | 1-3/8 |



Fig. 704

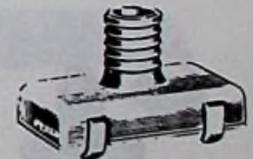


Fig. 705



Fig. 721



Fig. 722

SMALL BOAT DRAINER — Fig. 386

Threaded Type — Cast Bronze

Install in after end of boat and be sure that mouth is toward the stern. Made for hulls 3/8 inch or thicker but may be used with thinner hulls by cutting away necessary portion of neck. Depth of mouth below hull is 3/4 inch.

| Each | Height Inside Boat Inches | Width Overall Inches | Weight Pounds |
|------|---------------------------|----------------------|---------------|
| | 2-3/4 | 2-1/2 | 1-1/4 |



Fig. 386



Fig. 414



Fig. 414 SP

TRANSOM DRAIN PLUGS – Fig. 414
Brass – Expanding Plug with Safety Chain

| No. | Complete Each | Diam. Tube Inches | Length Overall Inches | Length Tube Inches | Weight Ounces |
|-----|---------------|-------------------|-----------------------|--------------------|---------------|
| 1 | | 1 | 2-1/2 | 2 | 4-1/2 |
| 2 | | 1 | 3-1/4 | 2-3/4 | 5 |

Standard Package, 10 Pieces

Spare Plugs with Chain, Specify Fig. 414-99A.
 Spare Tubes, Specify Fig. 414-99B and Size.



SKIN PACK – Fig. 414-SP

Size No.1

One Plug and Tube Per Card,
 Twelve Cards Per Box,
 Weight Per Box, 4 Pounds

Sold To Trade In Full Box Only.



Fig. 263



Fig. 363



Fig. 266

GARBOARD DRAIN PLUGS – Figs. 263, 363 & 266
 Cast Bronze

Figs. 263 and 266

| Each | Pipe Size Inches | Diam. Flange Inches | Depth Inches | Weight Ounces |
|------|------------------|---------------------|--------------|---------------|
| | 3/4 | 2-5/8 | 5/8 | 11 |

Fig. 363

For plywood, fibreglass or metal hulls.

| No. | Each | Pipe Size Inches | Diam. Flange Inches | Length Threaded Neck Inches | Max. Hull Thickness Inches | Weight Ounces |
|-----|------|------------------|---------------------|-----------------------------|----------------------------|---------------|
| 3 | | 3/4 | 2-3/8 | 1-1/4 | 3/4 | 14-1/2 |

Standard Package, 5 Pieces

Spare Plugs, Specify Fig. 370.



Fig. 714 No. 1



Fig. 737 No. 1



Fig. 714 No. 2



Fig. 737 No. 2

GARBOARD DRAIN PLUGS – Figs. 714 & 737

Pressure Cast Bronze

Figs. 737 No. 1 and 737 No. 2 have extra brass flange and 3 F.H. machine screws, maximum space between flanges is 7/16 inches.

| Fig. | No. | Each | Pipe Size Inches | Diam. Flange Inches | Depth Inches | Weight Ounces |
|------|-----|------|------------------|---------------------|--------------|---------------|
| 714 | 1 | | 1/2 | 2 | 5/8 | 3 |
| 714 | 2 | | 1/2 | 2 | 5/8 | 4 |
| 737 | 1 | | 1/2 | 2 | 5/8 | 6 |
| 737 | 2 | | 1/2 | 2 | 5/8 | 7 |

Standard Package, 5 Pieces

Spare Plugs For Figs. 714 and 737

Specify Fig. 742 and Size.



GARBOARD DRAIN PLUGS – Fig. 124

Cast Bronze – With Wrench

A few of these drain plugs installed in garboard allows quick drainage of boat when hauled out. Threads are tapered pipe sizes and plugs are watertight.

| Each | Pipe Size Inches | Diam. Flange Inches | Depth Inches | Weight Ounces |
|------|------------------|---------------------|--------------|---------------|
| | 1 | 3-1/8 | 1 | 10 |

Spare Wrench, Specify Fig. 124-99A.

Spare Plugs, Specify Fig. 124-99B.

Standard Package, 5 Pieces



Fig. 124

All Fittings on this page (Except Fig. 414) Have Been Tested and Accepted for Labeling and Listed by the Underwriters Laboratories Inc.



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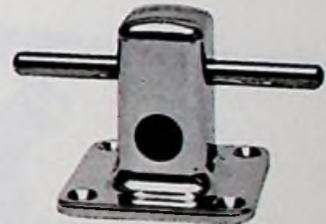
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equipment**

cleats & chocks

**chromalex[®]
deck fittings**

bow eyes

**transom handles
pulleys, etc.**

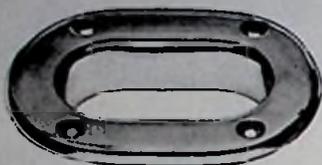


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IMPROVED

Fig. 752



Fig. 1250

HAWSE HOLE PLATE—Fig. 752 IMPROVED LOW PROFILE—MODERN DESIGN Cast Bronze

Generally used in the covering board or gunwale deck for passing a dock line to a cleat under the deck.

| Plain Bronze Each | Chromium Plated Each | Dimensions Overall Inches | Dimensions Inside Inches | Length Spigot Inches | Weight Pounds |
|-------------------|----------------------|---------------------------|--------------------------|----------------------|---------------|
| | | 4-1/8x6 | 2-1/4x4-1/8 | 1-1/16 | 1-1/2 |



HAWSE HOLE PLATE—Fig. 1250 New Modern Design. Die Cast Zinc Alloy-Chromium Plated

| EACH | Dimensions Overall Inches | Dimensions Inside Inches | Length Spigot Inches | Weight Ounces |
|------|---------------------------|--------------------------|----------------------|---------------|
| | 3-3/8x5-3/8 | 2-1/8x4-1/8 | 1-1/8 | 12-1/2 |



"SLIMLINE" CLEATS — Fig. 1252



Fig. 1252

Fig. 1252 — Die Cast Zinc Alloy — Chromium Plated

| Length Inches | Base Dimensions Inches | For Diam. Rope Inches | For Screw | Standard Package | Weight Ounces |
|---------------|------------------------|-----------------------|-----------|------------------|---------------|
| 6-1/2 | 3 x 1-1/8 | 3/4 | 1/4" | 5 | 7 |



STREAMLINE CLEATS — Fig. 566

Die Cast Zinc Alloy — Chromium Plated

| Length Inches | Each | Size Base Inches | For Diam. Rope Inches | For Screw No. | Standard Package | Weight Ounces |
|---------------|------|------------------|-----------------------|---------------|------------------|---------------|
| 2 | | 2-3/16x1-1/8 | 5/16 | 6 | 10 | 1-1/2 |
| 3 | | 3-1/8 x1-1/2 | 3/8 | 8 | 10 | 4-1/2 |
| 4-1/2 | | 4-7/16x1-7/8 | 1/2 | 10 | 10 | 8-1/2 |
| 6 | | 5-1/2 x2 | 3/4 | 12 | 5 | 13-1/2 |



SKIN PACK — Fig. 566-SP

| Length Inches | Units Per Card | Cards Per Box | Weight Per Box Pounds |
|---------------|----------------|---------------|-----------------------|
| 2 | 1 Pr. | 12 Prs. | 3-1/2 |
| 3 | 1 Pr. | 12 Prs. | 5-1/2 |
| 4-1/2 | 1 Pr. | 6 Prs. | 8-1/2 |
| 6 | 1 Ea. | 12 Pcs. | 13 |



Fig. 566 SP

Sold To Trade In Full Box Only

YACHT CLEATS

Fig. 572 – Cast Bronze – Chromium Plated

| Length Inches | Each | For Screw No. | Standard Package | Weight Pounds |
|---------------|------|---------------|------------------|---------------|
| 4-1/2 | | 10 | 10 | 1/2 |
| 5-1/2 | | 10 | 10 | 5/8 |
| 6-1/2 | | 12 | 10 | 3/4 |
| *8 | | 1/4" | 5 | 1-1/4 |
| *10 | | 5/16" | 1 | 2 |
| *12 | | 5/16" | 1 | 3 |

*These Sizes Are Hollow, Balance Of Sizes Are Solid.



Fig. 572 – Bronze
Fig. 1188 – Die Cast

Fig. 1188 – Die Cast Zinc Alloy – Chromium Plated

| Length Inches | Each | Width Base Inches | For Screw No. | Standard Package | Weight Ounces |
|---------------|------|-------------------|---------------|------------------|---------------|
| 4 | | 1-5/8 | 10 | 10 | 3-1/2 |
| 6 | | 1-3/4 | 10 | 10 | 7-1/2 |
| 8 | | 2 | 1/4" | 5 | 12 |



SKIN PACK – Fig. 1188-SP

| Length Inches | Units Per Card | Cards Per Box | Weight Per Box Pounds |
|---------------|----------------|---------------|-----------------------|
| 4 | 1 Pr. | 6 Prs. | 5 |
| 6 | 1 Ea. | 6 Pcs. | 4 |



Fig. 1188-SP

Sold To Trade In Full Box Only



YACHT CLEATS WITH STUDS – Fig. 1210

Die Cast Zinc Alloy – Chromium Plated

| Length Inches | Each | Width of Base Inches | Size Stud | Standard Package | Weight Ounces |
|---------------|------|----------------------|------------|------------------|---------------|
| 4 | | 1-5/8 | 12-24 x 2 | 10 | 4 |
| 6 | | 1-3/4 | 1/4-20 x 2 | 10 | 8 |
| 8 | | 2 | 1/4-20 x 2 | 5 | 12-1/2 |



Fig. 1210



SHIP'S CLEATS – Fig. 530

Cast Aluminum – Plain Finish

| Length Inches | Each | Size of Base Inches | Holes for Diam. Bolts Inches | Weight Pounds |
|---------------|------|---------------------|------------------------------|---------------|
| 8 | | 4 x2-1/4 | 1/2 | 1-1/8 |
| 10 | | 4-1/2x3 | 1/2 | 1-3/4 |
| 12 | | 6-1/2x2-7/8 | 5/8 | 3-1/2 |
| 15 | | 7 x3-1/4 | 3/4 | 4-7/8 |



Fig. 530



Fig. 544



BOAT CLEATS—Fig. 544

Cast Bronze — Polished or Chromium Plated

| Length Inches | Polished Bronze Each | Chrome Plated Each | Size Base Inches | For Screw No. | Standard Package | Weight Pounds |
|---------------|----------------------|--------------------|------------------|---------------|------------------|---------------|
| • 3 | | | 1-1/2x5/8 | 8 | 10 | 1/8 |
| • 4 | | | 1-5/8x3/4 | 10 | 10 | 1/4 |
| • 5 | | | 2 x7/8 | 1/4" | 10 | 3/8 |
| • 6 | | | 2-1/4x7/8 | 1/4" | 5 | 1-5/8 |
| 8 | | | 2-5/8x1-1/8 | 1/4" | 1 | 2 |
| 10 | | | 3-5/8x1-1/2 | 5/16" | 1 | 2-1/8 |

*These sizes are solid base type.

Balance of sizes are open base type.



Fig. 544-SP

SKIN PACK — Fig. 544-SP

Length Overall 4" — Chromium Plated

One Cleat Per Card,

Six Cards Per Box,

Weight Per Box, 2½ Pounds.

Sold To Trade In Full Box Only



Fig. 545



BOAT CLEATS — Fig. 545

Pressure Cast Aluminum — Plain Finish

| Length Inches | Each | Size Base Inches | For Screw No. | Standard Package | Weight Ounces |
|---------------|------|------------------|---------------|------------------|---------------|
| • 3 | | 1-1/2x5/8 | 8 | 10 | 1-1/2 |
| • 4 | | 1-5/8x3/4 | 10 | 10 | 2 |
| • 5 | | 2 x7/8 | 1/4" | 10 | 3 |
| • 6 | | 2-1/4x7/8 | 1/4" | 10 | 4 |
| 8 | | 2-5/8x1-1/8 | 1/4" | 10 | 5 |
| 10 | | 3-5/8x1-1/2 | 5/16" | 5 | 9 |
| 12 | | 4 x1-1/2 | 5/16" | 5 | 14 |

*These sizes are solid base type.

Balance of sizes are open base type.

MOORING BITTS— Figs. 608 & 1219

Fig. 608 is Cast Bronze, Chromium Plated
 Fig. 1219 is Die Cast Zinc Alloy, Chromium Plated

| No. | Fig. 608 Each | Fig. 1219 Each | Size Base Inches | Height Inches | For Bolt Size | Weight Pounds |
|-------|---------------|----------------|------------------|---------------|---------------|---------------|
| 1 | | N.A. | 3 x3 | 2-1/2 | 10 | 7/8 |
| 2 | | N.A. | 4-1/4x4-1/4 | 3-1/2 | 1/4" | 1-7/8 |
| 2-1/2 | | | 5 x5 | 4-3/4 | 3/8" | 3-1/2 |
| 3 | | N.A. | 6 x6 | 5 | 3/8" | 4-1/2 |



COMBINATION BITT AND ROPE DECK PIPES—

Figs. 431 & 1237

Same as Above. Hollow Body is Drilled to Allow Passage of Line Below Deck.

| No. | Fig. 431 Each | Fig. 1237 Each | For Diam. Rope Inches | Weight Pounds |
|-------|---------------|----------------|-----------------------|---------------|
| 2 | | N.A. | 3/4 | 1-3/4 |
| 2-1/2 | | | 1 | 3-1/4 |
| 3 | | N.A. | 1 | 4 |



ROPE AND CHAIN DECK PIPE—Fig. 750

For Lightweight Anchors Using Chain —
 Cast Bronze — Chromium Plated

When lightweight anchors are used a short length of chain is generally shackled to the rope line.

This deck pipe will accommodate 3/4 inch line on a thimble, the shackle and 1/4 inch chain. It has a hook for hanging the chain, the weight of which holds the cover down.

| Each | Dimensions of Flange Inches | Dimensions Inside Inches | Height Inches | Weight Pounds |
|------|-----------------------------|--------------------------|---------------|---------------|
| | 5-1/4x4 | 3-3/4x2-1/2 | 1-3/8 | 2 |

Spare Cover With Hook and Safety Cord, Fig. 750-99 A.



ROPE DECK PIPE—Fig. 757

Die Cast Zinc Alloy — Chromium Plated
 With Hinged Cover

| Each | For Diam. Rope Inches | Inside Diameter Inches | Diameter Flange Inches | Weight Pounds |
|------|-----------------------|------------------------|------------------------|---------------|
| | 1 | 1-3/4 | 3-3/8 | 1/2 |



ROPE DECK PIPES—Fig. 741

Chromium Plated

Size No. 0 is Pressure Cast Bronze
 Size No. 1 is Cast Bronze

| No. | Each | For Diam. Rope Inches | Inside Diam. Inches | Diam. Flange Inches | For Screw No. | Weight Pounds |
|-----|------|-----------------------|---------------------|---------------------|---------------|---------------|
| 0 | | 5/8 | 1-1/4 | 3 | 8 | 3/4 |
| 1 | | 3/4 & 1 | 1-5/8 | 4-1/4 | 8 | 1-5/8 |

Spare caps with Chain, Fig. 741-0-99A; Fig. 741-1-99A.



Fig. 608 Bronze
 Fig. 1219 Die Cast

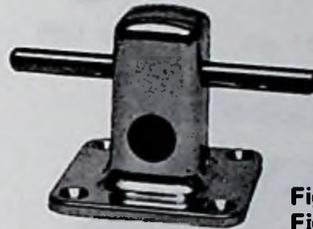


Fig. 431 — Bronze
 Fig. 1237 — Die Cast



Fig. 750



Fig. 757



Fig. 741

"CHROMALEX® MARK I" DECK FITTINGS
PATENT NO. 3,828,714
DIE CAST ZINC ALLOY BODIES – POLISHED CHROMIUM PLATED
BLACK BASES OF TOUGH HIGH IMPACT PLASTIC



Fig. 1305



Fig. 1315



Fig. 1305-SP



Fig. 1306

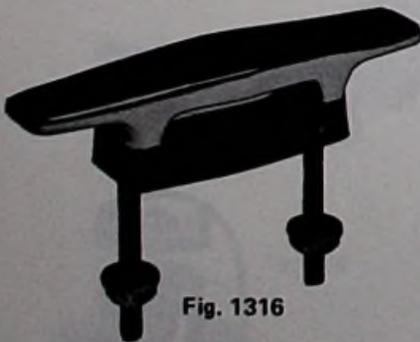


Fig. 1316



Fig. 1306-SP

CLOSED BASE CLEATS—Figs. 1305 & 1315

Fig. 1305 For Screws or Bolts

Fig. 1315 With Studs, Nuts and Washers

| No. | Fig. 1305 Each | Fig. 1315 Each | Length Overall Inches | Base Inches | For Diam. Rope Inches | Weight Ounces | |
|-----|----------------|----------------|-----------------------|-------------|-----------------------|---------------|-------|
| 1 | | | 4-1/2 | 3-3/4 | 1-1/16 | 3/8 | 5-1/2 |
| 2 | | | 6 | 5 | x1-3/8 | 1/2 | 11 |

O.E.M. Package, Fig. 1315 No. 2, 40 pieces. Balance, 50 Pieces.

Fig. 1305 No. 1 for No. 10 Screws.

Fig. 1305 No. 2 for 1/4" Screws.

Fig. 1315 No. 1 Stud is 12-24" x 1-1/2" below base.

Fig. 1315 No. 2 Stud is 1/4" x 1-1/2" below base.

SKIN PACK – Fig. 1305-SP

| No. | Per Pair | Length Inches | Units Per Card | Cards Per Box | Weight Per Box Pounds |
|-------|----------|---------------|----------------|---------------|-----------------------|
| No. 1 | | 4-1/2 | 1 Pr. | 6 Pr. | 4 |
| No. 2 | | 6 | 1 Ea. | 6 Ea. | 4 |

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OPEN BASE CLEATS—Figs. 1306 & 1316

Fig. 1306 For Screws or Bolts

Fig. 1316 With Studs, Nuts and Washers

| No. | Fig. 1306 Each | Fig. 1316 Each | Length Overall Inches | Base Inches | For Diam. Rope Inches | Weight Ounces | |
|-----|----------------|----------------|-----------------------|-------------|-----------------------|---------------|--------|
| 1 | | | 4-1/2 | 2-1/2 | x1-1/16 | 3/8 | 5 |
| 2 | | | 6 | 3-1/4 | x1-3/8 | 1/2 | 10-1/2 |

O.E.M. Package, Fig. 1316 No. 2, 40 pieces. Balance, 50 Pieces.

Fig. 1306 No. 1 for No. 10 Screws

Fig. 1306 No. 2 for 1/4" Screws.

Fig. 1316 No.1 Stud is 12-24" x 1-1/2" below base.

Fig. 1316 No. 2 Stud is 1/4" x 1-1/2" below base.

SKIN PACK – Fig. 1306-SP

| No. | Per Pair | Length Inches | Units Per Card | Cards Per Box | Weight Per Box Pounds |
|--------|----------|---------------|----------------|---------------|-----------------------|
| No. 1 | | 4-1/2 | 1 Pr. | 6 Pr. | 4 |
| No. 2. | | 6 | 1 Ea. | 6 Ea. | 4 |

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 PATENT NO. 3,828,714
DIE CAST ZINC ALLOY BODIES – CHROMIUM PLATED
BLACK PLASTIC BASES AND TOP INSERTS FOR ACCENT

CLOSED BASE CLEATS – Fig. 1405

For Screws or Bolts.

| No. | Length Overall Inches | Base Inches | For Rope Inches | For Screw No. | Weight Ounces |
|-----|-----------------------|--------------|-----------------|---------------|---------------|
| 1 | 4-1/2 | 3-3/4x1-1/16 | 3/8 | 10 | 5-1/2 |
| 2 | 6 | 5 x1-3/8 | 1/2 | 1/4" | 11 |



Fig. 1405

O.E.M. Package, 50 Pieces.

CLOSED BASE CLEATS – Fig. 1415

With Studs, Nuts and Washers.

| No. | Length Overall Inches | Base Inches | For Rope Inches | Stud Size | Weight Ounces |
|-----|-----------------------|--------------|-----------------|--------------|---------------|
| 1 | 4-1/2 | 3-3/4x1-1/16 | 3/8 | 12-24x1-1/2 | 5-1/2 |
| 2 | 6 | 5 x1-3/8 | 1/2 | 1/4-20x1-1/2 | 11 |



Fig. 1415

O.E.M. Package, Size No. 1 - 50 Pieces, Size No. 2 - 40 Pieces.

OPEN BASE CLEATS – Fig. 1406

For Screws or Bolts.

| No. | Length Overall Inches | Base Inches | For Rope Inches | For Screw No. | Weight Ounces |
|-----|-----------------------|--------------|-----------------|---------------|---------------|
| 1 | 4-1/2 | 2-1/2x1-1/16 | 3/8 | 10 | 5 |
| 2 | 6 | 3-1/4x1-3/8 | 1/2 | 1/4" | 10 |
| 3 | 8 | 3-7/8x1-1/2 | 3/4 | 1/4" | 12 |



Fig. 1406

O.E.M. Package, 50 Pieces

OPEN BASE CLEATS – Fig. 1416

With Studs, Nuts and Washers.

| No. | Length Overall Inches | Base Inches | For Rope Inches | Stud Size | Weight Ounces |
|-----|-----------------------|--------------|-----------------|--------------|---------------|
| 1 | 4-1/2 | 2-1/2x1-1/16 | 3/8 | 12-24x1-1/2 | 5 |
| 2 | 6 | 3-1/4x1-3/8 | 1/2 | 1/4-20x1-1/2 | 10-1/2 |
| 3 | 8 | 3-7/8x1-1/2 | 3/4 | 1/4-20x1-1/2 | 12 |



Fig. 1416

O.E.M. Package, Size No. 1 - 50 Pieces, Size No. 2 - 40 Pieces,
 Size No. 3 - 30 Pieces

See Section "M" For Our "Chromalex®" III Teak Deck Fittings
 Also, Section "L" For "Chromalex®" III Deck Fittings Available in Skin Pack.

"CHROMALEX® MARK I" DECK FITTINGS
PATENT NO. 3,828,714
DIE CAST ZINC ALLOY BODIES – POLISHED CHROMIUM PLATED
BLACK BASES OF TOUGH HIGH IMPACT PLASTIC



Fig. 1307



Fig. 1317



Fig. 1307 SP

SKENE TYPE CHOCKS—Figs. 1307 & 1317

Fig. 1307 For Screws or Bolts

Fig. 1317 With Studs, Nuts and Washers

| No. | Fig. 1307 Per Pair | Fig. 1317 Per Pair | Length Overall Inches | Width Base Inches | For Diam. Rope Inches | Weight Per Pair Ounces |
|-----|--------------------|--------------------|-----------------------|-------------------|-----------------------|------------------------|
| 1 | | | 3-1/2 | 7/8 | 3/8 | 5 |
| 2 | | | 5 | 1-1/4 | 1/2 | 12 |

O.E.M. Package, Fig. 1307 No. 1, 50 pairs. Balance, 25 pairs.

Fig. 1307 No. 1 for No. 10 Screws.

Fig. 1307 No. 2 for 1/4" Screws.

Fig. 1317 No. 1 Stud is 12-24"x 1-3/4" below base.

Fig. 1317 No. 2 Stud is 1/4"x 1-3/4" below base.

SKIN PACK – Fig. 1307-SP

| No. | Per Pair | Length Overall Inches | Units Per Card | Cards Per Box | Weight Per Box Pounds |
|-----|----------|-----------------------|----------------|---------------|-----------------------|
| 1 | | 3-1/2 | 1 Pr. | 12 Pr. | 3-1/2 |
| 2 | | 5 | 1 Pr. | 6 Pr. | 4 |

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Fig. 1308



Fig. 1318



Fig. 1308 SP

STRAIGHT TYPE CHOCKS—Figs. 1308 & 1318

Fig. 1308 For Screws or Bolts

Fig. 1318 With Studs, Nuts and Washers

| No. | Fig. 1308 Per Pair | Fig. 1318 Per Pair | Length Overall Inches | Width Base Inches | For Diam. Rope Inches | Weight Per Pair Ounces |
|-----|--------------------|--------------------|-----------------------|-------------------|-----------------------|------------------------|
| 1 | | | 3-1/2 | 7/8 | 3/8 | 5 |
| 2 | | | 5 | 1-1/4 | 1/2 | 12 |

O.E.M. Package, Fig. 1308 No. 1, 50 Pairs.
 Balance, 25 Pairs.

Fig. 1308 No. 1 for No. 10 Screws.

Fig. 1308 No. 2 for 1/4" Screws.

Fig. 1318 No. 1 Stud is 12-24"x 1-3/4" below base.

Fig. 1318 No. 2 Stud is 1/4"x 1-3/4" below base.

SKIN PACK – Fig. 1308-SP

| No. | Per Pair | Length Overall Inches | Units Per Card | Cards Per Box | Weight Per Box Pounds |
|-----|----------|-----------------------|----------------|---------------|-----------------------|
| 1 | | 3-1/2 | 1 Pr. | 12 Pr. | 3-1/2 |
| 2 | | 5 | 1 Pr. | 6 Pr. | 4 |

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BLACK PLASTIC BASES AND TOP INSERTS FOR ACCENT

SKENE TYPE CHOCKS – Fig. 1407

For Screws or Bolts.

| No. | Length Overall Inches | Width Base Inches | For Rope Inches | For Screw No. | Weight Per Pair Ounces |
|-----|-----------------------|-------------------|-----------------|---------------|------------------------|
| 1 | 3-1/2 | 7/8 | 3/8 | 10 | 5 |
| 2 | 5 | 1-1/4 | 1/2 | 1/4" | 12 |



Fig. 1407

O.E.M. Package, 50 Pair.

SKENE TYPE CHOCKS – Fig. 1417

With Studs, Nuts and Washers.

| No. | Length Overall Inches | Width Base Inches | For Rope Inches | Stud Size | Weight Per Pair Ounces |
|-----|-----------------------|-------------------|-----------------|--------------|------------------------|
| 1 | 3-1/2 | 7/8 | 3/8 | 12-24x1-3/4 | 5 |
| 2 | 5 | 1-1/4 | 1/2 | 1/4-20x1-3/4 | 12 |



Fig. 1417

O.E.M. Package, Size No. 1 - 50 Pair, Size No. 2 - 25 Pair.

STRAIGHT TYPE CHOCKS – Fig. 1408

For Screws or Bolts.

| No. | Length Overall Inches | Width Base Inches | For Rope Inches | For Screw No. | Weight Per Pair Ounces |
|-----|-----------------------|-------------------|-----------------|---------------|------------------------|
| 1 | 3-1/2 | 7/8 | 3/8 | 10 | 5 |
| 2 | 5 | 1-1/4 | 1/2 | 1/4" | 12 |



Fig. 1408

O.E. M. Package, 50 Pair.

STRAIGHT TYPE CHOCKS – Fig. 1418

With Studs, Nuts and Washers.

| No. | Length Overall Inches | Width Base Inches | For Rope Inches | Stud Size | Weight Per Pair Ounces |
|-----|-----------------------|-------------------|-----------------|--------------|------------------------|
| 1 | 3-1/2 | 7/8 | 3/8 | 12-24x1-3/4 | 5 |
| 2 | 5 | 1-1/4 | 1/2 | 1/4-20x1-3/4 | 12 |



Fig. 1418

O.E.M. Package, Size No. 1 - 50 Pair, Size No. 2 - 25 Pair.



Fig. 1223

SKENE BOW CHOCKS—Fig. 1223

Die Cast Zinc Alloy — Chromium Plated

| Per Pair | Length Overall Inches | Width Inches | For Diam. Rope Inches | For Screw No. | Weight Per Pair Ounces |
|----------|-----------------------|--------------|-----------------------|---------------|------------------------|
| | 3-1/2 | 7/8 | 1/2 | 8 | 4 |

Standard Package, 10 Pairs.



SKIN PACK — Fig. 1223-SP

One Pair Per Card.
 Twelve Cards Per Box.
 Weight Per Box, 4½ Pounds.

Sold To Trade In Full Box Only.



Fig. 1223-SP

MODERN DESIGN BOW CHOCKS WITH STUDS—Fig. 1257

Die Cast Zinc Alloy — Chromium Plated

Studs are 12/24 x 1-5/8" long — with nuts and washers

| Per Pair | Length Overall Inches | Width Inches | For Diam. Rope Inches | For Screw No. | Weight Per Pair Ounces |
|----------|-----------------------|--------------|-----------------------|---------------|------------------------|
| | 4 | 15/16 | 1/2 | 8 | 9 |

Standard Package, 10 Pairs.
 O.E.M. Package, 40 Pairs.



Fig. 1257

BOW CHOCKS—Fig. 546

Cast Bronze — Chromium Plated

| Lgth. Inches | Per Pair | Width Inches | For Diam. Rope Inches | For Screw No. | Standard Package | Wt. Per Pair Lbs. |
|--------------|----------|--------------|-----------------------|---------------|------------------|-------------------|
| 3 | | 5/8 | 3/8 | 8 | 5 Pr. | 1/4 |
| 4 | | 3/4 | 5/8 | 10 | 5 Pr. | 1/2 |
| 5 | | 7/8 | 7/8 | 10 | 5 Pr. | 1 |
| 6 | 1 | | 1 | 14 | 1 Pr. | 1-1/2 |
| 8 | | 1-1/4 | 1-1/8 | 14 | 1 Pr. | 3 |



SKIN PACK — Fig. 546-SP

Length Inches 4 — Chromium Plated

One Pair Per Card.
 Six Cards Per Box.
 Weight Per Box, 4 Pounds.

Sold To Trade In Full Box Only.



Fig. 546



Fig. 546-SP

SKENE BOW CHOCKS—Fig. 160

Cast Bronze — Chromium Plated

| Size No. | Per Pair | Length Inches | Width Inches | For Diam. Rope Inches | Standard Package | Weight Per Pair Pounds |
|----------|----------|---------------|--------------|-----------------------|------------------|------------------------|
| 1 | | 4-1/2 | 3/4 | 5/8 | 5 Pr. | 3/4 |
| 2 | | 5-1/8 | 1-1/8 | 3/4 | 5 Pr. | 1-1/2 |
| 3 | | 7-1/4 | 1-3/8 | 7/8 | 1 Pr. | 4 |



Fig. 160



SKENE STERN CHOCKS—Fig. 161

Cast Bronze — Chromium Plated

| Size No. | Each | Length Inches | Width Inches | For Diam. Rope Inches | Standard Package | Weight Each Pounds |
|----------|------|---------------|--------------|-----------------------|------------------|--------------------|
| 11 | | 4 | 7/8 | 5/8 | 5 | 1/2 |
| 12 | | 5-3/4 | 1-1/4 | 3/4 | 5 | 1 |
| 13 | | 7 | 1-5/8 | 7/8 | 1 | 2 |



Fig. 161



STRAIGHT STERN CHOCKS—Fig. 119

Cast Bronze — Chromium Plated

| Length Inches | Each | Width Inches | For Diam. Rope Inches | For Screw No. | Standard Package | Wt. Each Lbs. |
|---------------|------|--------------|-----------------------|---------------|------------------|---------------|
| 4 | | 7/8 | 3/4 | 8 | 5 | 1/4 |
| 5 | | 1 | 7/8 | 10 | 5 | 1/2 |
| 6 | | 1-1/8 | 1 | 12 | 1 | 3/4 |
| 8 | | 1-5/8 | 1-1/8 | 14 | 1 | 1-1/2 |



Fig. 119



SKIN PACK — Fig. 119-SP

Length Inches 4 — Chromium Plated

One Per Card.

Six Cards Per Box.

Weight Per Box, 2½ Pounds.

Sold To Trade In Full Box Only.



Fig. 119-SP



STRAIGHT CHOCK — Fig. 1230

Die Cast Zinc Alloy — Chromium Plated

| Length Inches | Per | Width Inches | For Diameter Rope Inches | For Screw Number | Standard Package | Per Pair Weight Ounces |
|---------------|-----|--------------|--------------------------|------------------|------------------|------------------------|
| 4 | | 7/8 | 3/4 | 8 | 10 Pr | 6 |



Fig. 1230

O.E.M. Package, 50 pr.

NOTE: THE BOW EYES & TRANSOM EYES ILLUSTRATED ON THIS PAGE ARE NOT DESIGNED TO BEAR THE WEIGHT OF THE VESSEL AND THEREFORE SHOULD NOT BE USED FOR LIFTING.

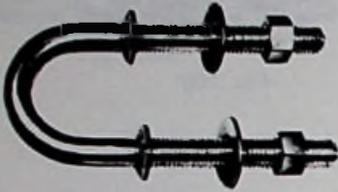


Fig. 237

BOW EYES—Fig. 237
300 Series Non-Magnetic Stainless Steel

| No. | Each | Length Shank Inches | Diameter Metal Inches | Length Thread Inches | Inside Eye Inches | Weight Ounces | Safe Working Load Pounds |
|-----|------|---------------------|-----------------------|----------------------|-------------------|---------------|--------------------------|
| 1 | | 3 | 5/16 | 3 | 1 | 4 | 1800 |
| 2 | | 6 | 5/16 | 6 | 1 | 5-1/2 | 1800 |
| 3 | | 3 | 3/8 | 3 | 1-1/8 | 5 | 3000 |
| 4 | | 3-1/4 | 1/2 | 3-1/4 | 1-1/2 | 12 | 4600 |

Standard Package, Nos.1 thru 3, 10 Pieces. No. 4, 5 Pieces.



Fig. 237-SP

SKIN PACK – Fig. 237-SP

Length Shank 3 Inches

One Per Card.

Six Cards Per Box.

Weight Per Box, 2 Pounds.

Sold to Trade In Full Box Only.

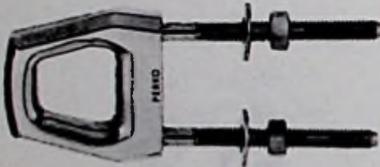


Fig. 1235

BOW EYES—Fig. 1235

Die Cast Zinc Alloy – Chromium Plated – Forged Steel Shanks, Nut and Washer – Shanks Are One Continuous "U" Bolt Cast Inside Eye.

| Each | Length Shank Inches | Length Thread Inches | Diameter Shank Inches | Inside Eye Inches | Standard Package | Weight Ounces |
|------|---------------------|----------------------|-----------------------|-------------------|------------------|---------------|
| | 3 | 2-3/4 | 3/8 | 1 | 10 | 11 |

O.E.M. Package, 50.

SAFE WORKING LOAD 2000 POUNDS

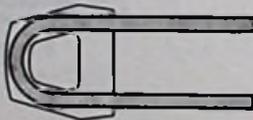


Fig. 1235-SP

SKIN PACK – Fig. 1235-SP

One Per Card.

Six Cards Per Box.

Weight Per Box, 4 1/4 Pounds.

Sold To Trade In Full Box Only.

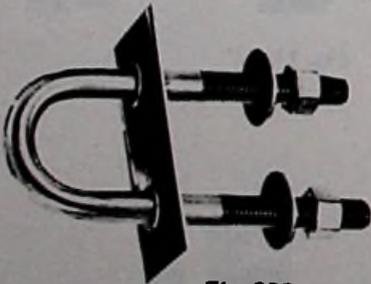


Fig. 236

TRANSOM EYES—Fig. 236
300 Series Non-Magnetic Stainless Steel

For use as towing or lashing eye, has heavy gauge stainless steel finishing plate, stainless steel nuts and washers.

| No. | Each | Diameter Metal Inches | Length Shank Inches | Inside Eye Inches | Dimensions Plate Inches | Weight Ounces | Safe Working Load Pounds |
|-----|------|-----------------------|---------------------|-------------------|-------------------------|---------------|--------------------------|
| 1 | | 5/16 | 3 | 1 | 3 x 1-3/4 | 6 | 1800 |
| 3 | | 3/8 | 3 | 1-1/8 | 3 x 1-3/4 | 10 | 3000 |
| 4 | | 1/2 | 3-1/4 | 1-1/2 | 4 x 1-3/4 | 14-1/2 | 4600 |

Standard Package, No. 1 – 10 Pieces. Balance 5 Pieces.

IMPORTANT NOTE

THE SAFE WORKING LOAD INFORMATION GIVEN FOR THE ITEMS ABOVE IS BASED ON A STRAIGHT AXIAL PULL. THIS INFORMATION WOULD NOT APPLY IN CASES WHERE INSTALLATION OR USE CREATES ANGULAR LOADING SINCE THESE VARIATIONS MAKE IT IMPRACTICABLE TO OFFER ACCURATE TEST DATA.

WATER SKI TOWING HOOK—Fig. 863

For Mounting Through Transom — Die Cast Zinc Alloy Hook
— Steel Bolt — All Chromium Plated.

Designed for both strength and looks. Polished chromium plated hook provides a good looking fitting and the steel core provides the necessary strength for enjoyable skiing.

| Each | Length Overall Inches | Diameter Bolt Inches | Length Bolt Inches | Length Thread Inches | Standard Package | Weight Ounces |
|------|-----------------------|----------------------|--------------------|----------------------|------------------|---------------|
| | 6 | 5/16 | 3-1/4 | 2-1/2 | 5 | 10 |

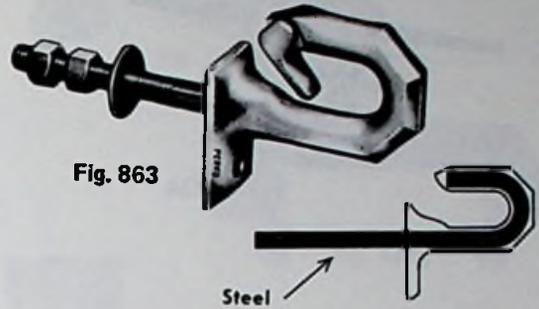


Fig. 863

Steel

SKIN PACK — Fig. 863-SP

One Per Card.

Six Cards Per Box.

Weight Per Box, 3 3/4 Pounds.

Sold To Trade In Full Box Only.



Fig. 863-SP

LASHING EYES—Fig. 423

Cast Manganese Bronze — Chromium Plated

| No. | Each | Size Plate Inches | Size Eye Inches | Size Bolt Inches | Weight Ounces |
|-----|------|-------------------|-----------------|------------------|---------------|
| 1 | | 4x2-1/2 | 1 | 1/4 | 8 |
| 2 | | 5x3-1/8 | 1-1/2x1 | 5/16 | 14-1/2 |

Standard Package, 5 Pieces.



Fig. 423

RINGS — Fig. 417

Brass

| No. | Inside Diam. Inches | Thickness Inches | Each | No. | Inside Diam. Inches | Thickness Inches | Each |
|-----|---------------------|------------------|------|-----|---------------------|------------------|------|
| 1 | 1/2 | 1/8 | | 4 | 1-1/4 | 3/16 | |
| 2 | 3/4 | 1/8 | | 5 | 1-1/2 | 7/32 | |
| 3 | 1 | 3/16 | | 6 | 1-3/4 | 1/4 | |
| | | | | 7 | 2 | 1/4 | |

Standard Package 10

Standard Package 5



Fig. 417

RING ON PLATE—Fig. 607

Galvanized Drop Forged Steel

| No. | Each | Size Ring Inches | Size Plate Inches | Standard Package | Weight Per 100 Pounds |
|-----|------|------------------|-------------------|------------------|-----------------------|
| 1 | | 5/16x1-1/2 | 2-1/8x2-1/8x1/4 | 5 | 33 |
| 2 | | 3/8 x 2 | 2-1/8x2-1/8x1/4 | 5 | 50 |



Fig. 607

RINGS WITH STRAPS—Fig. 1020

Cast Bronze

| Plain Bronze Each | Chromium Plated Each | Size Strap Inches | For Screw No. | Standard Package | Weight Ounces |
|-------------------|----------------------|-------------------|---------------|------------------|---------------|
| | | 4-1/8x5/8 | 8 | 5 | 4-1/2 |



Fig. 1020



Fig. 434

LIFTING EYE AND CLEAT—Fig. 434

Cast Manganese Bronze – Chromium Plated
For 5/8 Inch Rod

SAFE WORKING LOAD 4000 POUNDS

| Each | I.D. Eye Inches | Length Cleat Inches | Dimensions Base Inches | Weight Ounces |
|------|-----------------|---------------------|------------------------|---------------|
| | 1-1/16 | 5-1/2 | 3x2-1/2 | 18 |



LIFTING EYES—Figs. 429 & 430

Cast Manganese Bronze – Chromium Plated

SAFE WORKING LOAD 3000 POUNDS



Fig. 430
LOOSE FLANGE



Fig. 429
INTEGRAL FLANGE

| Fig. | Each | For Rod Inches | I.D. Eye Inches | O.D. Eye Inches | Weight Ounces |
|------|------|----------------|-----------------|-----------------|---------------|
| 429 | | 5/8 | 1-1/2 | 2-1/4 | 19 |
| 430 | | 5/8 | 1-1/2 | 2-1/4 | 17 |

IMPORTANT NOTE

THE SAFE WORKING LOAD INFORMATION GIVEN FOR THE ITEMS ABOVE IS BASED ON A STRAIGHT AXIAL PULL. THIS INFORMATION WOULD NOT APPLY IN CASES WHERE INSTALLATION OR USE CREATES ANGULAR LOADING SINCE THESE VARIATIONS MAKE IT IMPRACTICABLE TO OFFER ACCURATE TEST DATA.



HANDLE—Fig. 1234

Die Cast Zinc Alloy – Chromium Plated



Fig. 1234

| Chromium Plated Each | Length Overall Inches | Height Above Deck Inches | For Screw No. | Standard Package | Weight Ounces |
|----------------------|-----------------------|--------------------------|---------------|------------------|---------------|
| | 6-1/2 | 2 | 8 | 10 | 5-1/2 |



IMPROVED ANCHOR CHOCKS—Fig. 933

Cast Bronze

This new designed set is more streamlined, easier to install and fits Danforth® type Anchors up to 90 pounds.*

Consists of four parts illustrated. Head of shank is held fast by slotted casting and thumb screw.

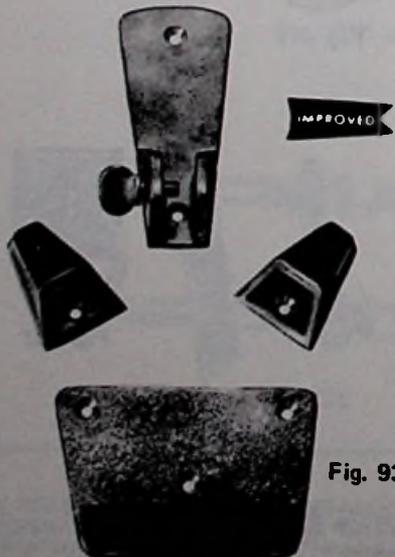


Fig. 933

| Figure | Plain Bronze | Plain Chromium Plated |
|-------------------------------------|--------------|-----------------------|
| 933 – Complete, per set | | |
| 933-99A – Shank support only, ea. | | |
| 933-99B – Fluke supports only, pair | | |
| 933-99C – Crown support only, ea. | | |
| 1144 – Thumb screw, ea. | | |

Weight per set, 2 pounds.

Standard package, 5-sets.

*Except 40-S, 65S, and 85-S Danforth's®

CHROMALEX® HANDLES – Figs. 1336 & 1346

Die Cast Zinc Alloy – Chromium Plated Tops
Black Plastic Bases.

Fig. 1336 for 1/4" Screws

Fig. 1346 with Studs, Nuts and Washers

| Fig. 1336 Each | Fig. 1346 Each | Length Overall Inches | Length Inside Inches | Width Overall Inches | Stud Size | Weight Ounces |
|----------------|----------------|-----------------------|----------------------|----------------------|--------------|---------------|
| | | 6-1/4 | 3-1/2 | 1-1/4 | 1/4-20x1-1/2 | 10 |



Fig. 1336

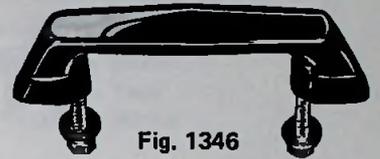


Fig. 1346

★
SKIN PACK – Fig. 1336-SP

One Pair Per Card.

Six Cards Per Box.

Weight Per Box, 7 Pounds.

Sold To Trade In Full Box Only.



Fig. 1336-SP

★
HANDLE—Fig. 1229

Die Cast Zinc Alloy – Chromium Plated

| Chromium Plated Each | Length Overall Inches | Length Inside Inches | For Screw No. | Standard Package | Weight Ounces |
|----------------------|-----------------------|----------------------|---------------|------------------|---------------|
| | 5-1/4 | 3-1/2 | 6 | 10 | 2-1/4 |



Fig. 1229

★
ROUND GRIP HANDLE—Fig. 1231

Die Cast Zinc Alloy – Chromium Plated

The round grip has no sharp edges and is ample to accommodate a man size hand.

| Each | Length Overall Inches | Length Inside Inches | Height Inside Inches | For Screw No. | Standard Package | Weight Ounces |
|------|-----------------------|----------------------|----------------------|---------------|------------------|---------------|
| | 6 | 3-1/2 | 1-5/16 | 1/4" | 10 | 7-1/4 |

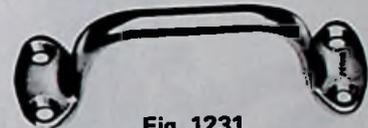


Fig. 1231

★
SKIN PACK – Fig. 1231-SP

One Pair Per Card.

Six Cards Per Box.

Weight Per Box, 6 1/2 Pounds.

Sold To Trade In Full Box Only.



Fig. 1231-SP

★
HANDLES—Fig. 775 & 1222

Pressure Cast Bronze Or Die Cast Zinc Alloy

| Fig. | No. | Chrome Plated Each | Length Overall Inches | Length Inside Inches | For Screw No. | Wt. Ozs. |
|------|-----|--------------------|-----------------------|----------------------|---------------|----------|
| 775 | 1 | | 4-1/4 | 2-5/8 | 6 | 2 |
| 775 | 2 | | 5-3/4 | 3-3/4 | 8 | 4 |
| 1222 | | | 5-3/4 | 3-3/4 | 8 | 3-1/2 |



Fig. 775 – Bronze
Fig. 1222 – Die Cast

Standard Package, 10 Pieces Each Size.

★
SKIN PACK – Fig. 775-SP

Length Overall 5 1/2 Inches.

One Pair Per Card.

Six Cards Per Box.

Weight Per Box, 4 Pounds.

Sold To Trade In Full Box Only.



Fig. 775-SP



Fig. 1526



Fig. 1526-SP



FIG. 1526—STEP PLATES

Molded Teak Plastic Non-Skid No Frame Required.

| No. | Each | Overall Dimensions Inches | For Screw No. | Standard Package | Weight Ounces |
|-----|------|---------------------------|---------------|------------------|---------------|
| 0 | 9 | x2-1/4 | 8 | 10 | 2 |
| 1 | | 9-7/8x2-7/8 | 8 | 10 | 4 |

SKIN PACK—Fig. 1526-SP

| No. | Per Pair | Overall Dimensions Inches | For Screw No. | Units Per Card | Cards Per Box | Weight Per Box Pounds |
|-----|----------|---------------------------|---------------|----------------|---------------|-----------------------|
| 1 | | 9-7/8x2-7/8 | 8 | 1 Pr. | 6 | 3-1/2 |

Sold to Trade In Full Box Only.



Fig. 1325



Fig. 1325-SP

"CHROMALEX®" STEP PLATES — Fig. 1325

Die Cast Zinc Alloy Frames — Chromium Plated
Molded Black Plastic Non-Skid Pads

| No. | Each | Overall Dimensions Inches | For Screw No. | Standard Package | Weight Ounces |
|-----|------|---------------------------|---------------|------------------|---------------|
| 0 | | 8-3/8x2-1/4 | 8 | 10 | 5 |
| 1 | | 8-3/4x3-1/4 | 8 | 10 | 8 |

See Section "M" For Our "Chromalex®" III Step Plates

SKIN PACK — Fig. 1325-SP

| No. | Per Pair | Dimensions Overall Inches | Units Per Card | Cards Per Box | Weight Per Box Pounds |
|-----|----------|---------------------------|----------------|---------------|-----------------------|
| 0 | | 8-3/8x2-1/4 | 1 Pr. | 6 | 6 |
| 1 | | 8-3/4x3-1/4 | 1 Pr. | 6 | 9-1/2 |

See Section "L" For Our "Chromalex®" III Skin Pack Step Plates
Sold To Trade In Full Box Only.



Fig. 1225



Fig. 1225-SP

STEP PLATES—Fig. 1225

Die Cast Zinc Alloy Frames — Chromium Plated
Molded White Plastic Non-Skid Pads

| No. | Complete Each | Dimensions Overall Inches | For Screw No. | Standard Package | Weight Ounces |
|-----|---------------|---------------------------|---------------|------------------|---------------|
| 0 | | 8-3/8x2-1/4 | 8 | 10 | 5 |
| 1 | | 8-3/4x3-1/4 | 8 | 10 | 8 |
| 2 | | 11-1/2x5-3/4 | 8 | 10 | 12 |

SKIN PACK — Fig. 1225-SP

| No. | Per Pair | Dimensions Overall Inches | Units Per Card | Cards Per Box | Weight Per Box Pounds |
|-----|----------|---------------------------|----------------|---------------|-----------------------|
| 0 | | 8-3/8x2-1/4 | 1 Pr. | 6 | 6 |
| 1 | | 8-3/4x3-1/4 | 1 Pr. | 6 | 9-1/2 |

STEP PLATES—Fig. 1043

Cast Bronze Frames — Chromium Plated
Molded White Plastic Non-Skid Pads

| No. | Complete Each | Overall Dimensions Inches | For Screw No. | Standard Package | Weight Pounds |
|-----|---------------|---------------------------|---------------|------------------|---------------|
| 0 | | 8 x2-1/4 | 4 | 6 | 1/2 |
| 1 | | 8-3/4x3-1/4 | 6 | 6 | 3/4 |
| 2 | | 11-1/2x5-3/4 | 8 | 6 | 1-3/4 |

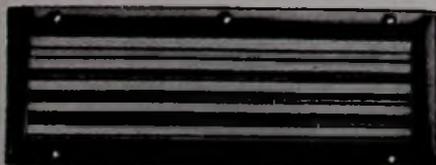


Fig. 1043

STEP PADS ONLY

Molded Plastic, Non-Skid Design

Fig. 1050-B Black

Fig. 1050-T Teak

Fig. 1050-W White

Without Frames — For Figs. 1043, 1225, 1325 & 1525

| Fig. 1050-B No. | Fig. 1050-T No. | Fig. 1050-W No. | Overall Dimensions Inches | Standard Package | Weight Ounces |
|-----------------|-----------------|-----------------|---------------------------|------------------|---------------|
| 0 | 0 | 0 | 7-3/8x1-1/2 | 5 | 1 |
| 1 | 1 | 1 | 7-7/8x2-1/2 | 5 | 2 |
| | | 2 | 10-5/8x4-3/4 | 5 | 4 |



Fig. 1050-B — Black
Fig. 1050-T — Teak
Fig. 1050-W — White



LADDER LOCKS—Fig. 669

For Companionway or Upper Berth — Pressure Cast

Bronze — Chromium Plated

| Height Inches | Length Socket Inches | Length Bracket Inches | Weight Per Set Ounces |
|---------------|----------------------|-----------------------|-----------------------|
| 1-1/4 | 1 | 1-3/4 | 12 |

Fig. 669 Complete,
Fig. 669-99A Spare Sockets,

Per Set.
Per Pair.



Fig. 669

A Set Consists of Four Pieces Illustrated.
Standard Package, 5 Sets.



FOLDING STEP—Fig. 344

Cast Bronze — Stainless Steel Spring

For mounting on hull or transom, folds up out of way when not in use. Spring holds step in position.

Mounting Holes for 5/16 Inch Bolt.

| Plain Bronze Each | Chromium Plated Each | Size Step Inches | Size Base Inches | Extends Folded Inches | Weight Pounds |
|-------------------|----------------------|------------------|------------------|-----------------------|---------------|
| | | 4x2 | 4-1/4x1-3/4 | 7/8 | 1-1/8 |

Spare Stainless Steel Springs, Fig. 344-99A.



Fig. 344
FOLDED OPEN



BOARDING STEP—Fig. 351

Cast Bronze

Designed for mounting on transom, permitting easy access to or from the water or for mounting on bulkhead for climbing to the flying bridge.

All high spots are polished.

| Plain Bronze Each | Chromium Plated Each | Dimensions Of Step Inches | Dimensions Mounting Bracket Inches | Weight Pounds |
|-------------------|----------------------|---------------------------|------------------------------------|---------------|
| | | 6x4-1/4 | 6x2 | 1-5/8 |



Fig. 351



BOARDING STEP—Fig. 501

Cast Bronze

| Plain Bronze Each | Chromium Plated Each | Dimensions Of Step Inches | Dimensions Mounting Bracket Inches | Weight Pounds |
|-------------------|----------------------|---------------------------|------------------------------------|---------------|
| | | 11x4-1/2 | 11x2 | 2-7/8 |



Fig. 501

ROWLOCK HORNS AND SOCKETS

DIE CAST ZINC ALLOY – NATURAL OR CHROMIUM PLATED FINISH
ALL SOCKETS HAVE DELRIN BEARING – SMOOTH AND QUIET



Fig. 1227



Fig. 1267



Fig. 1262

HORNS ONLY Straight Shanks

| Diameter Shank Inches | Length Shank Inches | Between Horns Inches | Inside Diameter Fig. 1267 Inches | Standard Package | Weight Per Pair Ounces |
|-----------------------|---------------------|----------------------|----------------------------------|------------------|------------------------|
| 1/2 | 1-3/4 | 1-3/4 | 2 | 10 Pr. | 9 |

| Fig. | Natural Finish Per Pair | Chromium Plated Per Pair |
|------|-------------------------|--------------------------|
| 1227 | | |
| 1262 | | |
| 1267 | | |

Spare Pins, Specify Fig. 1227, 99A, Standard Package, 10.



Fig. 1227-SP

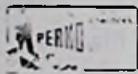


Fig. 1267-SP



Fig. 1262-SP

SKIN PACK – Figs. 1227-SP, 1262-SP and 1267-SP
Natural and Chromium Plated Finish

One Pair Per Card.

Six Cards Per Box.

Weight Per Box, 4 Pounds.

Sold To Trade In Full Box Only.



SOCKETS ONLY For Straight Shanks Above



Fig. 1185



Fig. 1186



Fig. 1187

| Fig. | Length Inches | Width Inches | Depth Inches | Standard Package | Weight Per Pair Ounces |
|------|---------------|--------------|--------------|------------------|------------------------|
| 1185 | 2-7/8 | 1-1/8 | 1-1/8 | 10 Pr. | 5 |
| 1186 | 4 | 7/8 | 1-1/8 | 10 Pr. | 9 |
| 1187 | 4 | — | 1-1/4 | 10 Pr. | 6 |

| Fig. | Natural Finish Per Pair | Chromium Plated Per Pair |
|------|-------------------------|--------------------------|
| 1185 | | |
| 1186 | | |
| 1187 | | |

Spare Delrin Bearings for Above Sockets
Specify Fig. 1155 – Standard Package 20.
Note, Each Socket Requires 2 Bearings.



Fig. 233

OAR LEATHERS AND BUTTONS—Fig. 233

Leather

| Per Pair | Dimension Leathers Inches | Dimension Buttons Inches | Standard Package | Weight Per Pair Ounces |
|----------|---------------------------|--------------------------|------------------|------------------------|
| | 7x6-1/2 | 1/2x13 | 5 Pr. | 10 |

Note, Pair Consists Of 2 Leathers and 2 Buttons.

NOTE, Combinations of Above Sockets and Horns Are Available In Skin Pack. See Skin Pack Section L.

BRONZE ROWLOCK HORNS AND SOCKETS CAST MANGANESE BRONZE – BURNISHED

HORNS ONLY

Straight Shanks

Figs. – 828, 829 & 830

| Fig. | Size No. | Between Horns Inches | Inside Diam. Inches | Diam. Shank Inches | Length Shank Inches | Weight Per Pair Ounces |
|------|----------|----------------------|---------------------|--------------------|---------------------|------------------------|
| 828 | | 2 | — | 1/2 | 2-1/8 | 13 |
| 829 | 0 | — | 2 | 1/2 | 2-1/8 | 14 |
| 829 | 1 | — | 2-1/4 | 1/2 | 2-1/8 | 16 |
| 830 | | 2-1/8 | — | 1/2 | 2-1/8 | 13 |



Fig. 828



Fig. 829

Fig. 830

Standard Package, 5 Pair.

Spare Pins, Specify Fig. 830-99A, Standard Package, 10.

SOCKETS ONLY

For Straight Shanks Above

| Fig. | Length Inches | Width Inches | Depth Inches | For Screw No. | Weight Per Pair Ounces |
|------|---------------|--------------|--------------|---------------|------------------------|
| 831 | 2-3/8 | 7/8 | 1 | 10 | 4 |
| 832 | 3-5/8 | — | 1-3/8 | 10 | 7 |
| 833 | 4 | 3/4 | 1-1/4 | 10 | 8 |



Fig. 831



Fig. 832



Fig. 833

Standard Package, 5 Pair.

TRANSOM PLATES—Fig. 1224

Die Cast Zinc Alloy – Chromium Plated Frame

Molded Soft Plastic Pad

For outboard motor brackets, saves wear and tear on transom and helps to prevent loss of motor.

| Per Pair | Length Overall Inches | Inside Diameter Inches | Weight Per Pair Ounces | Standard Package |
|----------|-----------------------|------------------------|------------------------|------------------|
| | 3-1/2 | 1-7/8 | 2-3/4 | 10 Pr. |



Fig. 1224

SKIN PACK – Fig. 1224-SP

One Pair Per Card.

Twelve Cards Per Box.

Weight Per Box, 3¼ Pounds.

Sold To Trade In Full Box Only.



Fig. 1224-SP



Fig. 1337



Fig. 1347



Fig. 1339



End View



Fig. 413 End Posts

Fig. 413-A Center Posts

Fig. 1297 End Posts
Fig. 1298 Center Posts



Fig. 380 End Posts
Fig. 380-A Center Posts



Fig. 497 - Aluminum

Fig. 498 - Stainless Steel

Fig. 916 - Stainless Steel

"CHROMALEX®" GRAB RAILS
Die Cast Zinc Alloy - Chromium Plated
Black Plastic Base
Anodized Aluminum Tubing

Fig. 1337 is for 1/4" Screws or Bolts.
Fig. 1347 has 1/4" Studs, 1-3/4" Below Base.
Fig. 1339 Tubing is 1-1/8" wide, 3/8" thick.

| Fig. | Each | Height Inches | Base Inches | Weight Ounces |
|------|------|---------------|----------------|---------------|
| 1337 | | 1-3/8 | 1-3/8 x 1-1/16 | 3 |
| 1347 | | 1-3/8 | 1-3/8 x 1-1/16 | 4 |

Fig. 1339 TUBING
6 Foot Lengths -

MINIMUM QUANTITY AND STANDARD PACKAGE, 5 LENGTHS



GRAB RAIL POSTS—Figs. 413 & 413-A

Cast Bronze - Chromium Plated - For 1 Inch O.D. 20 Gauge Tubing

| Fig. | Each | Height Overall Inches | Dimensions Base Inches | For Screw No. | Standard Package | Weight Ounces |
|-------|------|-----------------------|------------------------|---------------|------------------|---------------|
| 413 | | 2-1/4 | 3 x 2 | 8 | 1 | 10 |
| 413-A | | 2-1/4 | 2-3/4 x 1-1/2 | 8 | 1 | 7-1/4 |



GRAB RAIL POSTS—Figs. 1297 & 1298

Die Cast Zinc Alloy - Chromium Plated
For 3/4 inch rod or tubing

| Each | Height Overall Inches | Diameter Base Inches | Weight Ounces |
|------|-----------------------|----------------------|---------------|
| | 1-3/4 | 1-5/8 | 2-3/4 |

Standard Package, Fig. 1297 - 4 Pieces; Fig. 1298 - 2 Pieces.



GRAB RAIL POSTS—Figs. 380 & 380-A

Cast Bronze - Hollow - Chromium Plated

| Each | Diameter Hole Inches | Height Overall Inches | Diameter Base Inches | Standard Package | Weight Ounces |
|------|----------------------|-----------------------|----------------------|------------------|---------------|
| | 1 | 3-3/8 | 2-1/2 | 1 | 10 |



TUBING

ANODIZED ALUMINUM - POLISHED—Fig. 497

| Each | Outside Diameter Inches | Length Feet | Weight Ounces |
|------|-------------------------|-------------|---------------|
| | 3/4 | 6 | 10 |

MINIMUM QUANTITY AND STANDARD PACKAGE, 3 LENGTHS

STAINLESS STEEL TUBING—Fig. 498

| Each | Outside Diameter Inches | Length Feet | B & S Gauge | Weight Pounds |
|------|-------------------------|-------------|-------------|---------------|
| | 1 | 6 | 20 | 2 |

MINIMUM QUANTITY AND STANDARD PACKAGE, 3 LENGTHS

STAINLESS STEEL TUBING - Fig. 916

18-8 Non Magnetic - Polished - 7/8" O.D. - .049 Wall

| Each | Length Feet | Weight Pounds |
|------|-------------|---------------|
| | 6 | 2-1/4 |

MINIMUM QUANTITY AND STANDARD PACKAGE, 3 LENGTHS

"PERKO" RAIL FITTINGS
Cast Bronze – Polished Chromium Plated
With Stainless Steel Allen Set Screws – Drilled and Countersunk 1/4"

ROUND ANGLE BASE—Fig. 992

| Each | For Tubing Inches | Diameter Base Inches | Height Inches | Weight Ounces |
|------|-------------------|----------------------|---------------|---------------|
| | 7/8 | 2-5/8 | 1-3/4 | 8 |

Included angle – 60°



ROUND STRAIGHT BASE—Fig. 973

| Each | For Tubing Inches | Diameter Base Inches | Height Inches | Weight Ounces |
|------|-------------------|----------------------|---------------|---------------|
| | 7/8 | 2-5/8 | 1-5/8 | 7 |



RECTANGULAR ANGLE BASE—Fig. 981

| Each | For Tubing Inches | Dimensions Base Inches | Height Inches | Weight Ounces |
|------|-------------------|------------------------|---------------|---------------|
| | 7/8 | 2-7/8x1-3/4 | 1-3/4 | 8 |

Included angle – 60°



RECTANGULAR STRAIGHT BASE—Fig. 977

| Each | For Tubing Inches | Dimensions Base Inches | Height Inches | Weight Ounces |
|------|-------------------|------------------------|---------------|---------------|
| | 7/8 | 2-3/4x1-3/4 | 1-5/8 | 6-1/2 |



ANGLE TEE—Fig. 990

Right or Left Hand

| Each | For Tubing Inches | Length Inches | Height Inches | Weight Ounces |
|------|-------------------|---------------|---------------|---------------|
| | 7/8 | 2 | 2-3/16 | 6 |

Included angle – 60°

Please specify hand.

ILLUSTRATION IS STARBOARD SIDE



STRAIGHT TEE—Fig. 989

| Each | For Tubing Inches | Length Inches | Height Inches | Weight Ounces |
|------|-------------------|---------------|---------------|---------------|
| | 7/8 | 2 | 2 | 6 |



BOW FORM—Fig. 993

With 3/4" Flag Pole Socket

| Each | For Tubing Inches | Width Overall Inches | Angle Degree | Weight Ounces |
|------|-------------------|----------------------|--------------|---------------|
| | 7/8 | 4-1/4 | 110 | 12-1/2 |



GRAB RAILS – Fig. 936

18-8 Stainless Steel 7/8" Tubing - Chromium Plated Brass Ends – Chromium Plated Cast Bronze Bases – Stainless Steel Screws.

| No. | Each | Length Overall Inches | Height Under Tubing Inches | Weight Pounds |
|-----|------|-----------------------|----------------------------|---------------|
| 1 | | 12 | 1-1/4 | 1 |
| 2 | | 18 | 1-1/4 | 1-3/8 |



Fig. 992

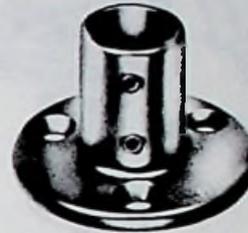


Fig. 973

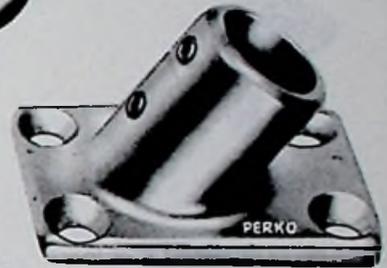


Fig. 981

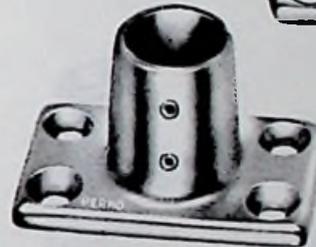


Fig. 977



Fig. 990



Fig. 989



Fig. 993

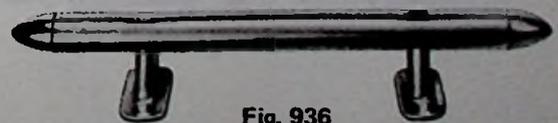


Fig. 936

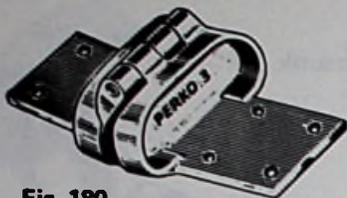


Fig. 180



Fig. 185



Bow
Fig. 218



Stern
Fig. 219



Bow
Fig. 220



Stern
Fig. 221



Fig. 343 Stern

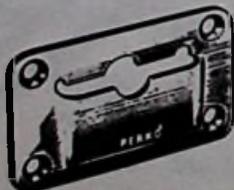


Fig. 148



FITTINGS FOR WOOD GUARD RAILS

Cast Bronze – Chromium Plated – Stainless Steel Pins

HINGE—Fig. 180
LATCH—Fig. 185

| No. | Fig. 180 Each | Fig. 185 Each | Size Rail Inches | Length Overall Inches | Weight Pounds |
|-----|---------------|---------------|------------------|-----------------------|---------------|
| 1 | | | 2-3/8x1-3/8 | 5 | 3/4 |
| 2 | | | 2-7/8x1-1/4 | 5-1/2 | 1 |



FLUSH TYPE FLAG POLE SOCKETS—Figs. 218 & 219

Cast Bronze – Chromium Plated

| No. | Inside Diam. Inches | Fig. 218 Each | Fig. 219 Each | Diam. Flange Inches | Depth Socket Inches | Weight Ounces |
|-----|---------------------|---------------|---------------|---------------------|---------------------|---------------|
| 1 | 3/4 | | | 2 | 1-1/2 | 4-1/2 |
| 2 | 1 | | | 2-3/8 | 1-3/4 | 5 |
| 3 | 1-1/4 | | | 2-5/8 | 2 | 9 |



UPRIGHT TYPE FLAG POLE SOCKETS—Figs. 220 & 221

Cast Bronze – Chromium Plated

| No. | Inside Diam. Inches | Fig. 220 Each | Fig. 221 Each | Diam. Base Inches | Height Inches | Weight Ounces |
|-----|---------------------|---------------|---------------|-------------------|---------------|---------------|
| 1 | 3/4 | | | 2-1/8 | 1-3/4 | 5-1/4 |
| 2 | 1 | | | 2-1/2 | 2 | 6-3/4 |
| 3 | 1-1/4 | | | 2-3/4 | 2-1/8 | 10-3/4 |



UPRIGHT TYPE FLAG POLE SOCKETS—Fig. 343

Zamak Die Castings – Chromium Plated – Drilled For No. 6 Screw

| Each | Inside Diam. Inches | Size Base Inches | Height Overall Inches | Standard Package | Weight Ounces |
|------|---------------------|------------------|-----------------------|------------------|---------------|
| | 3/4 | 3x2-1/8 | 2 | 5 | 4-1/2 |



TABLE BRACKETS—Fig. 148

18-8 Stainless Steel – Satin Finish

For removable tables in cabin or cockpit.

A pair of angle brackets attached to table and several pairs of wall plates mounted in cabin and cockpit allows placing of table as desired.

Angle bracket cannot jump out of wall plate when table leg is firmly placed on deck.

| Dimensions Angle Bracket Inches | Dimensions Wall Plate Inches | Weight Bracket Ounces | Weight Wall Plate Ounces |
|---------------------------------|------------------------------|-----------------------|--------------------------|
| 2-3/4x1-11/16 | 3-3/8x2 | 3 | 3 |

Fig. 148 Complete Per Set
Fig. 148, 99-A Spare Angle Brackets Per Pair
Fig. 148, 99-B Spare Wall Plates Per Pair

Standard Package, 5 Sets.
A set consists of 2 brackets and 2 plates.

FENDER LOCK—Fig. 1299

Die Cast Zinc Alloy — Chromium Plated

Attach and detach fenders instantly, eye is permanently fastened to fender line, it quickly engages the deck flange and stays there until its job is done.

| Each | Diameter Flange Inches | I.D. Eye Inches | Standard Package | Weight Ounces |
|------|------------------------|-----------------|------------------|---------------|
| | 1-1/2 | 3/8 | 10 | 1 |

Spare Eyes, Specify Fig. 1299-99A.



Fig. 1299

SKIN PACK — Fig. 1299-SP

One Pair Per Card.

Twelve Cards Per Box.

Weight Per Box, 2 1/4 Pounds.

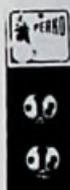


Fig. 1299-SP

Sold To Trade In Full Box Only



FENDER HOOKS—Fig. 1246

Die Cast Zinc Alloy — Chromium Plated

| Each | For Rope Diameter Inches | Size Plate Inches | For Screw No. | Weight Ounces |
|------|--------------------------|-------------------|---------------|---------------|
| | 3/8 | 1-3/4x1-1/4 | 6 | 1-1/4 |

Standard Package, 10 Pieces.



Fig. 1246

SKIN PACK — Fig. 1246-SP

One Pair Per Card.

Twelve Cards Per Box.

Weight Per Box, 2 1/4 Pounds.



Fig. 1246-SP

Sold To Trade In Full Box Only.



SNAP TYPE FENDER HOOK — Fig. 1309

Die Cast Zinc Alloy — Chromium Plated

No more lost fenders, the snap does the job.

| Each | For Rope Diameter Inches | Size Plate Inches | For Screw No. | Weight Ounces |
|------|--------------------------|-------------------|---------------|---------------|
| | 1/4 | 1-9/16x1-3/8 | 6 | 1-1/2 |

Standard Package, 10 Pieces.



Fig. 1309

DOCK LINE SPRINGS—Fig. 759

Steel — Zinc Plated

A very strong compression spring for dock and mooring lines. It cushions the strain and contributes greatly to the life of the line. Size No. 1 will accommodate 1/2 inch diameter rope, No. 2 for 3/4 inch rope.

| No. | Each | Length Overall Inches | Diameter Spring Inches | Diameter Metal Inches | Compression Inches | Weight Pounds |
|-----|------|-----------------------|------------------------|-----------------------|--------------------|---------------|
| 1 | | 10 | 1-1/2 | 3/16 | 4-1/2 | 7/8 |
| 2 | | 18 | 2 | 1/4 | 8 | 2-3/4 |

Standard Package — No. 1-5 Pcs., No. 2-1 Pc.



Fig. 759

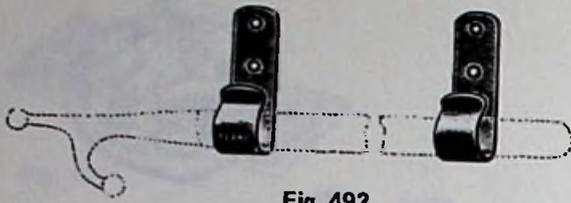


Fig. 492

BOAT HOOK HOLDERS—Fig. 492

18-8 Stainless Steel — Polished

Will accommodate poles up to 1-1/2 inch in diameter, and hold them firmly in place.

| Per Pair | Length Inches | Width Inches | For Screw No. | Standard Package | Weight Ounces |
|----------|---------------|--------------|---------------|------------------|---------------|
| | 3-1/2 | 1 | 6 | 10 pr. | 1-1/2 |



SKIN PACK — Fig. 492-SP

One Pair Per Card.

Twelve Cards Per Box.

Weight Per Box, 3 Pounds.

Sold To Trade In Full Box Only.



"HOLDALL" SPRING CLAMPS—Fig. 502

18-8 Stainless Steel — Polished

Excellent for stowing fishing rods, boat hooks, oars, swab, broom, flashlight, flagstaff, pump, etc.

| No. | Per Pair | Adjustability Inches | Length From Wall Inches | Width of Metal Inches | For Screw No. | Weight Per Pair Ounces |
|-----|----------|----------------------|-------------------------|-----------------------|---------------|------------------------|
| 1 | | 5/8 to 1-1/4 | 1-1/2 | 1/2 | 6 | 2 |
| 2 | 1 | to 1-3/4 | 2-1/4 | 5/8 | 6 | 2-1/2 |

Standard Package, 10 Pair Per Size.



SKIN PACK — Fig. 502-SP

Size No.1 Only.

One Pair Per Card.

Twelve Cards Per Box.

Weight Per Box, 3 Pounds.

Sold To Trade In Full Box Only.



HAND WINDSHIELD WIPERS—Fig. 533

For Straight and Curved Windshields — Stainless Steel Extensible Arm and Blade Holder — Other Parts Chromium Plated — Rustproof — Leakproof — With 12 Inch Blade

The arm is extensible from 6 3/4 to 10 1/2 inches, spring tension is adjustable for best wiping pressure.

| Each | Length Overall Inches | Diam. Shaft Inches | Length Handle Inches | Weight Ounces |
|------|-----------------------|--------------------|----------------------|---------------|
| | 8 to 11-1/2 | 3/8 | 2-3/8 | 8 |

For thickness of wood up to 1-1/8 inches.

| | | |
|---------------------------|-------|------|
| Spare Arm, Fig. 533-99A | | each |
| Spare Blade, Fig. 533-99B | | each |



SKIN PACK — Fig. 533-SP

One Per Card.

Three Cards Per Box.

Weight Per Box, 2 Pounds.

Sold To Trade In Full Box Only.



Fig. 492-SP

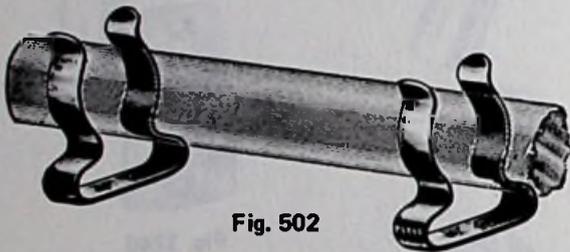


Fig. 502



Fig. 502-SP

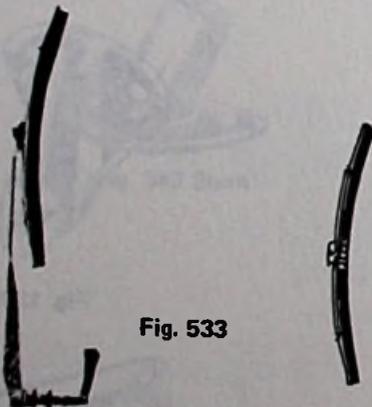


Fig. 533



Fig. 533-SP

RING BUOY HOLDERS – Fig. 1017

Brass

| Plain Brass Each | Chromium Plated Each | Width Mounting Plate Inches | Hgt. Over-all Inches | For Screw No. | Wt. Lbs. |
|------------------|----------------------|-----------------------------|----------------------|---------------|----------|
| | | 3 | 4-1/2 | 8 | 1/2 |

Standard Package, 5 Pieces



Fig. 1017

SKIN PACK – Fig. 1017-SP

One Per Card.
Four Cards Per Box.
Weight Per Box, 2½ Pounds.



Fig. 1017-SP

Sold To Trade In Full Box Only.

AXE BRACKETS—Fig. 325

18-8 Stainless Steel – Polished

A set consists of one blade socket and one handle bracket as illustrated.

| Fig. 325 Complete Per Set | Fig. 325-99A Blade Sockets Only Each | Fig. 325-99B Handle Brackets Only Each | For Blade Width Inches | Standard Package | Weight Per Set Ounces |
|---------------------------|--------------------------------------|--|------------------------|------------------|-----------------------|
| | | | 6 | 10 sets | 4-1/2 |



Fig. 325

BOAT HOOKS—Fig. 224

Ball Points – Galvanized Malleable Iron

| Size No. | Each | For Diam. Pole Inches | Extreme Length Inches | Standard Package | Weight Ounces |
|----------|------|-----------------------|-----------------------|------------------|---------------|
| 4 | | 1-1/4 | 8-1/4 | 5 | 12 |
| 5 | | 1-1/2 | 9-3/8 | 5 | 18 |



Fig. 224

NOTE – Pole end is measured by outside diameter to fit flush with surface of pole.

DECK STRAPS—Fig. 882

Cast Bronze

| No. | Plain Bronze Each | Chromium Plated Each | Length Inches | Size Eye Inches | Standard Package | Wt. Ozs. |
|-----|-------------------|----------------------|---------------|-----------------|------------------|----------|
| 1 | | | 3-1/2 | 1/2 | 10 | 2-1/2 |
| 2 | | | 4-1/8 | 9/16 | 10 | 2-1/2 |



Fig. 882

FLANGE EYE – Fig. 1236

Die Cast Zinc Alloy – Chromium Plated

| Each | Size Opening Inches | Size Base Inches | Standard Package | Weight Ounces |
|------|---------------------|------------------|------------------|---------------|
| | 3/4 | 2-5/16x1-1/16 | 10 | 1 |



Fig. 1236



Fig. 612

FAST EYE BOAT SNAPS—Fig. 612

Zinc Plated Malleable Iron Or Bronze

| Size No. | Zinc Plated Each | Plain Bronze Each | Inside Diam. Eye Inches | Extreme Length Inches | Standard Package | Weight Per 100 Pounds |
|----------|------------------|-------------------|-------------------------|-----------------------|------------------|-----------------------|
| 0 | | | 3/8 | 2-1/16 | 10 | 6-1/4 |
| 1 | | | 5/8 | 2-7/8 | 10 | 12 |
| 2 | | | 3/4 | 3 | 10 | 13-1/2 |
| 3 | | | 3/4 | 3-7/8 | 10 | 24 |
| 4 | | N.A. | 7/8 | 4-1/2 | 10 | 40 |
| 5 | | N.A. | 1-1/8 | 5 | 10 | 50 |
| 6 | | N.A. | 1-1/8 | 5-1/4 | 10 | 68-3/4 |



Fig. 613

SWIVEL EYE BOAT SNAPS—Fig. 613

Zinc Plated Malleable Iron Or Bronze

| Size No. | Zinc Plated Each | Plain Bronze Each | Inside Diam. Eye Inches | Extreme Length Inches | Standard Package | Weight Per 100 Pounds |
|----------|------------------|-------------------|-------------------------|-----------------------|------------------|-----------------------|
| 1 | | | 9/16 | 3-1/4 | 10 | 12-1/2 |
| 2 | | | 11/16 | 3-5/8 | 10 | 16 |
| 3 | | | 3/4 | 4-5/8 | 10 | 30 |
| 4 | | N.A. | 13/16 | 4-7/8 | 10 | 42 |
| 5 | | N.A. | 1-1/16 | 5-3/4 | 10 | 61 |



Fig. 659

SWIVEL EYE SNAP — Fig. 659

Cast Bronze

| Each | Extreme Length Inches | Inside Eye Inches | Inside Hook Inches | Standard Package | Weight Ounces |
|------|-----------------------|-------------------|--------------------|------------------|---------------|
| | 3-1/2 | 3/4 | 7/16 | 25 | 2-1/2 |



Fig. 659-SP

SKIN PACK — Fig. 659-SP

One Per Card.

Ten Cards Per Box.

Weight Per Box, 2 Pounds.

Sold To Trade In Full Box Only.



Fig. 1289

SWIVEL EYE SNAP—Fig. 1289

Die Cast Zinc Alloy — Chromium Plated — Stainless Steel Spring

Has an interlocking device on tongue and hook.

| Each | Inside Diam. Eye Inches | Extreme Length Inches | Standard Package | Weight Per 100 Pounds |
|------|-------------------------|-----------------------|------------------|-----------------------|
| | 5/8 | 3 | 25 | 12-1/2 |



Fig. 1289-SP

SKIN PACK — Fig. 1289-SP

One Per Card.

Twelve Cards Per Box.

Weight Per Box, 2½ Pounds.

Sold To Trade In Full Box Only.



Fig. 842

FAST EYE BABY SNAPS—Fig. 842

Cast Bronze

| Fig. | Each | Size of Eye Inches | Length Inches | Standard Package | Weight Ounces |
|------|------|--------------------|---------------|------------------|---------------|
| 842 | | 3/8 | 1-7/8 | 50 | 1/2 |



Fig. 1041



Fig. 1042

SWIVEL EYE BABY SNAPS—Figs. 1041 & 1042

Cast Bronze

| Fig | Each | Length Inches | Diam. of Eye Inches | Standard Package | Weight Ounces |
|------|------|---------------|---------------------|------------------|---------------|
| 1041 | | 1-3/4 | 5/8 x 5/16 | 50 | 1/2 |
| 1042 | | 2-1/8 | 3/8 | 50 | 1/2 |

NOTE: THE SNAPS ILLUSTRATED ON THIS PAGE SHOULD NOT BE USED FOR LIFTING, WINCHING, TOWING OR MOORING, OR LIKE APPLICATIONS.

FAST EYE SNAP HOOKS—Fig. 606
Galvanized Drop Forged Steel — Stainless Steel Spring

| No. | Each | I.D. of Eye Inches | Length Overall Inches | Throat Opening Inches | Standard Package | Weight Per 100 in Lbs. |
|-----|------|--------------------|-----------------------|-----------------------|------------------|------------------------|
| 1 | | 3/4 | 4 | 3/4 | 10 | 25 |
| 2 | | 1-1/8 | 4-3/4 | 3/4 | 10 | 32 |
| 3 | | 1 | 5-3/8 | 13/16 | 5 | 100 |



Fig. 606

★

SKIN PACK — Fig. 606-SP

Size No.1 Only.
One Per Card.
Twelve Cards Per Box.

Weight Per Box, 2½ Pounds.

| Fig. 606 & 606-SP | |
|--------------------------|------|
| SAFE WORKING LOAD POUNDS | |
| #1 | 500 |
| #2 | 1000 |
| #3 | 3000 |

Fig. 606-SP



★

FAST EYE SNAP HOOK — Fig. 614
18-8 STAINLESS STEEL — Non Magnetic Interlocking Tongue

| Each | Length Inches | I.D. Eye Inches | Diam. Steel Inches | Standard Package | Weight Ounces |
|------|---------------|-----------------|--------------------|------------------|---------------|
| | 3 | 3/8 | 5/16 | 10 | 2-1/2 |



Fig. 614

SAFE WORKING LOAD 350 POUNDS

★

“S” HOOKS—Fig. 680
Galvanized Wrought Steel

| No. | Nominal Size Inches | Each | Length Overall Inches | Standard Package | Weight Per 100 Pounds |
|-----|---------------------|------|-----------------------|------------------|-----------------------|
| 1 | 3/16 | | 1-1/2 | 50 | 2-3/4 |
| 2 | 1/4 | | 2 | 50 | 7 |
| 3 | 5/16 | | 2-1/2 | 50 | 14-1/2 |
| 4 | 3/8 | | 3 | 50 | 18-3/4 |



Fig. 680

★

SHEAVES—Fig. 154
White Plastic — Common Bushed

| No. | Each | Diam. Inches | Thickness Inches | For Rope Inches | For Size Pin Inches | Standard Package |
|-----|------|--------------|------------------|-----------------|---------------------|------------------|
| 20 | | 7/8 | 3/8 | 1/4 | 3/16 | 10 |
| 28 | | 2-5/16 | 3/8 | 1/4 | 1/4 | 10 |



Fig. 154

★

ASSORTED BRASS PINS — Fig. 1176

Flat Head

| No. | Each | Diam. Pin Inches | Length Under Head Inches | Diam. Head Inches | Standard Package |
|-----|------|------------------|--------------------------|-------------------|------------------|
| 4 | | 3/16 | 1 | 1/4 | 10 |
| 5 | | 1/4 | 5/8 | 5/16 | 10 |
| 10 | | 1/4 | 1-1/4 | 5/16 | 10 |
| 15 | | 5/16 | 1-1/4 | 3/8 | 10 |
| 27 | | 1/2 | 1-1/4 | 5/8 | 10 |



Fig. 1176

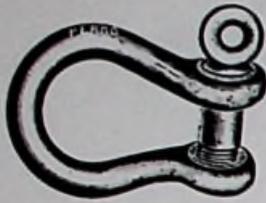


Fig. 314

ANCHOR SHACKLES – Fig. 314
Galvanized Drop Forged Steel – Screw Pin Type

| No. | Size Inches | Each | Standard Package | Safe Working Load Pounds | Approx. Weight Per 100 in Pounds |
|-----|-------------|------|------------------|--------------------------|----------------------------------|
| 1 | 3/16 | | 10 | 400 | 7 |
| 2 | 1/4 | | 10 | 600 | 11 |
| 3 | 5/16 | | 10 | 800 | 20 |
| 4 | 3/8 | | 10 | 1400 | 31 |
| 5 | 7/16 | | 10 | 1800 | 47 |
| 6 | 1/2 | | 10 | 2400 | 68 |
| 7 | 5/8 | | 5 | 3800 | 137 |
| 8 | 3/4 | | 5 | 5600 | 220 |



WIRE ROPE THIMBLES—Fig. 466

Zinc Plated, Or Stainless Steel



Fig. 466

| No. | For Size Rope Inches | Zinc Plated Each | Stainless Steel Each | Standard Package | Galv. Wt. Per 100 in Lbs. |
|-----|----------------------|------------------|----------------------|------------------|---------------------------|
| 1 | 1/8 | | | 20 | 2-5/8 |
| 2 | 3/16 | | | 20 | 2-5/8 |
| 3 | 1/4 | | | 20 | 4-3/8 |
| 4 | 5/16 | | | 20 | 5-1/2 |
| 5 | 3/8 | | | 20 | 10-5/8 |
| 6 | 1/2 | | | 20 | 15-1/2 |
| 7 | 5/8 | | N.A. | 10 | 27-1/2 |
| 8 | 3/4 | | N.A. | 10 | 40 |
| 9 | 7/8 | | N.A. | 10 | 55 |
| 10 | 1 | | N.A. | 10 | 79 |



WIRE ROPE CLIPS—Fig. 333

Malleable Iron Saddle – Steel U-Bolt And Nuts



Fig. 333

| No. | Size Wire Rope Inches | Zinc Plated Each | Est. Wt. Per 100 in Lbs. | No. | Size Wire Rope Inches | Zinc Plated Per 100 | Est. Wt. Per 100 in Lbs. |
|-----|-----------------------|------------------|--------------------------|-----|-----------------------|---------------------|--------------------------|
| 1 | 1/8 | | 4-1/4 | 5 | 3/8 | | 24 |
| 2 | 3/16 | | 7 | 6 | 1/2 | | 37 |
| 3 | 1/4 | | 14-1/2 | 7 | 5/8 | | 59 |
| 4 | 5/16 | | 16 | | | | |

Standard Package, Sizes 1 thru 3, 25 Pcs. 4 & 5, 10 Pcs. 6 & 7, 5 Pcs.



PETITE TURNBUCKLES—Fig. 396

Bronze – S.A.E. Threads – Eye and Eye

Designed for Light Duty Applications



Fig. 396

| No. | Each | Diam. Thread Inches | Length Extended Inches | Takeup Inches | Weight Per 100 in Lbs. |
|-----|------|---------------------|------------------------|---------------|------------------------|
| 1 | | 1/8 | 3 | 3/4 | 3 |
| 2 | | 5/32 | 4 | 1-1/8 | 6-1/4 |
| 3 | | 3/16 | 5 | 1-1/2 | 11-1/2 |
| 4 | | 1/4 | 5-3/4 | 1-7/8 | 15 |
| 5 | | 5/16 | 6-7/8 | 2-1/4 | 24-1/2 |

Standard Package 5 Pieces.

DOUBLE END SCRAPERS—Fig. 1175

Fine Grade Tool Steel — Heat Treated

| Each | Length Inches | Width Inches | Thick-ness Inches | Width Blade Inches | Standard Package | Weight Pounds |
|------|---------------|--------------|-------------------|--------------------|------------------|---------------|
| | 15 | 1 | 1/4 | 1-3/4 | 5 | 1 |



Fig. 1175

CAULKING IRONS—Fig. 307

Malleable Iron

| Size No. | Each | Thickness Inches | Length Inches | Width Blade Inches | Weight Ounces Each |
|----------|------|------------------|---------------|--------------------|--------------------|
| 00 | | 1/32 | 5 | 2 | 5 |
| 0 | | 1/16 | 5-5/8 | 2-1/2 | 6-1/2 |
| 1 | | 1/8 | 5-7/8 | 2-1/4 | 7 |



Fig. 307

Standard Package, 10 Pieces.

SAIL MAKERS PALMS—Fig. 411

Hide Mounted — Right Hand Only

| Each | Standard Package | Weight Ounces |
|------|------------------|---------------|
| | 10 | 2 |



Fig. 411

MAPLE HAND FIDS—Fig. 923

For use in splicing ropes and light flexible cables, has a rounded end for hand use; varnished finish.

| No. | Each | Size Inches | Standard Package | Weight Ounces Each |
|-----|------|-------------|------------------|--------------------|
| 0 | | 12x1-3/4 | 2 | 4-1/2 |
| 1 | | 14x1-3/4 | 2 | 6-1/2 |
| 2 | | 16x2 | 2 | 8 |
| 3 | | 18x2 | 2 | 8-1/2 |
| 4 | | 20x2-1/4 | 2 | 14 |



Fig. 923

BRASS ACORN NUTS—Fig. 465

Milled Finish

| No. | Size Thread | Plain Each | Polished Brass Each | Chromium Plated Each | Size Hexagon Inches | Height Inches |
|-----|-------------|------------|---------------------|----------------------|---------------------|---------------|
| 1 | 8 -32 | | | | 5/16 | 5/16 |
| 2 | 1/4 -20 | | | | 7/16 | 3/8 |
| 4 | 5/16-18 | | | | 5/8 | 5/8 |
| 8 | 1/2 -13 | | | | 1 | 1 |
| 9 | 5/8 -11 | | | | 1-1/8 | 1-3/16 |



Fig. 465

Standard Package, Sizes 1 thru 4, 10 Pcs. 8 and 9, 5 Pcs.

BRASS WING NUTS—Fig. 453

U.S.S. Thread—Plain Brass

| No. | Each | For Diam. Bolt Inches | Threads Per Inch | No. | Each | For Diam. Bolt Inches | Threads Per Inch |
|-----|------|-----------------------|------------------|-----|------|-----------------------|------------------|
| | | | | 4 | | 3/8 | 16 |
| | | | | 5 | | 1/2 | 13 |
| 2 | | 1/4 | 20 | | | | |



Fig. 453

Standard Package, Size 2, 10 Pcs. 4 & 5, 5 Pcs.



Fig. 565



Fig. 565-SP

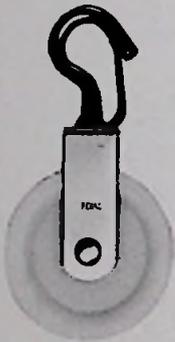


Fig. 634



Fig. 634-SP



Fig. 1255



Fig. 1256



Fig. 1261



Fig. 1243

TILLER ROPE PULLEY—Fig. 565

Swivel Type with Strap — For 1/4" Rope

18-8 Stainless Steel — White Plastic Sheave

| Complete Each | Length Overall Inches | Diam. Sheave Overall Inches | Length Strap Inches | Standard Package | Weight Ounces |
|---------------|-----------------------|-----------------------------|---------------------|------------------|---------------|
| | 3-3/4 | 2-5/16 | 1-5/8 | 10 | 2 |

★

SKIN PACK — Fig. 565-SP

One Pair Per Card.

Twelve Cards Per Box.

Weight Per Box, 4½ Pounds.

Sold To Trade In Full Box Only.

★

TILLER ROPE PULLEY—Fig. 634

Swivel Snap Hook Type — For 1/4" Rope

18-8 Stainless Steel — White Plastic Sheave

| Complete Each | Length Overall Inches | Snap Throat Opening Inches | Diam. Sheave Overall Inches | Standard Package | Wt. Ozs. |
|---------------|-----------------------|----------------------------|-----------------------------|------------------|----------|
| | 4-5/8 | 1/2 | 2-5/16 | 10 | 2-1/2 |

★

SKIN PACK — Fig. 634-SP

One Pair Per Card.

Twelve Cards Per Box.

Weight Per Box, 5¼ Pounds.

Sold To Trade In Full Box Only.

★

TILLER ROPE PULLEY—Fig. 1255

Coaming Type — White Plastic Sheave

Die Cast Zinc Alloy — Chromium Plated

| No. | Each | Diam. Sheave Inches | For Diam. Rope Inches | Dimensions of Plate Inches | Standard Package | Weight Ounces |
|-----|------|---------------------|-----------------------|----------------------------|------------------|---------------|
| 2 | | 2-5/16 | 1/4 | 4-7/8x1-1/4 | 10 | 2-1/2 |

★

TILLER ROPE GUIDES—Figs. 1256 & 1261

Die Cast Zinc Alloy — Chromium Plated

| Each | Size Hole Inches | Size Base Inches | For Screw No. | Weight Ounces | Standard Package |
|------|------------------|------------------|---------------|---------------|------------------|
| | 5/16 | 1-1/4x3/4 | 6 | 1/2 | 25 |

★

TILLER ROPE GUIDES—Fig. 1243

Die Cast Zinc Alloy — Chromium Plated

| Each | For Diam. Rope Inches | Size Base Inches | For Screw No. | Weight Ounces | Standard Package |
|------|-----------------------|------------------|---------------|---------------|------------------|
| | 1/4 | 2 x 3/4 | 8 | 1-3/4 | 10 |

TILLER ROPE CLAMPS—Figs. 358 & 1226
For 1/8" and 3/16" Rope

Fig. 358—Pressure Cast Bronze.
Fig. 1226—Die Cast Zinc Alloy.

| Fig. | Natural Finish Each | Chromium Plated Each | Length Inches | Width Inches | Standard Package | Weight Ounces |
|------|---------------------|----------------------|---------------|--------------|------------------|---------------|
| 358 | | | 1-1/4 | 11/16 | 20 | 1 |
| 1226 | | | 1-1/4 | 11/16 | 50 | 1 |



Fig. 358
Fig. 1226

SKIN PACK — Fig. 1226-SP

Chromium Plated Finish.
One Pair Per Card.
Twelve Cards Per Box.
Weight Per Box, 2½ Pounds.
Sold To Trade In Full Box Only.



Fig. 1226-SP

TILLER ROPE TIGHTENERS—Figs. 732 & 754

Fig. 732-C —Steel, Cadmium Plated
Fig. 732-SS —18-8 Stainless Steel
Fig. 754 —Steel, Cadmium Plated

| Fig. | Each | Normal Length Inches | Length Compressed Inches | Outside Diameter Inches | Standard Package | Weight Ounces |
|--------|------|----------------------|--------------------------|-------------------------|------------------|---------------|
| 732-C | | 4 | 5 | 1 | 10 | 3-1/2 |
| 732-SS | | 4 | 5 | 1 | 10 | 2-1/4 |
| 754 | | 4-3/4 | 6-1/2 | 7/8 | 25 | 3 |



Fig. 732-C
Fig. 732-SS



Fig. 754

SKIN PACK — Fig. 732-SP

Stainless Steel or Cadmium Plated

| Cadmium Plated Steel Per Pair | Stainless Steel Per Pair | Units Per Card | Units Per Box | Weight Per Box Pounds |
|-------------------------------|--------------------------|----------------|---------------|-----------------------|
| | | 1 Pr. | 12 | 5-1/2 |



Fig. 732-SP

Sold To Trade In Full Box Only.

EYE STRAPS—Figs. 562 & 1242

Fig. 562—18-8 Stainless Steel
Fig. 1242—Die Cast Zinc Alloy — Chromium Plated

| Fig. | Each | Length Inches | Size Eye Inches | For Screw No. | Weight Ounces | Standard Package |
|------|------|---------------|-----------------|---------------|---------------|------------------|
| 562 | | 1-5/8 | 1/4 | 10 | 1/8 | 50 |
| 1242 | | 1-7/8 | 5/16 | 8 | 1/4 | 50 |



Fig. 1242



Fig. 562

EYE STRAPS—Fig. 881

Forged Bronze

| No. | Natural Bronze Each | Chromium Plated Each | Length Inches | Size Eye Inches | Stock in Eye Inches | For Screw No. | Wt. Ozs. |
|-----|---------------------|----------------------|---------------|-----------------|---------------------|---------------|----------|
| 0 | | | 1-7/8 | 1/4 | 1/4 | 8 | 1/2 |
| 1 | | | 2-1/4 | 5/16 | 9/32 | 10 | 3/4 |
| 2 | | | 2-3/4 | 1/2 | 5/16 | 10 | 1-1/2 |



Fig. 881

Standard Package, Nos. 0 and 1, 50 pcs. No. 2, 25 pcs.



Fig 43

FAST EYE BLOCKS—Fig. 43
Galvanized Malleable Iron Or Bronze — Single

| Size No. | Galv. Each | Plain Bronze Each | For Diam. Rope Inches | Size Sheaves Inches | Standard Package | Weight Pounds Each |
|----------|------------|-------------------|-----------------------|---------------------|------------------|--------------------|
| 1 | | | 3/16 | 3/4x5/16 | 10 | 3/32 |
| 3 | | | 1/4 | 1 x3/8 | 10 | 3/16 |
| 5 | | | 5/16 | 1-3/8x7/16 | 10 | 1/4 |
| 7 | | | 3/8 | 1-1/2x1/2 | 10 | 3/8 |
| 9 | | N.A. | 7/16 | 1-3/4x9/16 | 5 | 1/2 |
| 11 | | N.A. | 1/2 | 2 x5/8 | 5 | 5/8 |
| 13 | | N.A. | 5/8 | 2-1/2x3/4 | 5 | 1-7/16 |
| 15 | | N.A. | 3/4 | 3 x7/8 | 5 | 1-5/8 |



Fig. 51

FAST EYE BLOCKS—Fig. 51
Galvanized Malleable Iron — Double

| Size No. | Each | For Diam. Rope Inches | Size Sheaves Inches | Standard Package | Weight Pounds Each |
|----------|------|-----------------------|---------------------|------------------|--------------------|
| 2 | | 3/16 | 3/4x5/16 | 10 | 3/16 |
| 4 | | 1/4 | 1 x3/8 | 10 | 1/4 |
| 6 | | 5/16 | 1-3/8x7/16 | 10 | 3/8 |
| 8 | | 3/8 | 1-1/2x1/2 | 10 | 5/8 |



Fig. 100

SWIVEL EYE BLOCKS—Fig. 100
Zinc Plated Malleable Iron Or Bronze — Single

| Size No. | Zinc Plated Each | Plain Bronze Each | For Diam. Rope Inches | Diameter Sheave Inches | Standard Package | Weight Per Doz. in Lbs. |
|----------|------------------|-------------------|-----------------------|------------------------|------------------|-------------------------|
| 0 | | | 3/16 | 1/2 | 10 | 1/2 |
| 1 | | | 3/16 | 3/4 | 10 | 1-1/4 |
| 3 | | | 1/4 | 1 | 10 | 2 |
| 5 | | | 5/16 | 1-3/8 | 10 | 2-7/8 |
| 7 | | | 3/8 | 1-1/2 | 10 | 4-7/8 |



Fig. 101

SWIVEL EYE BLOCKS—Fig. 101
Zinc Plated Malleable Iron — Double

| Size No. | Each | For Diam. Rope Inches | Diameter Sheave Inches | Standard Package | Weight Per Doz. in Lbs. |
|----------|------|-----------------------|------------------------|------------------|-------------------------|
| 00 | | 3/16 | 1/2 | 10 | 1-1/16 |
| 2 | | 3/16 | 3/4 | 10 | 2-1/4 |
| 4 | | 1/4 | 1 | 10 | 3-3/8 |
| 6 | | 5/16 | 1-3/8 | 10 | 4-1/2 |
| 8 | | 3/8 | 1-1/2 | 10 | 7 |



Fig. 194

Side Pattern Single



Fig. 279

Upright Pattern Single

WIRE ROPE PULLEYS—Figs. 194 & 279

Galvanized Malleable Iron

Fig. 194 Single

| Size No. | Each | For Diam. Rope Inches | Size Sheave Inches | Weight Pounds |
|----------|------|-----------------------|--------------------|---------------|
| 1 | | 3/16 | 2-1/2x3/8 | 1/2 |
| 2 | | 1/4 | 3-1/4x1/2 | 1-1/4 |
| 3 | | 5/16-3/8 | 4-1/2x5/8 | 2-1/2 |

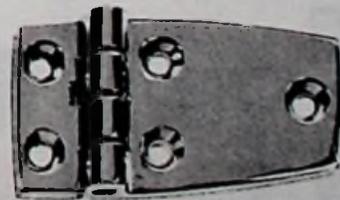
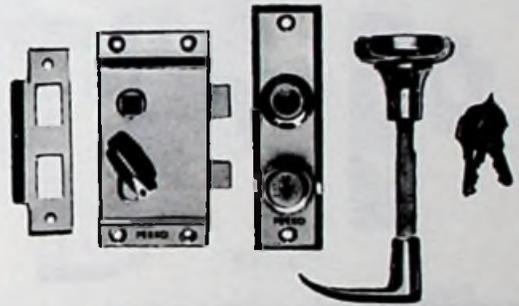
Fig. 279 Single

| Size No. | Each | For Diam. Rope Inches | Size Sheave Inches | Weight Pounds |
|----------|------|-----------------------|--------------------|---------------|
| 10 | | 3/16 | 2-1/2x3/8 | 5/8 |
| 20 | | 1/4 | 3-1/4x1/2 | 1-1/2 |
| 30 | | 5/16-3/8 | 4-1/2x9/16 | 2-1/2 |

SECTION J

PERKO®

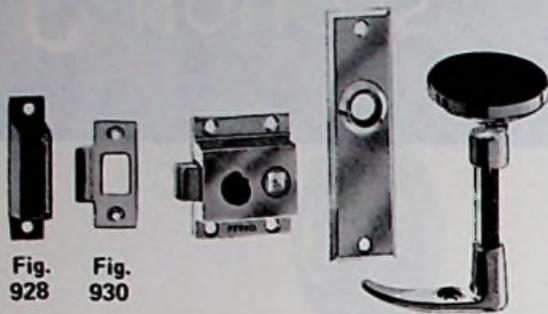
**door & cabinet
hardware
locks
latches
bolts
hinges
hasps
top fittings**



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RIM LATCH SETS—Figs. 928 & 930

Die Cast Zinc Alloy – Chromium Plated

With round knob and lever handle, no keys. Locked by thumb bolt inside. For doors 3/4 to 1-1/2 inches.

Fig. 928—Regular Bevel With Box Strike.

Fig. 930—Reverse Bevel With Flush Strike.

| Per Set | Size Case Inches | Size Escutcheon Inches | Diameter Knob Inches | Backset Inches | Weight Pounds |
|---------|------------------|------------------------|----------------------|----------------|---------------|
| | 2-1/8x1-3/4 | 4-3/8x1-1/4 | 1-3/4 | 1-3/8 | 3/4 |

Spare Strike for Fig. 928, Specify Fig. 928-99A

Spare Strike for Fig. 930, Specify Fig. 930-99A

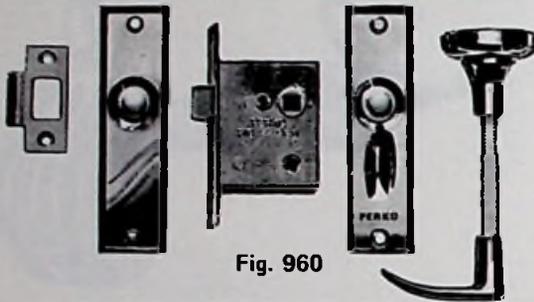


Fig. 960

MORTISE LATCH SETS—Fig. 960

Die Cast Zinc Alloy – Chromium Plated – Reversible

Locked by dead bolt inside, no keys, with round knob and lever handle. For door 1 to 1-1/2 inches thick.

Backset 1-3/8 inches.

| Per Set | Size Case Inches | Size Facing Inches | Size Escutcheon Inches | Diameter Knob Inches | Weight Pounds |
|---------|------------------|--------------------|------------------------|----------------------|---------------|
| | 2-1/4x1-13/16 | 3-1/2x13/16 | 4-3/8x1-1/4 | 1-3/4 | 1 |

Spare Strike for Fig. 960, Specify Fig. 960 99A

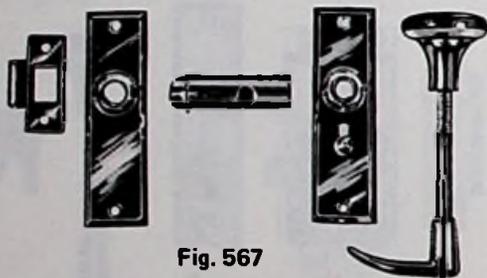


Fig. 567

TUBULAR LATCH SETS—Fig. 567

Die Cast Zinc Alloy – Chromium Plated

Locked from inside by thumb bolt, no keys. Round knob and lever handle. For doors 1 to 1-1/2 inches thick.

Backset 1-1/4 inches.

| Per Set | Diameter Tube Inches | Size Escutcheon Inches | Diameter Knob Inches | Weight Pounds |
|---------|----------------------|------------------------|----------------------|---------------|
| | 3/4 | 4-3/8x1-1/4 | 1-3/4 | 3/4 |

Spare Strike for Fig. 567, Specify Fig. 567 99-A

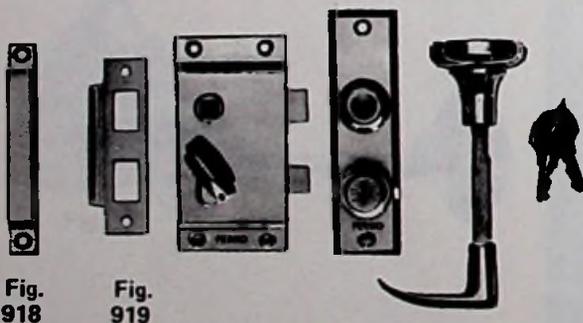


Fig. 918

Fig. 919

RIM LOCK SETS—Figs. 918 & 919

Die Cast Zinc Alloy – Chromium Plated

Five disc tumbler type with dead bolt for inside. With round knob and lever handle, two keys. For doors 3/4 to 1-1/2 inches.

Fig. 918—Regular Bevel With Box Strike.

Fig. 919—Reverse Bevel With Flush Strike.

| Per Set | Size Case Inches | Size Escutcheon Inches | Diameter Knob Inches | Backset Inches | Weight Pounds |
|---------|------------------|------------------------|----------------------|----------------|---------------|
| | 3-7/8x2 | 4-3/8x1-1/4 | 1-3/4 | 1-3/8 | 1-1/4 |

Spare Strike for Fig. 918, Specify Fig. 918 99-A

Spare Strike for Fig. 919, Specify Fig. 919 99A

Escutcheon with Tumbler Set and 2 Keys for Figs. 918 and 919, Specify Fig.

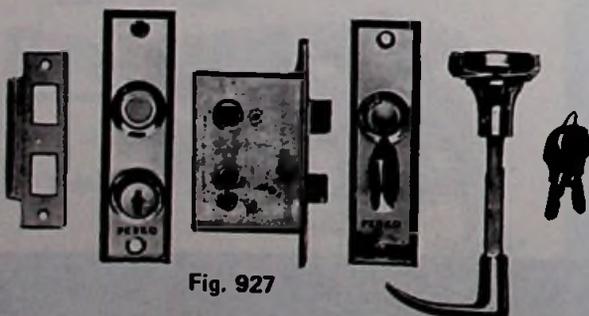


Fig. 927

MORTISE LOCK SETS—Fig. 927

Die Cast Zinc Alloy – Chromium Plated – Reversible

Five disc tumbler type with dead bolt for inside. With round knob and lever handle, two keys. For door 1 to 1-1/2 inches thick. Backset 1-3/8 inches.

| Per Set | Size Case Inches | Size Facing Inches | Size Escutcheon Inches | Diameter Knob Inches | Weight Pounds |
|---------|------------------|--------------------|------------------------|----------------------|---------------|
| | 2-3/4x2 | 4x13/16 | 4-3/8x1-1/4 | 1-3/4 | 1-1/4 |

Spare Strike for Fig. 927, Specify Fig. 927 99A

Escutcheon with Tumbler Set and 2 Keys for Fig. 927, Specify Fig. 927 99-A



Spare Knob, Lever Handle and Spindle Assembly for All Above – Specify Fig. 962
 Figs. 918, 919, 928 AND 930 ARE AVAILABLE IN DISPLAY PACK, SEE SECTION "L".

FLUSH SECURITY LOCK—Fig. 921

Die Cast Zinc Alloy — Chromium Plated

A trim and sturdy lock designed to eliminate bulky padlock type protrusions. Constructed for marine environment, this lock is ideal for lockers, compartment doors in consoles, dock boxes and other applications requiring protection against theft or vandalism. The design of this unit also allows for easy installation by drilling a 1-5/8" diameter hole.

| Each | Size Inches | Weight Ounces |
|------|-------------|---------------|
| | 2-1/4 x 2 | 8 |

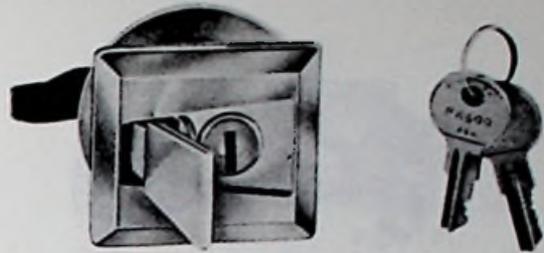


Fig. 921

FLUSH LATCH—Fig. 922

Die Cast Zinc Alloy — Chromium Plated

This unit is the same design as Fig. 921, except without locking device. It is offered for use as a positive latching device where security is not required.

| Each | Size Inches | Weight Ounces |
|------|---------------|---------------|
| | 1-1/2 x 2-1/4 | 6 |

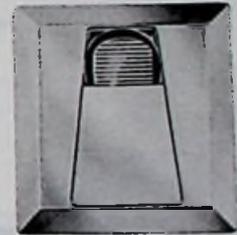


Fig. 922

ONE-WAY NIGHT OR SAFETY LATCH—Fig. 948

Die Cast Zinc Alloy — Chromium Plated — With Sliding Safety Catch

| Each | Dimensions Without Strike Inches | Weight Ounces |
|------|----------------------------------|---------------|
| | 2-1/8x1-3/4 | 5 |

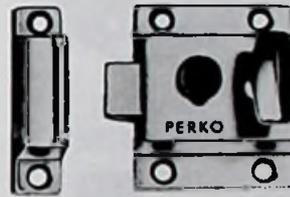


Fig. 948

Standard Package, 5 Pieces.

HEAVY DUTY CUPBOARD TURNS—Fig. 978

Die Cast Zinc Alloy — Chromium Plated

High Quality in Design and Smooth Operation

| Each | Dimensions Without Strike Inches | Weight Ounces |
|------|----------------------------------|---------------|
| | 2-1/8x1-3/4 | 5 |

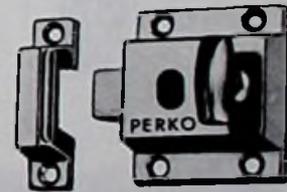


Fig. 978

Standard Package, 5 Pieces.

CUPBOARD CATCHES—Fig. 1102

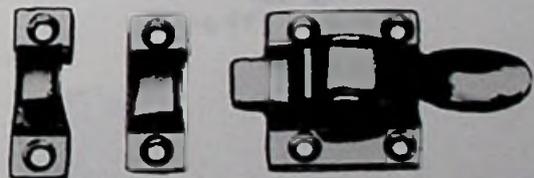
Die Cast Zinc Alloy — Chromium Plated

| NO. | Each | Dimensions Without Strike Inches | Weight Ounces |
|-----|------|----------------------------------|---------------|
| 1 | | 1-1/2x1-3/8 | 3-1/2 |
| 2 | | 1-1/2x1-3/8 | 3-1/2 |

No. 1 Supplied with Flush Strike

No. 2 Supplied with Offset Strike

Standard Package, 5 Pieces



Offset

Flush

Fig. 1102

SKIN PACK — Fig. 1102-SP

One Catch Per Card

Supplied with Flush and Offset Strikes

Six Cards Per Box.

Weight Per Box, 1 Pound.

Sold To Trade In Full Box Only



Fig. 1102-SP

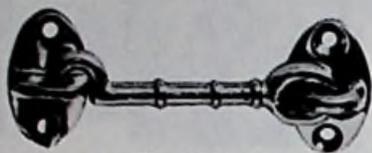


Fig. 956

CABIN DOOR HOOKS—Fig. 956

Pressure Cast Bronze

| No. | Length Hook Inches | Plain Bronze Each | Chromium Plated Each | Weight Ounces |
|-----|--------------------|-------------------|----------------------|---------------|
| 1 | 1-1/2 | | | 1 |
| 2 | 2 | | | 1-1/2 |
| 3 | 2-1/2 | | | 1-3/4 |
| 4 | 3 | | | 2 |
| 5 | 3-1/2 | | | 2-1/2 |
| 6 | 4 | | | 3 |
| 7 | 5 | | | 3-1/2 |
| 8 | 6 | | | 5 |

Standard Package, 5 Pieces.

Spare Keepers, Specify Fig. 959 and Finish

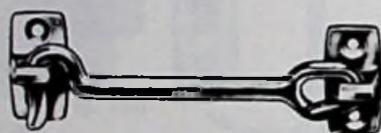


Fig. 1199

CABIN DOOR HOOKS—Fig. 1199

Die Cast Zinc Alloy – Chromium Plated

| No. | Length Hook Inches | Each | Weight Ounces |
|-----|--------------------|------|---------------|
| 1 | 1-3/4 | | 1-1/4 |
| 2 | 2-1/4 | | 1-3/8 |
| 3 | 3 | | 1-1/2 |
| 4 | 4 | | 1-3/4 |

Spare Keepers, See Fig. 1261.

Standard Package, 20 Pieces.



Fig. 1199-SP



SKIN PACK – Fig. 1199-SP

Size No.1

One Hook Per Card.

Twelve Cards Per Box.

Weight Per Box, 2 Pounds.

Sold To Trade In Full Box Only.

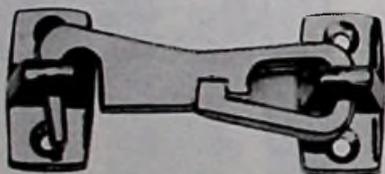


Fig. 1287

MODERN DESIGN CABIN DOOR HOOKS—Fig. 1287

Patent No. 197,531

Die Cast Zinc Alloy – Chromium Plated

| No. | Length Hook Inches | Each | Dimensions Eye Plate Inches | Weight Ounces |
|-----|--------------------|------|-----------------------------|---------------|
| 1 | 2 | | 1-1/4x11/16 | 1-1/4 |
| 2 | 2-1/2 | | 1-1/4x11/16 | 1-1/2 |
| 3 | 3 | | 1-1/4x11/16 | 1-3/4 |

Spare Keepers, See Fig. 1261.

Standard Package, 20 Pieces.



Fig. 1287-SP



SKIN PACK – Fig. 1287-SP

Size No. 2

One Hook Per Card

Six Cards Per Box

Weight Per Box, 13 Ounces

Sold To Trade In Full Box Only



Fig. 1051

FLUSH RING CATCHES—Fig. 1051

Die Cast Zinc Alloy – Chromium Plated – Phosphor Bronze Spring

| Each | Size Inches | Standard Package | Weight Ounces |
|------|-------------|------------------|---------------|
| | 1-3/4x1-3/8 | 10 | 1-1/2 |

CUPBOARD BOLT—Fig. 1101

Die Cast Zinc Alloy – Chromium Plated

| Each | Dimensions Without Strike Inches | Weight Ounces |
|------|----------------------------------|---------------|
| | 1-1/2x1-1/2 | 2 |

Standard package 5 pieces.



Fig. 1101

SKIN PACK – Fig. 1101-SP

One Bolt Per Card.

Six Cards Per Box.

Weight Per Box, 1 1/4 Pounds.

Sold To Trade In Full Box Only.



Fig. 1101-SP

DOOR BUTTONS – Figs. 1216 & 1217

Die Cast Zinc Alloy – Chromium Plated – Black Plastic Knob

Eliminates rattling doors. Phosphor bronze coil spring under knob holds button against the plate. Drilled and countersunk for No. 6 screw.

| | Each | Plate Diameter Inches | Width Less Keeper Inches | Standard Package | Weight Ounces |
|-----------|------|-----------------------|--------------------------|------------------|---------------|
| Fig. 1216 | | 1-11/16 | 1-3/16 | 10 | 1-1/2 |
| Fig. 1217 | | 1-11/16 | 1-3/16 | 10 | 1-1/2 |



Fig. 1216 With Spring



Fig. 1217 Without Spring

SKIN PACK – Fig. 1216-SP

With Spring

One Button Per Card.

Twelve Cards Per Box.

Weight Per Box, 1 1/4 Pounds.

Sold To Trade In Full Box Only.

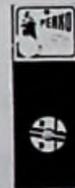


Fig. 1216 SP

BARREL BOLTS—Fig. 947

Pressure Cast Bronze

| No. | Plain Each | Chromium Plated Each | Length Rod Inches | Size Base Without Strike Inches | Weight Ounces |
|-----|------------|----------------------|-------------------|---------------------------------|---------------|
| 1 | | | 2-3/4 | 2-1/4x1-3/8 | 4 |
| 2 | | | 3 | 3 x1-1/4 | 4 |
| 3 | | | 4 | 4 x1-3/8 | 5 |

Standard Package, 5 Pieces.

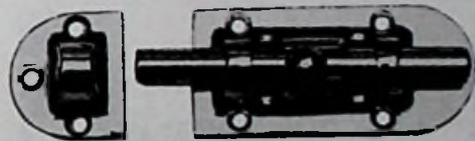


Fig. 947

SKIN PACK – Fig. 947-SP

Size No. 2 – Chromium Plated

One Bolt Per Card.

Five Cards Per Box.

Weight Per Box, 1 1/2 Pounds.

Sold To Trade In Full Box Only.



Fig. 947-SP

SHIP BOLTS—Fig. 1053

Pressure Cast Bronze – Chromium Plated

| Each | Size Without Strike Inches | Weight Ounces |
|------|----------------------------|---------------|
| | 2-3/8x1-1/4 | 1-3/4 |

Standard Package, 5 Pieces.



Fig. 1053



Fig. 560

MAGNETIC DOOR CATCH – Fig. 560

For cupboard and locker doors – special corrosion resistant finish prevents rusting.

| Each | Catch Size Inches | Weight Ounces | Std. Pkg. |
|------|-------------------|---------------|-----------|
| | 1-7/8 x 1/2 | 1/2 | 25 |



Fig 1056

ELBOW CATCHES—Fig. 1056

Die Cast Zinc Alloy – Chromium Plated

| Each | Size Base Inches | Standard Package | Weight Ounces |
|------|------------------|------------------|---------------|
| | 1-1/8x9/16 | 10 | 3/4 |

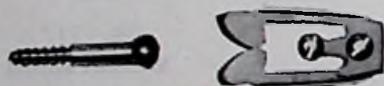


Fig 554

SKIN PACK – Fig. 1056-SP

One Catch Per Card.

Twelve Cards Per Box.

Weight Per Box, 1 Pound.

Sold To Trade In Full Box Only.



“FLEXA” DOOR CATCHES—Fig. 554

White Nylon Catch – Stainless Steel Spring – With Brass, Chromium Plated Screws – Positive Grip – 18 Pound Pull

| Each Complete | Length Catch Inches | Length Ball Head Screw Inches | Standard Package | Weight Ounces |
|---------------|---------------------|-------------------------------|------------------|---------------|
| | 1-3/16 | 3/4 | 25 | 1/4 |



Fig. 559

“POLYDEL” DOOR CATCHES—Fig. 559

Black – Delrin Ball Stud – Polyethylene Catch – Holds Door Firmly in Place Against Vibration and Motion

| Each | Stud Size Inches | Catch Size Inches | Standard Package | Weight Per 100 Pounds |
|------|------------------|-------------------|------------------|-----------------------|
| | 1-1/8x3/8 | 1-3/8x7/8 | 25 | 1 |



SKIN PACK – Fig. 559-SP

Two Catches Per Card.

Twenty-Five Cards Per Box.

Weight Per Box, 1 Pound.

Sold To Trade In Full Box Only.



Fig. 559-SP

IMPROVED – SPRING LOADED

FLUSH PULL—Fig 1221

Supplied with a Black Plastic Finishing Flange

Die Cast Zinc Alloy – Chromium Plated

This modern styled ring pull solves many installation problems. It can be used vertically for doors or drawers and also horizontally for small hatches, lids or ice boxes, fish boxes, storage compartments, etc. Mounted vertically can be used as a concealed coat hangar hook.

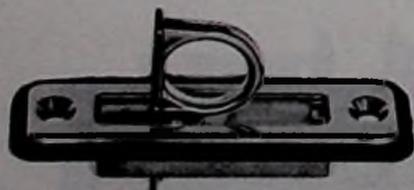


Fig. 1221

| Each | Dimensions Plate Inches | Standard Package | Weight Ounces |
|------|-------------------------|------------------|---------------|
| | 3/4-3-1/4 | 5 | 3 |

FLUSH RING PULLS—Fig. 841

Die Cast Zinc Alloy — Chromium Plated

| Each | Size Plate Inches | Standard Package | Weight Ounces |
|------|-------------------|------------------|---------------|
| | 1-3/4x1-3/8 | 10 | 1 |

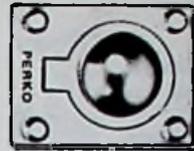


Fig. 841

SKIN PACK — Fig. 841-SP

One Pull Per Card
Twelve Cards Per Box
Weight Per Box, 1 Pound

Sold To Trade In Full Box Only



Fig. 841-SP

FLUSH RING PULLS—Fig. 1103

Pressure Cast Bronze — Chromium Plated

| Each | Size Plate Inches | Standard Package | Weight Ounces |
|------|-------------------|------------------|---------------|
| | 2-9/16x2 | 5 | 3-1/2 |



Fig. 1103



Fig. 575

FLUSH HATCH LIFTING RING—Fig. 575

Safety Type — Pressure Cast Bronze

No recess to catch heels, chair or table legs, etc.

| Chromium Plated Each | Size Plate Inches | Inside Ring Inches | Standard Package | Weight Ounces |
|----------------------|-------------------|--------------------|------------------|---------------|
| | 2-5/8x2 | 1 | 5 | 3 |



Fig. 575-SP

SKIN PACK — Fig. 575-SP

One Ring Per Card
Twelve Cards Per Box
Weight Per Box, 1½ Pounds
Sold To Trade In Full Box Only

FLUSH HATCH LIFTING HANDLE—Fig. 1220

Die Cast Zinc Alloy — Chromium Plated

No large recess to catch chairs, heels, table legs, etc.

| Each | Dimensions Plate Inches | Inside Handle Inches | Standard Package | Weight Ounces |
|------|-------------------------|----------------------|------------------|---------------|
| | 3x2-1/4 | 1-7/8x1 | 5 | 3 |

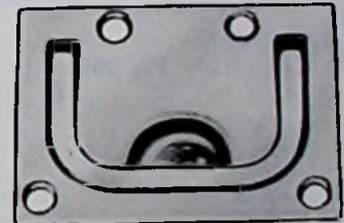


Fig. 1220

SKIN PACK — Fig. 1220-SP

One Handle Per Card
Ten Cards Per Box
Weight Per Box, 2½ Pounds
Sold To Trade In Full Box Only



Fig. 1220-SP

HEAVY DUTY

FLUSH HATCH LIFTING HANDLE—Fig. 776

Pressure Cast Bronze — Stainless Steel Pin

| No. | Plain Each | Chromium Plated Each | Dimensions Plate Inches | Inside Handle Inches | Weight Ounces |
|-----|------------|----------------------|-------------------------|----------------------|---------------|
| 1 | | | 3 x 2-1/4 | 1-7/8 x 1 | 3-1/2 |
| 2 | | | 3-3/4 x 2-3/4 | 2-3/16 x 1-3/16 | 5-1/2 |

Size No. 1 Same Appearance as Fig. 1220

Illustration is Size No. 2

Standard Package, 5 Pieces.

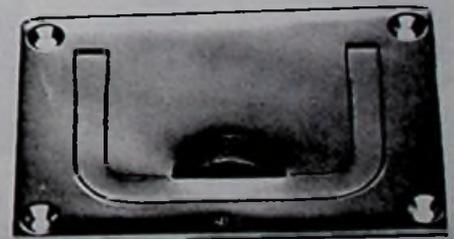


Fig. 776

SKIN PACK — Fig. 776-SP

No. 1 Chromium Plated
One Handle Per Card
Six Cards Per Box
Weight Per Box, 1¼ Pounds
Sold To Trade In Full Box Only



Fig. 776-SP



Side
Mounting
Fig. 1290



Offset
Mounting
Fig. 1291



Port Side
Fig. 82



Fig. 360



Fig. 1179

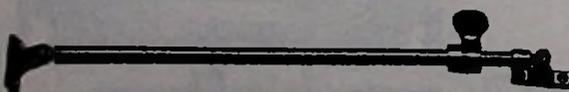


Fig. 1180

WINDSHIELD ADJUSTERS—Figs. 1290 & 1291

Die Cast Zinc Alloy — Chromium Plated

| Per Pair | Length Overall Inches | Length Adjustment Inches | Diam. Knob Inches | Weight Per Pair Pounds |
|----------|-----------------------|--------------------------|-------------------|------------------------|
| | 12 | 9-1/2 | 1-3/4 | 1-1/2 |

Spare Arms with Mounting Bracket and Knob Specify Fig. 1290 99-A or Fig. 1291 99-A

Specify if Port or Starboard Side. Illustration is Port Side.

Spare Mounting Brackets with Knob Specify Fig. 1290-99B or Fig. 1291 99-B

Spare Knobs Specify Fig. 1292



WINDSHIELD ADJUSTERS—Fig. 82

Bronze — Chromium Plated

| Per Pair | Length Overall Inches | Length Adjustment Inches | Weight Per Pair Pounds |
|----------|-----------------------|--------------------------|------------------------|
| | 12 | 9-1/2 | 2-3/8 |

NOTE — When ordering 1/2 pair, specify whether for port or starboard side.

Spare Thumb Screws, Specify Fig. 82-99 A.

Spare Arms with Base, Specify Fig. 82-99 B Specify Port or Starboard



“SKIPPER” WINDSHIELD ADJUSTER—Fig. 360

Chromium Plated — For Heavy Cruiser Windshields

Enables the skipper to adjust the windshield with one hand without leaving the wheel. The large bakelite knob is used for pushing, pulling, tightening or loosening in one operation.

| Each | Length Base Overall Inches | Length Windshield Arm Inches | Length of Adjustment Inches | Weight Pounds |
|------|----------------------------|------------------------------|-----------------------------|---------------|
| | 27-1/2 | 23 | 22-1/2 | 3-3/4 |

Spare Knobs, Specify Fig. 360-99 A.

Spare Side Body with Plastic Friction Pad.

Specify, Fig. 360-99 B.

Spare End Stanchions, See Fig. 1297.

Special sizes to order, in manufacturing quantities only.



WINDSHIELD ADJUSTERS—Fig. 1179

Heavy Pattern — Chromium Plated

Illustration shows swivel base on left side and swinging base on right.

| No. | Each | Length Closed Inches | Length Open Inches | Diam. Outside Tube Inches | Weight Ounces |
|-----|------|----------------------|--------------------|---------------------------|---------------|
| 1 | | 10 | 18 | 1/2 | 9 |
| 2 | | 12 | 20 | 1/2 | 11 |

Spare Thumb Screws, Specify Fig. 1117.

Spare Swinging Base with Female Threaded Socket, Specify Fig. 1136.



WINDSHIELD ADJUSTERS—Fig. 1180

Chromium Plated

A powerful non-slip grip keeps this adjuster in desired position.

| Each | Length Closed Inches | Length Open Inches | Diam. Outside Tube Inches | Weight Ounces |
|------|----------------------|--------------------|---------------------------|---------------|
| | 12 | 21 | 1/2 | 10 |

Spare Thumb Screws, Specify Fig. 1117.

Spare Swinging Base with Female Threaded Socket, Specify Fig. 1136.

Spare Swinging Base with Male Threaded Plug, Specify Fig. 1138.

WINDSHIELD ADJUSTERS—Fig. 1116

Chromium Plated

| No. | Each | Length Inches | Diam. Rod Inches | Weight Ounces |
|-----|------|---------------|------------------|---------------|
| 1 | | 8 | 3/8 | 11 |
| 2 | | 10 | 3/8 | 12 |
| 3 | | 12 | 3/8 | 13 |

Spare Thumb Screws, Specify Fig. 1117.

Spare Swivel with Base and Set Screw, Specify Fig. 1116-99 A.



Fig. 1116

HATCH ADJUSTERS—Fig. 797

Chromium Plated — Improved With Stop Teeth in Back of Slide.

| Chromium Plated Each | Length Arm Inches | Length Adjustment Inches | Length Slide Inches | Weight Ounces |
|----------------------|-------------------|--------------------------|---------------------|---------------|
| | 10 | 9-1/2 | 10-3/4 | 13 |

Spare Knobs, Specify Fig. 1292.



Fig. 797

HATCH FASTENERS OR WINDSHIELD KEEPER—Fig. 155

Brass — Chromium Plated — With Phosphor Bronze Internal Spring

This fastener has strong spring action providing quick grip or release.

| Each | Length Overall Inches | Size of Mounting Inches | Standard Package | Weight Ounces |
|------|-----------------------|-------------------------|------------------|---------------|
| | 3-7/8 | 1-1/2x9/16 | 5 | 3-1/4 |



Fig. 155

WINDSHIELD KEEPER OR HATCH FASTENER—Fig. 697

Chromium Plated

| Per Set | Base of Keeper Inches | Base of Plate Inches | Standard Package | Weight Ounces |
|---------|-----------------------|----------------------|------------------|---------------|
| | 1-1/2x5/8 | 1-1/2x3/4 | 10 | 3 |

A set consists of parts illustrated.



Fig. 697

HATCH FASTENER OR WINDSHIELD KEEPER—Fig. 769

Chromium Plated

| Each | Dimensions For Each Base Inches | Standard Package | Weight Ounces |
|------|---------------------------------|------------------|---------------|
| | 1-1/2x5/8 | 10 | 4-1/2 |

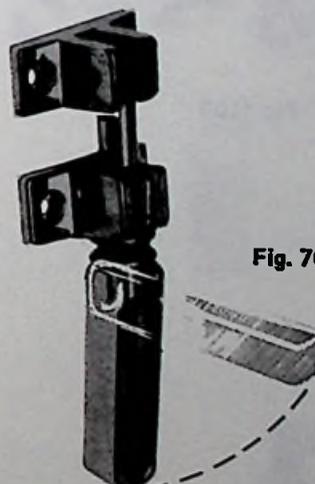


Fig. 769



Fig. 769SP

SKIN PACK — Fig. 769-SP

One Per Card

Five Cards Per Box

Weight Per Box, 1-1/2 Pounds

Sold To Trade In Full Box Only

WINDSHIELD KEEPER OR HATCH FASTENER—Fig. 967

Cast Bronze — Chromium Plated

| Per Set | Base Of Keeper Inches | Base of Plate Inches | Length Bolt inches | Standard Package | Weight Ounces |
|---------|-----------------------|----------------------|--------------------|------------------|---------------|
| | 1-9/16x1 | 1-7/8x7/8 | 1-1/4 | 5 | 6 |



Fig. 967



Fig. 1112

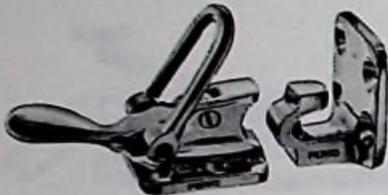


Fig. 1113



Fig. 1112-SP
Fig. 1113-SP

HATCH HOLD-DOWN CLAMPS—Figs. 1112 & 1113

Pressure Cast Bronze — Polished Chromium Plated

An excellent item with many uses, on hatch covers, wind-shields, windows, bait and fish boxes, etc.

Flat Mounting Fig. 1112

| Each | Length Inches | Width Inches | Standard Package | Weight Ounces |
|------|---------------|--------------|------------------|---------------|
| | 3 | 1-1/2 | 5 | 5-1/2 |

Spare Keepers, Specify Fig. 1112-99 A.

Angle Mounting Fig. 1113

| Each | Length Inches | Width Inches | Standard Package | Weight Ounces |
|------|---------------|--------------|------------------|---------------|
| | 2-1/2 | 1-1/2 | 5 | 5-1/2 |

Spare Keepers, Specify Fig. 1113-99 A.



SKIN PACK — Fig. 1112-SP

SKIN PACK — Fig. 1113-SP

One Clamp Per Card

Three Cards Per Box

Weight Per Box, 1 1/4 Pounds

Sold To Trade In Full Box Only



Fig. 1108

ANTI-RATTLE DOOR OR HATCH FASTENER—Fig. 1108

Pressure Cast Bronze — Chromium Plated

Has 1/4 inch hole in lever for padlock.

| Each | Size Base Inches | Standard Package | Weight Ounces |
|------|------------------|------------------|---------------|
| | 2-3/4x1-3/4 | 5 | 4 |

Spare Keepers, Specify Fig. 1108-99 A.



Fig. 762

HATCH SUPPORT HINGES—Fig. 762

Brass — Chromium Plated

| No. | Length Open Inches | Per Pair | For Screw No. | Weight Per Pair Ounces |
|-----|--------------------|----------|---------------|------------------------|
| 1 | 10 | | 8 | 10 |
| 2 | 12 | | 8 | 12 |
| 3 | 14 | | 8 | 14 |

Illustration Shows Left Hand.

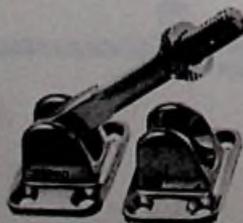


Fig. 770

SASH OR HATCH FASTENERS—Fig. 770

Pressure Cast Bronze — Stainless Steel Pin

| Chromium Plated Each | Extreme Length Overall Inches | Width Inches | Length Thread Inches | Standard Package | Weight Ounces |
|----------------------|-------------------------------|--------------|----------------------|------------------|---------------|
| | 3-3/4 | 1-5/8 | 2-1/4 | 5 | 6 |

Spare Knurled Nut, Specify Fig. 770-99 A.

Spare Keeper, Specify Fig. 770-99 B.

SLIDING WINDOW HANDLE—Fig. 954

18-8 Stainless Steel — Polished — For 1/4 Inch Glass

A useful handle made for easier operation of sliding windows.



Fig. 954

| Each | Length Inches | Standard Package | Weight Ounces |
|------|---------------|------------------|---------------|
| | 3 | 5 | 1 |



SLIDING WINDOW STOP—Fig. 935

Die Cast Zinc Alloy — Chromium Plated



Fig. 935

| Each | Mounting Plate Inches | Stopping Plate Inches | Standard Package | Weight Ounces |
|------|-----------------------|-----------------------|------------------|---------------|
| | 1-7/8x3/4 | 1-1/2x3/4 | 5 | 2 |



SLIDING WINDOW LOCK AND ANTI RATTLER—Fig. 937

Die Cast Zinc Alloy — Chromium Plated — Bakelite Knob Plastic Tip



Fig. 937

| Each | Height Overall Inches | Mounting Plate Inches | *Length Screw Inches | Standard Package | Weight Ounces |
|------|-----------------------|-----------------------|----------------------|------------------|---------------|
| | 1-5/8 | 1x5/8 | 1-1/8 | 5 | 1-1/4 |

*Between Knob and Tip

Spare Knobs, Specify Fig. 943 and Size.

Spare Plastic Tips, Specify Fig. 944.



SKIN PACK — Fig. 937-SP

Two Locks Per Card

Six Cards Per Box

Weight Per Box, 2 Pounds



Fig. 937-SP

Sold To Trade In Full Box Only



SLIDING WINDOW LOCK AND ANTI RATTLER—Fig. 934

Die Cast Zinc Alloy — Chromium Plated — Bakelite Knob Plastic Tip



Fig. 934

| Each | Height Overall Inches | Dimensions Base Inches | *Length Screw Inches | Standard Package | Weight Ounces |
|------|-----------------------|------------------------|----------------------|------------------|---------------|
| | 1 | 2x5/8 | 1-1/8 | 5 | 1-1/4 |

*Between Knob and Tip

Spare Knobs, Specify Fig. 943

Spare Plastic Tips, Specify Fig. 944.

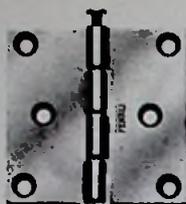


Fig. 1293

BUTT HINGES—Fig. 1293

Die Cast Zinc Alloy – Chromium Plated
Stainless Steel Removable Pin

| No. | Per Pair | Size Open Inches | For Screw No. | Weight Per Pair Ounces |
|-----|----------|------------------|---------------|------------------------|
| 2 | | 1-1/2 x 1-1/2 | 8 | 2 |
| 3 | | 2 x 1-1/2 | 8 | 2-1/2 |
| 4 | | 2 x 2 | 8 | 3 |
| 5 | | 2-1/2 x 2 | 8 | 4-1/2 |
| 6 | | 2-1/2 x 2-1/2 | 8 | 5 |
| 7 | | 3 x 3 | 10 | 7-1/2 |

Sizes 2-3-4 have 4 Screw Holes – Sizes 5-6-7 have 6 Screw Holes.
Standard Package, 5 Pairs.



Fig. 1293-SP

SKIN PACK – Fig. 1293-SP

Size No. 4 – 2"x2"

One Pair Per Card

Ten Cards Per Box

Weight Per Box, 2 1/4 Pounds

Sold To Trade In Full Box Only.

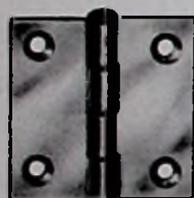


Fig. 952

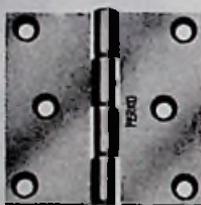


Fig. 949

BUTT HINGES— Figs. 952 & 949

Heavy Gauge Wrought Brass

Fig. 952 Has A Removable Pin

Fig. 949 Has A Fast Pin

| No. | Plain Brass Per Pair | Chromium Plated Per Pair | Size Open Inches | For Screw No. | Standard Package | Weight Per Pair Ounces |
|-----|----------------------|--------------------------|------------------|---------------|------------------|------------------------|
| 1 | | | 1-1/2 x 1-1/4 | 8 | 5 Prs. | 2 |
| 2 | | | 1-1/2 x 1-1/2 | 8 | 5 Prs. | 2-1/2 |
| 3 | | | 2 x 1-1/2 | 8 | 5 Prs. | 2-3/4 |
| 4 | | | 2 x 2 | 8 | 5 Prs. | 4 |
| 5 | | | 2-1/2 x 2 | 8 | 1 Pr. | 5 |
| 6 | | | 2-1/2 x 2-1/2 | 8 | 1 Pr. | 6-3/4 |
| 7 | | | 3 x 3 | 10 | 1 Pr. | 9-1/2 |

Sizes 1-2-3-4 have 4 Screw Holes – Sizes 5-6-7 have 6 Screw Holes.



Fig. 120

STRAP HINGES—Fig. 120

Pressure Cast Bronze – Stainless Steel Pin

| No. | Burnished Per Pair | Chromium Plated Per Pair | Length Open Inches | Width At Pin Inches | Standard Package | Weight Per Pair Ounces |
|-----|--------------------|--------------------------|--------------------|---------------------|------------------|------------------------|
| 1 | | | 4 | 1-1/16 | 5 Prs. | 4 |
| 2 | | | 6 | 1-1/8 | 5 Prs. | 6 |
| 3 | | | 8 | 1-3/16 | 1 Pr. | 14 |

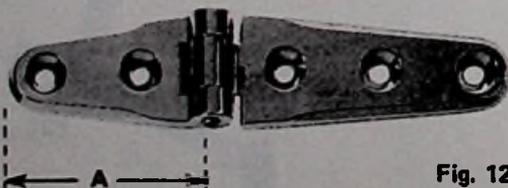


Fig. 122

SHORTSIDE STRAP HINGES—Fig. 122

Pressure Cast Bronze – Stainless Steel Pin

| Length Open Inches | Chromium Plated Per Pair | Width Inches | For Screw No. | Weight Per Pair Ounces |
|--------------------|--------------------------|--------------|---------------|------------------------|
| 4-7/8 | | 1-7/8 | 10 | 5 |

Dimension "A" to Center of Pin 2"

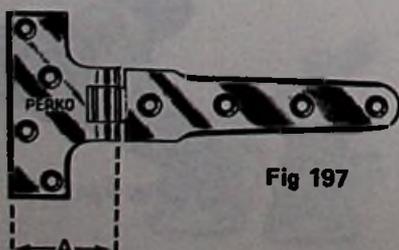


Fig. 197

"T" HINGES—Fig. 197

Cast Bronze – Stainless Steel Pin

| No. | Burnished Per Pair | Chromium Plated Per Pair | Length Open Inches | Width Overall Inches | Diam. "A" Inches | Standard Package | Weight Per Pair Pounds |
|-----|--------------------|--------------------------|--------------------|----------------------|------------------|------------------|------------------------|
| 1 | | | 4 | 2-1/8 | 1-3/16 | 5 Prs. | 1/2 |
| 2 | | | 6 | 3 | 1-1/2 | 1 Pr. | 7/8 |
| 3 | | | 8 | 3-3/8 | 2 | 1 Pr. | 1-1/2 |

BUY STANDARD PACKAGES

CUDDY DOOR HINGES—Fig. 808

Die Cast Zinc Alloy — Chromium Plated
With Stainless Steel Pin

| Per Pair | Length Open Inches | Extreme Width Inches | For Screw No. | Weight Per Pair Ounces |
|----------|--------------------------|----------------------------|---------------------|------------------------------|
| | 3 | 1-1/2 | 8 | 3-1/2 |

Standard Package, 5 Pairs.



Fig. 808

SKIN PACK — Fig. 808-SP

One Pair Per Card
Ten Cards Per Box
Weight Per Box, 2 3/4 Pounds
Sold To Trade In Full Box Only



Fig. 808-SP

HEAVY DUTY CUDDY DOOR HINGES—Fig. 951

Pressure Cast Bronze — Chromium Plated 18-8 Stainless
Steel Pin

| No. | Length Open Inches | Per Pair | Width Inches | For Screw No. | Weight Per Pair Ounces |
|-----|--------------------------|----------|-----------------|---------------------|------------------------------|
| 1 | 3 | | 1-1/2 | 8 | 3-1/2 |
| 2 | 4 | | 1-1/2 | 8 | 5-1/2 |

Standard Package, 5 Pairs.

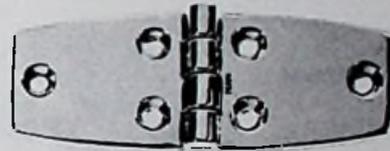


Fig. 951

HEAVY DUTY CABINET HINGES—Figs. 987 & 1213

Pressure Cast Bronze or Die Cast Zinc Alloy
Surface Type — 18-8 Stainless Steel Pin

| Fig. No. | Length Open Inches | Chromium Plated Per Pair | Width Inches | For Screw No. | Weight Per Pair Ounces |
|----------|--------------------------|--------------------------------|-----------------|---------------------|------------------------------|
| 987 1 | 2-1/4 | | 1-1/2 | 8 | 3-1/2 |
| 987 2 | 2-3/4 | | 1-1/2 | 8 | 4 |
| 1213 1 | 2-1/4 | | 1-1/2 | 8 | 3 |

Dimension "A" — 9/16"

Standard Package, 5 Pairs.

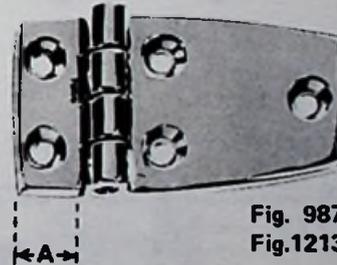


Fig. 987 — Bronze
Fig. 1213 — Die Cast

HEAVY DUTY CABINET HINGES— Figs. 988 & 1214

Pressure Cast Bronze or Die Cast Zinc Alloy 3/8" Offset
Type — 18-8 Stainless Steel Pin

| Fig. No. | Length Open Inches | Chromium Plated Per Pair | Width Inches | For Screw No. | Weight Per Pair Ounces |
|----------|--------------------------|--------------------------------|-----------------|---------------------|------------------------------|
| 988 1 | 2-1/4 | | 1-1/2 | 8 | 4 |
| 988 2 | 2-3/4 | | 1-1/2 | 8 | 5 |
| 1214 1 | 2-1/4 | | 1-1/2 | 8 | 4 |

Dimension "A" — 11/16"

Standard Package, 5 Pairs.

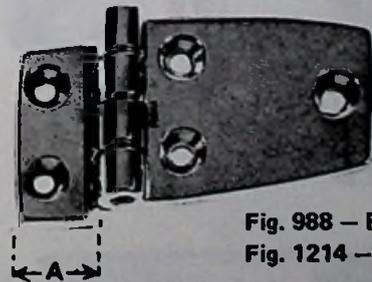


Fig. 988 — Bronze
Fig. 1214 — Die Cast

HEAVY DUTY SHORTSIDE HINGES—Fig. 999

Pressure Cast Bronze — Chromium Plated 18-8 Stainless
Steel Pin

| Length Open Inches | Per Pair | Width Inches | For Screw No. | Weight Per Pair Ounces |
|--------------------------|----------|-----------------|---------------------|------------------------------|
| 3-1/2 | | 1-1/2 | 8 | 5 |

Dimension "A" — 1-5/16"

Standard Package, 5 Pairs.

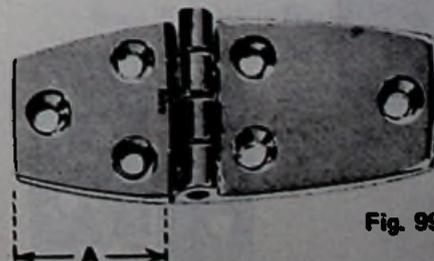


Fig. 999

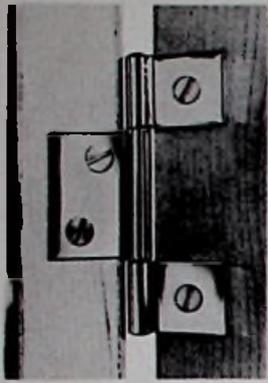


Fig. 957

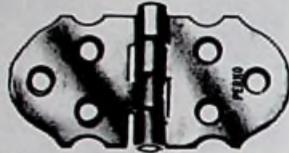


Fig. 924



Fig. 924-SP



Fig. 1058



Fig. 929

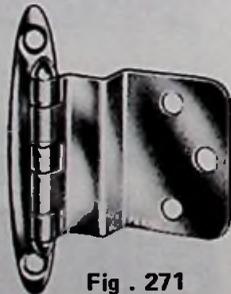


Fig. 271



Fig. 271-SP

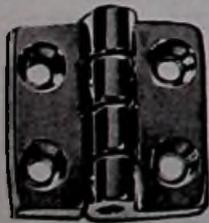


Fig. 941

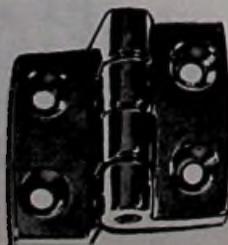


Fig. 942

NON-MORTISED HINGE—Fig. 957

Heavy Gauge Wrought Brass — Fast Pin — Chromium Plated
Reversible, does not require mortising. Reduces installation cost.

| Per Pair | Pin Length Inches | Width Closed Inches | For Screw No. | Std. Pkg. | Weight Per Pair |
|----------|-------------------|---------------------|---------------|-----------|-----------------|
| | 3-3/8 | 7/8 | 8 | 5 pr | 4 oz |

CUDDY DOOR HINGES—Fig. 924

Wrought Brass — Thickness .051 Inches —

| Chromium Plated Per Pair | Length Open Inches | Extreme Width Inches | Standard Package | Weight Per Pair Ounces |
|--------------------------|--------------------|----------------------|------------------|------------------------|
| | 3 | 1-1/2 | 5 Pairs | 2-1/2 |

SKIN PACK — Fig. 924-SP

One Pair Per Card

Twelve Cards Per Box

Weight Per Box, 2 Pounds

Sold To Trade In Full Box Only

BUTTERFLY HINGES—Fig. 1058

Wrought Brass

| No. | Length Open Inches | Width at Pin Inches | Thickness Inches | Standard Package | Weight Per Pair Ounces |
|-----|--------------------|---------------------|------------------|------------------|------------------------|
| 1 | 2-1/4 | 3/4 | .040 | 10 Pairs | 1/2 |
| 2 | 3 | 1-1/16 | .045 | 10 Pairs | 1-1/2 |

FLAP HINGES—Fig. 929

Stainless Steel — Polished — Thickness .050 Inches

| Per Pair | Length Open Inches | Extreme Width Inches | Standard Package | Weight Per Pair Ounces |
|----------|--------------------|----------------------|------------------|------------------------|
| | 2-1/16 | 3/4 | 10 Pairs | 1 |

"SEMI-CONCEALED" HINGE—Fig. 271

Wrought Brass — Chromium Plated

For use on doors with 3/8" inset.

| Per Pair | Dimensions Overall Inches | Standard Package | Weight Per Pair Ounces |
|----------|---------------------------|------------------|------------------------|
| | 2-3/4x2-1/8 | 10 Pairs | 2-1/2 |

SKIN PACK — Fig. 271-SP

One Pair Per Card

Ten Cards Per Box

Weight Per Box, 2 Pounds

Sold To Trade In Full Box Only

HEAVY DUTY CABINET HINGES — Fig. 941

Die Cast Zinc Alloy — Chromium Plated with Stainless Steel Pin — Surface Type

| Per Pair | Size Open Inches | Dimension "A" | For Screw No. | Standard Package | Weight Per Pair Ounces |
|----------|------------------|---------------|---------------|------------------|------------------------|
| | 1-1/2x1-1/2 | 1/2" | 8 | 5 Prs. | 2-1/4 |

HEAVY DUTY CABINET HINGES — Fig. 942

Die Cast Zinc Alloy — Chromium Plated with Stainless Steel Pin — 3/8" Offset Type

| Per Pair | Size Open Inches | Dimension "A" | For Screw No. | Standard Package | Weight Per Pair Ounces |
|----------|------------------|---------------|---------------|------------------|------------------------|
| | 1-1/2x1-1/2 | 9/16" | 8 | 5 Prs. | 2-1/2 |

"PULL-OUT" HINGE—Fig. 149

Pressure Cast Bronze — Chromium Plated

Left Hand

| Each | Length Inches | Width at Pin Inches | Standard Package | Weight Ounces |
|------|---------------|---------------------|------------------|---------------|
| | 3-3/4 | 2 | 2 | 5-1/2 |



"PULL-OUT" HINGE — Fig. 152

Pressure Cast Bronze — Chromium Plated

Right Hand

| Each | Length Inches | Width at Pin Inches | Standard Package | Weight Ounces |
|------|---------------|---------------------|------------------|---------------|
| | 3-3/4 | 2 | 2 | 5-1/2 |



HATCH HINGES—Fig. 773

Cast Bronze

For use with flush hatch cover.

| Burnished Per Pair | Chromium Plated Per Pair | Length Inches | Width Overall Inches | Weight Per Pair Pounds |
|--------------------|--------------------------|---------------|----------------------|------------------------|
| | | 3-1/8 | 2-5/8 | 1-5/8 |

Illustration shows one half pair.



CONTINUOUS HINGE—Figs. 211 & 212

For use on Hatch Covers, Locker Doors, Windshields, etc. Countersunk holes are two inches apart, center to center.

BRASS — FIG. 211

| No. | Chromium Plated Each | Width Open Inches | Length Inches | Thickness Inches | For Screw No. | Weight Pounds |
|-----|----------------------|-------------------|---------------|------------------|---------------|---------------|
| 2 | | 1-1/4 | 72 | .040 | 5 | 1-1/2 |
| 4 | | 1-1/2 | 72 | .040 | 5 | 2 |
| 6 | | 2 | 72 | .045 | 6 | 2-1/2 |

Standard Package, 10 Pieces. Minimum Quantity, No Broken Packages.

STAINLESS STEEL — FIG. 212

Type No. 302, 18-8, Polished

| No. | Each | Width Open Inches | Length Inches | Thickness Inches | For Screw No. | Weight Pounds |
|-----|------|-------------------|---------------|------------------|---------------|---------------|
| 2 | | 1-1/4 | 72 | .040 | 5 | 1-1/3 |
| 4 | | 1-1/2 | 72 | .040 | 6 | 2 |

Standard Package 10 Pieces. Minimum Quantity, No Broken Packages.



FLAT HATCH TRIM—Figs. 243 & 258

For finishing around edges of hatch. Drilled and countersunk off center for No. 6 flat head screws.

BRASS— FIG. 243

| No. | Chromium Plated Each | Width Inches | Length Inches | Thickness Inches | *Standard Package | Weight Pounds |
|-----|----------------------|--------------|---------------|------------------|-------------------|---------------|
| 2 | | 1-1/4 | 72 | .040 | 10 | 1 |
| 4 | | 1-1/2 | 72 | .040 | 10 | 1-1/2 |

STAINLESS STEEL — FIG. 258

Type 302 — Polished

| No. | Each | Width Inches | Length Inches | Thickness Inches | *Standard Package | Weight Pounds |
|-----|------|--------------|---------------|------------------|-------------------|---------------|
| 2 | | 1-1/4 | 72 | .040 | 10 | 1 |
| 4 | | 1-1/2 | 72 | .040 | 10 | 1-1/2 |

*Above Standard Package Is Minimum. No Broken Packages.

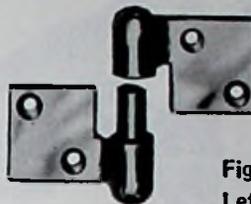


Fig. 149
Left Hand

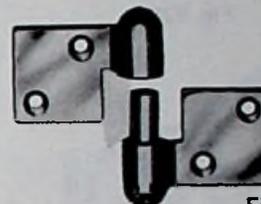


Fig. 152
Right Hand

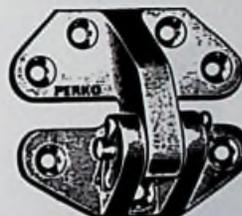


Fig. 773



Brass, Chromium Plated — Fig. 211
Stainless Steel, Polished — Fig. 212



Brass, Chromium Plated — Fig. 243
Stainless Steel, Polished — Fig. 258

NEW



Fig. 926



Fig. 926SP



Fig. 938



Fig. 925



Fig. 958

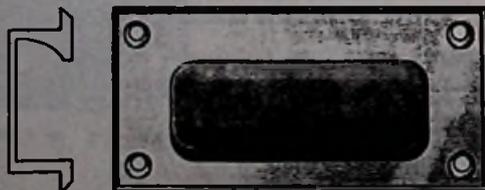


Fig. 1110

DRAWER KNOBS – Fig. 926

Die Cast Zinc Alloy – Chromium Plated
 Black or Teak Insert – Supplied With Stainless Steel 1-1/4" Screw. For Drawers up to 1-1/8" Thick.

| No. | EACH | Diameter | Standard Package | Weight Ounces Each |
|-----------|------|----------|------------------|--------------------|
| T O Teak | | 1-1/8 | 10 | 3/4 |
| B O Black | | 1-1/8 | 10 | 3/4 |
| T 1 Teak | | 1-1/2 | 10 | 1 |
| B 1 Black | | 1-1/2 | 10 | 1 |

Specify Size and Color of Insert



SKIN PACK – Fig. 926B No. O SP

Two Knobs Per Card
 Ten Cards Per Box
 Weight Per Box, 1-1/2 Pounds
 Sold To Trade In Full Box Only



NEW

DRAWER PULL AND LATCH ASSEMBLY – Fig. 938

Die Cast Zinc Alloy Chromium Plated Knob
 Black Insert in Knob – Brass Stem
 Black Plastic Adjustable Lever Arm and Stops. For Wood Thickness up to 1-1/2"

| Each | Diameter Knob | Standard Package | Weight Ounces Each |
|------|---------------|------------------|--------------------|
| | 1-1/2 | 5 | 2 |



DRAWER KNOBS—Fig. 925

Brass – Chromium Plated –
 For Drawers Up To 1-1/8" Thick

| Each | Diameter Inches | Standard Package | Weight Ounces |
|------|-----------------|------------------|---------------|
| | 1 | 10 | 1-1/2 |



DRAWER PULLS—Fig. 958

Die Cast Zinc Alloy – Chromium Plated

| Each | Width Overall Inches | Width Inside Inches | Standard Package | Weight Ounces |
|------|----------------------|---------------------|------------------|---------------|
| | 3-7/16 | 2-5/16 | 10 | 1 |



FLUSH PULLS—Fig. 1110

Die Cast Zinc Alloy – Chromium Plated – For Drawers, Sash Or Sliding Doors

| Each | Dimensions Overall Inches | Depth Inches | Standard Package | Weight Ounces |
|------|---------------------------|--------------|------------------|---------------|
| | 3-11/16x1-11/16 | 7/16 | 5 | 3 |

Inside recessed for finger grip as illustrated.

SECURITY HINGED HASPS – Fig. 998

Pressure Cast Bronze – Chromium Plated 18-8 Stainless Steel Pin

| No. | Each | Length Closed Inches | Width Inches | Weight Ounces |
|-----|------|----------------------|--------------|---------------|
| 1 | | 2 | 1 | 2 |
| 2 | | 3 | 1 | 3 |

Spare Keepers, Specify Fig. 959, Chrome. Standard Package, 10.



Fig. 998

SECURITY HINGED HASPS—Fig. 979

Wrought Brass – 14 B. & S. Gauge

| Polished Brass Each | Chromium Plated Each | Length Closed Inches | Width Inches | Standard Package | Weight Ounces |
|---------------------|----------------------|----------------------|--------------|------------------|---------------|
| | | 2-7/8 | 1 | 10 | 1-1/4 |



Fig 979

SECURITY HINGED HASPS—Fig. 1198

Die Cast Zinc Alloy – Chromium Plated

| No. | Each | Length Closed Inches | Width Inches | Standard Package | Weight Ounces |
|-----|------|----------------------|--------------|------------------|---------------|
| 1 | | 2 | 1 | 10 | 1-1/2 |
| 2 | | 3 | 1 | 10 | 2-1/4 |
| 3 | | 3-3/4 | 1 | 10 | 2-1/2 |

Spare Keepers, See Fig. 1261

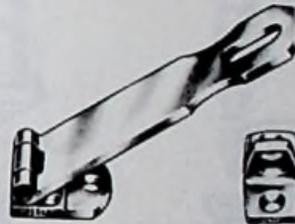


Fig. 1198

SKIN PACK – Fig. 1198-SP

Size No. 2

One Hasp Per Card.

Twelve Cards Per Box.

Weight Per Box, 2½ Pounds.

Sold To Trade In Full Box Only.



Fig. 1198-SP

HINGED LOCKING HASP—Fig. 1194

Die Cast Zinc Alloy – Chromium Plated

Padlock eye swivels to act as a latch.

| Each | Length Closed Inches | Width Inches | Standard Package | Weight Ounces |
|------|----------------------|--------------|------------------|---------------|
| | 3 | 1 | 10 | 2-1/2 |

Spare Keepers, Specify Fig. 1194-99 A.



Fig. 1194

SKIN PACK – Fig. 1194-SP

One Hasp Per Card.

Five Cards Per Box.

Weight Per Box, 1¼ Pounds.

Sold To Trade In Full Box Only.



Fig. 1194-SP



Fig. 1065



Fig. 1177

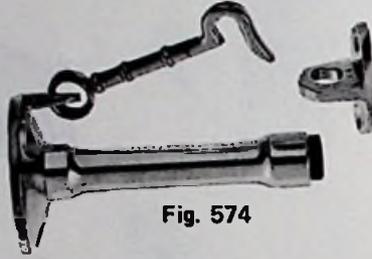


Fig. 574



Fig. 719



Fig. 975



Fig. 610



Fig. 610-SP



Fig. 1106

DOOR HOLDERS—Fig. 1065

Stainless Steel Clip — Chromium Plated Arrow

| Per Set | Base of Arrow Inches | Base of Clip Inches | Projection Inches | Standard Package | Weight Ounces |
|---------|----------------------|---------------------|-------------------|------------------|---------------|
| | 1-5/8x3/4 | 1-3/8x7/16 | 1-3/4 | 5 Sets | 2 |



DOOR STOP—Fig. 1177

Rubber Bumper with Chromium Plated Holder

| Each | Diameter Inches | Length Inches | Standard Package | Weight Ounces |
|------|-----------------|---------------|------------------|---------------|
| | 1-1/4 | 1 | 5 | 1 |



DOOR STOP AND HOLDER—Fig. 574

Pressure Cast Bronze — Chromium Plated

| No. | Each | Length Inches | Diameter Base Inches | Weight Ounces |
|-----|------|---------------|----------------------|---------------|
| 1 | | 2-3/8 | 1-3/4 | 4-1/2 |
| 2 | | 3-1/4 | 1-3/4 | 5-1/2 |

Spare Keepers, Specify Fig. 959 Chrome.



TABLE LEG FASTENERS—Fig. 719

Brass — For Fastening Table Leg To Deck

| Chromium Plated Each | Length Angle Inches | Width Angle Inches | Standard Package | Weight Ounces |
|----------------------|---------------------|--------------------|------------------|---------------|
| | 1-3/8 | 1 | 5 | 3 |

Spare Thumb Screws, Specify Fig. 719-99 A.

Spare Angle Brackets, Specify Fig. 719-99 B.



COAT AND HAT HOOK—Fig. 975

Die Cast Zinc Alloy — Chromium Plated

| No. | Each | Projection Inches | Width Base Inches | Standard Package | Weight Ounces |
|-----|------|-------------------|-------------------|------------------|---------------|
| 1 | | 2 | 1-1/8 | 10 | 1 |
| 2 | | 3 | 1-1/4 | 10 | 1-1/2 |



WARDROBE OR UTILITY HOOK—Fig. 610

Die Cast Zinc Alloy — Chromium Plated

| Each | Projection Inches | Width Base Inches | Standard Package | Weight Ounces |
|------|-------------------|-------------------|------------------|---------------|
| | 1-3/8 | 1-1/8 | 10 | 1/2 |



SKIN PACK—Fig. 610-SP

Two Hooks Per Card.

Six Cards Per Box.

Weight Per Box, 10 Ounces.

Sold To Trade In Full Box Only.



WARDROBE HOOK—Fig. 1106

Die Cast Zinc Alloy — Chromium Plated

| Each | Projection Inches | Width Base Inches | Standard Package | Weight Ounces |
|------|-------------------|-------------------|------------------|---------------|
| | 3/4 | 1 | 10 | 3/4 |

ALL BRASS "DURABLE TYPE" FASTENERS

Nickel Plated

Stud Fig. 900 has brass 3/8" No. 7 wood screw.
 Stud Fig. 906 has steel 3/8" No. 7 self-tapping screw.
 For canvas to wood, use Figs. 896, 898 and 900.
 For canvas to canvas, use Figs. 896, 898, 901 and 907.

| Fig. | Per 100 |
|------|---------|
| 896 | |
| 898 | |
| 900 | |
| 901 | |
| 906 | |
| 907 | |

Standard Package, 100 Pieces, Minimum, No Broken Packages.



Button
Fig. 896



Eyelet
Fig. 907



STUD
For Canvas
Fig. 901



Socket
Fig. 898



STUD
With Wood Screw
Fig. 900



STUD
With Tapping Screw
Fig. 906

★

"LIFT TYPE" ALL BRASS FASTENERS

Nickel Plated

Stud Figs. 114 & 115 have brass 3/8 inch No. 8 wood screw.
 Stud Fig. 90 has steel 3/8 inch No. 8 self tapping screw.
 Single Studs are used with one Fig. 116 and one Fig. 118.
 Double Studs are used with two Fig. 118.

| Fig. | Per 100 |
|------|---------|
| 60 | |
| 62 | |
| 90 | |
| 114 | |
| 115 | |
| 116 | |
| 118 | |

Standard Package, 100 Pieces, Minimum, No Broken Packages.



STUD
With Wood Screw
Single Fig. 114
Double Fig. 115



STUD
With Tapping Screw
Single Fig. 90



Clinch Stud
Single Fig. 60



Clinch Washer
Fig. 62



SOCKET
Single Fig. 116



Clinch
Plate
Fig. 118

★

ALL BRASS CURTAIN FASTENERS

Nickel Plated

| Fig. | Per 100 |
|------|---------|
| 994 | |
| 996 | |
| 997 | |

Standard Package, 100 Pieces, Minimum, No Broken Packages.



Flanged Stud
Single Fig. 994



Eyelet
Fig. 996



Washer
Fig. 997



Fig. 1249

LASHING HOOK—Fig. 1249

For Boat Covers — Die Cast Zinc Alloy — Chromium Plated

| Chromium Plated Each | Length Overall Inches | Width Overall Inches | Inside Hook Inches | For Screw No. | Standard Package | Weight Ounces |
|----------------------|-----------------------|----------------------|--------------------|---------------|------------------|---------------|
| | 15/16 | 1/2 | 1/4 | 6 | 50 | 1/2 |



SKIN PACK — Fig. 1249-SP

Six Hooks Per Card.

Ten Cards Per Box.

Weight Per Box, 2 1/4 Pounds.

Sold To Trade In Full Box Only.



Fig. 1249-SP

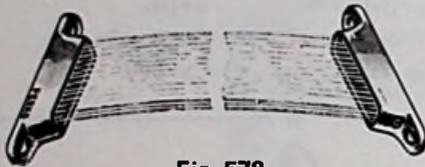


Fig. 578

BOAT COVER SOCKETS—Fig. 578

Die Cast Zinc Alloy — Chromium Plated

Sockets will accommodate a piece of wood lattice 3/8 inches thick and up to 1-3/4 inches wide.

| Per Pair | Length Overall Inches | Size Opening Inches | Width Overall Inches | For Screw No. | Weight Per Pair Ounces |
|----------|-----------------------|---------------------|----------------------|---------------|------------------------|
| | 3-1/4 | 1-7/8x7/16 | 5/8 | 8 | 2 |

Standard Package, 10 Pairs.



SKIN PACK — Fig. 578-SP

One Pair Per Card.

Twelve Cards Per Box.

Weight Per Box, 3 Pounds.

Sold To Trade In Full Box Only.



Fig. 578-SP



CONVERTIBLE TOP FITTINGS—Fig. 395

Die Cast Zinc Alloy — Chromium Plated

For 3/4 and 7/8 Inch Tubing

| No. | Each | Item |
|-----|------|---|
| 1 | | Hinge for 3/4 inch fittings |
| 3 | | Socket for 3/4 inch tubing |
| 5 | | Eye End for 3/4 inch tubing with .049" Wall |
| 6 | | Slide for 3/4 inch tubing |
| 8 | | Side Mounting Plate |
| 9 | | Eye End for 7/8 inch tubing |
| 10 | | Slide for 7/8 inch tubing |
| 11 | | Hinge for 7/8 inch fittings |

Standard Package 10 pieces.

Average Weight — 2 ounces each.



SKIN PACK — Fig. 395-SP

Part Nos. 1—3—6 Only

Two Fittings Per Card.

Six Cards Per Box.

Weight Per Box, 1 1/4 Pounds.

Sold To Trade In Full Box Only.

Fig. 395-SP



Hinge Nos. 1-11



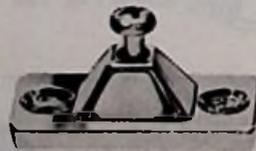
Eye End Nos. 5-9



Socket No. 3



Slide Nos. 6-10



Side Plate No. 8

Fig. 395



No. 1



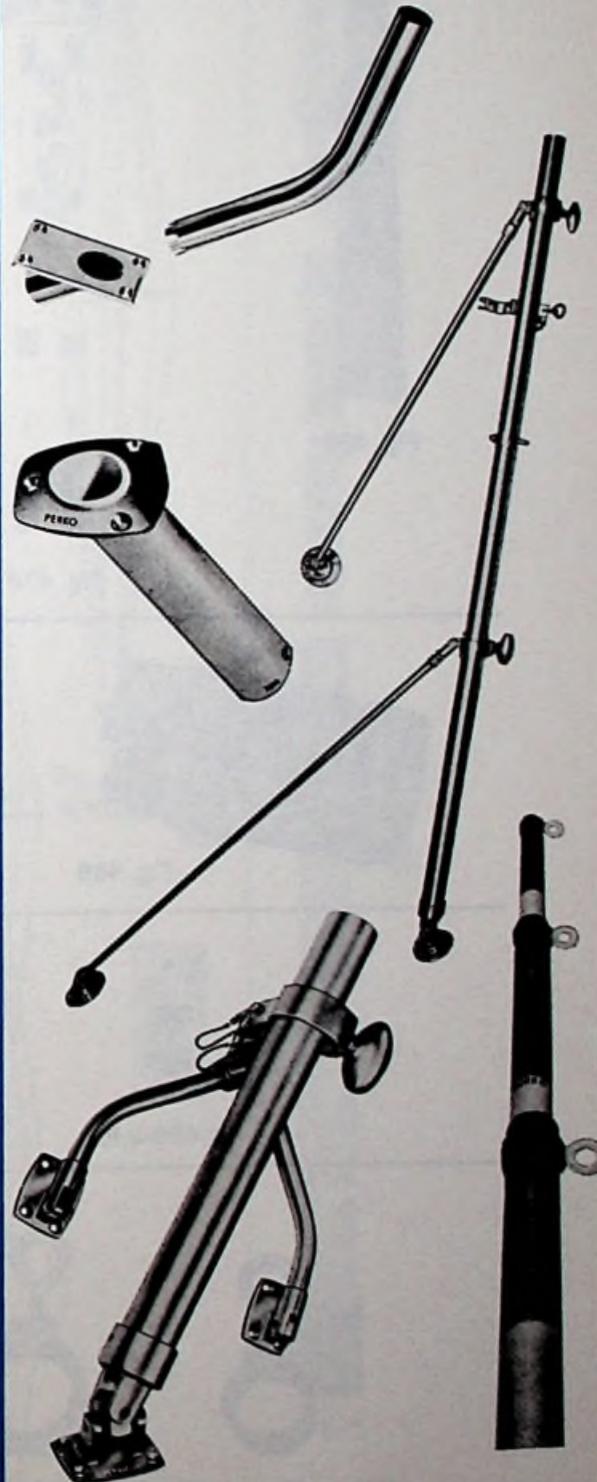
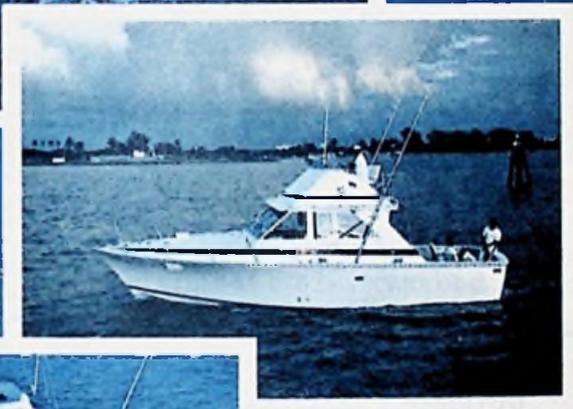
No. 3



No. 6

PERKO®

FISHING EQUIPMENT



MANUFACTURED BY PERKO, INC. 16490 N.W. 13TH AVE., P.O. BOX 64000-D, MIAMI, FLORIDA 33164
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Fig. 460



Fig. 476

TELESCOPIC FIBERGLASS OUTRIGGERS—Fig. 460
Hollow — Tapered — With Reinforced Joints

This sturdy model is impervious to heat, cold, moisture and sun. Base and tip are equipped with plugs.

| No. | Diameter Base Inches | Overall Length Open Feet | Overall Length Closed Inches | Number of Sections | Weight Pounds |
|-----|----------------------|--------------------------|------------------------------|--------------------|---------------|
| 15 | 1.125 | 15 | 66 | 3 | 2½ |

Will Fit Holders, Figs. 444, 451 or 1314, Size No. 1.

Supplied complete with Fig. 468 Guides, 2 each, Sizes 1,3,4.

SPARE SECTIONS SPECIFY

Top — 99A 2nd — 99B
 Bottom — 99C

FIBERGLASS OUTRIGGER KITS—Fig. 476

Consists of 1 pair Fig. 460 No. 15 Poles, 2 Fig. 469 Clips and Fig. 468 Guides.

SOLD TO TRADE IN LOTS OF 3 KITS ONLY.



Fig. 469

OUTRIGGER TROLLING PIN OR CLIP—Fig. 469

High Impact Black Plastic — Stainless Steel Eyes and Spring — All Salt Water Resistant

| Dimensions Inches | Standard Package | Weight Ounces |
|-------------------|------------------|---------------|
| 2¾ x 1-3/8 | 10 | 1½ |



Fig.469-S.P.

SKIN PACK —Fig.469-S.P.

1 Pair per Card
 Six Cards per Box
 Weight per Box 3 Pounds

SOLD TO TRADE IN FULL BOX ONLY.



Fig. 468

OUTRIGGER POLE LINE GUIDES—Fig. 468

18-8 Stainless Steel Eye for Durability — Black Plastic Body Ultra-Violet Stabilized for Longer Life

| No. | I.D. Ring Inches | I.D. Guide Inches | Weight Ounces |
|-----|------------------|-------------------|---------------|
| 1 | 9/16 | 3/8 | ¼ |
| 2 | 5/8 | 3/8 | ¼ |
| 3 | ¾ | 3/8 | ¼ |
| 4 | 1 | 3/8 | ¼ |
| 5 | 1-3/16 | 3/8 | ½ |
| 6 | 1½ | 3/8 | ½ |

Standard Package, 6 Pieces.

OUTRIGGER POLES

FIG. 1098
ANODIZED ALUMINUM
4 FOOT SECTIONS

Easily assembled to length desired. Joints are friction fitted and threaded.

Outriggers for rough water and large game fish should be stiff and strong enough to do the job required. These poles will meet that need.

The Guides are plastic and the base of the pole is sleeved with plastic to insulate against corrosion.

| No. | "A" Length Assembled Feet | "B" Diameter Base Inches | "C" Quantity Sections | "D" Quantity Guides | Weight Per Pair Pounds |
|-----|------------------------------------|-----------------------------------|-----------------------------|---------------------------|------------------------------|
| 11 | 11'4" | 1.100 | 3 | 2 | 4½ |
| 15 | 15' | 1.100 | 4 | 2 | 6 |
| 16 | 15' | 1.500 | 4 | 2 | 9 |
| 18 | 18'8" | 1.500 | 5 | 3 | 14 |
| 19 | 18'8" | 1.900 | 5 | 3 | 14½ |
| 22 | 22'3" | 1.900 | 6 | 3 | 20 |
| 25 | 25'6" | 1.900 | 7 | 3 | 27½ |

FOR ½ PAIR, SPECIFY FIG. 1098—99A AND SIZE.



Fig. 1114
SINGLE



Fig. 1115
DOUBLE

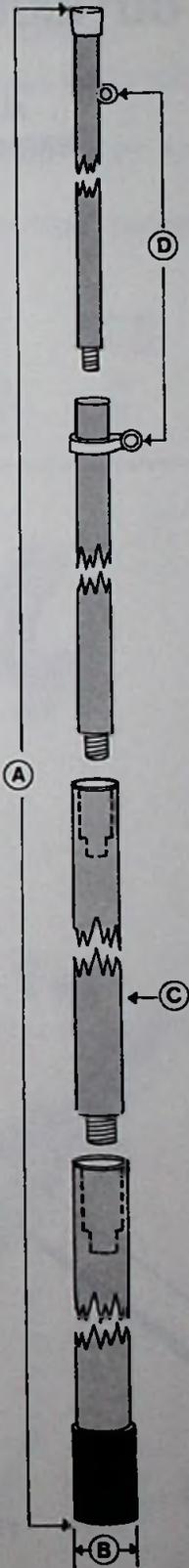


Fig. 1098

SPREADERS

FIGS. 1114 & 1115

When extra strength and stiffness is required, spreaders are the answer.

Supplied in packaged kits consisting of spreaders, stainless steel cable, eye bands and turnbuckles.

Fig. 1114 No. 18 Single, for Fig. 1098 Nos. 18 and 19 Poles

Fig. 1114 No. 22 Single, for Fig. 1098 No. 22 Poles

Fig. 1114 No. 25 Single, for Fig. 1098 No. 25 Poles

Fig. 1115 No. 22 Double, for Fig. 1098 No. 22 Poles

Fig. 1115 No. 25 Double, for Fig. 1098 No. 25 Poles

**"GAMEFISHER"
OUTRIGGER POLE HOLDERS**

**CHROMIUM PLATED
ALL NON-CORROSIVE BRONZE,
BRASS AND STAINLESS STEEL PARTS.**

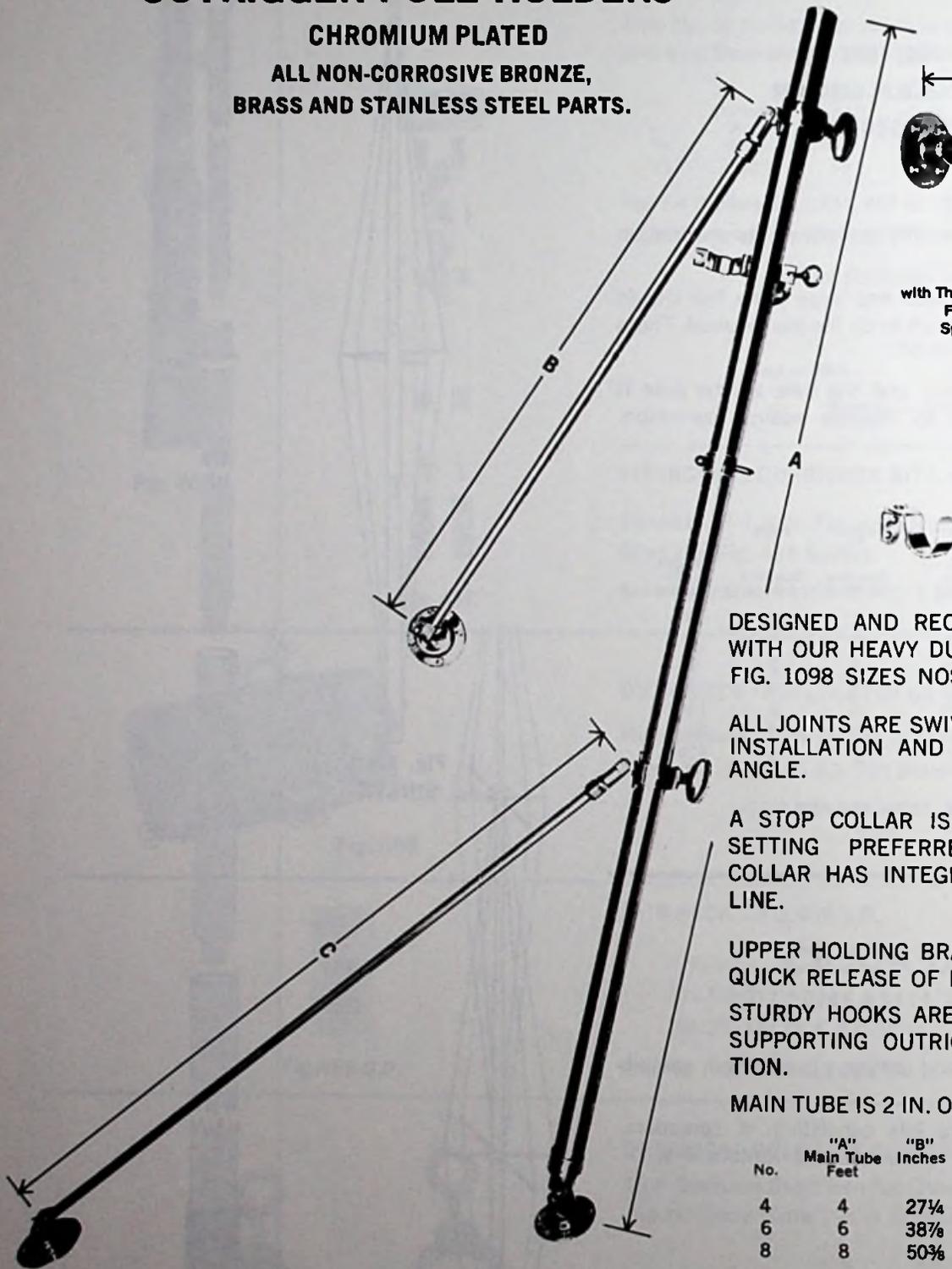


Fig. 400

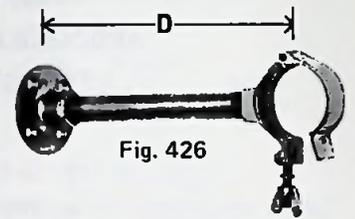


Fig. 426

**If Desired Complete
with The Above Special Side Bracket
For Fly-Bridge Mounting.
Specify Fig. 425 and Size.**

DESIGNED AND RECOMMENDED FOR USE WITH OUR HEAVY DUTY OUTRIGGER POLES FIG. 1098 SIZES NOS. 19, 22 AND 25.

ALL JOINTS ARE SWIVEL TYPE FOR EASE OF INSTALLATION AND SETTING AT DESIRED ANGLE.

A STOP COLLAR IS INCLUDED FOR PRE-SETTING PREFERRED FISHING ANGLE, COLLAR HAS INTEGRAL EYE FOR LIFTING LINE.

UPPER HOLDING BRACKET IS HINGED FOR QUICK RELEASE OF MAIN TUBE.

STURDY HOOKS ARE ALSO INCLUDED FOR SUPPORTING OUTRIGGER IN DOWN POSITION.

MAIN TUBE IS 2 IN. O.D., 1.900 IN. I.D.

| No. | "A" Main Tube Feet | "B" Inches | "C" Inches | O.D. Flanges Inches | Weight Per Pair Pounds |
|-----|--------------------------|------------------|------------------|---------------------------|------------------------------|
| 4 | 4 | 27 $\frac{1}{4}$ | 41 $\frac{1}{8}$ | 4 | 59 |
| 6 | 6 | 38 $\frac{7}{8}$ | 50 $\frac{3}{8}$ | 4 | 70 |
| 8 | 8 | 50 $\frac{3}{8}$ | 74 $\frac{1}{2}$ | 4 | 90 |

**Fig. 426—"D"—ADJUSTABLE FROM 8-3/4" TO 9-1/2"
SPARE HOLDING BRACKETS, SPECIFY FIG. 408
SPARE STOP COLLARS, SPECIFY FIG. 409
SPARE LAY DOWN HOOKS, SPECIFY FIG. 410 NO. 2
SPARE SPECIAL SIDE BRACKETS ONLY FOR
SPECIAL FLY-BRIDGE MOUNTING BRACKET, SPECIFY FIG. 426**

OUTRIGGER POLE HOLDERS

CHROMIUM PLATED

STAINLESS STEEL MAIN TUBE — BRASS YOKE TUBING — CAST BRONZE FITTINGS

THE SLIDING CLAMP WITH LARGE HAND GRIP PROVIDES READY ADJUSTMENT FOR ALL PRACTICAL UP AND DOWN POSITIONS.

TO RELEASE THE POLE HOLDER TO A DOWN AND AFT POSITION A STAINLESS STEEL DRIFT PIN IS PROVIDED IN THE SLIDING CLAMP.

MOUNTING YOKES MAY BE INSTALLED IN AN INVERTED POSITION RATHER THAN THAT SHOWN TO ACCOMMODATE THE VARIATIONS SUCH AN INSTALLATION MIGHT ENTAIL.

| No. | Fig. 445 Per Pair | Fig. 470 Per Pair | "A" Inches | "B" Inches | O. D. Main Tube Inches | I. D. Main Tube Inches | Weight Per Pair Pounds |
|-----|----------------------|----------------------|---------------|------------------|---------------------------------|---------------------------------|------------------------------|
| 1 | | | 20 | 11 $\frac{3}{4}$ | 1 $\frac{5}{8}$ | 1.500 | 22 |
| 2 | | | 20 | 11 $\frac{3}{4}$ | 2 | 1.900 | 24 |
| 3 | | | 35 | 24 | 2 | 1.900 | 33 |

SAILFISH — Fig. 445

Has Swinging (Non-Swivel) Rectangular Mounting base.

Nos. 1 and 2 have clamp on one Mounting Bracket to hold Outrigger in vertical position.

No. 3 has Hinged Holding Bracket as supplied with Fig. 400. Also Stop Collar.

All sizes have Folding Lay-Down Hook.

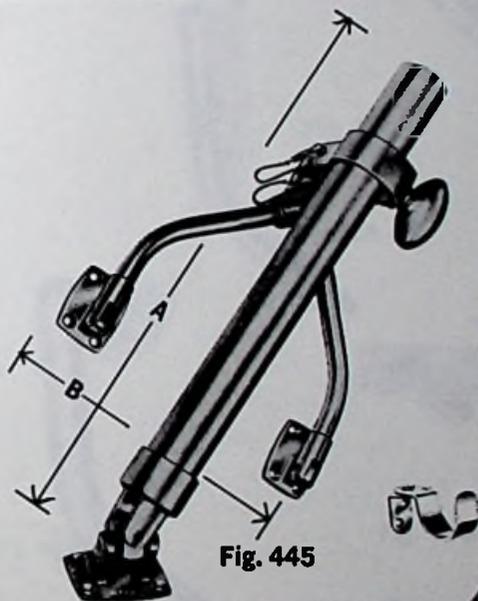


Fig. 445

MARLIN — Fig. 470

Has Extra Heavy Swivel Mounting Base which enables the Holder to be mounted on a horizontal deck or a vertical surface such as Cabin Side, Bridge, etc.

Nos. 1 and 2 have clamp on one Mounting Bracket to hold Outrigger in vertical position.

No. 3 has Hinged Holding Bracket as supplied with Fig. 400.

All sizes have Stop Collar and Folding Lay-Down Hook.



Fig. 470

SPARE PARTS

Spare Lay Down Hooks, Specify Fig. 410 and Size No.

Spare Stop Collars, Specify Fig. 415 and Size No.

Spare Hinged Holding Brackets, Specify Fig. 408.

SIZE NO. 1 WILL FIT OUTRIGGER POLES FIG. 1098 NOS. 16 and 18.

SIZE NO. 2 WILL FIT OUTRIGGER POLES FIG. 1098 NO. 19.

SIZE NO. 3 WILL FIT OUTRIGGER POLES FIG. 1098 NOS. 19, 22, 25.

OUTRIGGER POLE HOLDERS
SIDE OR DECK MOUNT TYPE

Requires very little mounting space — Tubes remove for uncluttered decks.
Lift Tube and turn for 3 positions — Vertical, fishing, and lowered for bridges.

Tubes are Universal — May Be Used on Either Side
 Supplied in Pairs. A Pair consists of 2 Plates and 2 Tubes.



Fig. 444



Fig. 451



Fig. 1314



SIDE MOUNT—Fig. 444

BRONZE, CHROMIUM PLATED BRACKETS

NO. 1 TUBES — POLISHED STAINLESS STEEL

NO. 2 TUBES — CHROMIUM PLATED BRASS

| No. | Outside Diameter Tube Inches | Inside Diameter Tube Inches | Dimensions Bracket Inches | Weight Per Pair Pounds |
|-----|------------------------------|-----------------------------|---------------------------|------------------------|
| 1 | 1¼ | 1.120 | 4½ x 3 | 2¾ |
| 2 | 1½ | 1.500 | 6½ x 4 | 7 |

SPARE BRACKETS — SPECIFY FIG 478 AND SIZE NO.
 SPARE TUBES — SPECIFY FIG. 479 AND SIZE NO.

DECK MOUNT—Fig. 451

BRONZE, CHROMIUM PLATED PLATES

NO. 1 TUBES — POLISHED STAINLESS STEEL

NO. 2 TUBES — CHROMIUM PLATED BRASS

| No. | Outside Diameter Tube Inches | Inside Diameter Tube Inches | Dimensions Plate Inches | Weight Per Pair Pounds |
|-----|------------------------------|-----------------------------|-------------------------|------------------------|
| 1 | 1¼ | 1.120 | 5 x 2½ | 4½ |
| 2 | 1½ | 1.500 | 6 x 3½ | 12 |

SPARE PLATES — SPECIFY FIG. 474 AND SIZE NO.
 SPARE TUBES — SPECIFY FIG. 479 AND SIZE NO.

DECK MOUNT—Fig. 1314

CHROMIUM PLATED PLATES
 POLISHED STAINLESS STEEL TUBES

For Outrigger Poles, Fig. 460 No. 15

| No. | Outside Diameter Tube Inches | Inside Diameter Tube Inches | Dimensions Plate Inches | Weight Per Pair Pounds |
|-----|------------------------------|-----------------------------|-------------------------|------------------------|
| 1 | 1¼ | 1.120 | 5 x 2½ | 2¾ |

SPARE PLATES — SPECIFY FIG. 1320

SPARE TUBES — SPECIFY FIG. 1321

NOTE: NOT DESIGNED FOR USE WITH ALUMINUM POLES,
 i.e. Fig. 1098

SIZE NO. 1 WILL FIT OUTRIGGER POLES FIGS. 460 NO. 15 AND 1098 NOS. 11 AND 15.

SIZE NO. 2 WILL FIT OUTRIGGER POLES FIG. 1098 NOS. 16 AND 18.



FIGS. 444, 451 and 1314 Size No. 1 Available in Display Pack, See Section L.

CLAMP-ON FISHING ROD HOLDER — Fig. 1118

CHROMIUM-PLATED

Clamp-On feature eliminates drilling rail — simplifies removal or relocation — mounts on vertical or horizontal rails.

The holder is brass tubing, 2 inches outside diameter, 9 inches long. Inside diameter is 1-5/8 inches. The bracket is pressure cast bronze, adjustable for rails 3/4 to 1 inch diameter.

Packed one per box, weight 2 pounds.

THIS ITEM AVAILABLE IN DISPLAY PACK, SEE SECTION L. 



Fig. 1118

FISHING ROD HOLDERS—Fig. 449

Heavy Brass Tubing — Manganese Bronze Castings
Chromium Plated — With Soft Black Vinyl Liner

Designed for vertical mounting, this holder is easily removed when not in use, leaving no projecting hardware.

| Inside Diameter Liner Inches | Outside Diameter Tube Inches | Dimensions Mounting Bracket Inches | Weight Complete Pounds |
|------------------------------|------------------------------|------------------------------------|------------------------|
| 1-5/8 | 2 | 4 x 3 3/4 | 2 1/4 |

Spare Holders, Specify Fig. 449—99A

Spare Brackets, Specify Fig. 449—99B



Fig. 449

FISHING ROD HOLDERS — Fig. 1104

Black Plastic — With Chromium Plated Brass Brackets

| Length Overall Inches | Inside Diameter Inches | Outside Diameter Inches | Width Bracket Inches | Weight Ounces |
|-----------------------|------------------------|-------------------------|----------------------|---------------|
| 9 | 1 3/4 | 2 | 3 3/4 | 8 |

Spare Brackets, Specify Fig. 1107

THIS ITEM AVAILABLE IN DISPLAY PACK, SEE SECTION L. 



Fig. 1104

ADJUSTABLE FISHING ROD HOLDERS — Fig. 475

Plain or Chromium Plated — Soft Black Vinyl Liner

Heavy Brass Tubing — Manganese Bronze Castings

May be adjusted quickly to any desired angle or position vertically or horizontally. Locked by large thumb bolt illustrated.

| Inside Diameter Liner Inches | Outside Diameter Tube Inches | Length Tube Inches | Dimensions Base Inches | Weight Pounds |
|------------------------------|------------------------------|--------------------|------------------------|---------------|
| 1-5/8 | 2 | 9 1/2 | 3 3/8 x 2 1/4 | 3 3/4 |

Spare Tube with Quadrant, Specify Fig. 475—99A

Spare Adjusting Saddle for Quadrant, Specify Fig. 475—99B

Spare Eye Bolts with Washer, Specify Fig. 475—99C

Specify Finish on Spares, Plain or Chrome

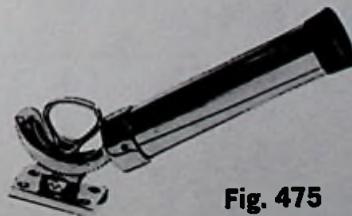


Fig. 475

SOFT BLACK VINYL LINERS FOR ROD HOLDERS

| Fig. | Size No. | Inside Diameter Inches | Weight Ounces | For Rod Holders |
|------|----------|------------------------|---------------|-----------------------------|
| 482 | 1 | 1-5/8 | 1 | 448 No. 1-452-1205 |
| 482 | 2 | 1-7/8 | 1 | 448 No. 2 |
| 483 | 1 | 1-5/8 | 1/2 | 404 No. 1-449-475-1100-1118 |
| 483 | 2 | 1-7/8 | 1 | 404 No. 2 |



Fig. 482



Fig. 483



Fig. 1205

FISHING ROD HOLDER—Fig. 1205

Chromium Plated Flange — Anodized Aluminum Tube
Soft Black Vinyl Liner

| | Inside Diameter Liner Inches | Outside Diameter Tube Inches | Length Under Flange Inches | Dimensions Flange Inches | Weight Pounds |
|--|------------------------------|------------------------------|----------------------------|--------------------------|---------------|
| | 1-5/8 | 2 | 8 | 4-1/4x3-1/2 | 1 |



Fig. 448

BRONZE FISHING ROD HOLDERS—Fig. 448

Chromium Plated Flange — Brass Tube
Soft Black Vinyl Liner

| No. | Inside Diameter Liner Inches | Outside Diameter Tube Inches | Length Under Flange Inches | Dimensions Flange Inches | Weight Pounds |
|-----|------------------------------|------------------------------|----------------------------|--------------------------|---------------|
| 1 | 1-5/8 | 2 | 8 | 4-1/4x3-1/2 | 1-1/4 |
| 2 | 1-7/8 | 2-1/4 | 12 | 4-7/8x4 | 2 |



Fig. 452

FISHING ROD HOLDERS—Fig. 452

18-8 — Polished Stainless Steel
Soft Black Vinyl Liner — Heavy Under Flange Gasket

| | Inside Diameter Liner Inches | Outside Diameter Tube Inches | Length Under Flange Inches | Dimensions Flange Inches | Weight Pounds |
|--|------------------------------|------------------------------|----------------------------|--------------------------|---------------|
| | 1-5/8 | 2 | 8-1/4 | 4-1/8x3-3/8 | 7/8 |

Spare Gaskets, Specify Fig. 452-99A.

For Caps to Enclose Bottoms for Above Items Specify Fig. 125.

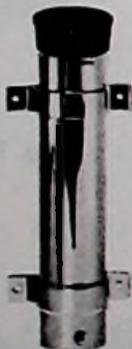


Fig. 1100

FISHING ROD HOLDERS—Fig. 1100

All Brass — Chromium Plated — With Soft Black Vinyl Liner

| | Inside Diameter Liner Inches | Outside Diameter Tube Inches | Length Overall Inches | Width Bracket Inches | Weight Oz. |
|--|------------------------------|------------------------------|-----------------------|----------------------|------------|
| | 1-5/8 | 2 | 9 | 3 | 16 |

Spare Brackets, Specify Fig. 1107



The Above Items Available in Display Packs See Section L.



Fig. 404

HEAVY DUTY FISHING ROD HOLDER—Fig. 404

Chromium Plated — With Soft Black Vinyl Liner
The holder is heavy gauge brass tubing.
The side mounting brackets are cast bronze.

| No. | Inside Diameter Liner Inches | Outside Diameter Tube Inches | Length Inches | Width Bracket Inches | Weight Pounds |
|-----|------------------------------|------------------------------|---------------|----------------------|---------------|
| 1 | 1-5/8 | 2 | 9 | 4-3/16 | 1-5/8 |
| 2 | 1-7/8 | 2-1/4 | 11 | 4-3/4 | 2-1/2 |

Spare Brackets, Specify Fig. 404—99A and Size

PERKO®

SECTION

L



PerkoPak Skin Pack • Display Pack

MANUFACTURED BY PERKO, INC. 16490 N.W. 13TH AVE., P.O. BOX 64000-D. MIAMI, FLORIDA 33164
FOR COMPLETE LINE SEE CATALOG NO. 240

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Fig. 1510-SP

CERTIFIED



"CHROMALEX" III® COMBINATION BOW LIGHT – Fig. 1510-SP
 20 Points – 225 Degrees – 1 Mile Visibility
 Die Cast Zinc Alloy – Chromium Plated – Red and Green Fresnel Lenses.
 Black Plastic Base – Molded Teak Plastic Insert – 12 Volt Lamp
 Supplied With Light.

| Height Inches | Size Base | Screw No. |
|------------------|--------------|--------------|
| 1-7/8 | 4x3-1/8 | 8 |

One Light Per Card.
Six Cards Per Box.
Weight Per Box, 2½ Pounds.



Fig. 1310 SP

CERTIFIED



"CHROMALEX"® COMBINATION BOW LIGHT – Fig. 1310-SP
 20 Points – 225 Degrees – 1 Mile Visibility
 Die Cast Zinc Alloy – Chromium Plated – Black Plastic Base
 – Red and Green Fresnel Lenses.

12 Volt Lamp Supplied With Light.

| Height Inches | Size Base Inches |
|------------------|------------------------|
| 1-3/4 | 4x3-1/8 |

One Light Per Card.
Six Cards Per Box.
Weight Per Box, 2½ Pounds.



Fig. 1218 SP

CERTIFIED



"RANGER" COMBINATION BOW LIGHT – Fig. 1218-SP
 20 Points – 225 Degrees – 1 Mile Visibility
 Die Cast Zinc Alloy – Chromium Plated – Red and Green
 Fresnel Lenses – 12 Volt Lamp Supplied With Light.

| Height Inches | Size Base Inches | Height Lens Inches | Staff Socket Inches |
|------------------|------------------------|--------------------------|---------------------------|
| 3-1/2 | 6-1/4x3-7/8 | 2-1/2 | 3/4 |

One Light Per Card.
Three Cards Per Box.
Weight Per Box, 4 Pounds.



Fig. 972 SP

CERTIFIED



"CHROMALEX"® COMBINATION BOW LIGHT – Fig. 972-SP
 20 Points – 225 Degrees – 1 Mile Visibility
 Brass – Chromium Plated – Black Plastic Base.
 Red and Green Lenses – 12 Volt Lamp Supplied With Light.

| Height of Light Inches | Diameter Base Inches |
|------------------------------|----------------------------|
| 1-5/8 | 2-3/8 |

One Light Per Card.
Four Cards Per Box.
Weight Per Box, 1 Pound.

Sold To Trade in Full Box Only

**"CHROMALEX"[®] INTERNATIONAL NAVIGATION LIGHTS
BRASS — CHROMIUM PLATED BLACK PLASTIC BASE
WITH STAINLESS STEEL SELF TAPPING SCREWS FOR MOUNTING**

SIDE LIGHTS — Fig. 955-SP

10 Points — 112½ Degrees — 1 Mile Visibility.
12 Volt Lamp Supplied with Lights.
Red and Green High Intensity Fresnel Lenses.

| Length Inches | Width Inches | Depth Inches |
|------------------|-----------------|-----------------|
| 4-1/4 | 2-3/8 | 1-3/4 |

One Pair Per Card.
Four Cards Per Box.
Weight Per Box, 2 Pounds.



Fig. 955-SP

CERTIFIED

BOW OR MASTHEAD LIGHT — Fig. 964-SP

20 Points — 225 Degrees — Clear Lens.
2 Mile Visibility.
12 Volt Lamp Supplied with Light.

| Height of Light Inches | Diameter Base Inches |
|------------------------------|----------------------------|
| 1-5/8 | 2-3/8 |

One Light Per Card.
Four Cards Per Box.
Weight Per Box, 1 Pound.

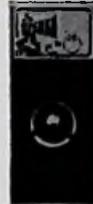


Fig. 964-SP

CERTIFIED

TRANSOM STERN LIGHT — Fig. 945-SP

12 Points — 135 Degrees — Clear Lens.
2 Mile Visibility.
12 Volt Lamp Supplied With Light.

| Height of Light Inches | Diameter Base Inches |
|------------------------------|----------------------------|
| 1-5/8 | 2-3/8 |

One Light Per Card.
Four Cards Per Box.
Weight Per Box, 1 Pound.



Fig. 945-SP

CERTIFIED

STERN LIGHT — Fig. 965-SP

12 Points - 135 Degrees — Clear Lens.
2 Mile Visibility.
12 Volt Lamp Supplied With Light.

| Height of Light Inches | Diameter Base Inches |
|------------------------------|----------------------------|
| 1-5/8 | 2-3/8 |

One Light Per Card.
Four Cards Per Box.
Weight Per Box, 1 Pound.



Fig. 965-SP

CERTIFIED



Fig. 217-SP

BULKHEAD FIXTURE – Fig. 217-SP
Die Cast Zinc Alloy – Chromium Plated.
Medium Screw Socket – Turn Switch.

| Size Base Inches | Projection Less Lamp Inches |
|------------------------|-----------------------------------|
| 2-1/2 x 1-3/4 | 2-5/8 |

One Fixture Per Card.
Six Cards Per Box.
Weight Per Box, 4 Pounds.



Fig. 300-SP

DOMELIGHTS – Fig. 300-SP
Die Cast Zinc Alloy – Chromium Plated.
Double Contact Socket – Push Switch.

| Diameter Glass Inches | Diameter Overall Inches | Depth Overall Inches |
|-----------------------------|-------------------------------|----------------------------|
| 4 | 5-3/8 | 1-7/8 |

One Light Per Card.
Three Cards Per Box.
Weight Per Box, 2 1/4 Pounds.



Fig. 140-SP

UTILITY LIGHT – Fig. 140-SP
White Nylon – With 12 Volt Lamp.
For instruments, charts or general fair illumination.

| Size Inches |
|----------------|
| 1-3/8 x 5/8 |

One Light Per Card.
Ten Cards Per Box.
Weight Per Box, 1/2 Pound.



Fig. 56-SP

MINIATURE BAYONET BASE LAMP – Fig. 56-SP

CLEAR – No. 4
12 VOLT 8 C.P. DIAMETER 18/32 INCHES

Two Lamps Per Card.
Twelve Cards Per Box.
Weight Per Box, 1/2 Pound.



Fig. 70-SP



CARTRIDGE TYPE BASE LAMP – Fig. 70-SP

CLEAR – No. 1
12 VOLT 12 C.P. DIAMETER 9/16 INCHES

Two Lamps Per Card.
Twelve Cards Per Box.
Weight Per Box, 1/2 Pound.



Fig. 71-SP

CARTRIDGE TYPE BASE LAMP – Fig. 71-SP
CLEAR – 12 VOLT 8 C.P. DIAMETER 3/8 INCHES

Two Lamps Per Card.
Twelve Cards Per Box.
Weight Per Box, 1/2 Pound.



IGNITION STARTER SWITCH — Fig. 310-SP

All Brass — Face Plate Chromium Plated —
Lock Type — 3 Terminal — 2 Keys —
3 Position Switch — OFF — IGNITION — START
20 Amps. at 12 Volts.

| Diameter Neck Inches | Length Neck Inches |
|----------------------|--------------------|
| 13/16 | 1-1/16 |

One Switch Per Card.
Six Cards Per Box.
Weight Per Box, 3 Pounds. ★

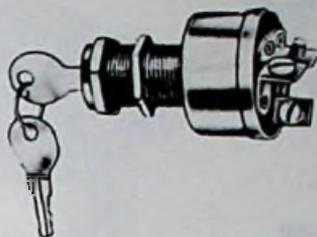


Fig. 310-SP

3 - POSITION PUSH — PULL SWITCH — Fig. 366-SP

All Brass — Chrome Plated Knob — 2 Circuit -
OFF-ON-ON — 25 Amps. at 12 Volts
For use with combination bow and anchor lights. First position is off; second position for side, stern and bow lights; third position is for anchor light... illuminates both compartments of bow-anchor light.

| Diameter Neck Inches | Diameter Knob Inches | For Wood Thickness Inches | Length Overall Inches |
|----------------------|----------------------|---------------------------|-----------------------|
| 3/8 | 3/4 | 1 | 3-3/4 |

One Switch Per Card.
6 Cards Per Box.
Weight Per Box, 2 Pounds. ★

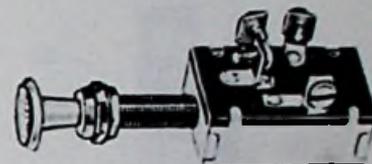


Fig. 366-SP

3 - POSITION PUSH-PULL SWITCH — Fig. 381-SP

All Brass — 3 Terminal — Chromium Plated Knob
3 Position Switch — OFF-ON-ON — 25 Amps. at 12 Volts
First "on" position energizes one circuit. Second "on" position energizes all circuits.

| Diameter Neck Inches | Diameter Knob Inches | For Wood Thickness Inches | Length Overall Inches |
|----------------------|----------------------|---------------------------|-----------------------|
| 3/8 | 3/4 | 1 | 3-3/4 |

One Switch Per Card.
6 Cards Per Box.
Weight Per Box, 2 Pounds. ★

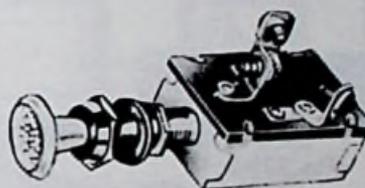


Fig. 381-SP

PUSH AND PULL SWITCHES — Fig. 105-SP

25 Amps. at 12 Volts
Chromium Plated Knob — Brass Housing.

| No. | Diam. Neck Inches | Diam. Knob Inches | For Wood Thickness Inches | Length Overall Inches |
|-----|-------------------|-------------------|---------------------------|-----------------------|
| 1 | 3/8 | 3/4 | 1 | 3 |

One Switch Per Card.
Twelve Cards Per Box.
Weight Per Box, 3 Pounds. ★

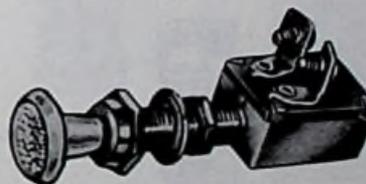
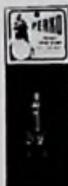


Fig. 105-SP

MOMENTARY STARTER SWITCH OR DASHBOARD HORN BUTTON — Fig. 255-SP

All Brass — Push Button Type — 2 Point, 2 Terminal
Spring Action — Chromium Plated Button — 25 Amp.

| No. | Diameter Neck Inches | For Wood Thickness Inches |
|-----|----------------------|---------------------------|
| 1 | 5/8 | 1 |

One Switch Per Card.
Six Cards Per Box.
Weight Per Box, 3 Pounds. ★



Fig. 255-SP

IGNITION LOCK SWITCH — Fig. 316-SP

Face Plate Chromium Plated — 2 Terminal — 2 Keys — 20 Amp.

| No. | Diameter Neck Inches | Length Neck Inches |
|-----|----------------------|--------------------|
| 1 | 3/4 | 3/4 |

One Switch Per Card.
Six Cards Per Box.
Weight Per Box, 2 Pounds.



Fig. 316-SP

Above Switches are not Ignition Protected — See Page CD13 for Details.
Sold To Trade In Full Box Only.



Fig. 703-SP



Fig. 786-SP



Fig. 720-2

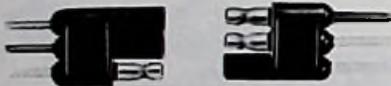


Fig. 720-3



Fig. 720-SP



Fig. 1190-SP



Fig. 1191-SP

PUSH TYPE SWITCH – Fig. 703-SP

Non Magnetic – With 6 Inch Wire Leads

| Length Neck Inches | Diameter Neck Inches | Between Lock Nuts Inches |
|--------------------|----------------------|--------------------------|
| 3/8 | 3/8 | 1/8 |

One Switch Per Card.

Six Cards Per Box.

Weight Per Box, 9 Ounces.

Not Ignition Protected, See Page CD-13.



FUSED LINE CONNECTOR – Fig. 786-SP

Molded Bakelite – With 20 AMP. Fuse and Wire Leads.

For Standard Glass Fuses 1 1/4 Inches Long.

| Length Inches | Diameter Inches |
|---------------|-----------------|
| 2-1/8 | 5/8 |

One Connector Per Card.

Ten Cards Per Box.

Weight Per Box, 3/4 Pound.

Conforms to U.S.C.G. Electrical Standards, See Page CD-13.



MOLDED LINE CONNECTORS – Fig. 720-SP

Waterproof Bodies – Color Coded Wires.

Polarized for proper mating of circuits. Conductors precision aligned and molded in S.A.E. Type P.V.C. insulation for minimum voltage drop and ease in making and breaking connections.

12 inch long wires on male and female sides.

| Poles | Width Inches | Weight Per Box Ounces |
|-------|--------------|-----------------------|
| 2 | 5/8 | 6-1/4 |
| 3 | 7/8 | 9 |
| 4 | 1-1/8 | 11-1/4 |

One Connector Per Card.

Five Cards Per Box.

Specify Size.

Conforms to U.S.C.G. Electrical Standards, See Page CD-13.



WATERTIGHT DECK CONNECTION – Fig. 1190-SP

Die Cast Zinc Alloy with Black Plastic Covers – Double Contact – Chromium Plated.

The covers snap on or off for quick connection.

The connector is brass, well insulated.

| Diameter Inches | Height Inches |
|-----------------|---------------|
| 1-5/8 | 1-3/16 |

One Connection Per Card.

Five Cards Per Box.

Weight Per Box, 14 Ounces.

Not Ignition Protected, See Page CD-13.



WATERTIGHT CABLE OUTLET – Fig. 1191-SP

Die Cast Zinc Alloy – Chromium Plated

Has rubber grommet for watertight passage of cable through deck or bulkhead, also prevents chafing of cable insulation.

| For Cable Inches | Diameter Base Inches |
|------------------|----------------------|
| 5/16 | 1-1/4 |

One Outlet Per Card.

Five Cards Per Box.

Weight Per Box, 10 Ounces.

GLARE SHIELD — Fig. 1192-SP

Black Plastic — For 3/4" O.D. Tubing

Shield is installed by removing one screw, placing the shield around tubing and then replacing the screw. Set screw is furnished to lock shield in permanent position.

| Dimensions Inches | Weight Ounces |
|----------------------|------------------|
| 6X4-5/16 | 3 |

One Shield Per Card
Five Per Box.
Weight Per Box, 1 Pound.



Fig. 1192-SP

BRASS TRANSOM DRAIN PLUGS — Fig. 414-SP

| No. | Diam. Tube Inches | Length Overall Inches | Length Tube Inches |
|-----|-------------------------|-----------------------------|--------------------------|
| 1 | 1 | 2-1/2 | 2 |

One Drain Plug Per Card.
Twelve Cards Per Box.
Weight Per Box, 4 Pounds.



Fig. 414-SP

MARINE SHIELDS FOR FIXTURES—

Figs. 33 SP, 34 SP, 36 SP

The latest nautical designs — Suitable for hanging and upright bulb — Width 4-1/2" Height 4-5/8".

One Shield Per Card.
Six Cards Per Box.
Weight Per Box, 2 Pounds.



Fig. 33-SP



Fig. 34-SP



Fig. 36-SP

HIGH INTENSITY FRESNEL GLOBE — Fig. 248-SP

Clear Plastic Complete With Gasket

| Outside Diam. Inches | Height Inches | Diam. Thread Inches |
|----------------------------|------------------|---------------------------|
| 1-3/4 | 2-1/2 | 2 |

One Globe Per Card.
Ten Cards Per Box.
Weight Per Box, 1 1/2 Pounds.



Fig. 248-SP



CLAM SHELL VENTILATOR — Fig. 339-SP

Brass — Chromium Plated.

| Width Opening Inches | Height Opening Inches | Base Dimensions Inches | For Screw No. |
|----------------------------|-----------------------------|------------------------------|---------------------|
| 2-1/2 | 1-5/8 | 4x3 3/4 | 6 |

One Vent Per Card.
Six Cards Per Box.
Weight Per Box, 4 Pounds.



Fig. 339 SP



MIDGET CLAM SHELL VENTILATOR — Fig. 315-SP

Brass — Chromium Plated.

| No. | Base Dimensions Inches | Height Opening Inches | For Screw No. |
|-----|------------------------------|-----------------------------|---------------------|
| 2 | 2x2 | 9/16 | 6 |

One Vent Per Card.
Twelve Cards Per Box.
Weight Per Box, 1 1/2 Pounds.

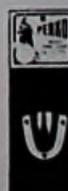


Fig. 315 SP



Fig. 1513 SP

"CHROMALEX" III® GAS FILL — Fig. 1513-SP

Chromium Plated — Die Cast Zinc Alloy Body — Molded Teak Plastic Cap
Cap has Integral Retainer to prevent loss of Cap
Neck has bead for improved neck retention.

| Diameter Overall Inches | Length Hose Neck Inches | For Screw No. | For Hose Size |
|-------------------------|-------------------------|---------------|---------------|
| 3-1/8 | 1-5/8 | 7 | 1-1/2 |

One Fill Per Card.
Six Cards Per Box.
Weight Per Box, 4 Pounds.



Fig. 1313-SP

CHROMALEX® GAS FILL — Fig. 1313-SP

Black Plastic Flange
Die Cast Zinc Alloy — Chromium Plated
For Use With 1 1/2" I.D. Hose.
Cap has Integral Retainer to prevent loss of Cap.
Neck has bead for improved hose retention.

| Diameter Overall Inches | Length Hose Neck Inches | For Screw No. |
|-------------------------|-------------------------|---------------|
| 3-1/8 | 1-5/8 | 7 |

One Fill Per Card.
Six Cards Per Box.
Weight Per Box, 3 1/2 Pounds.



Fig. 1399-SP

CHROMALEX® GAS FILL — Fig. 1399-SP

Same Design and Construction as Fig. 1313 Except this Model comes Equipped with a Locking Black Plastic Cap, Built-in Five Pin Tumbler Lock in Cap. Supplied with 2 Keys.
One Fill Per Card.
Six Cards Per Box.
Weight Per Box, 4 Pounds.



Fig. 1499-SP

CHROMALEX® GAS FILL — Fig. 1499-SP

Same Design and Construction as Fig. 1513 Except this Model comes Equipped with a Locking Black Plastic Cap. Built-in Five Pin Tumbler Lock in Cap. Supplied with 2 Keys.
One Fill Per Card.
Six Cards Per Box.
Weight Per Box, 4 Pounds.



Fig. 1324-SP

LOCKING GAS CAP — Fig. 1324-SP

Black Plastic Cap — Built-in Five Pin Tumbler Lock — Supplied with 2 Keys — Gasket to Prevent Moisture from Entering Tank.

Locking Cap will fit all PERKO Chromalex® Gas Fills, Figs. 1313, 1413 and 1513 already in use.

| Weight Ounces |
|---------------|
| 3 |

One Cap Per Card.
Six Cards Per Box.
Weight Per Box, 1-1/4 Pounds.

All Fills On This Page Meet The Requirements of The U.S.C.G. Safety Standards, January 31, 1977 for Gasoline Fuel Systems.

Sold To Trade In Full Box Only

GAS TANK VENT – Fig. 506-SP

Die Cast Zinc Alloy – Chromium Plated –
With Removable Monel Wire 30 Mesh Screening.

| No. | Hose Size Inches | Max. Wood Thickness Inches | Weight Ounces |
|-----|------------------|----------------------------|---------------|
| 4 | 5/8 | 3/4 | 2 |

One Vent Per Card.
Ten Cards Per Box.
Weight Per Box, 1-1/2 Pounds.

This item is designed to meet the requirements of U.S.C.G. Safety Standards, January 31, 1977 for gasoline fuel systems.



Fig. 506-SP



“CHROMALEX”[®] COWL VENTILATOR – Fig. 1312-SP

Black Plastic Base – Die Cast Zinc Alloy
Polished Chromium Plated – For 3” Duct.

| Mouth Opening Square Inches | Length Overall Inches | Width Overall Inches | Height Overall Inches |
|-----------------------------|-----------------------|----------------------|-----------------------|
| 7 | 5-3/4 | 4-3/8 | 2-5/8 |

One Vent Per Card.
Four Cards Per Box.
Weight Per Box, 3 Pounds.



Fig. 1312 SP

“CHROMALEX” III[®] COWL VENTILATOR—Fig. 1512-SP

Chromium Plated – Die Cast Zinc Alloy Body
Molded Teak Plastic Insert – Black Plastic Base

Designed for fast mounting. Has integral air scoop – No hose clamps necessary – Duct threads into collar.

| Mouth Opening Square Inches | Length Overall Inches | Width Overall Inches | Height Overall Inches |
|-----------------------------|-----------------------|----------------------|-----------------------|
| 7 | 5-3/4 | 4-3/8 | 2-5/8 |

One Vent Per Card.
Four Cards Per Box.
Weight Per Box, 3 Pounds.



Fig. 1512 SP

LOCKER VENTILATORS – Fig. 330-SP

18-8 Stainless Steel – Polished.

| No. | Diameter Inches | For Screw No. |
|-----|-----------------|---------------|
| 2 | 3-1/4 | 6 |

One Vent Per Card.
Twelve Cards Per Box.
Weight Per Box, 1 1/2 Pounds



Fig. 330 SP

DECK PLATE KEY – Fig. 826-SP

Die Cast Zinc Alloy – Chromium Plated

Heavy duty with extra sturdy pins. Will fit all sizes of deck plates up to 8 inch diameter.

| Length Overall Inches |
|-----------------------|
| 1-1/2 |

One Key Per Card. Six Cards Per Box.
Weight Per Box, 4 Pounds.



Fig. 826-SP



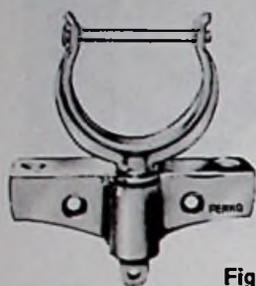


Fig. 1228-SP



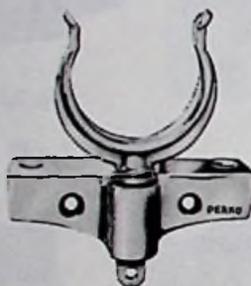
NORTH RIVER ROWLOCKS – Fig. 1228-SP

Die Cast Zinc Alloy – Chromium Plated – With Delrin Bearing in Socket – Between Horns, 1 1/4 Inches.

One Pair Per Card.
Six Cards Per Box.
Weight Per Box, 8 1/2 Pounds.



Fig. 1263-SP



RIBBED SIDE PLATE ROWLOCKS – Fig. 1263-SP

Die Cast Zinc Alloy – Chromium Plated – With Delrin Bearing in Socket – Between Horns, 1 1/4 Inches.

One Pair Per Card.
Six Cards Per Box.
Weight Per Box, 8 Pounds.



Fig. 1268-SP



ROUND ROWLOCKS WITH FANCY SOCKET – Fig. 1268-SP

Die Cast Zinc Alloy – Chromium Plated – Delrin Bearing in Socket – Inside Diameter Horns, 2 Inches.

One Pair Per Card.
Six Cards Per Box.
Weight Per Box, 8 3/4 Pounds.



Fig. 1267-SP



ROUND ROWLOCKS HORNS – Fig. 1267-SP

Die Cast Zinc Alloy
Inside Diameter 2 Inches
Diameter Shank 1/2 Inch.

NATURAL FINISH
One Pair Per Card.
Six Cards Per Box.

CHROMIUM PLATED
One Pair Per Card.
Six Cards Per Box.

Weight Per Box, 4 1/2 Pounds.

NORTH RIVER ROWLOCK HORNS – Fig. 1227-SP

Die Cast Zinc Alloy – Between Horns 1¾ Inches.
Diameter Shank ½ Inch.

NATURAL FINISH

One Pair Per Card.
Six Cards Per Box.
Weight Per Box, 4 Pounds.

CHROMIUM PLATED

One Pair Per Card.
Six Cards Per Box.
Weight Per Box, 4 Pounds.



Fig. 1227 SP

RIBBED ROWLOCK HORNS – Fig. 1262-SP

Die Cast Zinc Alloy – Between Horns 1¾ Inches.
Diameter Shank ½ Inch.

NATURAL FINISH

One Pair Per Card.
Six Cards Per Box.
Weight Per Box, 4 Pounds

CHROMIUM PLATED

One Pair Per Card.
Six Cards Per Box.
Weight Per Box, 4 Pounds.



Fig. 1262 SP

TRANSOM PLATES – Fig. 1224-SP

Die Cast Zinc Alloy – Chromium Plated Frame –

Molded Soft Plastic Pad.

Length Overall 3½ Inches.

Inside Diameter 1-7/8 Inches.

One Pair Per Card.
Twelve Cards Per Box.
Weight Per Box, 3¾ Pounds.



Fig. 1224 SP



Fig. 159-SP



BRASS FOG BELLS – CHROMIUM PLATED – Fig. 159-SP

With Removable Arm and Wall Plate.
Clapper has short arm for Lanyard.

| Diameter Inches | Height Overall Inches |
|--------------------|-----------------------------|
| 6 | 4 |

One Bell Per Card.
Two Cards Per Box.
Weight Per Box, 2½ Pounds.



Fig. 167-SP

TRIPLEX MOTOR BOAT WHISTLE – Fig. 167-SP

Plastic

| Length Overall Inches | Width Overall Inches |
|-----------------------------|----------------------------|
| 6 | 1-¾ |

One Whistle Per Card.
Twelve Cards Per Box.
Weight Per Box, 1½ Pounds.



Fig. 349-SP



SIGNAL WHISTLE – Fig. 349-SP

Orange Plastic.

| Length Inches | Width Inches |
|------------------|-----------------|
| 2-1/4 | 3/4 |

One Whistle Per Card.
Ten Cards Per Box.
Weight Per Box, 1-1/4 Pounds.



Fig. 162-SP

FOG HORN—Fig. 162-SP

ALUMINUM – DURABLE WHITE BAKED ENAMEL FINISH
NYLON MOUTHPIECE

Lightweight Fog Horn that is attractive and practical –
Length 12-1/2 Inches.

One Horn Per Card.
Six Cards Per Box.
Weight Per Box 2½ Pounds.

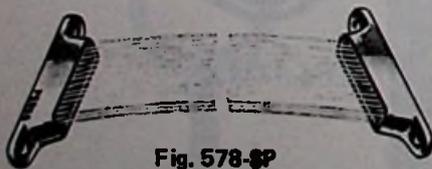


Fig. 578-SP



BOAT COVER SOCKETS – Fig. 578-SP

Die Cast Zinc Alloy – Chromium Plated.

| Length Overall Inches | Size Opening Inches | Width Overall Inches |
|-----------------------------|---------------------------|----------------------------|
| 3-¾ | 1-7/8x7/16 | 5/8 |

One Pair Per Card.
Twelve Cards Per Box.
Weight Per Box, 3 Pounds.

CHROMALEX® HANDLE — Fig. 1336-SP

**Die Cast Zinc Alloy — Chromium Plated.
Glossy Black Plastic Base. For ¼" Screws**

| Length Overall Inches | Length Inside Inches | Width Overall Inches |
|-----------------------|----------------------|----------------------|
| 6-¼ | 3-½ | 1-¼ |

**Two Handles Per Card.
Six Cards Per Box.
Weight Per Box, 7 Pounds.**

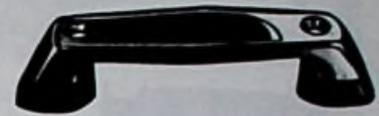


Fig. 1336-SP

ROUND GRIP HANDLE — Fig. 1231-SP

Die Cast Zinc Alloy — Chromium Plated.

| Length Overall Inches | Length Inside Inches | Height Inside Inches | For Screw No. |
|-----------------------|----------------------|----------------------|---------------|
| 6 | 3-½ | 1-5/16 | 10 |

**Two Handles Per Card.
Six Cards Per Box.
Weight Per Box 6-3/4 Pounds.**

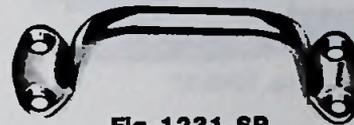


Fig. 1231-SP



HANDLE — Fig. 775-SP

Bronze — Chromium Plated.

| No. | Length Overall Inches | Length Inside Inches |
|-----|-----------------------|----------------------|
| 2 | 5-3/4 | 3-3/4 |

**Two Handles Per Card.
Six Cards Per Box.
Weight Per Box, 4 Pounds.**



Fig. 775-SP

CHROMALEX® STEP PLATES — Figs. 1225-SP, 1325-SP, 1525-SP

**Die Cast Zinc Alloy — Chromium Plated
Molded Plastic Non-Skid Pads**

| No. | Dimensions Overall Inches | For Screw No. | Weight Per Box Pounds |
|-----|---------------------------|---------------|-----------------------|
| 0 | 8-3/8 x 2-1/4 | 8 | 6 |
| 1 | 8-3/4 x 3-1/4 | 8 | 9-1/2 |

**Two Plates Per Card.
Six Cards Per Box.**



**Fig. 1225SP - White
Fig. 1325SP - Black
Fig. 1525SP - Teak**



STEP PLATE — Fig. 1526-SP

**Molded Teak Plastic — Non Skid
No Frame Required**

| No. | Overall Dimensions Inches | For Screw No. | Weight Ounces |
|-----|---------------------------|---------------|---------------|
| 1 | 9-7/8 x 2-7/8 | 8 | 4 |

**Two Plates Per Card.
Six Cards Per Box.
Weight Per Box, 3½ Pounds.**



Fig. 1526-SP



"CHROMALEX"[®] III OPEN BASE CLEATS—Fig. 1506-SP
 Die Cast Zinc Alloy Bodies — Chromium Plated
 Black Plastic Bases — Molded Teak Plastic Insert.

| | Length Inches | Size Base Inches | For Screw | For Diam. Rope Inches | Weight Per Box Pounds |
|-------|------------------|------------------------|--------------|-----------------------------|-----------------------------|
| No. 1 | 4-½ | 2-½-1-1/16 | No. 10 | ¾ | 4 |
| No. 2 | 6 | 3-¼x1-¾ | ¼" | ½ | 4 |

No. 1 - Two Cleats Per Card. Six Cards Per Box. No. 2 - One Cleat Per Card. Six Cards Per Box.



Fig. 1506-SP



"CHROMALEX"[®] III CLOSED BASE CLEAT—Fig. 1505-SP
 Die Cast Zinc Alloy Bodies — Chromium Plated
 Black Plastic Bases — Molded Teak Plastic Insert.

| | Length Inches | Size Base Inches | For Screw | For Diam. Rope Inches | Weight Per Box Pounds |
|-------|------------------|------------------------|--------------|-----------------------------|-----------------------------|
| No. 1 | 4-½ | 3-¾x1-1/16 | No. 10 | ¾ | 4 |
| No. 2 | 6 | 5x1-¾ | ¼" | ½ | 4 |

No. 1 - Two Cleats Per Card. Six Cards Per Box. No. 2 - One Cleat Per Card. Six Cards Per Box.



Fig. 1505-SP



CHROMALEX[®] OPEN BASE CLEATS — Fig. 1306-SP
 Black Plastic Base — Die Cast Zinc Alloy.
 Chromium Plated — Counter Sunk for Screws.

Measurements Same as Fig. 1506-SP

No. 1 - Two Cleats Per Card. Six Cards Per Box. No. 2 - One Cleat Per Card. Six Cards Per Box.



Fig. 1306-SP



CHROMALEX[®] CLOSED BASE CLEATS — Fig. 1305-SP
 Black Plastic Base — Die Cast Zinc Alloy.
 Chromium Plated — Counter Sunk For Screws.

Measurements Same as Fig. 1505-SP

No. 1 - Two Cleats Per Card. Six Cards Per Box. No. 2 - One Cleat Per Card. Six Cards Per Box.



Fig. 1305-SP



STREAMLINE CLEATS — Fig. 566-SP

Die Cast Zinc Alloy — Chromium Plated.

| | Length Inches | Size Base Inches | For Diam. Rope Inches | Weight Per Box Pounds |
|--|------------------|------------------------|-----------------------------|-----------------------------|
| | 2 | 2-3/16x1-1/8 | 5/16 | 3-½ |
| | 3 | 3-1/8 x1-1/2 | ¾ | 5-½ |
| | 4-½ | 4-7/16x1-7/8 | ½ | 8-½ |
| | 6 | 5-½ x2 | ¾ | 13 |

2" and 3" - Two Cleats Per Card. Twelve Cards Per Box. 6" - One Cleat Per Card. Twelve Cards Per Box.
 4½" - Two Cleats Per Card. Six Cards Per Box.



Fig. 566-SP



YACHT CLEATS — Fig. 1188-SP

Die Cast Zinc Alloy — Chromium Plated.

| | Length Inches | Width Base Inches | Weight Per Box Pounds |
|--|------------------|-------------------------|-----------------------------|
| | 4 | 1-5/8 | 5 |
| | 6 | 1-¾ | 4 |

4" - Two Cleats Per Card. Six Cards Per Box. 6" - One Cleat Per Card. Six Cards Per Box.



Fig. 1188-SP



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SOLID BASE CLEAT — Fig. 544-SP

Pressure Cast Bronze — Chromium Plated

| Length Inches | For Screw No. |
|------------------|---------------------|
| 4 | 10 |

One Cleat Per Card.

Six Cards Per Box.

Weight Per Box, 2½ Pounds.



Fig. 544-SP



CHROMALEX® SKENE TYPE BOW CHOCKS — Fig. 1307-SP

Black Plastic Base — Die Cast Zinc Alloy — Chromium Plated
— Counter Sunk for Screws.

| No. | Length Overall Inches | Width Base | For Screw | For Diam. Rope Inches | Weight Per Box Pounds |
|-----|-----------------------------|---------------|--------------|--------------------------------|-----------------------------|
| 1 | 3-1/2 | 7/8 | No.10 | 3/8 | 3-1/2 |
| 2 | 5 | 1-1/4 | 1/4" | 1/2 | 4 |

No. 1 - One Pair Per Card. No. 2 - One Pair Per Card.
Twelve Cards Per Box. Six Cards Per Box.



Fig. 1307-SP

CHROMALEX® STRAIGHT TYPE CHOCKS — Fig. 1308-SP

Black Plastic Base — Die Cast Zinc Alloy — Chromium Plated
— Counter Sunk for Screws.

| No. | Length Overall Inches | Width Base | For Screw | For Diam. Rope Inches | Weight Per Box Pounds |
|-----|-----------------------------|---------------|--------------|--------------------------------|-----------------------------|
| 1 | 3-1/2 | 7/8 | No.10 | 3/8 | 3-1/2 |
| 2 | 5 | 1-1/4 | 1/4" | 1/2 | 4 |

No. 1 - One Pair Per Card. No. 2 - One Pair Per Card.
Twelve Cards Per Box Six Cards Per Box.



Fig. 1308-SP



SKENE BOW CHOCKS — Fig. 1223-SP

Die Cast Zinc Alloy — Chromium Plated.

| Length Overall Inches | Width Base Inches | For Diam. Rope Inches | Weight Per Box Pounds |
|-----------------------------|-------------------------|--------------------------------|-----------------------------|
| 3-1/2 | 7/8 | 1/2 | 4-1/2 |

One Pair Per Card.

Twelve Cards Per Box.



Fig. 1223-SP



BOW CHOCKS — Fig. 546-SP

Cast Bronze — Chromium Plated.

| Length Inches | For Screw No. | Weight Per Box Pounds |
|------------------|---------------------|-----------------------------|
| 4 | 10 | 4 |

One Pair Per Card.

Six Cards Per Box.



Fig. 546-SP

STERN CHOCK — Fig. 119-SP

Cast Bronze — Chromium Plated.

| Length Inches | For Screw No. | Weight Per Box Pounds |
|------------------|---------------------|-----------------------------|
| 4 | 8 | 2-1/2 |

One Chock Per Card.

Six Cards Per Box.



Fig. 119-SP



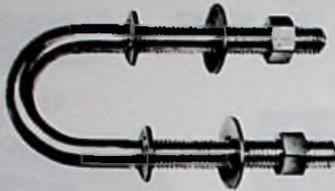


Fig. 237 SP

BOW EYES – Fig. 237-SP

300 Series Non-Magnetic Stainless Steel

| Length Shank Inches | Diameter Metal Inches | Length Thread Inches | Inside Eye Inches | Safe Working Load Pounds |
|---------------------|-----------------------|----------------------|-------------------|--------------------------|
| 3 | 5/16 | 3 | 1 | 1800 |

One Bow Eye Per Card.

Six Cards Per Box.

Weight Per Box, 2 Pounds.



BOW EYES Fig. 1235-SP

Die Cast Zinc Alloy – Chromium Plated – Forged Steel Shanks, Nut and Washer – Shanks Are One Continuous “U” Bolt Cast Inside Eye.

| Length Shank Inches | Length Thread Inches | Diameter Shank Inches | Inside Eye Inches | Safe Working Load Pounds |
|---------------------|----------------------|-----------------------|-------------------|--------------------------|
| 3 | 2-3/4 | 3/8 | 1 | 2000 |

One Bow Eye Per Card.

Six Cards Per Box.

Weight Per Box, 4-1/4 Pounds.



Fig. 1235 SP



NOTE: FIGS. 237SP & 1235SP ARE NOT DESIGNED TO BEAR THE WEIGHT OF THE VESSEL AND THEREFORE SHOULD NOT BE USED FOR LIFTING. THE SAFE WORKING LOAD INFORMATION GIVEN IS BASED ON A STRAIGHT AXIAL PULL. THIS WOULD NOT APPLY IN CASES WHERE INSTALLATION OR USE CREATES ANGULAR LOADING SINCE THESE VARIATIONS MAKE IT IMPRACTICABLE TO OFFER ACCURATE TEST DATA.



WATER SKI TOWING HOOK – Fig. 863-SP

For Mounting Through Transom – Die Cast Zinc Alloy – Steel Bolt – Chromium Plated

| Length Overall Inches | Diameter Bolt Inches | Length Bolt Inches | Length Thread Inches |
|-----------------------|----------------------|--------------------|----------------------|
| 6 | 5/16 | 3-1/4 | 2-1/2 |

One Hook Per Card.

Six Cards Per Box.

Weight Per Box, 3½ Pounds.



Fig. 863 SP



HAND WINDSHIELD WIPERS – Fig. 533-SP

The arm is extensible from 6¾ to 10½ inches, spring tension is adjustable for best wiping pressure.

| Length Overall Inches | Diam. Shaft Inches | Length Handle Inches |
|-----------------------|--------------------|----------------------|
| 13½ to 16½ | 3/8 | 2-3/8 |

One Wiper Per Card.

Three Cards Per Box.

Weight Per Box, 2 Pounds.



Fig. 533 SP



SWIVEL EYE PULLEYS – Fig. 565-SP

All 18-8 Stainless Steel except the sheave which is white nylon.

| Length Overall Inches | Diam. Sheave Overall Inches | Length Strap Inches |
|-----------------------|-----------------------------|---------------------|
| 3-3/4 | 2 5/16 | 1-5/8 |

Two Pulleys Per Card.
 Twelve Cards Per Box.
 Weight Per Box, 4-1/2 Pounds.



Fig. 565-SP



SNAP HOOK PULLEYS – Fig. 634-SP

All 18-8 Stainless Steel except the sheave which is white nylon.

| Length Overall Inches | Snap Throat Opening Inches | Diam. Sheave Overall Inches |
|-----------------------|----------------------------|-----------------------------|
| 4-5/8 | 1/2 | 2 5/16 |

Two Pulleys Per Card.
 Twelve Cards Per Box.
 Weight Per Box, 5-1/4 Pounds.



Fig. 634-SP

TILLER ROPE TIGHTENERS – Fig. 732-SP

Stainless Steel or Cadmium Plated.

| Normal Length Inches | Length Compressed Inches | Outside Diameter Inches | Weight Per Box Pounds |
|----------------------|--------------------------|-------------------------|-----------------------|
| 4 | 5 | 1-1/16 | 5-1/2 |

STS. - Two Tighteners Per Card. Twelve Cards Per Box.
 Cad. - Two Tighteners Per Card. Twelve Cards Per Box.



Fig. 732-SP – CAD.
 Fig. 732-SP – STS.



TILLER ROPE CLAMPS – Fig. 1226-SP

Die Cast Zinc Alloy – Chromium Plated.

| For Rope Diam. Inches | Length Inches | Width Inches |
|-----------------------|---------------|--------------|
| 1/8 or 3/16 | 1-1/4 | 11/16 |

Two Clamps Per Card.
 Twelve Cards Per Box.
 Weight Per Box, 2-1/2 Pounds.



Fig. 1226-SP

FENDER HOOKS – Fig. 1246-SP

Die Cast Zinc Alloy – Chromium Plated.

| For Rope Diameter Inches | Size Plate Inches | For Screw No. |
|--------------------------|-------------------|---------------|
| 3/8 | 1-3/4x1-1/4 | 6 |

Two Hooks Per Card.
 Twelve Cards Per Box.
 Weight Per Box, 2-3/4 Pounds.



Fig. 1246-SP

FENDER LOCK – Fig. 1299-SP

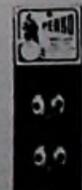
Die Cast Zinc Alloy – Chromium Plated.

Attach and detach fenders instantly, eye is permanently fastened to fender line, it quickly engages the deck flange and stays there until its job is done.

| Diameter Flange Inches | I.D. Eye Inches | Two Per Card. Twelve Cards Per Box. Weight Per Box, 2-1/4 Pounds. |
|------------------------|-----------------|---|
| 1-1/2 | 3/8 | |



Fig. 1299-SP



Sold To Trade In Full Box Only



Fig. 1287-SP

MODERN DESIGN CABIN DOOR HOOKS – Fig. 1287-SP

Patent No. 197,531

Die Cast Zinc Alloy – Chromium Plated.

Length of Hook 2½ Inches.

Dimension of Eye Plate 1¼x11/16 Inches.

One Hook Per Card.

Six Cards Per Box.

Weight Per Box, 13 Ounces.



Fig. 1199-SP


CABIN DOOR HOOKS – Fig. 1199-SP

Die Cast Zinc Alloy – Chromium Plated.

Length of Hook 1¾ Inches.

One Hook Per Card.

Twelve Cards Per Box.

Weight Per Box, 2 Pounds.



Fig. 1194-SP

HINGED LOCKING HASP – Fig. 1194-SP

Die Cast Zinc Alloy – Chromium Plated.

Padlock eye swivels to act as a latch.

Length Closed 3 Inches.

Width 1 Inch.

One Hasp Per Card.

Five Cards Per Box.

Weight Per Box, 1¼ Pounds.

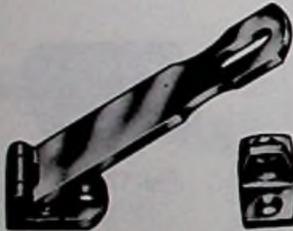


Fig. 1198-SP


SECURITY HINGED HASPS – Fig. 1198-SP

Die Cast Zinc Alloy – Chromium Plated.

Length Closed 3 Inches.

Width 1 Inch.

One Hasp Per Card.

Twelve Cards Per Box.

Weight Per Box, 2½ Pounds.

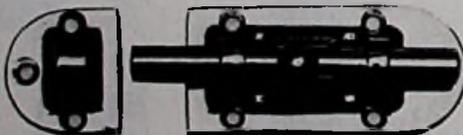


Fig. 947-SP

BARREL BOLTS – Fig. 947-SP

Pressure Cast Bronze – Chromium Plated.

Length of Rod 3 Inches.

Base Without Strike 3x1¼ Inches.

One Bolt Per Card.

Five Cards Per Box.

Weight Per Box, 1½ Pounds.



Fig. 769-SP

HATCH FASTENER OR WINDSHIELD KEEPER – Fig. 769-SP

Chromium Plated.

Diameter of Base 1-1/2X5/8 Inches.

One Fastener Per Card.

Five Cards Per Box.

Weight Per Box, 1-1/2 Pounds.

BUTT HINGES – Fig. 1293-SP

Die Cast Zinc Alloy – Chromium Plated.
Stainless Steel Removable Pin.

Size Open 2x2 Inches.

One Pair Per Card.
Ten Cards Per Box.

Weight Per Box, 2½ Pounds.

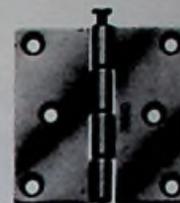


Fig. 1293-SP

SEMI-CONCEALED HINGE – Fig. 271-SP

Wrought Brass – Chromium Plated.
For Use On Doors With 3/8" Inset.

Dimensions Overall Inches – 2-3/4X2-1/8

One Pair Per Card.
Ten Cards Per Box.

Weight Per Box, 2 Pounds.

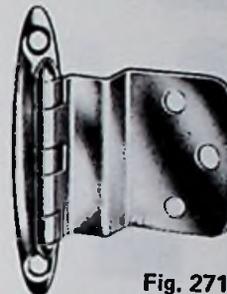


Fig. 271-SP



CUDDY DOOR HINGES – Fig. 808-SP

Die Cast Zinc Alloy – Chromium Plated.
With Stainless Steel Pins.

Length Open 3 Inches.
Extreme Width 1½ Inches.

One Pair Per Card.
Ten Cards Per Box.

Weight Per Box, 2¾ Pounds.



Fig. 808-SP



CUDDY DOOR HINGE – Fig. 924-SP

Wrought Brass – Stainless Steel Pin.
Chromium Plated.

| Length Open Inches | Width Inches | Diam. Pin Inches |
|--------------------|--------------|------------------|
| 3 | 1-1/2 | 3/16 |

One Pair Per Card.
Twelve Cards Per Box.
Weight Per Box, 2 Pounds.



HATCH HOLD-DOWN CLAMPS—Figs. 1112-SP & 1113-SP

Pressure Cast Bronze – Chromium Plated.

An excellent item with many uses, on hatch covers, windshields, windows, bait and fish boxes, etc.

Fig. 1112-SP Flat Mounting

| Length Inches | Width Inches |
|---------------|--------------|
| 3 | 1-1/2 |

One Clamp Per Card.
Three Cards Per Box.
Weight Per Box, 1¼ Pounds.

Fig. 1113-SP Angle Mounting

| Length Inches | Width Inches |
|---------------|--------------|
| 2-1/2 | 1-1/2 |

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Fig. 1112-SP



Fig. 1113-SP



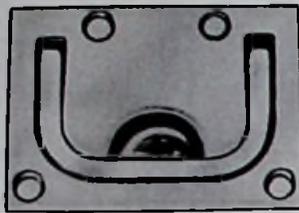


Fig. 1220-SP

FLUSH HATCH LIFTING HANDLE – Fig. 1220-SP
Die Cast Zinc Alloy – Chromium Plated.
No Large recess to catch chairs, heels, table legs, etc.

| Dimensions Plate Inches | Inside Handle Inches |
|-------------------------------|----------------------------|
| 3x2-1/4 | 1-7/8x1 |

One Handle Per Card.
Ten Cards Per Box.
Weight Per Box, 2½ Pounds.



Fig. 776-SP



★
**HEAVY DUTY
FLUSH HATCH LIFTING HANDLE – Fig. 776-SP**
Bronze – Chromium Plated.

| No. | Dimensions Plate Inches | Inside Handle Inches |
|-----|-------------------------------|----------------------------|
| 1 | 3x2-1/4 | 1 7/8 x 1 |

One Handle Per Card.
Six Cards Per Box.
Weight Per Box, 1¼ Pounds.



Fig. 575-SP

★
FLUSH HATCH LIFTING RING – Fig. 575-SP
Bronze – Chromium Plated.
No recess to catch heels, chair or table legs, etc.
Size Plate 2x2-5/8 Inches – Inside Ring 1 Inch.

One Ring Per Card.
Twelve Cards Per Box.
Weight Per Box, 1½ Pounds.



Fig. 841-SP



★
FLUSH RING PULLS – Fig. 841-SP
Die Cast Zinc Alloy – Chromium Plated.
Size Plate 1½x1-3/8 Inches.

One Pull Per Card.
Twelve Cards Per Box.
Weight Per Box, 1 Pound.

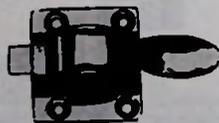


Fig. 1102-SP

★
CUPBOARD CATCHES – Fig. 1102-SP
Die Cast Zinc Alloy – Chromium Plated.
Base Without Strike 1-1/2 x 1-3/8 Inches.
Supplied complete with flush and 3/8 inch offset strike.

One Catch Per Card.
Six Cards Per Box.
Weight Per Box, 1 Pound.



Fig. 1101-SP



★
CUPBOARD BOLT – Fig. 1101-SP
Die Cast Zinc Alloy – Chromium Plated.
Base Without Strike 1½x1½ Inches.

One Bolt Per Card.
Six Cards Per Box.
Weight Per Box, 1¼ Pounds.

ELBOW CATCHES – Fig. 1056-SP
 Die Cast Zinc Alloy – Chromium Plated.
 Size of Base 1-1/8x9/16 Inches.

Two Catches Per Card.
 Twelve Cards Per Box.
 Weight Per Box, 1 Pound.

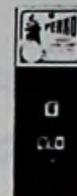


Fig. 1056-SP

"POLYDEL" DOOR CATCHES – Fig. 559-SP
 Black Delrin Ball Stud—Polyethylene Catch—Holds Door
 Firmly in Place Against Vibration and Motion.

| | | |
|------------------------|-------------------------|--|
| Stud Size Inches | Catch Size Inches | One Pair Per Card. Twenty-Five Cards Per Box. Weight Per Box, 1 Pound. |
| 1-1/8x3/8 | 1-3/8x7/8 | |



Fig. 559-SP

SPRING TYPE DOOR BUTTON – Fig. 1216-SP
 Die Cast Zinc Alloy – Chromium Plated – Black Plastic Knob
 Eliminates rattling doors. Phosphor bronze coil spring under
 knob holds button snugly against the plate. Drilled and counter-
 sunk for No. 6 screw.

| | | |
|-----------------------------|--------------------------------|--|
| Plate Diameter Inches | Width Less Keeper Inches | One Button Per Card. Twelve Cards Per Box. Weight Per Box, 1 1/2 Pounds. |
| 1-11/16 | 1-3/16 | |

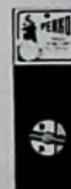


Fig. 1216-SP

SLIDING WINDOW LOCK AND ANTI RATTLER – Fig. 937-SP
 Die Cast Zinc Alloy – Chromium Plated – Bakelite Knob –
 Plastic Tip.

| | | | |
|-----------------------------|-----------------------------|---------------------------|--|
| Height Overall Inches | Mounting Plate Inches | Length Screw Inches | Two Per Card. Six Cards Per Box. Weight Per Box, 2 Pounds. |
| 1-5/8 | 1 x 5/8 | 1-1/8 | |



Fig. 937-SP

DRAWER KNOB – Fig. 926-SP
 Die Cast Zinc Alloy – Chromium Plated.
 Black Insert - Supplied With Stainless Steel 1-1/4" Screw
 For Drawers Up To 1-1/8" Thick.

| | | |
|-----------------|-------------------|--|
| 926 Black No. O | Diameter 1-1/8 | Two Knobs Per Card. Ten Cards Per Box. Weight Per Box, 1-1/2 Pounds. |
|-----------------|-------------------|--|



926-SP

WARDROBE OR UTILITY HOOK – Fig. 610-SP
 Die Cast Zinc Alloy – Chromium Plated.

| | |
|----------------------|----------------------|
| Projection Inches | Width Base Inches |
| 1-3/8 | 1-1/8 |

Two Hooks Per Card.
 Six Cards Per Box.
 Weight Per Box, 10 Ounces.



Fig. 610-SP



Fig. 606-SP

FAST EYE SNAP HOOKS – FIG. 606-SP
Galvanized Drop Forged Steel – Stainless Steel Spring.

| No. | I.D. of Eye Inches | Length Overall Inches | Throat Opening Inches | Safe Working Load Pounds |
|-----|--------------------|-----------------------|-----------------------|--------------------------|
| 1 | 3/4 | 4 | 3/4 | 500 |

One Hook Per Card.
Twelve Cards Per Box.
Weight Per Box, 2½ Pounds.



Fig. 1289-SP



SWIVEL EYE SNAP – Fig. 1289-SP
Die Cast Zinc Alloy – Chromium Plated.
Has an interlocking device on tongue and hook.

| Inside Diam. Eye Inches | Extreme Length Inches |
|-------------------------|-----------------------|
| 5/8 | 3 |

One Snap Per Card.
Twelve Cards Per Box.
Weight Per Box, 2½ Pounds.

This Snap not to be used for lifting, winching, towing or mooring or like applications.



Fig. 659-SP



SWIVEL EYE SNAP – Fig. 659-SP
Cast Bronze.

| Extreme Length Inches | Inside Eye Inches | Inside Hook Inches |
|-----------------------|-------------------|--------------------|
| 3-1/2 | 3/4 | 7/16 |

One Snap Per Card.
Ten Cards Per Box.
Weight Per Box, 2 Pounds.

This Snap not to be used for lifting, winching, towing or mooring or like applications.



Fig. 1017-SP

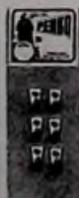
RING BUOY HOLDERS – Fig. 1017-SP
Brass – Chromium Plated.

| Width Mounting Plate Inches | Hgt. Overall Inches | For Screw No. |
|-----------------------------|---------------------|---------------|
| 3 | 4-1/2 | 8 |

One Holder Per Card.
Four Cards Per Box.
Weight Per Box, 2½ Pounds.



Fig. 1249-SP



LASHING HOOK – Fig. 1249-SP
For Boat Covers
Die Cast Zinc Alloy – Chromium Plated.

| Length Overall Inches | Width Overall Inches | Inside Hook Inches | For Screw No. |
|-----------------------|----------------------|--------------------|---------------|
| 15/16 | 1/2 | 1/4 | 6 |

Six Hooks Per Card.
Ten Cards Per Box.
Weight Per Box, 2½ Pounds.

Sold To Trade In Full Box Only

BOAT HOOK HOLDERS — Fig. 492-SP

18-8 Stainless Steel — Polished.

Will accommodate poles up to 1½ inch in diameter, and hold them firmly in place.

| Length Inches | Width Inches | For Screw No. |
|------------------|-----------------|---------------------|
| 3-1/2 | 1 | 6 |

One Pair Per Card.

Twelve Cards Per Box.

Weight Per Box, 3 Pounds.

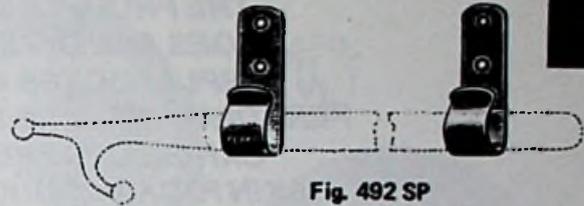


Fig. 492 SP

"HOLDALL" SPRING CLAMPS — Fig. 502-SP

18-8 Stainless Steel — Polished.

Excellent for stowing fishing rods, boat hooks, oars, swab, broom, flashlight, flagstaff, pump, etc.

| No. | Adjust- ability Inches | Length From Wall Inches | Width of Metal Inches | For Screw No. |
|-----|------------------------------|----------------------------------|--------------------------------|---------------------|
| 1 | 5/8 to 1-1/4 | 1-1/2 | 1/2 | 6 |

One Pair Per Card.

Twelve Cards Per Box.

Weight Per Box, 3 Pounds.

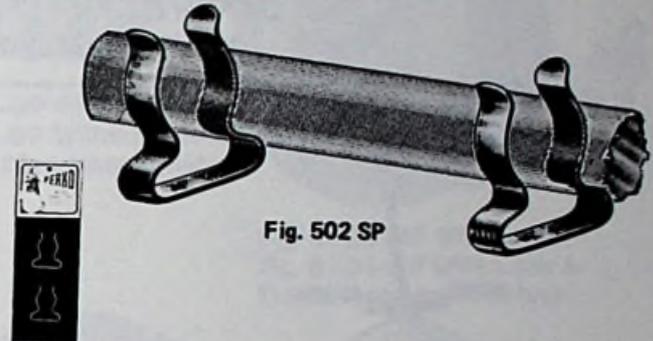


Fig. 502 SP

CONVERTIBLE BOAT TOP FITTINGS — Fig. 395-SP

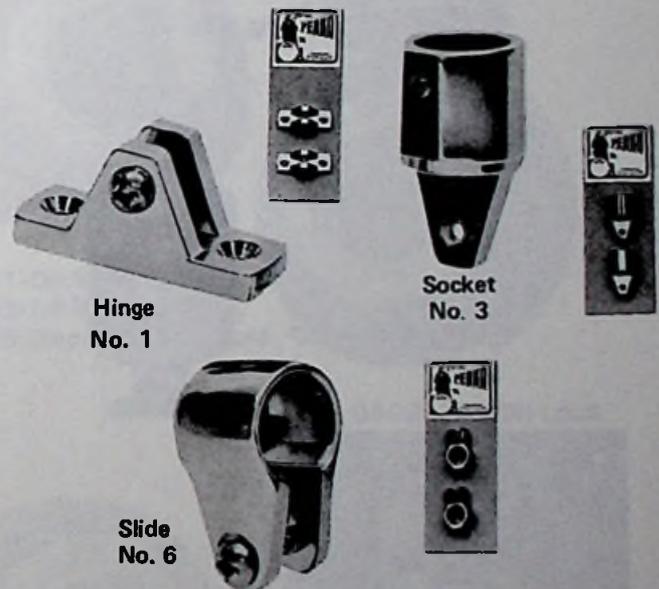
Die Cast Zinc Alloy — Chromium Plated.

| No. | Item |
|-----|----------------------------|
| 1 | Deck Hinge or Bracket |
| 3 | Socket for 3/4 inch tubing |
| 6 | Slide for 3/4 inch tubing |

Two Fittings Per Card.

Six Cards Per Box.

Weight Per Box, 1¾ Pounds.



Hinge
No. 1

Socket
No. 3

Slide
No. 6

Fig. 395-SP

OUTRIGGER TROLLING PIN OR CLIP — Fig. 469-SP

High Impact Black Plastic — Stainless Steel Eyes and Spring — Sunlight and Salt Water Resistant.

Dimensions 2-3/4 x 1-3/8

Two Clips Per Card.

Six Cards Per Box.

Weight Per Box, 3 Pounds.



Fig. 469-SP



NEW DISPLAY PACK SECTION



THE PRODUCTS LISTED ON THE FOLLOWING PAGES ARE OFFERED IN OUR NEW ATTRACTIVE DISPLAY BOXES AS A PART OF OUR EXPANDING PERKOPAK IMPULSE SALES PROGRAM. THESE PRODUCTS CAN BE ORDERED IN COMBINATION WITH THE SKIN PACK PRODUCTS SHOWN ON THE PRECEDING PAGES. THIS COMBINATION ENABLES YOU TO OFFER BOTH TYPES OF IMPULSE PACKAGING TO YOUR CUSTOMERS UNDER ONE PROGRAM.



Fig. 280 – DP

ADJUSTABLE SPREADER FLOODLIGHT – Fig. 280 – DP

**All Brass – Chromium Plated
12 Volt Sealed Beam Unit - Watertight**

This light has a ball joint action allowing it to be rotated in any position

| Diameter Overall Inches | Depth Inches | Size Mounting Plate Inches | Weight Per Box Pounds |
|-------------------------|--------------|----------------------------|-----------------------|
| 4-5/8 | 2-1/2 | 5-3/8x3/4 | 7 |

**One Flood Light Per Display Pack.
Five Display Packs Per Box.**



Fig. 600 – DP

ANTI-COLLISION STROBE LIGHT – Fig. 600 – DP

Satin Chromium Plated Housing – Clear 360° Fresnel Globe – High Intensity Xenon Strobe Lamp – Waterproof For 12 Volt Use

This Powerful New Unit with Built-in Polarity Protection PRODUCES OVER 1 MILLION (1,000,000) PEAK CANDLEPOWER FOR INCREASED DISTANCE OF VISIBILITY. Flashes approximately 50 Times a Minute. Mounting Bracket for Flat Surfaces is Easily Removed, Base of Light fits 1/2" Pipe.

| Height Overall Inches | Diameter Inches | Weight Per Box Pounds |
|-----------------------|-----------------|-----------------------|
| 7 | 3-1/8 | 6-3/4 |

**One Strobe Light Per Display Pack.
Five Display Packs Per Box.**



Fig. 517 – DP

SWITCH PANEL – Fig. 517 – DP

Black Textured Finish - Embossed Lettering - Molded Durable Plastic - Flexible to Mount On Flat Or Curved Surfaces.

Complete with switches, fuse holders and name plates. Switches rated 15 Amp at 12 volts - fuse holders for 1-1/4" long glass fuses.

| Size Inches | Weight Per Box Pounds |
|-------------|-----------------------|
| 6-1/2x4-1/4 | 4 |

**One Panel Per Display Pack.
Five Display Packs Per Box.**



NEW DISPLAY PACK SECTION



8500 SERIES BATTERY SELECTOR SWITCHES

Ignition Protected — Make Before Break Design — for Use With Two or More Batteries — Copper Contacts.

Options Include Built-in Key Lock Assembly For Extra Theft Protection and Alternator Field Disconnect Feature Which Protects Alternator From Damage if Switch is Inadvertently Switched To Off Position While Engine is Running.

For use with 6, 12, 24 or 32 Volt Systems.
Capacity, 250 Amps Continuous, 360 Amps Intermittent.

| Diameter Inches | Depth Inches | Weight Per Box Pounds |
|--------------------|-----------------|-----------------------------|
| 5-1/4 | 2-5/8 | 5 |



**Fig. 8501-DP Without Lock
Fig. 8503-DP Without Lock,
with Field Disconnect Feature**



**Fig. 8502-DP With Lock
Fig. 8504-DP With Lock &
Field Disconnect Feature**



**One Switch Per Display Pack.
Five Display Packs Per Box.**



9600 SERIES MAIN BATTERY SWITCHES ON-OFF TYPE

These units are the same basic design and construction as our 8500 Series except they are offered as main disconnect switches.

Options Include Built-in Key Lock Assembly For Extra Theft Protection and Alternator Field Disconnect Feature Which Protects Alternator From Damage if Switch is Inadvertently Switched To Off Position While Engine is Running.

For use with 6, 12, 24 or 32 Volt Systems.
Capacity, 250 Amps Continuous, 360 Amps Intermittent.



**Fig. 9601-DP Without Lock
Fig. 9603-DP Without Lock,
With Field Disconnect Feature**



**Fig. 9602-DP With Lock
Fig. 9604-DP With Lock &
Field Disconnect Feature**



**One Switch Per Display Pack.
Five Display Packs Per Box.**



193 SERIES BLOWER AND IGNITION SWITCHES

With these switches the engine cannot be started before the blower has been turned on, then before the engine can be stopped the blower must again be started which helps to clear out any remaining fumes, before and after engine operations.

For Use with 6, 12, 24 or 32 Volt Systems.
Capacity, 250 Amps Continuous, 360 Amps Intermittent.

| Diameter Inches | Depth Inches | Weight Per Box Pounds |
|--------------------|-----------------|-----------------------------|
| 5-1/4 | 2-5/8 | 5 |



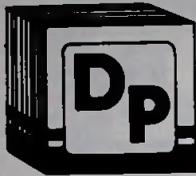
**Fig. 193 No. 1-DP
Without Lock**



**Fig. 193 No. 2-DP
With Lock**



**One Switch Per Display Pack.
Five Display Packs Per Box.**



NEW DISPLAY PACK SECTION

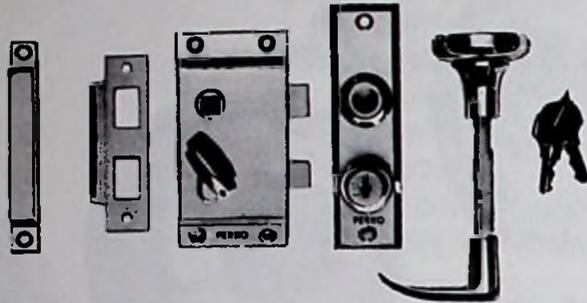


Fig. 918-DP

Fig. 919-DP

RIM LOCK SETS — Figs. 918-DP & 919-DP

Die Cast Zinc Alloy — Chromium Plated

Five disc tumbler type with dead bolt for inside. With round knob and lever handle, two keys. For doors 3/4 to 1-1/2 inches.

Fig. 918-DP — Regular Bevel With Box Strike.

Fig. 919-DP — Reverse Bevel With Flush Strike.

| Size Case Inches | Size Escutcheon Inches | Diameter Knob Inches | Backset Inches | Weight Per Box Pounds |
|------------------|------------------------|----------------------|----------------|-----------------------|
| 3-7/8x2 | 4-3/8x1-1/4 | 1-3/4 | 1-3/8 | 6-1/2 |

**One Lock Set Per Display Pack.
Five Display Packs Per Box.**

★
RIM LATCH SETS — Figs. 928-DP & 930-DP

Die Cast Zinc Alloy — Chromium Plated

With round knob and lever handle, no keys. Locked by thumb bolt inside. For doors 3/4 to 1-1/2 inches.

Fig. 928-DP — Regular Bevel With Box Strike.

Fig. 930-DP — Reverse bevel With Flush Strike.

| Size Case Inches | Size Escutcheon Inches | Diameter Knob Inches | Backset Inches | Weight Per Box Pounds |
|------------------|------------------------|----------------------|----------------|-----------------------|
| 2-1/8x1-3/4 | 4-3/8x1-1/4 | 1-3/4 | 1-3/8 | 4 |

**One Latch Set Per Display Pack.
Five Display Packs Per Box.**

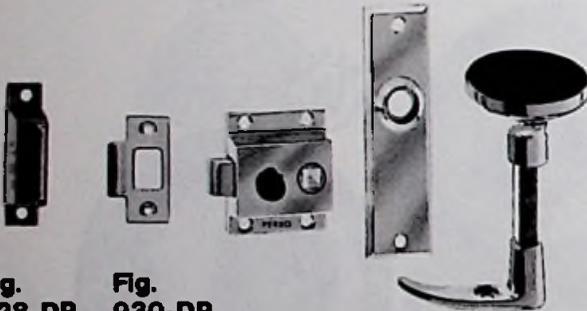


Fig. 928-DP

Fig. 930-DP

★
**OUTRIGGER POLE HOLDERS
SIDE OR DECK MOUNT TYPE**

**All Models Supplied With Polished
Stainless Steel Universal Tubes.**

**Fig. 451 No. 1-DP — Bronze, Chromium Plated Plates
Fig. 1314 No. 1-DP — Die Cast Zinc Alloy — Chromium
Plated Plates**

| Outside Diameter Tube Inches | Inside Diameter Tube Inches | Dimensions Plate Inches | Weight Per Box Pounds |
|------------------------------|-----------------------------|-------------------------|-----------------------|
| 1-1/4 | 1.120 | 5x2-1/2 | 16 |

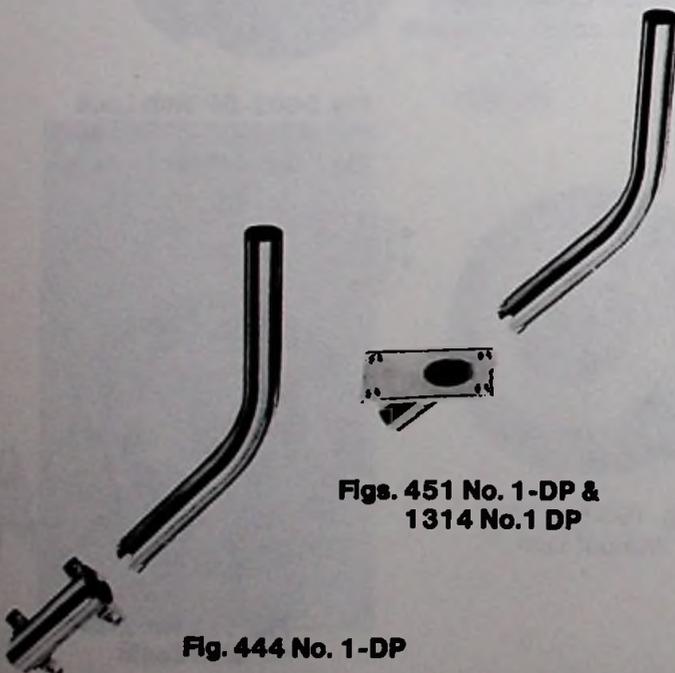
Fig. 444 No. 1-DP — Bronze, Chromium Plated Brackets.

| Outside Diameter Tube Inches | Inside Diameter Tube Inches | Dimensions Bracket Inches | Weight Per Box Pounds |
|------------------------------|-----------------------------|---------------------------|-----------------------|
| 1-1/4 | 1.120 | 4-1/2x3 | 15 |

**One Pair Per Display Pack.
Five Display Packs Per Box.**

NOTES: Pair consists of 2 plates, 2 tubes.

**Fig. 1314 No. 1-DP is designed for use only with
Fiberglass poles.**



**Figs. 451 No. 1-DP &
1314 No. 1 DP**

Fig. 444 No. 1-DP



NEW DISPLAY PACK SECTION



DECK MOUNT FISHING ROD HOLDERS

Fig. 452-DP — All Stainless Steel

Fig. 448 No. 1-DP — Bronze, Chromium Plated

**Fig. 1205-DP — Chromium Plated Flange, Anodized
Aluminum Tube**

All models feature soft black vinyl lip and full length inner liner.
Fig. 452-DP includes heavy gasket for under flange.

| Fig. | Inside Diameter Liner Inches | Outside Diameter Tube Inches | Length Under Flange Inches | Dimensions Flange Inches |
|--------------|---------------------------------------|---------------------------------------|----------------------------------|--------------------------------|
| 448 No. 1-DP | 1-5/8 | 2 | 8 | 4-1/4x3-1/2 |
| 1205-DP | 1-5/8 | 2 | 8 | 4-1/4x3-1/2 |
| 452-DP | 1-5/8 | 2 | 8-1/4 | 4-1/8x3-3/8 |

Weight Per Box, 6 Pounds.

**One Rod Holder Per Display Pack.
Five Display Packs Per Box.**



**Fig. 448 No. 1-DP
Fig. 1205-DP**



Fig. 452-DP

SIDE MOUNT FISHING ROD HOLDERS

Fig. 1100-DP — All Brass, Chromium Plated

**Fig. 1104-DP — Black Plastic With Chromium Plated
Brackets**

Fig. 1100-DP features a soft black vinyl lip and full length
inner liner.

| Inside Diameter Inches | Outside Diameter Inches | Length Overall Inches | Width Bracket Inches |
|------------------------------|-------------------------------|-----------------------------|----------------------------|
| 1-5/8 | 2 | 9 | 3 |

Weight Per Box, Fig. 1100-DP, 5-1/2 Pounds. Fig. 1104-DP, 3 Pounds.

**One Rod Holder Per Display Pack.
Five Display Packs Per Box.**



Fig. 1100-DP



Fig. 1104-DP

CLAMP-ON FISHING ROD HOLDER

**Fig. 1118-DP — Bronze, Chromium Plated With Soft Black
Vinyl Lip and Full Length Inner Liner.**

| Inside Diameter Liner Inches | Outside Diameter Tube Inches | Length Inches | For Rails Diameter Inches |
|---------------------------------------|---------------------------------------|------------------|------------------------------------|
| 1-5/8 | 2 | 9 | 3/4 to 1 |

Weight Per Box, 11 Pounds.

**One Rod Holder Per Display Pack.
Five Display Packs Per Box.**



Fig. 1118-DP



NEW DISPLAY PACK SECTION



Fig. 1330 No. 2-DP



Figs. 1430 No. 2-DP &
1530 No. 2-DP

"CHROMALEX"[®] REMOVABLE STERN POLE LIGHTS

Figs. 1330 No. 2-DP, 1430 No. 2-DP & 1530 No. 2-DP

Chromium Plated — Die Cast Zinc Alloy
Globe Holder and Base — Non Corrosive
Electric Sockets — Anodized Aluminum Tube.

Tightening Device with Built-in Alignment Feature Allows Easy
Insertion or Removal of Pole From Base.

Fig. 1330 No. 2-DP — Chromium Plated Base.

Fig. 1430 No. 2-DP — Chromium Plated Base
with Decorative Black Plastic Insert.

Fig. 1530 No. 2-DP — Chromium Plated Base
with Decorative Teak Plastic Insert.

| Fig. | Length Inches | Base Length Inches | Weight Per Box Pounds |
|---------------|------------------|--------------------------|-----------------------------|
| 1330 No. 2-DP | 24 | 3-3/8x1-5/8 | 5 |
| 1430 No. 2-DP | 24 | 3-3/4x1-1/2 | 5 |
| 1530 No. 2-DP | 24 | 3-3/4x1-1/2 | 5 |

One Light Per Display Pack.
Five Display Packs Per Box.



CHROMALEX[®] TELESCOPING STERN POLE LIGHTS

Figs. 1311 No. 2-DP, 1411 No. 2-DP & 1511 No. 2-DP

THESE UNITS ARE THE SAME BASIC DESIGN AND
CONSTRUCTION AS ABOVE EXCEPT THEY EXTEND TO A
MAXIMUM HEIGHT OF 24 INCHES OR A MINIMUM OF 5
INCHES.

One Light Per Display Pack.
Five Display Packs Per Box.



BRASS STERN POLE LIGHTS

Figs. 1126 No. 2-DP & 1209 No. 2-DP

Chromium Plated — Bronze Top —
Brass Base — Anodized Aluminum Tube.

Fig. 1126 No. 2-DP — Telescoping
Fig. 1209 No. 2-DP — Removable

| Length Inches | Base Length Inches | Weight Per Box Pounds |
|------------------|--------------------------|-----------------------------|
| 24 | 3-3/8x2-1/4 | 6 |

One Light Per Display Pack.
Five Display Packs Per Box.



COMBINATION BOW AND ANCHOR LIGHT

Fig. 1195-DP

Fold Down Assembly For Windshield Mounting — Chromium
Plated Top — Stainless Steel Mounting Bracket — Anodized
Aluminum Tube.

| Length Inches | Mounting Brackets Inches | Weight Per Box Pounds |
|------------------|--------------------------------|-----------------------------|
| 20 | 1-11/16x3 | 5 |

One Light Per Display Pack.
Five Display Packs Per Box.

Fig. 1195-DP

Sold To Trade In Full Box Only



Fig. 1311 No. 2-DP



Figs. 1411 No. 2-DP &
1511 No. 2-DP



Fig. 1209 No. 2-DP

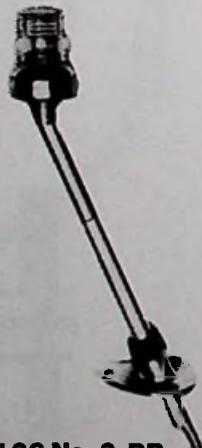


Fig. 1126 No. 2-DP

PERKO[®]

Chromalex[®] III

Lights and Deck Fittings

SECTION M



MANUFACTURED BY PERKO, INC., 16490 N.W. 13TH AVE., PO. BOX 64000-D, MIAMI, FLORIDA 33164
FOR COMPLETE LINE SEE CATALOG NO. 240

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Chromalex® III Lights

NATURAL TEAK COLOR

CHROMALEX® III offers the elegance of TEAK combined with strong functional hardware. The precision die cast bodies are protected by our exclusive PERKOPLATE seven step plating process for beauty and durability. The thick, high impact plastic inserts are ultra-sonically welded in place and like the tough ebony bases are impervious to fiberglass cleaners, including acetone and all the corrosive conditions of the sea.

PATENT NO. 3,828,714

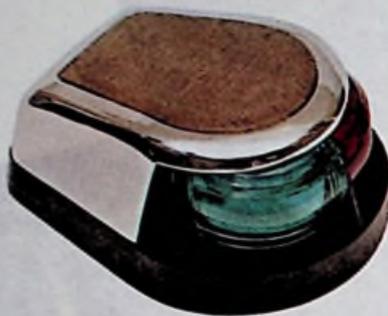


FIG. 1510

COMBINATION BOW LIGHT -- Fig. 1510

20 Points -- 225 Degrees -- 1 Mile Visibility

Red and Green Fresnel Lenses

Supplied with 12 Volt Lamp.

| Each | Size Base | Height Inches | Screw No. | Weight Ounces |
|------|-----------|---------------|-----------|---------------|
| | 4x3-1/8 | 1-7/8 | 8 | 5-1/2 |

OEM Package, 50.

Spare Lenses -- 283R-Red, 283-G Green.

Spark Lamps (Bulbs), See Fig. 71



FIG. 1511

STERN POLE LIGHTS

32 Points -- 360 Degrees -- 2 Mile Visibility

Modern Frosted Globes

Delrin Non-Corrosive Electric Sockets

Supplied with 12 Volt Lamp

FIG. 1511 -- TELESCOPING TYPE

Equipped with a Positive and Unique Tightening Device for Adjusting the Height or Removing the Pole from the Base. No Metal to Metal Contact or Threads to Corrode and Freeze up.

FIG. 1530 -- STOW-A-WAY TYPE

Has same Tightening Device as Fig. 1511. Female Double Contact Connector in Bottom of Pole, Male Connector in Mounting Base, Completes Contact When Pole is Inserted in Base. A Plastic Cap is Attached to Base to Waterproof the Opening when Pole is Removed.

| No. | Fig. 1511 Each | Fig. 1530 Each | Maximum Length Inches | Weight Pounds |
|-----|----------------|----------------|-----------------------|---------------|
| 2 | | | 24 | 7/8 |
| 3 | | | 30 | 1 |
| 4 | | | 36 | 1-1/8 |

Base Dimensions -- 3-5/8" Long, 1-1/2" Wide.

OEM Package, 50.

Spare Globes, Specify Fig. 201.

Spare Lamps (Bulbs), See Fig. 337 No. 12.

Spare Electric Sockets, See Fig. 24 No. 2.



FIG. 1530



FIG. 1505



FIG. 1515

FIG. 1505—CLOSED BASE CLEATS

For Screws or Bolts.

| No. | Each | Length Overall Inches | Base Inches | For Rope Inches | For Screw No. | Weight Ounces |
|-----|------|-----------------------|--------------|-----------------|---------------|---------------|
| 1 | | 4-1/2 | 3-3/4x1-1/16 | 3/8 | 10 | 5-1/2 |
| 2 | | 6 | 5 x1-3/8 | 1/2 | 1/4" | 11 |

O.E.M. Package, 50 Pieces.

FIG. 1515—CLOSED BASE CLEATS

With Studs, Nuts and Washers.

| No. | Each | Length Overall Inches | Base Inches | For Rope Inches | Stud Size | Weight Ounces |
|-----|------|-----------------------|--------------|-----------------|--------------|---------------|
| 1 | | 4-1/2 | 3-3/4x1-1/16 | 3/8 | 12-24x1-1/2 | 5-1/2 |
| 2 | | 6 | 5 x1-3/8 | 1/2 | 1/4-20x1-1/2 | 11 |

O.E.M. Package, Size No. 1—50 Pieces, Size No. 2—40 Pieces.



FIG. 1506



FIG. 1516

FIG. 1506—OPEN BASE CLEATS

For Screws or Bolts.

| No. | Each | Length Overall Inches | Base Inches | For Rope Inches | For Screw No. | Weight Ounces |
|-----|------|-----------------------|--------------|-----------------|---------------|---------------|
| 1 | | 4-1/2 | 2-1/2x1-1/16 | 3/8 | 10 | 5 |
| 2 | | 6 | 3-1/4x1-3/8 | 1/2 | 1/4" | 10 |
| 3 | | 8 | 3-7/8x1-1/2 | 3/4 | 1/4" | 12 |

O.E.M. Package, 50 Pieces.

FIG. 1516—OPEN BASE CLEATS

With Studs, Nuts and Washers.

| No. | Each | Length Overall Inches | Base Inches | For Rope Inches | Stud Size | Weight Ounces |
|-----|------|-----------------------|--------------|-----------------|--------------|---------------|
| 1 | | 4-1/2 | 2-1/2x1-1/16 | 3/8 | 12-24x1-1/2 | 5 |
| 2 | | 6 | 3-1/4x1-3/8 | 1/2 | 1/4-20x1-1/2 | 10 |
| 3 | | 8 | 3-7/8x1-1/2 | 3/4 | 1/4-20x1-1/2 | 12 |

O.E.M. Package, Size No. 1—50 Pieces, Size No. 2— 40 Pieces, Size No.3—30 Pieces.

CHROMALEX® I, II, and III fittings are precision cast to assure uniformity and interchangeability . . . a feature which eliminates costly jig and tooling changes for builders and allows the individual boat owner to change hardware styles with a minimum of effort. See Catalog No. 240 for complete details on CHROMALEX® I and II lights and deck fittings.

Chromalex® III Deck Fittings



FIG. 1512

FIG. 1512—COWL VENTILATOR

Designed for fast mounting.
No Screw Heads will show. Has integral Air Scoop.
No Hose Clamps Necessary—Duct threads into collar.

| Each | Mouth Opening Square Inches | Length Overall Inches | Width Overall Inches | Height Overall Inches | O.E.M. Package | Weight Ounces |
|------|-----------------------------|-----------------------|----------------------|-----------------------|----------------|---------------|
| | 7 | 5-3/4 | 4-3/8 | 2-5/8 | 50 | 11 |



Fig. 1513

FIG. 1513—GAS FILL

Cap has integral retainer feature and is equipped with gasket to assure water tightness of fill. Neck has bead for hose retention.
Designed to meet the requirements of U.S.C.G. Safety Standards, January 31, 1977

| Each | Diameter Overall Inches | Length Hose Neck Inches | For Hose Inches | For Screw No. | O.E.M. Package | Weight Ounces |
|------|-------------------------|-------------------------|-----------------|---------------|----------------|---------------|
| | 3-1/8 | 1-5/8 | 1-1/2 | 7 | 50 | 7 |



FIG. 1525

FIG. 1525—STEP PLATES

Die Cast Zinc Alloy Frames—Chromium Plated.
Molded Teak Plastic Non-Skid Pads.

| No. | Each | Overall Dimensions Inches | For Screw No. | Standard Package | Weight Ounces |
|-----|------|---------------------------|---------------|------------------|---------------|
| 0 | | 8-3/8x2-1/4 | 8 | 10 | 5 |
| 1 | | 8-3/4x3-1/4 | 8 | 10 | 5 |

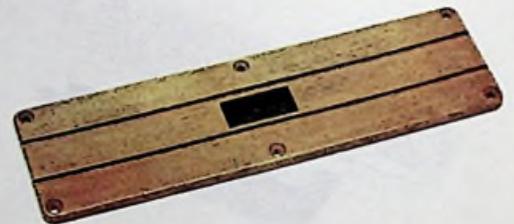


Fig. 1526

FIG. 1526—STEP PLATES

Molded Teak Plastic Non-Skid No Frame Required.

| No. | Each | Overall Dimensions Inches | For Screw No. | Standard Package | Weight Ounces |
|-----|------|---------------------------|---------------|------------------|---------------|
| 0 | | 9x2-1/4 | 8 | 10 | 2 |
| 1 | | 8-7/8x2-7/8 | 8 | 10 | 4 |

Note: To Boat Builders

These Step Plates Can Be Provided With Special Inserts Personalizing Company Name or Logo.
Manufacturing Quantities Only. Contact O.E.M. Sales Division for Full Details.

MANY OF THESE FITTINGS ARE AVAILABLE IN SKIN PACK, SEE CATALOG NO. 240, SECTION "L".

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