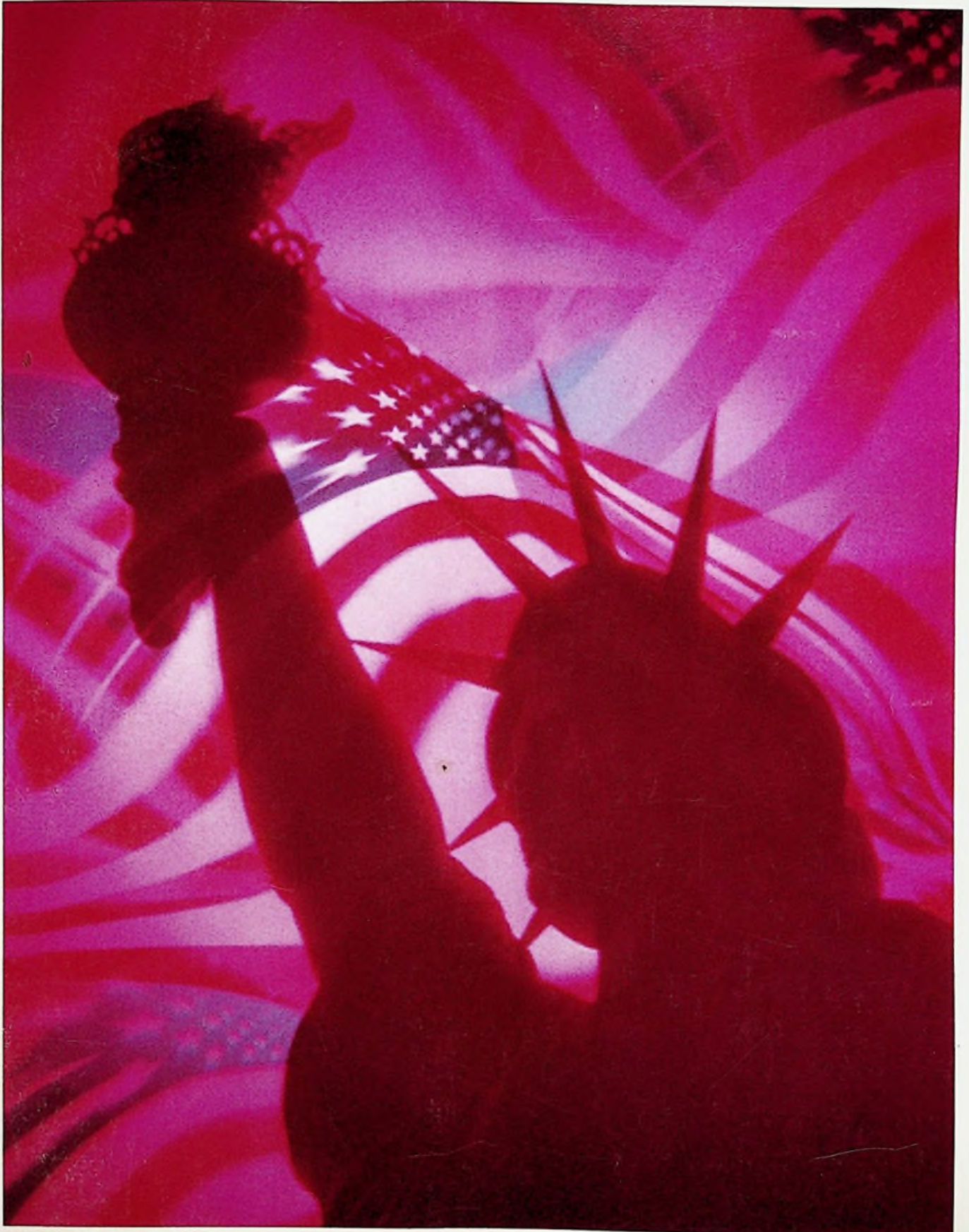


PERKO[®]_{INC}
We make it right. Right here.



The difference is distinctive.

Catalog No. 245

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

CATALOG NO. 245



SECTION — A
NAVIGATION LIGHTS FOR
VESSELS UNDER 65 FEET

SECTION — B
NAVIGATION LIGHTS FOR
VESSELS OVER 65 FEET

SECTION — C-D
ELECTRIC SWITCHES
BULBS, LIGHTING
FIXTURES

SECTION — E
SEARCHLIGHTS

SECTION — F-G
BLOWERS, VENTS
VENTILATORS
SINKS, PORTLIGHTS,
WINDOWS, BELLS

SECTION — H
STEERING EQUIPMENT
STRAINERS, FILTERS
UNDERWATER FITTINGS
DRAINS

SECTION — I
DECK HARDWARE
CLEATS, CHOCKS,
BOW EYES
RAIL FITTINGS

SECTION — J
CABINET &
DOOR HARDWARE
LOCKS, HINGES, ETC.

SECTION — K
FISHING
EQUIPMENT

SECTION — L
SKIN PACK

SECTION — S
SPARE PARTS

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Marvin S. Perkins
PRESIDENT

To Our Friends:

For over 75 years, Perko has been manufacturing hardware for the marine industry worldwide.

We're very proud of that fact. Proud that we were able to carry on the same philosophy the company was founded on . . . to design and manufacture the highest quality marine hardware possible.

It was that kind of pride that motivated Frederick Perkins in 1907 to start his own company — a tiny one-room manufacturing plant in Manhattan serving northeastern ship owners.

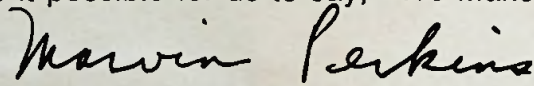
It is with that same pride that the company is still producing top quality products and has blossomed into the world's largest manufacturer of marine lights, hardware and accessories.

So, we're proud to say "We Make It Right." But, we're also proud to say we make it "Right Here."

It was this country that offered Frederick Perkins the opportunity of starting his own company. And, it was this country that enabled Perko to grow from one small room in New York to a 250,000 square foot manufacturing operation in Florida offering over 5,000 marine items.

It is this country that will enable Perko to expand further.

Therefore, it is with great pride that we dedicate our catalog cover to the people and country that have made it possible for us to say, "We Make It Right. Right Here."



Marvin Perkins
President

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Earl Henderson

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.

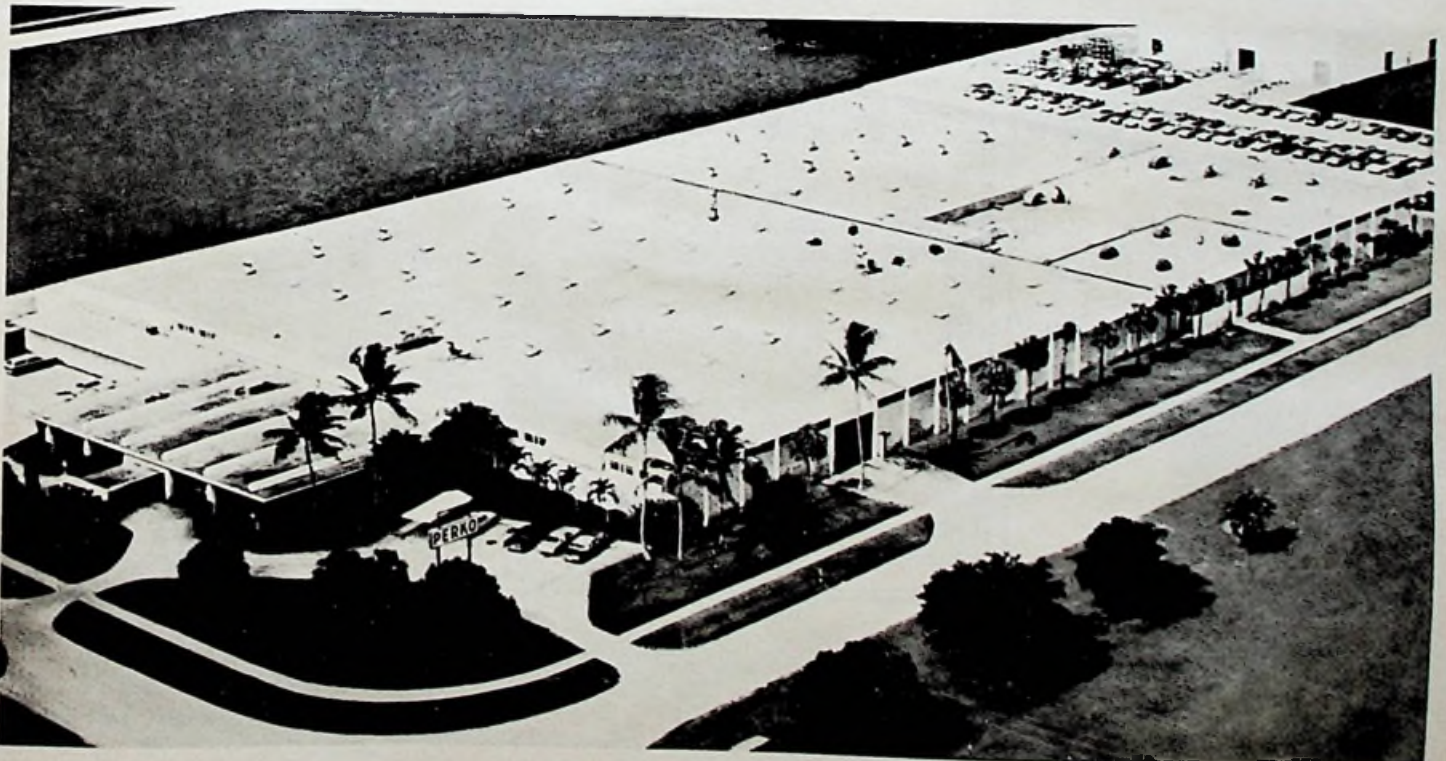
Upon the passing of Louis Perkins in 1964, Marvin continued to add to Perko's facilities. From an initial plant of 78,000 square feet, Perko's facilities now span approximately 250,000 square feet of office and manufacturing space. With this tremendous growth and expansion, you might think that the company 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 does 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 2% 10th prox. net 30 days. 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. Cash discounts do not apply to C.O.D. Shipments.

SALES POLICY

PERKO Products are sold through our established Distributors. We do not sell direct to the public or organizations. 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

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 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.

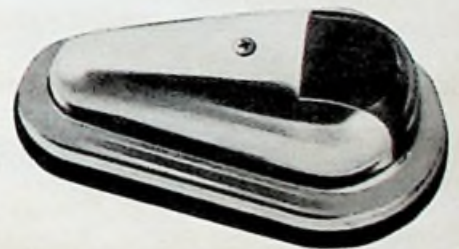
CONCEALED DAMAGE OR LOSS

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.

SECTION A

PERKO®

**CERTIFIED
NAVIGATION LIGHTS
FOR VESSELS
UNDER 20 METERS
(65.6 ft.)**



CERTIFICATION OF NAVIGATION LIGHTS FOR VESSELS UNDER 20 METERS (65.6 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 split. The U.S.C.G. regulates and enforces the configuration and carriage of lights on the vessel, but industry standards regulate the design, manufacture, and certification of the lights. At the moment, the only means of certification widely recognized in the United States is through the NMMA program discussed above.

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 its own testing and certification procedure, which differs from the U.S. procedure. This means that a navigation light certified to meet the 72 COLREGS 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 marking "A-16" on the light fixture indicates this certification.

FUTURE

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 new regulations 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.

INTERNATIONAL AND INLAND RULES

The U.S. Coast Guard has published rulemaking covering the technical details of navigation lights in accordance with both the International Rules (72 COLREGS) and the Inland Navigation Rules Act of 1980 (Public Law 96-591). These navigation rules are bound into a single volume and may be obtained from either the U.S. Coast Guard or the Superintendent of Documents by specifying "Comdtinst M16672.2".

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.

COMBINATION SIDE LIGHTS

CHROME PLATED TOPS — BLACK PLASTIC BASES — RED AND GREEN LENSES

1 MILE VISIBILITY — COMPLETE WITH 12 VOLT BULB

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

Patent No. 3,828,714

Size Base Inches	Height Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
4 x 3 1/8	1 7/8	8	1	50	5 1/2

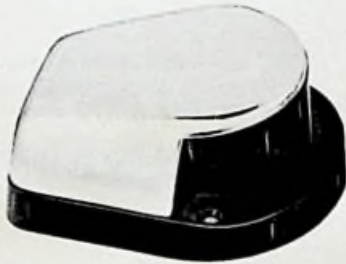


Fig. 1161 — Chrome Plated Bronze
Fig. 1310 — Chrome Plated Zinc

Fig. 1410 — Chrome Plated Zinc with Black Insert

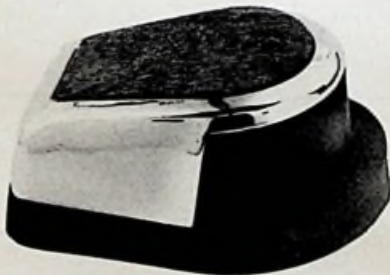
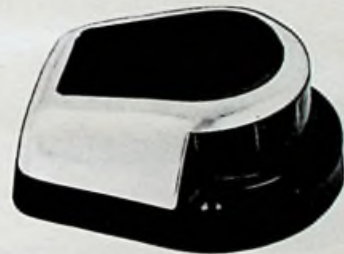
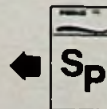


Fig. 1510 — Chrome Plated Zinc with Teak Insert

Figs. 1310 and 1510 available in Skin Pack, See Section L.



COMBINATION SIDE LIGHTS

RED AND GREEN LENSES — 1 MILE VISIBILITY — COMPLETE WITH 12 VOLT BULB
FOR USE ON SAIL* OR POWER DRIVEN VESSELS UNDER 12 METERS (39.4 FT.)



Fig. 1610

Fig. 1610
Black Plastic

Height Inches	Diameter Base Inches	Diameter Neck Inches	Length Neck Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1½	2¼	1	¾	8	1	50	2¼



Fig. 904

Figs. 904 & 972
Chrome Plated Brass Tops
Black Plastic Bases

Fig. 904

Height Inches	Length Inches	Width Inches	Screw Size	Standard Package	Weight Ounces
1¾	4¼	2½	4	1	3½



Fig. 972

Fig. 972

Height Inches	Diameter Base Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1¾	2¾	4	1	25	3



Fig. 1218

Fig. 1218
Chrome Plated Zinc

Height Inches	Size Base Inches	Staff Socket Inches	Screw Size	Standard Package	Weight Ounces
3¾	6¼x3¾	¾	8	1	12

*Fig. 1218 for use on power driven vessels only.

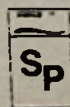


Fig. 972 and 1218 AVAILABLE IN SKIN PACK, SEE SECTION L.

COMBINATION SIDE LIGHTS STOW-A-WAY TYPE

**RED AND GREEN LENSES — 1 MILE VISIBILITY — COMPLETE WITH 12 VOLT BULB
FOR USE ON SAIL OR POWER DRIVEN VESSELS UNDER 12 METERS (39.4 FT.)
REMOVABLE LIGHT WITH WATERPROOF COVER FOR BASE**

Fig. 970

**Chrome Plated Brass Top
Chrome Plated Zinc Base**

Height Inches	Diameter Base Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
8½	2¼	8	1	50	8

Fig. 1612

**Black Plastic Top
Chrome Plated Zinc Base**

Height Inches	Diameter Base Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
8½	2¼	8	1	50	7

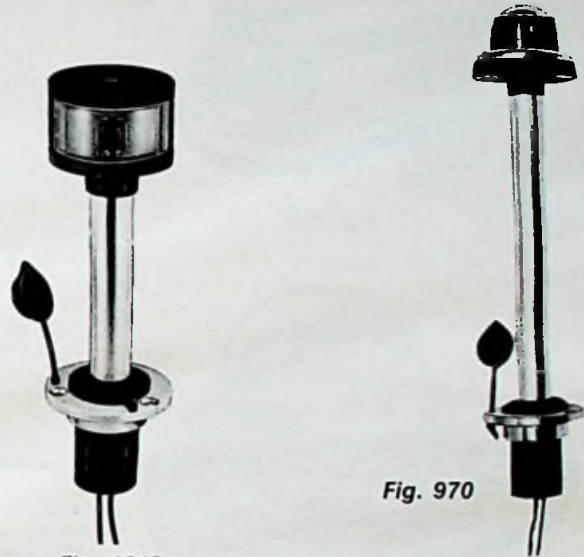


Fig. 1612

Fig. 970

TRI-COLOR MASTLIGHT

**BLACK PLASTIC TOP — CHROME PLATED ZINC BASE
COMBINATION RED AND GREEN — 1 MILE VISIBILITY
WHITE — 2 MILE VISIBILITY**

**COMPLETE WITH (2) 12 VOLT, 10 WATT BULBS
FOR USE ON VESSELS UNDER SAIL ALONE UNDER 12 METERS (39.4 FT.)**

Fig. 1201

Height Inches	Size Base Inches	C. to C. Mounting Holes	Screw Size	Standard Package	Weight Ounces
4¼	1x2½	1¼	8	1	7

Note: Base is easily Removable For
Mounting Light on 3/4" O.D. Tubing



Fig. 1201

SIDE LIGHTS

RED AND GREEN LENSES — 1 MILE VISIBILITY — COMPLETE WITH 12 VOLT BULB
 FOR USE ON SAIL* OR POWER DRIVEN VESSELS UNDER 12 METERS (39.4 FT.)

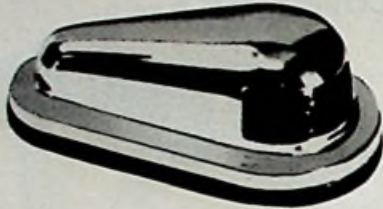


Fig. 915

Figs. 915, 955 & 963
 Chrome Plated Brass Tops
 Black Plastic Bases

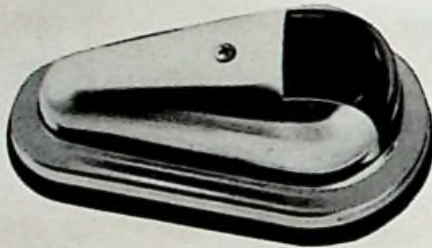
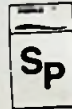


Fig. 955



Figs. 915 & 955

Length Inches	Width Inches	Projection Inches	Screw Size	Standard Package	O.E.M. Package	Weight Per Pair Ounces
4 1/4	2 3/8	1 3/4	4	1 pr.	10 pr.	7

Fig. 955 Available in Skin Pack, See Section L.



Fig. 963

Fig. 963

Height Inches	Diameter Base Inches	Screw Size	Standard Package	O.E.M. Package	Weight Per Pair Ounces
1 5/8	2 3/8	4	1 pr.	10 pr.	6

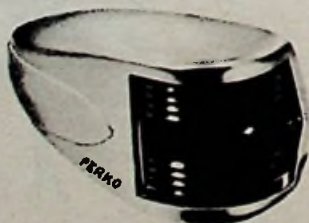


Fig. 1264

Fig. 1264
 Chrome Plated Zinc

Length Inches	Width Inches	Projection Inches	Screw Size	Standard Package	Weight Per Pair Pounds
5 1/2	3 1/8	1 3/4	8	1 pr.	1 3/4

* Fig. 1264 for use on power driven vessels only.

STERN LIGHTS

CLEAR LENS — 2 MILE VISIBILITY — COMPLETE WITH BULB
 FOR USE ON SAIL OR POWER DRIVEN VESSELS UNDER 20 METERS (65.6 FT.)

Figs. 945 & 965
Chrome Plated Brass Tops
Black Plastic Bases

For 12 Volts

Height (Projection) Inches	Diameter Base Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1 1/8	2 3/8	4	1	25	3

These items are available in Skin Pack. See Section L.

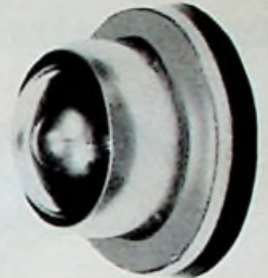


Fig. 945



Fig. 965

Figs. 939 & 946
Chrome Plated Brass
Black Plastic Bases

No. 1 for 12 Volts
 No. 2 for 32 Volts

Fig. 939

Dimensions Overall Inches	Depth Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
5 1/16 x 3 3/8	1 1/2	8	1	20	6

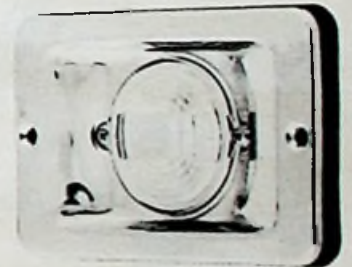


Fig. 939

Fig. 946

Diameter Inches	Depth Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
3	1 3/4	8	1	25	4

Fig. 946 No. 1 Available in Skin Pack, See Section L.

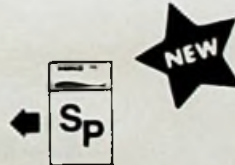


Fig. 946

Fig. 1332
Chrome Plated Zinc
Black Plastic Base

For 12 Volts

Height Inches	Width Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
3 3/4	1 1/2	5	1	50	4



Fig. 1332

ALL-ROUND WHITE LIGHTS TELESCOPING TYPE

CLEAR GLOBE — 2 MILE VISIBILITY — COMPLETE WITH 12 VOLT BULB
FOR USE ON POWER DRIVEN VESSELS UNDER 20 METERS (65.6 FT.)

CHROME PLATED TOPS AND BASES — 3/4" DIAMETER ANODIZED ALUMINUM TUBES

Figs. 1311 & 1148

Chrome Plated Zinc Tops and Bases



Fig. 1311

No.	Length Inches	Vertical Height Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
2	24	20	8	1	50	7/8
3	30	25½	8	1	50	1
4	36	31	8	1	50	1½

Base, Length 3¼", Width 1⅝".



Fig. 1311 No. 2 Available in Display Pack, See Section L.

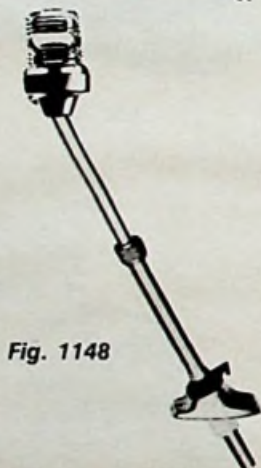


Fig. 1148

Double Telescoping

Minimum Length Inches	Maximum Length Inches	Vertical Height Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
6	52	46¾	8	1	50	1½

Base, Length 3¼", Width 1⅝".



Fig. 1126

Chrome Plated Brass Top and Base

No.	Length Inches	Vertical Height Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
2	24	21½	8	1	50	1
3	30	27¾	8	1	50	1½
4	36	32¾	8	1	50	1¾

Base, Length 3¾", Width 2¼".



Fig. 1126 No. 2 available in Display Pack, See Section L.

ALL-ROUND WHITE LIGHTS TELESCOPING TYPE

**WHITE GLOBE — 2 MILE VISIBILITY — COMPLETE WITH 12 VOLT BULB
FOR USE ON POWER DRIVEN VESSELS UNDER 20 METERS (65.6 FT.)**

CHROME PLATED ZINC TOPS AND BASES — 3/4" DIAMETER ANODIZED ALUMINUM TUBES

Figs. 1411 & 1511

No.	Length Inches	Vertical Height Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
2	24	21	8	1	50	7/8
3	30	26 3/4	8	1	50	1
4	36	32 1/2	8	1	50	1 1/4

Base, Length 3 1/2", Width 1 1/2".

Figs. 1411 & 1511 No. 2 Available in Display Pack, See Section L.



**Fig. 1411
with Black insert**



**Fig. 1511
with Teak insert**

Fig. 1611

No.	Length Inches	Vertical Height Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
2	24	19 1/2	8	1	50	7/8
3	30	25 1/4	8	1	50	1
4	36	31	8	1	50	1 1/4

Base, Length 3 1/4", Width 1 1/4".

Fig. 1611 No. 2 Available in Display Pack, See Section L.

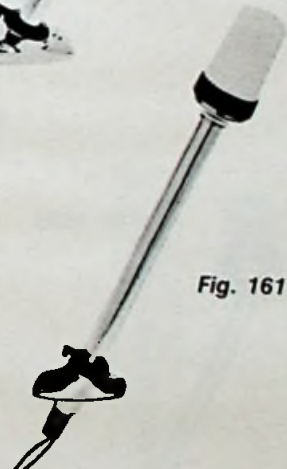
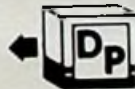


Fig. 1611

HALYARD EYES — Figs. 234 & 235
Black Plastic — Fits 3/4" Diameter Tubing
Standard Package, 10 pieces.



Fig. 234



**With Brass Snap
Fig. 235**

ALL-ROUND WHITE LIGHTS STOW-A-WAY TYPE

CLEAR OR WHITE GLOBE — 2 MILE VISIBILITY — COMPLETE WITH 12 VOLT BULB
FOR USE ON POWER DRIVEN VESSELS UNDER 20 METERS (65.6 FT.)

CHROME PLATED TOPS AND BASES — 3/4" DIAMETER ANODIZED ALUMINUM TUBES
REMOVABLE LIGHT WITH WATERPROOF COVER FOR BASE



Fig. 1330



Fig. 1330 & 1630

Chrome Plated Zinc Tops and Bases

Fig. 1330

No.	Length Inches	Vertical Height Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
2	24	19 $\frac{3}{8}$	8	1	50	1
3	30	26	8	1	50	1 $\frac{1}{8}$
4	36	31 $\frac{1}{8}$	8	1	50	1 $\frac{1}{4}$

Base, Length 3 $\frac{1}{4}$ ", Width 1 $\frac{1}{8}$ ".

Fig. 1330 No. 2 Available in Display Pack, See Section L.



Fig. 1630



Fig. 1630

No.	Length Inches	Vertical Height Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
2	24	19 $\frac{3}{8}$	8	1	50	1
3	30	25 $\frac{3}{8}$	8	1	50	1 $\frac{1}{8}$
4	36	31 $\frac{1}{4}$	8	1	50	1 $\frac{1}{4}$
6	48	42 $\frac{1}{2}$	8	1	50	1 $\frac{1}{2}$
7	54	47 $\frac{1}{8}$	8	1	50	1 $\frac{5}{8}$

Base, Length 3 $\frac{1}{4}$ ", Width 1 $\frac{1}{8}$ ".

Fig. 1630 No. 2 Available in Display Pack, See Section L.

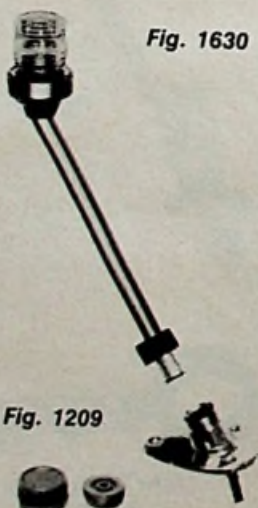


Fig. 1209



Fig. 1209

Chrome Plated Brass Top and Base

No.	Length Inches	Vertical Height Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
2	24	20 $\frac{3}{4}$	8	1	50	1
3	30	27 $\frac{3}{8}$	8	1	50	1 $\frac{1}{4}$
4	36	32 $\frac{3}{4}$	8	1	50	1 $\frac{1}{2}$

Base, Length 3 $\frac{3}{8}$ ", Width 2 $\frac{1}{4}$ ".

Fig. 1209 No. 2 Available in Display Pack, See Section L.

ALL-ROUND WHITE LIGHTS STOW-A-WAY TYPE

**WHITE GLOBE — 2 MILE VISIBILITY — COMPLETE WITH 12 VOLT BULB
FOR USE ON POWER DRIVEN VESSELS UNDER 20 METERS (65.6 FT.)**

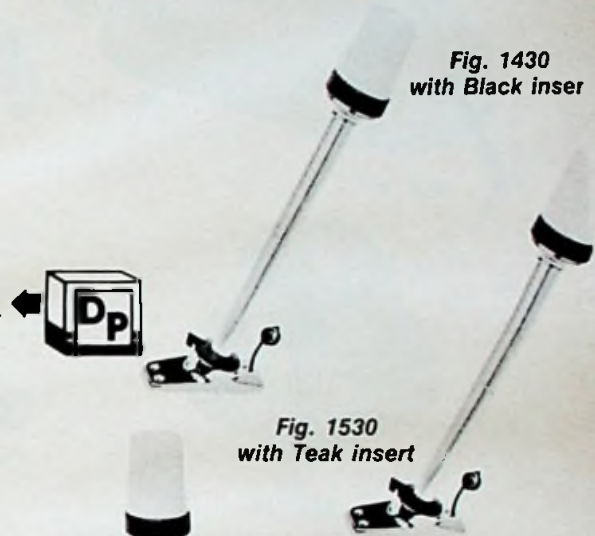
**CHROME PLATED ZINC TOPS and BASES — 3/4" DIAMETER ANODIZED TUBES
REMOVABLE LIGHT WITH WATERPROOF COVER FOR BASE**

Figs. 1430 & 1530

No.	Length Inches	Vertical Height Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
2	24	20½	8	1	50	1
3	30	27¼	8	1	50	1½
4	36	33¼	8	1	50	1¼

Base, Length 3½", Width 1½".

Figs. 1430 & 1530 Size No. 2 available in Display Pack, See Section L.



**Fig. 1530
with Teak insert**

Fig. 1631

No.	Length Inches	Vertical Height Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
5	42	42	8	1	50	1½
6	48	48	8	1	50	1½

Base, Diameter 2¼".

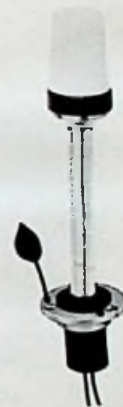


Fig. 1631

UNIVERSAL REPLACEMENT STOW-A-WAY TYPE — Fig. 1400-DP

This unit has been designed to fit PERKO Figs. 1330, 1430, 1530, 1630 and 1631 as well as many competitive pole light bases.

It is offered as an economical alternative to replacing an entire light fixture when only the pole section has been lost or damaged.

No.	Length Inches	Weight Pounds
1400 DP2	24	½
1400 DP3	30	¾
1400 DP4	36	¾
1400 DP5	42	1
1400 DP6	48	1
1400 DP7	54	1½

Note: All sizes are shipped in convenient, attractive Display Packages.

Standard Minimum Package, 10 pieces per size.



Fig. 1400-DP

ALL-ROUND WHITE LIGHTS

CLEAR, FROSTED OR WHITE GLOBE — 2 MILE VISIBILITY —
 COMPLETE WITH 12 VOLT BULB
 FOR USE ON POWER DRIVEN VESSELS UNDER 20 METERS (65.6 FT.)

FOLD DOWN WINDSHIELD MOUNT

Figs. 1134 & 1137

CHROME PLATED ZINC TOPS AND BASES
 ANODIZED ALUMINUM TUBES

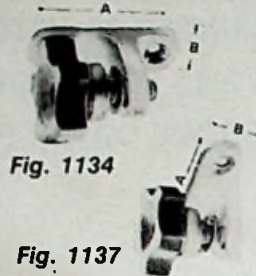


Fig. 1134

Fig. 1137

Height Inches	Vertical Height Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
13½	12¼	8	1	50	13

Mounting Bracket Dimensions Inches

	"A"	"B"
Fig. 1134	2	¾
Fig. 1137	2¼	¾

FIXED MOUNT

Figs. 455 & 1301

CHROME PLATED ZINC TOPS AND BASES
 ANODIZED ALUMINUM TUBES

Fig. 455



Fig. 1301



Fig. 455

No.	Height Inches	Vertical Height Inches	Size Base inches	Screw Size	Weight Ounces
1	6	5½	3 x 2½	8	12
2	12	10½	3 x 2½	8	16

Fig. 1301

Height Inches	Size Base Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
8	1 x 2½	8	1	50	7

Figs. 362 & 371

PRESSURE CAST BRONZE
 PLAIN BRONZE OR CHROME PLATED BRONZE



Fig. 362
Pipe Mount



Fig. 371
Surface Mount

Fig.	Height Inches	Diameter Base Inches	Screw Size	Tapped Pipe Size Inches	Weight Ounces
362	3¼	—	—	½	8
371	2½	2½	8 F.H.	—	10

ALL-ROUND WHITE LIGHTS

2 MILE VISIBILITY — CAST BRONZE — PLAIN BRONZE OR CHROME PLATED BRONZE
 BULBS NOT INCLUDED

Fig.	Height Inches	Diameter Base Inches	Screw Size	Tapped Pipe Size Inches	Weight Pounds
112	8¼	3¾	8	—	3¼
309	6½	—	—	½	2½

White, Specify Fig. No. and A or B
 Yellow, Specify Fig. No. and MA or MB
 Red, Specify Fig. No. and RA or RB
 Green, Specify Fig. No. and GA or GB

Figs. 112A & 309A

DOUBLE CONTACT BAYONET SOCKET FOR 12, 24, 32 OR 120 VOLTS
 FOR POWER DRIVEN VESSELS UNDER 50 METERS (164.0 FT.)
 USE FIG. 374 BULBS, SPECIFY VOLTAGE.

Figs. 112B & 309B

MEDIUM SCREW SOCKET FOR 12 OR 32 VOLTS
 FOR POWER DRIVEN VESSELS UNDER 20 METERS (65.6 FT.)

White & Yellow use Fig. 340 15 watt A-17 frosted Bulb, specify voltage.
 Red & Green use Fig. 340 25 watt A-19 frosted Bulb, specify voltage.



Fig. 112
Surface Mount



Fig. 309
Pipe Mount

MASTHEAD LIGHTS

CLEAR LENS — 2 MILE VISIBILITY — COMPLETE WITH 12 VOLT BULB
 FOR USE ON SAIL* OR POWER DRIVEN VESSELS UNDER 12 METERS (39.4 FT.)

Figs. 903 & 964
 Chrome Plated Brass Tops
 Black Plastic Bases

	Height Inches	Width Inches	Length Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
Fig. 903	1 3/4	2 3/8	4 1/4	4	1	—	4
Fig. 964	1 5/8	2 3/8	—	4	1	25	3

Fig. 964 available in Skin Pack, See Section L.

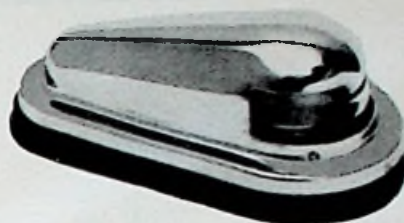
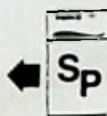


Fig. 903



Fig. 964

Fig. 1178
 Black Plastic and Chrome Plated Zinc Top
 Chrome Plated Zinc Base

Height Inches	Size Base Inches	Screw Size	Weight Ounces
4 1/4	1 x 2 3/8	8	7



Fig. 1178

Fig. 1331
 Chrome Plated Zinc
 Black Plastic Base

Height Inches	Width Inches	Screw Size	Weight Ounces
3 3/4	1 1/2	5	4



Fig. 1331

Fig. 1265
 Chrome Plated Zinc

Height Inches	Width Inches	Length Inches	Screw Size	Weight Ounces
3 1/4	3 3/8	6 1/4	8	12



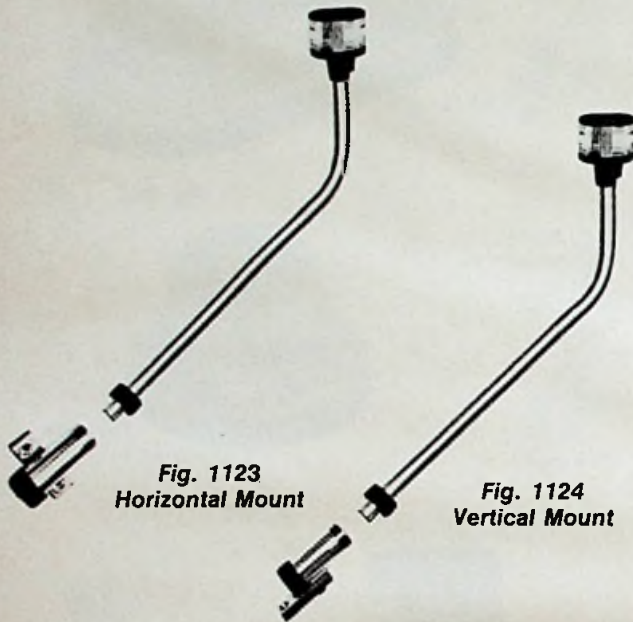
Fig. 1265

* Fig. 1265 For use on Power Driven Vessels only.



Patent No. 3,344,264

**COMBINATION MASTHEAD AND
FOR USE ON SAIL OR POWER DRIVEN
CLEAR LENSES — MEETS BOTH 2
AND 3 MILE VISIBILITY REQUIREMENTS**



**Fig. 1123
Horizontal Mount**

**Fig. 1124
Vertical Mount**

**STOW-A-WAY Figs. 1123, 1124 & 1125
BLACK PLASTIC AND CHROME PLATED ZINC TOPS
WITH WATERPROOF COVER FOR BASE**

**Figs. 1123 & 1124 WINDSHIELD MOUNT
CHROME PLATED ZINC MOUNTING BRACKETS
COMPLETE WITH PLASTIC ADAPTERS FOR
FLAT OR V-TYPE 45 DEGREE WINDSHIELDS**

No.	Length Inches	Vertical Height Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
1	13½	11½	8	1	50	1
2	26½	21½	8	1	50	1½

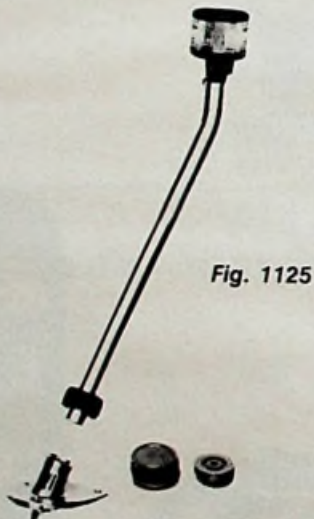


Fig. 1125

**Fig. 1125 DECK MOUNT
CHROME PLATED BRASS BASE**

No.	Length Inches	Vertical Height Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
4	36	32½	8	1	50	1½



Fig. 1192

**GLARE SHIELD — Fig. 1192
BLACK PLASTIC — FOR 3/4" O.D. TUBING
THIS SHIELD CAN BE INSTALLED
WITHOUT REMOVING LIGHT. MOUNTING
SCREWS SUPPLIED.**

Dimensions Inches	Standard Package	Weight Ounces
6 x 4½	5	3

ALL-ROUND WHITE LIGHTS

VESSELS UNDER 20 METERS (65.6 FT.)

3/4 DIAMETER ANODIZED ALUMINUM TUBES
COMPLETE WITH 2-12 VOLT BULBS



As a 360° All-Round Light

FOLD-DOWN WINDSHIELD MOUNT

Figs. 1181, 1182, 1184 & 1195

BLACK PLASTIC AND CHROME PLATED TOPS

Figs. 1181, 1182 & 1184

CHROME PLATED ZINC MOUNTING BRACKETS
ADJUSTABLE ANGLE — LIGHT CAN COMPENSATE
FOR ANGLE OF WINDSHIELD

Height Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
13 1/2	8	1	50	3/4

MOUNTING BRACKET DIMENSIONS (INCHES)

Fig.	"A"	"B"
1181	2	3/4
1182	2	3/4
1184	2 1/4	3/4

Fig. 1195

STAINLESS STEEL MOUNTING BRACKET
FOR 45 DEGREE WINDSHIELDS

Length Inches	Vertical Height Inches	Mounting Bracket Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
20	14	1 1/4 x 3	6 R.H.	1	10	7/8

FIXED MOUNT

Figs. 1183, 1196 & 1197

Fig. 1183

Height Inches	Size Base Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
4 1/4	1 x 2 3/4	8	1	50	1/2

Fig. 1197

Height Inches	Length Tubing Inches	Standard Package	Weight Pounds
5	1	1	1/2

Fig. 1196

No.	Height Inches	Size Base Inches	Screw Size	Standard Package	Weight Pounds
1	6	1 x 2 3/4	8	1	1/2
2	12	1 x 2 3/4	8	1	1/2

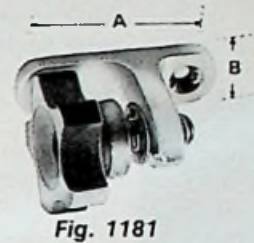


Fig. 1181



Fig. 1184

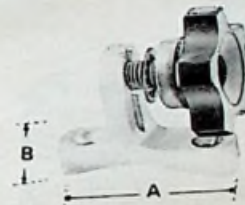
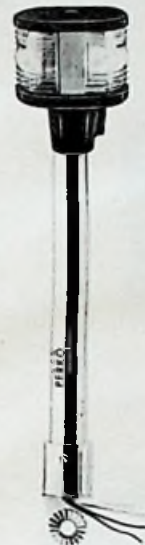


Fig. 1182



Fig. 1195



Fig. 1183



Fig. 1196



Fig. 1197

NAVIGATION LIGHTS

SHEET METAL — GALVANIZED STEEL OR POLISHED BRASS

FOR 12 OR 32 VOLTS — BULBS NOT INCLUDED

FOR USE ON POWER DRIVEN VESSELS UNDER 20 METERS (65.6 FT.)

Class	for Vessels	Height Inches	Screw Size	Weight Pounds
2	under 12 meters (39.4 ft.)	5	6	1½
3	under 20 meters (65.6 ft.)	6	6	2



Fig. 91F

SIDE LIGHTS — Fig. 91F
Red and Green Lenses

Half pair: Red, Specify 91 RF
Green, Specify 91 GF

MASTHEAD LIGHT — Fig. 98F
White Lens

STERN LIGHT — Fig. 99F
White Lens



Fig. 98F



Fig. 99F

BULB DATA FOR Figs. 91F, 98F & 99F						
For vessels under 12 meters (39.4 ft.)			For vessels under 20 meters (65.6 ft.)			
Fig.	Visibility Miles	12 V Bulb	Fig.	Visibility Miles	12 V Bulb	32 V Bulb
91F-C/2	1	70No.0	91F-C/3	2	70No.1	70No.2
98F-C/2	2	70No.0	98F-C/3	3	70No.1	70No.2
99F-C/2	2	70No.0	99F-C/3	2	70No.1	70No.2

NAVIGATION LIGHTS

SATIN CHROME PLATED ZINC — FOR 12 or 32 VOLTS — BULBS NOT INCLUDED

FOR USE ON POWER DRIVEN VESSELS UNDER 20 METERS (65.6 FT.)

Height Inches	Screw Size	Weight Pounds
5¼	10	2

SIDE LIGHTS — Fig. 109
Red and Green Lenses

Half pair: Red, Specify 109 R
Green, Specify 109 G

MASTHEAD LIGHT — Fig. 110
White Lens

STERN LIGHT — Fig. 111
White Lens

TOWING LIGHT — Fig. 111M
Yellow Lens



Fig. 109

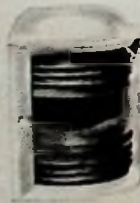


Fig. 110



Fig. 111 & 111M

BULB DATA FOR Figs. 109, 110, 111 & 111M			
For vessels under 20 meters (65.6 ft.)			
Visibility Miles	12 V Bulb	32 V Bulb	
2	70No.1	70No.2	
3	70No.1	70No.2	
2	70No.1	70No.2	
2	70No.1	70No.2	

NAVIGATION LIGHTS

SHEET METAL — GALVANIZED STEEL OR POLISHED BRASS
FOR 12 OR 32 VOLTS — BULBS NOT INCLUDED
FOR USE ON POWER DRIVEN VESSELS UNDER 20 METERS (65.6 FT.)

Class	for Vessels	Height Inches	Screw Size	Weight Pounds
2	under 12 meters (39.4 ft.)	7¼	10	2½
3	under 20 meters (65.6 ft.)	8½	10	3½

SIDE LIGHTS — Fig. 4F

RED AND GREEN LENSES

Half pair: Red, Specify 4 RF
 Green, Specify 4 GF.

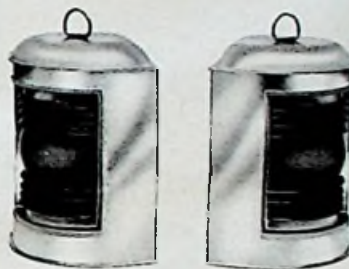


Fig. 4F

MASTHEAD LIGHTS — Fig. 5F & 5MF

WHITE OR YELLOW LENS*

*Note, Yellow available in Class 3 for special applications only, specify 5MF.

STERN LIGHT — Fig. 7F

WHITE LENS



Fig. 5F
 Fig. 5MF

TOWING LIGHT — Fig. 7MF

YELLOW LENS

Available in Class 3 only.



Fig. 7F
 Fig. 7MF

BULB DATA FOR ABOVE LIGHTS

For vessels under 12 meters (39.4 ft.)

Fig.	Visibility Miles	12 V Bulb
4F-C/2	1	70 No. 0
5F-C/2	2	70 No. 0
7F-C/2	2	70 No. 0

For vessels under 20 meters (65.6 ft.)

Fig.	Visibility Miles	12V Bulb	32V 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

MEAL AND ABSENT LIGHT — Fig. 329

CHROME PLATED BRONZE

Double Contact Sockets — Bulbs not included
 For Mounting on Yardarm. Supplied with
 Blue and White Globes



Fig. 329

Size Base Inches	Length Overall Inches	Diam. Globe Inches	Weight Pounds
3¾ x 1¼	9	2½	2

NAVIGATION LIGHTS

**BLACK PLASTIC — PRE-WIRED WITH 3 FEET OF 16/3 SJO CABLE
FOR 12, 24, 32 or 120 VOLTS — BULBS NOT INCLUDED
FOR USE ON POWER DRIVEN VESSELS UNDER 50 METERS (164.0 FT.)**

Height Inches	Size Base Inches	Bolt Size	Weight Pounds
7½	5¾x5¾	¼	3¼

Fig. No.	Description	Visibility Miles
1127-RA	Red Side Light	2
1127-GA	Green Side Light	2
1128-A	White Masthead Light	5
*1129-A	White Stern Light	2
1129-MA	Yellow Towing Light	2
*1130-A	White All-Round Light	2
**1130-HA	White All-Round Light	5
1130-RA	Red All-Round Light	2
1130-GA	Green All-Round Light	2
1130-MA	Yellow All-Round Light	2



Fig. 1127



Fig. 1128



Fig. 1129



Fig. 1130

*Note: These Lights are Supplied with a Gray Tinted Lens.

**For Great Lakes use.

BULB DATA FOR ABOVE LIGHTS

The above lights must use Bulb Type T-8, Double Contact Base,
1-3/8 L.C.L., C-8 Filament Clear, as follows:

Fig. No.	Voltage	Wattage	Candela
374-1	12	30	24
374-2	24	30	24
374-3	32	30	24
374-4	120	30	24

NAVIGATION LIGHTS

SHEET METAL — GALVANIZED STEEL OR POLISHED BRASS

OIL LIGHTS OFFERED FOR EMERGENCY USE ONLY

FOR USE ON POWER DRIVEN VESSELS UNDER 20 METERS (65.6 FT.)

Class	Height Inches	Screw Size	Weight Pounds
2	10½	10	3
3	12½	10	3½

SIDE LIGHTS

RED AND GREEN LENSES

OIL — *Figs. 17 & 19*

ELECTRIC — *Figs. 17F & 19F*

Half Pairs, Specify Fig. No. and R for Red or G for Green.



Fig. 17 Class 2
Fig. 19 Class 3



Fig. 18 Class 2
Fig. 20 Class 3



Fig. 97 Class 2
Fig. 102 Class 3

MASTHEAD LIGHTS

WHITE LENS

OIL — *Figs. 18 & 20*

ELECTRIC — *Figs. 18F & 20F*

STERN LIGHT

WHITE LENS

OIL — *Figs. 97 & 102*

ELECTRIC — *Figs. 97F & 102F*

TOWING LIGHT

YELLOW LENS

OIL — *Fig. 102M*

ELECTRIC — *Fig. 102MF*

BULB DATA FOR ABOVE LIGHTS

For vessels under 12 meters (39.4 ft.)			For vessels under 20 meters (65.6 ft.)			
Fig.	Visibility Miles	12 V Bulb	Fig.	Visibility Miles	12 V Bulb	32 V Bulb
17F	1	70 No. 0	19F	2	70 No. 1	70 No. 2
18F	2	70 No. 0	20F	3	70 No. 1	70 No. 2
97F	2	70 No. 0	102F	2	70 No. 1	70 No. 2

ALL-ROUND LIGHTS

WHITE LENS

SHEET METAL — GALVANIZED STEEL OR POLISHED BRASS

OIL LIGHTS OFFERED FOR EMERGENCY USE ONLY

FOR USE ON POWER DRIVEN VESSELS UNDER 20 METERS (65.6 FT.)

OIL — *Fig. 02 & 06*

ELECTRIC DOUBLE CONTACT — *Figs. 02A & 06A*

ELECTRIC MED. SCREW — *Fig. 06B*

Fig. No.	Height Inches	Weight Pounds
02	8¾	3¾
06	11¾	4¾



Fig. 0-6



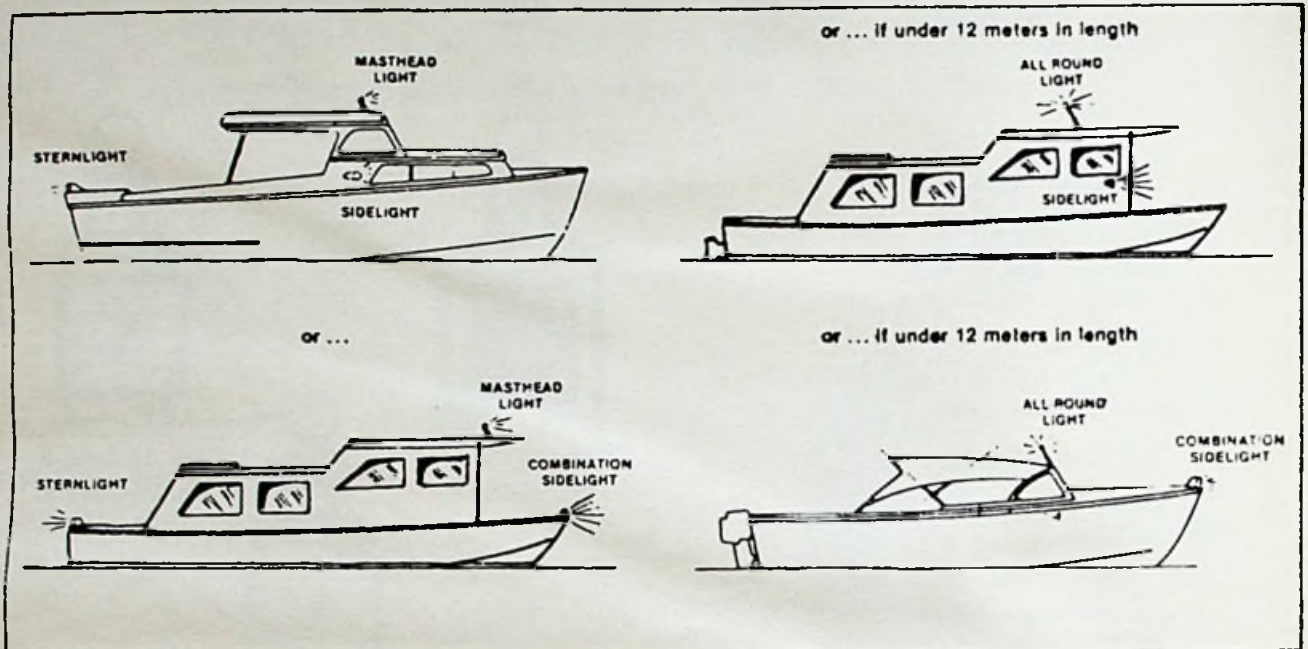
Fig. 0-2

D.C. Electric for use with No. 1004 Bulb.
Med. Screw Electric for use with 15 Watt A-17 Bulb.

**NAVIGATION LIGHTS — CONFIGURATION and POSITIONING REQUIREMENTS
FOR VESSELS UNDER 20 METERS (65.6 FT.)***

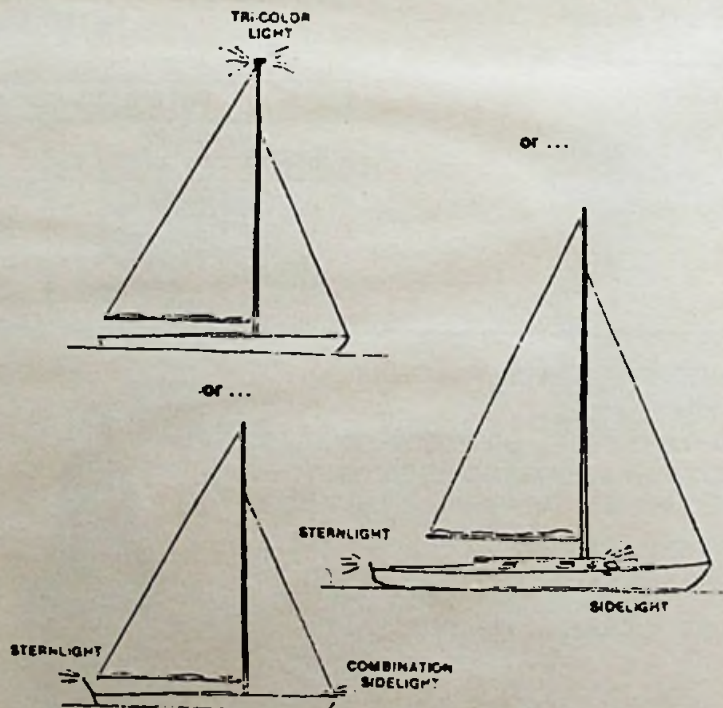
VESSELS UNDER POWER

Under 20 meters in length



VESSELS UNDER SAIL ALONE

Under 20 meters in length



*These selected examples of configurations, excerpted from the 1985 NMMA Certification Handbook are intended for illustration purposes only. For complete requirements on selection, positioning, configuration and installation, refer to the current editions of: NMMA Certification Handbook, ABYC Standard A-16, the U.S. Inland Navigation Rules, and the '72 COLREGS.

PERKO®

navigation lights
for vessels over
20 meters (65.6 ft.)
to meet the requirements
of the U.S. Coast Guard Under:
International Regulations
(72 COLREGS)
and
Inland Regulations
(Inland Navigation Rules Act of 1980)



REGULATIONS

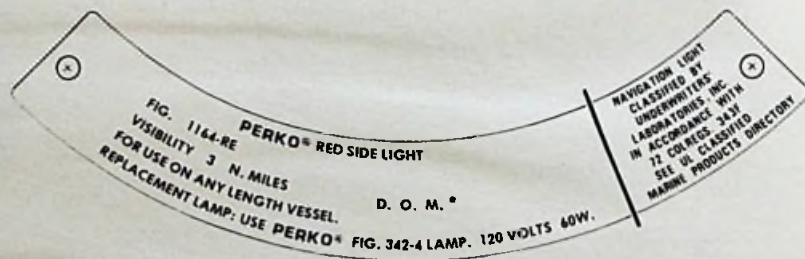
On March 31, 1977, the U.S. Coast Guard published in the Federal Register, an amendment to the navigation and navigable water regulations, which added a new subchapter DD, (33CFR 87). This subchapter contains rules implementing and interpreting the International Regulations for Preventing Collisions 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 vessels on the high seas must comply with the 72 COLREGS at this time. In addition, with the enactment of the U.S. Inland Navigation Rules Act of 1980, the Inland Rules, Western Rules, and Great Lakes Rules were unified into a single set of requirements. The effective date for this legislation was December 24, 1981 (March 1, 1983 for Great Lakes). Therefore, all vessels must comply with these rules at this time.

Rules 21 and 22 of the 72 COLREGS and the U.S. Inland Navigation Rules give the color and range requirements for various navigation lights, Annex 1 to the 72 COLREGS and the U.S. Inland Navigation Rules gives positioning and technical details for these lights.

FINAL ACCEPTANCE LIGHTS

All vessels are subject to either the 72 COLREGS or the U.S. Inland Rules. The U.S. Coast Guard is accepting lights that have passed the U.L. tests (U.L. Standard 1104) as meeting the 72 COLREGS and the U.S. Inland Rules for Vessels over 20 Meters (65.6 ft.) in length. (U.S. Requirements for smaller vessels are less strict). As the first and only domestic manufacturer to pass U.L. 1104, PERKO's "Final Acceptance" lights can be installed on vessels over 20 meters (65.6 ft.) in length.

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 both the 72 COLREGS and the U.S. Inland Rules 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-8 are "Final Acceptance" lights and have passed U.L. 1104. The facsimile of the tag shown above is used on our cast bronze lights. Similar rectangular tags are used on other style lights.

Please note that any changes made to PERKO navigation lights, including substitution of bulbs other than those shown in our catalog, instruction sheets, or metal tags (affixed to some lights) will void all certifications and/or U.S. Coast Guard acceptance.

SPECIAL PURPOSE LIGHTS

The lights shown on Pages B-9 through B-10 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, however Field Offices have been notified. For more detailed information, consult the complete 72 COLREGS, the U.S. Inland Rules, and your local Coast Guard office.

FINAL ACCEPTANCE LIGHTS

THE LIGHTS LISTED ON THIS PAGE HAVE BEEN TESTED BY UNDERWRITERS LABORATORIES, INC. TO U.L. STANDARD 1104 AND CLASSIFIED AS MEETING THE U.S. COAST GUARD REQUIREMENTS UNDER THE 72 COLREGS AND THE U.S. INLAND RULES FOR USE ON ANY LENGTH VESSEL.

**SINGLE LENS NAVIGATION LIGHTS
CAST BRONZE — WATERTIGHT**

Complete with a Pre-Wired Medium Prefocus Bulb Socket with 3 Feet of 16/3-SO Cable through a watertight terminal tube. Watertight access cap for rebulbing and cleaning. 120 Volt Bulbs Included.

SINGLE LENS TYPE



Height Overall Inches	Height Lens Inches	Weight Pounds
9 1/4	6 3/4	10

For Use On Any Length Vessel

Fig. No.	Description	Visibility Arc	Visibility Miles	Required Wattage
1172-RE	Red Side Light	112 1/2°	3	60
1172-GE	Green Side Light	112 1/2°	3	60
1173-E	White Masthead Light	225°	6	60
*1174-E	White Stern Light	135°	3	60
1174-ME	Yellow Towing Light	135°	3	60
*1169-E	White All-Round Light	360°	3	60
**1169-HE	White All-Round Light	360°	6	60
1170-RE	Red All-Round Light	360°	3	60
1170-GE	Green All-Round Light	360°	3	60
1170-ME	Yellow All-Round Light	360°	3	60

IMPORTANT BULB DATA

To comply with U.L. Standard 1104, the lights listed on this page must use Perko Fig. 342-4 Bulbs.

*Note: These lights are supplied with Gray Tinted Lens.

**For Great Lakes use.

FINAL ACCEPTANCE LIGHTS

THE LIGHTS LISTED ON THIS PAGE HAVE BEEN TESTED BY UNDERWRITERS LABORATORIES, INC. TO U.L. STANDARD 1104 AND CLASSIFIED AS MEETING THE U.S. COAST GUARD REQUIREMENTS UNDER THE 72 COLREGS AND THE U.S. INLAND RULES FOR USE ON ANY LENGTH VESSEL.

**DOUBLE LENS NAVIGATION LIGHTS
CAST BRONZE — WATERTIGHT**

Each section contains a Pre-Wired Medium Prefocus Bulb Socket with 3 Feet of 16/3-SO Cable through a watertight terminal tube. Watertight access cap for rebulbing and cleaning. 120 Volt Bulbs Included.

DOUBLE LENS TYPE



Height Overall Inches	Height Lens Inches	Weight Pounds
17¼	6¾	18¼

For Use On Any Length Vessel

Fig. No.	Description	Visibility Arc	Visibility Miles	Required Wattage
1164-RE	Red Side Light	112½°	3	60
1164-GE	Green Side Light	112½°	3	60
1165-E	White Masthead Light	225°	6	60
*1166-E	White Stern Light	135°	3	60
1166-ME	Yellow Towing Light	135°	3	60
*1167-E	White All-Round Light	360°	3	60
**1167-HE	White All-Round Light	360°	6	60
1168-RE	Red All-Round Light	360°	3	60
1168-GE	Green All-Round Light	360°	3	60
1168-ME	Yellow All-Round Light	360°	3	60

IMPORTANT BULB DATA

To comply with U.L. Standard 1104, the lights listed on this page must use Perko Fig. 342-4 Bulbs.

*Note: These lights are supplied with Gray Tinted Lens.

**For Great Lakes use.

FINAL ACCEPTANCE LIGHTS

THE LIGHTS LISTED ON THIS PAGE HAVE BEEN TESTED BY UNDERWRITERS LABORATORIES, INC. TO U.L. STANDARD 1104 AND CLASSIFIED AS MEETING THE U.S. COAST GUARD REQUIREMENTS UNDER THE 72 COLREGS AND THE U.S. INLAND RULES FOR USE ON VESSEL LENGTHS AS SPECIFIED BELOW.

NAVIGATION LIGHTS

Sheet Metal — Galvanized Steel*, Plain Brass or Polished Brass — Rebulbing Cap — Medium Prefocus Bulb Socket — Terminal Tube for Cable Entrance — Bulbs Not Included

No.	Height Lens Inches	Height Light Inches	Weight Pounds
1	6¾	11½	8
2	7½	13½	12

For Vessels under 50 Meters (164.0 ft.)

Fig. No.	Description	Visibility Arc	Visibility Miles	Required Wattage**
1150-RE1	Red Side Light	112½°	2	25
1150-GE1	Green Side Light	112½°	2	25
1151-EO1	White Masthead Light	225°	5	40
1152-EO1	White Stern Light	135°	2	7.5
1152-ME1	Yellow Towing Light	135°	2	7.5
1153-EO1	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

IMPORTANT BULB DATA

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



Fig. 1150



Fig. 1151

For Use On Any Length Vessel

Fig. No.	Description	Visibility Arc	Visibility Miles	Required Wattage**
1150-RE2	Red Side Light	112½°	3	60
1150-GE2	Green Side Light	112½°	3	60
1151-EO2	White Masthead Light	225°	6	60
1152-EO2	White Stern Light	135°	3	25
1152-ME2	Yellow Towing Light	135°	3	25
1153-EO2	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



Fig. 1152



Figs. 1153 & 1154

*GALVANIZED STEEL LIGHTS ARE PREPRIMED
**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-13D Filament.

FINAL ACCEPTANCE LIGHTS

THE LIGHTS LISTED ON THIS PAGE HAVE BEEN TESTED BY UNDERWRITERS LABORATORIES, INC. TO U.L. STANDARD 1104 AND CLASSIFIED AS MEETING THE U.S. COAST GUARD REQUIREMENTS UNDER THE 72 COLREGS AND THE U.S. INLAND RULES FOR USE ON ANY LENGTH VESSEL.

**ALL-ROUND LIGHTS
CAST BRONZE — MEDIUM PREFOCUS BULB SOCKET
120 VOLT BULBS INCLUDED**

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



Fig. No.	Height Overall Inches	Height Lens Inches	Tapped Pipe Size Inches	Weight Pounds
403-3	11½	6¾	1	9½
412	14	6¾	—	11½
454	11½	6¾	1	9½

For use on any Length Vessel

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



Fig. 403-3
Fig. 454

**Fig. 454-E White Whistle Light —
Visibility 5 Miles with Fig. 342-4 Bulb.**



Fig. 412

***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, Fig. 342-4, 60 watts.

**Note: These Lights are Supplied with Gray Tinted Lens.

FINAL ACCEPTANCE LIGHTS

THE LIGHTS LISTED ON THIS PAGE HAVE BEEN TESTED BY UNDERWRITERS LABORATORIES, INC. TO U.L. STANDARD 1104 AND CLASSIFIED AS MEETING THE U.S. COAST GUARD REQUIREMENTS UNDER THE 72 COLREGS AND THE U.S. INLAND RULES FOR USE ON VESSELS UNDER 50 METERS (164.0 ft.)

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

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

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 Lens Inches		Weight Pounds Each	
	8½	5⅞	3¼	



Fig. 4



Fig. 5



Figs. 7 & 7M

****BULB DATA FOR ABOVE LIGHTS.**

Above Lights 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

**ALL-ROUND LIGHTS — FOR VESSELS UNDER 50 METERS (164.0 ft.)
CAST BRONZE — PLAIN OR CHROME PLATED BRONZE —
DOUBLE CONTACT ELECTRIC SOCKET FOR 12, 24, 32 OR 120 VOLTS — BULBS NOT INCLUDED
For Use With Fig. 374 Bulbs, Specify Voltage**



Fig. 112A



All-Round Lights
360 Degrees



Fig. 309A

Fig. No.	Height Overall Inches	Diameter Base Inches	Screw Size	Tapped Pipe Size Inches	Weight Pounds
112	8¾	3¾	8	—	3¾
309	6½	—	—	½	2½

NOTE: WHEN ORDERING, SPECIFY FINISH.

Fig. No.	Description	Visibility Miles
112A & 309A	White All-Round Light	2
112MA & 309MA	Yellow All-Round Light	2
112RA & 309RA	Red All-Round Light	2
112GA & 309GA	Green All-Round Light	2

FINAL ACCEPTANCE LIGHTS

THE LIGHTS LISTED ON THIS PAGE HAVE BEEN TESTED BY UNDERWRITERS LABORATORIES, INC. TO U.L. STANDARD 1104 AND CLASSIFIED AS MEETING THE U.S. COAST GUARD REQUIREMENTS UNDER THE 72 COLREGS AND THE U.S. INLAND RULES FOR USE ON VESSELS UNDER 50 METERS (164.0 ft.)

NAVIGATION LIGHTS

BLACK PLASTIC — PRE-WIRED DOUBLE CONTACT SOCKET WITH 3 FEET OF 16/3 SJO CABLE FOR 12, 24, 32 or 120 VOLTS — BULBS NOT INCLUDED

Height Overall Inches	Height Lens Inches	Weight Pounds
7½	4½	3½



Red & Green Side Lights
112½ Degrees

Fig. No.	Description	Visibility Arc	Visibility Miles
1127-RA	Red Side Light	112½°	2
1127-GA	Green Side Light	112½°	2
1128-A	White Masthead Light	225°	5
*1129-A	White Stern Light	135°	2
1129-MA	Yellow Towing Light	135°	2
*1130-A	White All-Round Light	360°	2
**1130-HA	White All-Round Light	360°	5
1130-RA	Red All-Round Light	360°	2
1130-GA	Green All-Round Light	360°	2
1130-MA	Yellow All-Round Light	360°	2

*Note: These Lights are Supplied with a Gray Tinted Lens.
**For Great Lakes use.



Masthead Lights
225 Degrees



Stern or Towing Lights
135 Degrees



All-Round Lights
360 Degrees



Fig. 1129 BA

PANAMA CANAL BLUE STEERING LIGHT — Fig. 1129 BA
Black Plastic — Pre-Wired Double Contact
Socket with 3 Feet of 16/3 SJO Cable
For 12, 24, 32 or 120 Volts — Bulb Not Included

Visibility Arc	Height Overall Inches	Height Lens Inches	Weight Pounds
135°	7½	4½	3½

BULB DATA FOR ABOVE LIGHTS

The above lights must use Bulb Type T-8, Double Contact Base, 1-3/8 L.C.L., C-8 Filament Clear, as follows:

Fig. No.	Voltage	Candela
374-1	12	24
374-2	24	24
374-3	32	24
374-4	120	24

SPECIAL PURPOSE LIGHTS

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

**SINGLE LENS NAVIGATION LIGHTS
CAST BRONZE — WATERTIGHT**

Complete with a prewired medium prefocus bulb socket and 3 feet of 16/3-SO Cable through a watertight terminal tube. Watertight access cap for rebulbing and cleaning. 120 Volt Bulbs Included.

SINGLE LENS TYPE



Height Overall Inches	Height Lens Inches	Weight Pounds
9¼	6¼	10

For Use on Any Length Vessel

Fig. No.	Description	Visibility Arc	Visibility Miles	Required Wattage
1171-RE	Red Dredging Light	45°	3	60
1173-RE	Red Masthead Light	225°	3	60
1173-ME	Yellow Masthead Light	225°	3	60
1174-RE	Red Stern Light	135°	3	60

SPECIAL FLASHING YELLOW LIGHT — Fig. 1111 ME

SHEET METAL — GALVANIZED STEEL OR PLAIN BRASS

TOP OPENING — MEDIUM PREFOCUS SOCKET, SEALED FLASHER UNIT

Height Lens Inches	Visibility Miles	Height Light Inches	Weight Pounds
6¼	2	11½	8

Designed to meet Federal Requirements for a flashing yellow 180°-225° light for barges, canal boats, etc., that are being pushed ahead or towed along side of a tug boat. For use on 120 volts A.C. only. The Federal Requirements for this light are applicable for inland waters, the Atlantic and Pacific Coasts, Gulf Coast, Gulf Intracoastal Waterways and Western Rivers. Flashes 50-70 times per minute. Refer to the U.S. Inland Navigation Rules for application, configuration and technical details.



Fig. 1111ME

BULB DATA

All Lights on this page must use Perko Fig. 342-4 Bulbs.

SPECIAL PURPOSE LIGHTS

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

**DOUBLE LENS NAVIGATION LIGHTS
CAST BRONZE — WATERTIGHT**

Each section contains a prewired medium prefocus bulb socket with 3 feet of 16/3-SO Cable through a watertight terminal tube. Watertight access cap for rebulbing and cleaning. 120 Volt Bulbs Included.

DOUBLE LENS TYPE



Height Overall Inches	Height Lens Inches	Weight Pounds
17¼	6¼	18¼

For Use on any Length Vessel

Fig. No.	Description	Visibility Arc	Visibility Miles	Required Wattage
1165-RE	Red Masthead Light	225°	3	60
1165-ME	Yellow Masthead Light	225°	3	60
1165-REL	White/Red Masthead Light	225°	6/3	60/60
1166-RE	Red Stern Light	135°	3	60
*1168-REL	White/Red All-Round Light	360°	3/3	60/60

*Note: These Lights are Supplied with a Gray Tinted Lens.

BULB DATA

The above lights Must use Perko Fig. 342-4 Bulbs.

SPECIAL PURPOSE LIGHTS

THE LIGHTS LISTED ON THIS PAGE ARE OFFERED FOR EMERGENCY USE ONLY. THEY MAY BE USED ON VESSELS OVER 20 METERS (65.6 FT.)

**EMERGENCY OIL NAVIGATION LIGHTS FOR VESSELS OVER 20 METERS (65.6 FT.)
SHEET METAL — GALVANIZED STEEL*, PLAIN BRASS OR POLISHED BRASS
Turret Top — Bottom Opening**

No.	Height Lens Inches	Height Light Inches	Weight Pounds
1	6¾	15	7
2	7½	18	10½

Recommended For Vessels 20 Meters to 50 Meters
(65.6 ft. to 164.0 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°



Fig. 21



Fig. 982

Recommended For Vessels Over 50 Meters
(164.0 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°

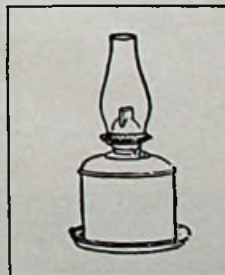


Fig. 985



Figs. 23 & 129

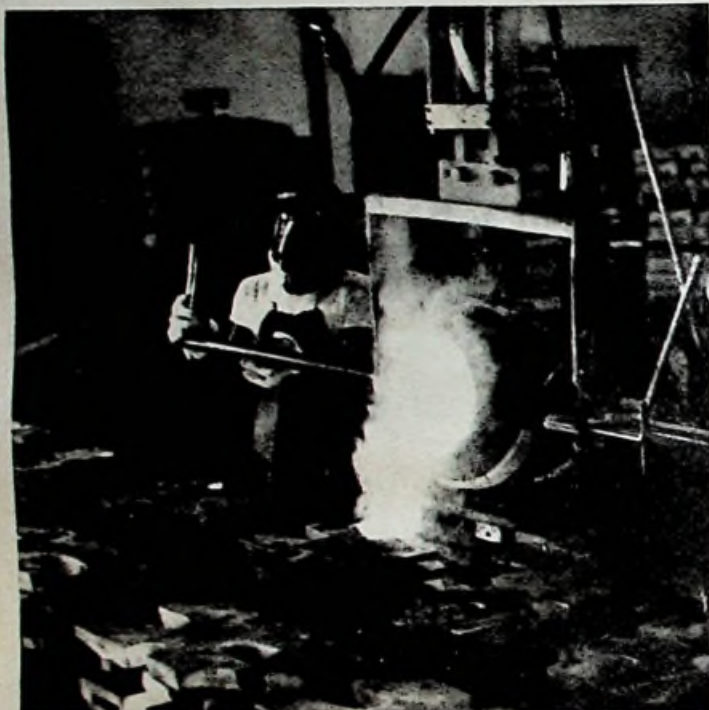
*GALVANIZED STEEL LIGHTS ARE PREPRIMED



Oil Lamp in
Base of Light

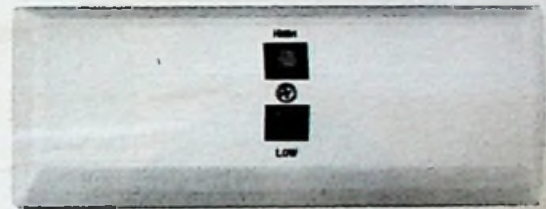
FOUNDRY OPERATIONS

Perko has two complete non-ferrous foundry operations, both of which enable us to control the production of our high quality brass, bronze and aluminum castings. Our hand-mold foundry is used for larger and special production castings while our recently completed automated foundry is the newest state-of-the-art equipment available which has enabled us to dramatically increase production on high volume runs while maintaining the quality of our castings.



SECTION C-D

PERKO®



**SWITCHES, PANELS,
LIGHTING FIXTURES,
AND OTHER
ELECTRICAL EQUIPMENT**



MANUFACTURED BY PERKO, INC. 16490 N.W. 13TH AVE., P.O. BOX 64000-D, MIAMI, FLORIDA 33164-0414
FOR COMPLETE LINE SEE CATALOG NO. 245

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**BATTERY SELECTOR SWITCHES
8500 SERIES
IGNITION PROTECTED**

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 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 the following U.S. Patents; Design 260,637 — 4,280,028 — 4,424,424

Surface Mount — Red Plastic Housing with Improved Design to Protect Electrical Connections — Large Black Plastic Knob — Copper Contacts — Brass Terminals
For use with systems under 50 volts

Capacity
250 AMPS Continuous
360 AMPS Intermittent

Diameter
Inches
5 1/4

Depth
Inches
2 3/4

Standard
Package
5

Weight
Pounds
1



Fig. 8501 without Key Lock



Fig. 8502 with Key Lock

ALTERNATOR FIELD DISCONNECT MODELS

The advantage of these models is that accidental switching to the "OFF" position with the engine running will not damage the alternator.



Fig. 8503 without Key Lock
with Field Disconnect Feature



Fig. 8504 with Key Lock
with Field Disconnect Feature

*For Dual Engine Systems, 2 Switches are required.

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

**MAIN BATTERY SWITCHES
9600 SERIES
IGNITION PROTECTED
ON-OFF TYPE**

AVAILABLE WITH KEY LOCK OPTION FOR EXTRA THEFT PROTECTION

Protected by the following U.S. Patents; Design 260,637 — 4,280,028 — 4,424,424

Surface Mount — Red Plastic Housing with Improved Design to Protect Electrical Connections — Large Black Plastic Knob — Copper Contacts — Brass Terminals
For use with systems under 50 volts

Capacity

250 AMPS Continuous

360 AMPS Intermittent

Diameter

Inches

5¼

Depth

Inches

2⅝

Standard

Package

5

Weight

Pounds

1



Fig. 9601 without Key Lock



Fig. 9602 with Key Lock

ALTERNATOR FIELD DISCONNECT MODELS

The advantage of these models is that accidental switching to the "OFF" position with the engine running will not damage the alternator.

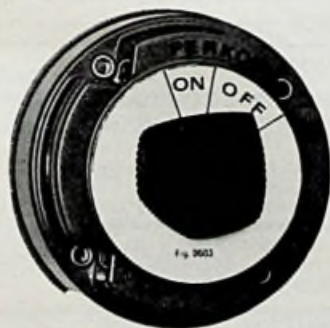


Fig. 9603 without Key Lock
with Field Disconnect Feature



Fig. 9604 with Key Lock
with Field Disconnect Feature

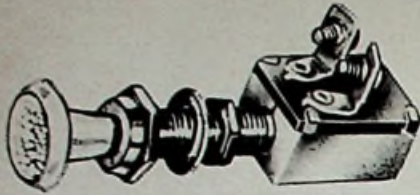
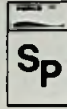


Fig. 105



PUSH-PULL SWITCHES — Fig. 105

Brass Body — Chrome Plated Brass Face Nut — Chrome Plated Plastic Knob

2 Position: Off-On — 15 Amps at 12 Volts

Size	For Wood Thickness Inches	Diameter Neck Inches	Length Overall Inches	Standard Package	O.E.M. Package	Weight Ounces
1	1	3/8	3	10	50	2
2	1 1/4	3/8	3 3/4	10	50	2 1/2

Fig. 105 No. 1 available in SKIN PACK, See Section L.

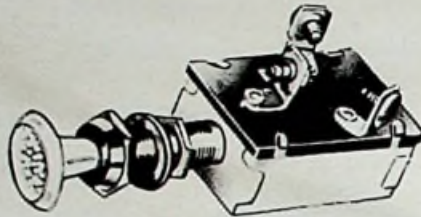


Fig. 321

PUSH-PULL SWITCH — Fig. 321

Brass Body — Chrome Plated Brass Face Nut — Chrome Plated Plastic Knob

3 Position: Off-On-On — 15 Amps at 12 Volts

First "On" Position Energizes One Terminal

Second "On" Position Energizes the Other Terminal

For Wood Thickness Inches	Diameter Neck Inches	Length Overall Inches	Standard Package	Weight Ounces
1	3/8	3 3/4	10	3 3/4

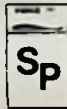
PUSH-PULL SWITCH — Fig. 366

Brass Body — Chrome Plated Brass Face Nut — Chrome Plated Plastic Knob

3 Position: 2 Circuit — Off-On-On — 15 Amps at 12 Volts

For use with Combination Masthead and All-Round Lights together with running lights. Second "On" Position turns off running lights and turns on both compartments of masthead — All-Round Light.

For Wood Thickness Inches	Diameter Neck Inches	Length Overall Inches	Standard Package	O.E.M. Package	Weight Ounces
1	3/8	3 3/4	10	50	3 1/4



This item available in SKIN PACK, See Section L.

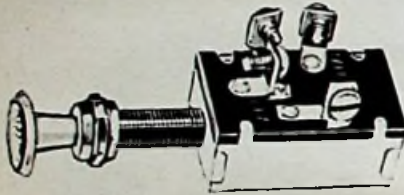


Fig. 366

PUSH-PULL SWITCH — Fig. 381

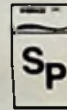
Brass Body — Chrome Plated Brass Face Nut — Chrome Plated Plastic Knob

3 Position: Off-On-On — 15 Amps at 12 Volts

First "On" Position Energizes One Terminal

Second "On" Position Energizes Two Terminals.

For Wood Thickness Inches	Diameter Neck Inches	Length Overall Inches	Standard Package	Weight Ounces
1	3/8	3 3/4	10	3 3/4



This item available in SKIN PACK, See Section L.

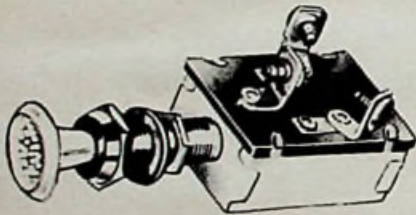
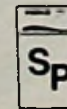


Fig. 381

MOMENTARY PUSH SWITCH — Fig. 255

All Brass — Chrome Plated Brass Button and Face Nut
Single Pole — Push Button Spring Action — 15 Amps at 12 Volts

For Wood Thickness Inches	Diameter Neck Inches	Length Overall Inches	Standard Package	Weight Ounces
1	3/8	2 3/4	10	2 1/2



This item available in SKIN PACK, See Section L.

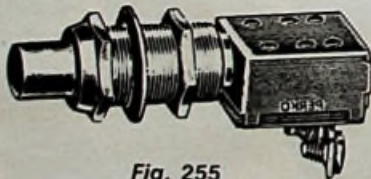


Fig. 255

MOMENTARY PUSH SWITCH — Fig. 306

All Brass — Chrome Plated Brass Button
Single Pole — Push Button Spring Action — 15 Amps at 12 Volts

With Weather Resistant Neoprene Cover Over Button

For Wood Thickness Inches	Diameter Neck Inches	Length Overall Inches	Standard Package	O.E.M. Package	Weight Ounces
1	3/8	2 3/4	10	50	3



Fig. 306

Above Switches are not Ignition Protected. See Page CD-11

IGNITION LOCK SWITCH — Fig. 316

Chrome Plated Face Nut

2 Position: Off-On — 15 Amps at 12 Volts

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

No.	For Wood Thickness Inches	Diameter Neck Inches	Length Overall Inches	Standard Package	Weight Ounces
1	1/2	3/4	2	10	4
2	7/8	13/16	2 1/4	10	4 1/2

Fig. 316 No. 1 available in SKIN PACK, See Section L.

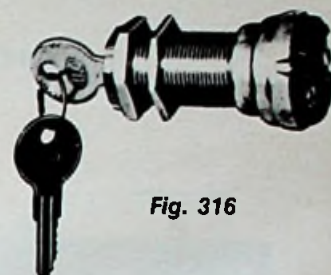
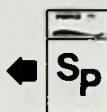


Fig. 316

IGNITION STARTER SWITCH — Fig. 310

All Brass — Chrome Plated Brass Face Nut

3 Position: Off-Ignition-Start

15 Amps at 12 Volts — Spring Action

Automatically returns from start to ignition position.

For Wood Thickness Inches	Diameter Neck Inches	Length Overall Inches	Standard Package	Weight Ounces
1	13/16	2 3/4	10	4 1/2

This item available in SKIN PACK, See Section L.

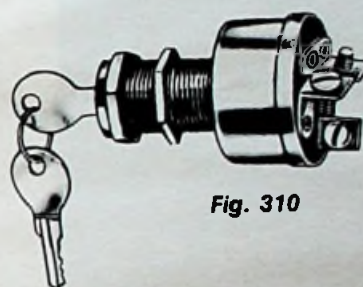
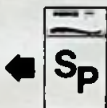


Fig. 310

MAGNETO IGNITION STARTER SWITCH — Fig. 304

All Brass — Chrome Plated Brass Face Nut

3 Position: Off-Ignition-Start

15 Amps at 12 Volts — Spring Action

Automatically returns from start to ignition position.

For Wood Thickness Inches	Diameter Neck Inches	Length Overall Inches	Standard Package	Weight Ounces
3/4	13/16	3	5	8

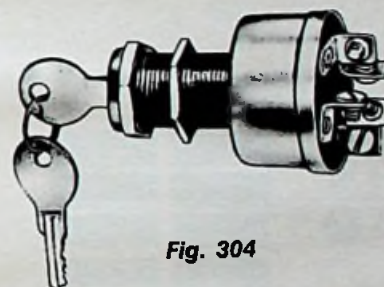


Fig. 304

BOOT AND NUT ASSEMBLY — Fig. 387

Weather Resistant

Fits Figs. 304, 310 and 316 No. 2

Key enters through elastic slot in rubber boot.



Fig. 387

MOMENTARY SWITCH — Fig. 275

Chrome Plated Brass Housing —

Black Plastic Push Button

Single Pole — 5 Amps at 12 Volts

Projection Overall Inches	Diameter Body Inches	Screw Size	Standard Package	Weight Ounces
1	1 1/4	10 R.H.	10	1



Fig. 275

Above Switches are not Ignition Protected. See Page CD-11

SWITCH PANELS
COMPLETE WITH SWITCHES, FUSE HOLDERS AND NAME PLATES
SWITCHES RATED 15 AMPS AT 12 VOLTS
FUSE HOLDERS FOR 1/4" x 1-1/4" FUSES.



Fig. 517

FIG. 517
Black Textured Finish-Embossed Lettering.
This Panel Is Molded From A Flexible Plastic Which
Will Mount On Curved and Flat Surfaces.

Dimensions Inches	Standard Package	Screw Size	Weight Ounces
6½ x 4¼	5	6	8

Note: Illustration Shows Stock Panel. If Name Plates Other Than Shown Are Desired Specify Fig. 517A And Names Required. See Fig. 519.



THIS AVAILABLE IN DISPLAY PACK. SEE SECTION L.

Note: This item is not ignition Protected. See Page CD-11.

SWITCH NAME PLATES — Fig. 519

Black With Engraved White Lettering



Fig. 519

No.	No.	No.	No.
1 Anchor Light	12 Engine Room	24 Misc.	39 Starter
3 Bilge Pump	13 Fan	26 Off	40 Stern Light
4 Blower	14 Flood Lights	27 On	43 Water System
5 Bow Light	16 Fuel	29 Panel Lights	44 Wiper
6 Cabin Lights	19 Horn	32 Radio	45 12 Volt
8 Compass	21 Lights	35 Running Lights	46 32 Volt
9 Deck Lights	23 Masthead Light	36 Searchlight	47 110V AC
10 Docking Light		37 Spreader Light	48 Blank
11 Dome Lights			

Length Inches	Width Inches	Screw Size	Standard Package	Weight Per Dozen Ounces
1½	½	4	5	½

Note: Special name plates are available, price on application.

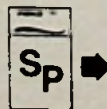
IN-LINE FUSEHOLDER — Fig. 786

Molded Plastic — With 20 AMP. Fuse and Wire Lead
For Standard 1/4" x 1-1/4" fuses



Fig. 786

Length Inches	Diameter Inches	Standard Package	O.E.M. Package	Weight Ounces
2½	1¼	10	50	¾



THIS AVAILABLE IN SKIN PACK. SEE SECTION L.

SWITCH PANELS
COMPLETE WITH SWITCHES, FUSE HOLDERS AND NAME PLATES
SWITCHES RATED 15 AMPS AT 12 VOLTS
FUSE HOLDERS FOR 1/4" x 1-1/4" FUSES.

FIG. 512
Modular Switch Panels — Chrome Plated Zinc

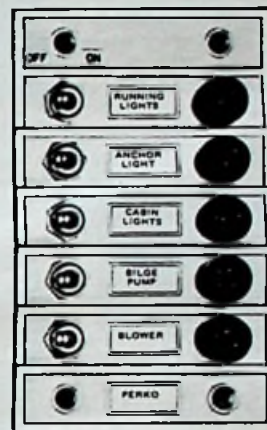


Fig. 512

Aluminum Self Adhesive Name Plates with Turquoise Lettering and Matte Background

Dimensions Inches	Standard Package	Weight Pounds
6 1/4 x 3 3/4	1	1

Note: Illustration Shows Stock Panel. Panel can be expanded by addition of extra Sections, See Fig. 511-B. For additional Selection of name Plates, see Fig. 490.

ALUMINUM NAME PLATES — Fig. 490
Turquoise — Aluminum Matte Background — Self Adhesive

Name Selection Available (No Specials)

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

Dimensions Inches	Standard Package
1 5/16 x 3/4	5



Fig. 490

MODULAR SECTIONS — Fig. 511

	Dimensions Inches	Standard Package	Weight Ounces
SECTION "A"	1 3/4 x 3 3/4	5	3 1/2
SECTION "B"	7/8 x 3 3/4	5	2 1/2
SECTION "C"	1 x 3 3/4	5	2 1/4

*Does not include Assembly Eyes.

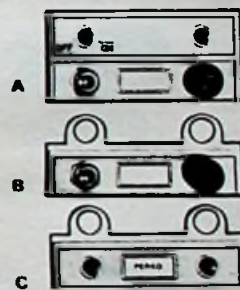


Fig. 511

Note: Above Panels and Sections are not ignition Protected. See Page CD-11.

BAYONET SOCKETS — Fig. 472

Phenolic — Single and Double Contact

No.	Type	Height Inches	Diameter Base Inches	Standard Package	Weight Dozen Ounces
20	Double contact	1	1 3/8	10	9
21	Single contact	1	1 3/8	10	9



Fig. 472



Fig. 626

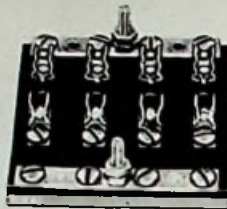


Fig. 647



Fig. 629



Fig. 694



Fig. 627



Fig. 751

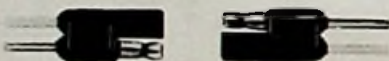


Fig. 720-2

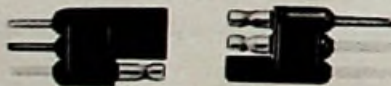


Fig. 720-3



Fig. 720-4—Shrouded

FUSE PANELS — Fig. 626

Molded Plastic Base — Brass Parts

For 1/4" x 1-1/4" Fuses up to 20 Amps.

Number Of Gangs	Dimensions Inches	Standard Package	Weight Ounces
3	2 1/4 x 2 7/16 x 3/16	5	2
4	3 x 2 7/16 x 3/16	5	2 1/4
5	3 3/4 x 2 7/16 x 3/16	5	2 1/2
6	4 1/2 x 2 7/16 x 3/16	5	2 3/4

COMBINATION FUSE & TERMINAL BLOCK — Fig. 647

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

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

FUSE PANELS — Fig. 629

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

Number Of Gangs	Dimensions Inches	Standard Package	Weight Ounces
4	3 x 2 7/16 x 3/16	5	2
6	4 1/2 x 2 7/16 x 3/16	5	3
8	6 x 2 7/16 x 3/16	1	3
12	9 x 2 7/16 x 3/16	1	6 1/2

FUSE PANEL — Fig. 694

Molded Plastic — Brass Metal Parts — For 1/4" x 1-1/4" Fuses up to 20 Amps.

For two active fuses and one spare.

Dimensions Inches	Standard Package	Weight Ounces
2 7/16 x 1 1/2 x 3/16	5	1 1/2

TERMINAL BLOCKS — Fig. 627

Molded Plastic Base — Brass Parts

Rated 30 Amps at 12 Volts.

Number Of Gangs	Dimensions Inches	Standard Package	O.E.M. Package	Weight Ounces
2	1 1/2 x 1 1/2 x 3/16	5	50	1 1/4
4	3 x 1 1/2 x 3/16	5	50	2
6	4 1/2 x 1 1/2 x 3/16	5	50	2 1/4

4 POLE CONNECTOR — Fig. 751

Plastic Body — Brass Contacts

Screw Terminals — Polarized

Size Inches	Standard Package	O.E.M. Package	Weight Ounces
1 x 2 3/4	10	50	1

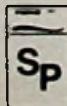
MOLDED LINE CONNECTORS — Fig. 720

Plastic Bodies — Brass Contacts

Polarized — 15 Amps at 12 Volts

Both Male and Female Side have 12 inch long 18 gauge color coded wires.

Poles	Width Inches	Standard Package	Weight Ounces
2	3/8	5	1/2
3	7/8	5	1
4	1 1/8	5	1 1/2



➔ This item available in SKIN PACK, See Section L.

WATERTIGHT CABLE OUTLETS — Figs. 424 & 1191

Fig. 424 Chrome Plated Brass

Fig. 1191 Chrome Plated Zinc

Equipped with rubber grommet for watertight passage of cable

For Cable Inches	Diameter Base Inches	Standard Package	Screw Size	Weight Ounces
3/16	1 1/4	10	4	1

Fig. 1191 available in SKIN PACK, See Section L.

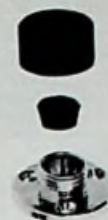
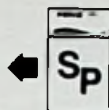


Fig. 424 — Chrome Plated Brass
Fig. 1191 — Chrome Plated Zinc

WATERTIGHT DECK CONNECTIONS — Figs. 1189 & 1190

Fig. 1189 Chrome Plated Brass

Fig. 1190 Chrome Plated Zinc

Polarized Double Contact Connector—15 Amps at 12 Volt waterproof cover for base when plug removed

Diameter Inches	Height Inches	Standard Package	Screw Size	Weight Ounces
1 3/8	1 7/16	10	4	2

Not ignition Protected, See Page CD-11.

Fig. 1190 available in SKIN PACK, See Section L.

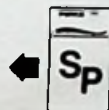


Fig. 1189 — Chrome Plated Brass
Fig. 1190 — Chrome Plated Zinc

PLASTIC CABLE STRAPS — Fig. 196

Made of black plastic, ultra-violet stabilized for weather resistance. Eliminates the need for insulating cushion and provides excellent cable support at low cost.

No.	Cable Diameter Inches	Width Inches	No.	Cable Diameter Inches	Width Inches
1	3/16	1/2	5	1/2	1/2
2	1/4	1/2	6	5/8	1/2
3	5/16	1/2	7	3/4	1/2
4	3/8	1/2			

Standard package 100 pieces per size Minimum Quantity.

O.E.M. Package, all sizes, 500.

Conforms To U.S.C.G. Electrical Standards. See Page CD-11.



Fig. 196

BRASS CABLE STRAPS — Fig. 121

For Cable, Tubing, Control Wire, Etc.

No.	Inside Diameter Inches	Length Inches	Width Inches	No.	Inside Diameter Inches	Length Inches	Width Inches
1	1/8	1 7/16	1/2	6	7/16	1 3/8	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 1/4	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	Width Inches
1	3/16	3/8
2	1/4	3/8
3	5/16	1/2
4	3/8	1/2
5	1/2	1/2
6	5/8	1/2

Note: Fig. 164 Not Available in Size 6. Fig. 165 not available in sizes 1, 2 and 6.

Standard package 100 pieces per size Minimum Quantity.

Conforms to U.S.C.G. Electrical and Fuel Standards. See Page CD-11.



Fig. 163 Single



Fig. 164 Double



Fig. 165 Triple

LIGHT BULBS



Fig. 337



Fig. 56

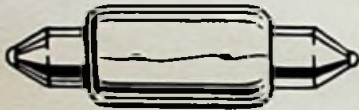


Fig. 70

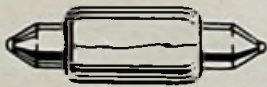


Fig. 71

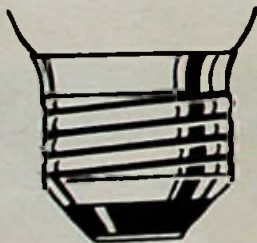


Fig. 340

**BAYONET D.C. BASE — FIG. 337
CLEAR**

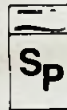
No.	Mfr. Lamp No.	Nominal Volts	Design Amps	C.P.	Bulb Diameter Inches	Standard Package
11	90	12	.58	6	3/4	10
12	1004	12	.94	15	3/4	10
13	1142	12	1.44	21	1	10
18	624	32	.37	9	3/4	10
19	1228	32	.45	15	1	10
20	1692	32	.61	21	1	10
21	1054	32	.74	32	1 1/8	10
23	15T7	120	—	15W	7/8	6

**MINIATURE BAYONET BASE — FIG. 56
CLEAR**

No.	Mfr. Lamp No.	Nominal Volts	Design Amps	C.P.	Bulb Diameter Inches	Standard Package
4	1416	12	.80	8	1 1/32	10

**DOUBLE ENDED BASE — FIG. 70
CLEAR**

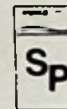
No.	Mfr. Lamp No.	Nominal Volts	Design Amps	C.P.	Bulb Diameter Inches	Standard Package
0	212-2	12	.74	6	9/16	10
1	211-2	12	.97	12	9/16	10
2	10126	32	.40	12	9/16	10



No. 1 Available in Skin Pack, See Section L.

**DOUBLE ENDED BASE — FIG. 71
CLEAR**

No.	Mfr. Lamp No.	Nominal Volts	Design Amps	C.P.	Bulb Diameter Inches	Standard Package
—	—	12	.80	8	3/8	10



This Item Available in Skin Pack, See Section L.

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

**MEDIUM SCREW BASE — FIG. 340
CLEAR**

No.	Mfr. Lamp No.	Volts	Watts	Type	L.C.L. Inches	Standard Package
5	15-A	12	15	A-17	2 3/8	6
6	25-A	12	25	A-19	2 9/16	6
7	50-A21	12	50	A-21	3 7/16	6
11	15-A	32	15	A-17	2 3/8	6
12	25-A	32	25	A-19	2 9/16	2
13	50-A21	32	50	A-21	3 7/16	2

NOTES

High Power Bulbs For Searchlights, See Section E.
Sealed Beam Units, See Section S.

ELECTRIC BULBS ARE NOT RETURNABLE. ORDER CAREFULLY.

MOMENTARY SWITCH — Fig. 702
Plastic With Red Push Button
Single Pole — 10 Amps at 12 Volts



Fig. 702

Max. Thickness of Panel Inches	Diameter Neck Inches	Standard Package	Weight Ounces
1/4	1/2	10	1/2

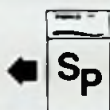
PUSH BUTTON SWITCH — Fig. 703
Push-On, Push-Off
2 Amps at 14 Volts

Max. Thickness of Panel Inches	Diameter Neck Inches	Standard Package	Weight Ounces
1/8	3/8	10	1/2



Fig. 703

This Item Available in Skin Pack, See Section L.



TOGGLE SWITCHES — Figs. 688 and 745
Nickle Plated Brass Toggle
Single Pole, Single Throw (Off-On)

Fig. 688 — 15 Amps at 12 Volts

Fig. 745 — 6 Amps at 12 Volts

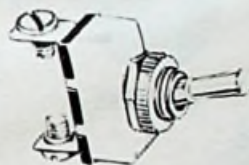


Fig. 688



Fig. 745

	Max. Thickness of Panel Inches	Diameter Neck Inches	Standard Package	Weight Ounces
Fig. 688	3/16	7/16	10	1
Fig. 745	5/16	7/16	10	3/4

NOTE: The above Switches are not Ignition Protected. See Below.

U.S.C.G. ELECTRIC 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 AMAPACITY
- 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 complied 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 I, (33CFR183).

LIGHTING FIXTURES
LOW VOLTAGE — FOR SYSTEMS UP TO 50 VOLTS



Fig. 217



Fig. 1295

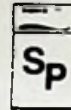


Fig. 217 available in SKIN PACK, See Section L.

BULKHEAD FIXTURES — Figs. 217 & 1295

Chrome Plated Zinc

Medium Screw Socket — Turn Switch

Fig. 1295 Has Power Take-Off Receptacle.

Fig.	Size Base Inches	Projection Less Lamp Inches	Screw Size	Weight Ounces
217	2½ x 1¼	2½	6	10
1295	2½ x 1¼	2½	6	10



Fig. 450

BULKHEAD FIXTURE — Fig. 450

Cast Bronze

Polished Bronze or Chrome Plated Bronze

Medium Screw Socket — Turn Switch

Size Base Inches	Projection Less Lamp Inches	Screw Size	Weight Ounces
2½ x 2¼	2½	8	8



Fig. 1303 BK — Black
 Fig. 1303 WH — White

BULKHEAD FIXTURE — Fig. 1303

Molded Plastic — Black or 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.

No.	Dimensions Wall Plate Inches	Normal Projection Inches	Length Shade Inches	Screw Size	Weight Ounces
1	4½ x 3¼	4¾	3	8	3
2	4½ x 3¼	5	4½	8	5

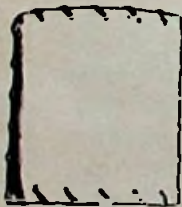


Fig. 29



Fig. 34



Fig. 36

BULB SHIELDS — Figs. 29, 34 & 36

Translucent Plastic — Brass Plated Steel Frame
 Reversible for Hanging or Upright Bulb

Width Inches	Height Inches	Max. Bulb Size	Standard Package	Weight Ounces
4½	4¾	60W	10	1

DOME LIGHTS
LOW VOLTAGE — FOR SYSTEMS UP TO 50 VOLTS

FLUSH MOUNT — Fig. 308

Chrome Plated Zinc

**Push Switch — Double Contact Socket —
 Complete with 12 Volt Bulb**

No.	Diameter Globe Inches	Diameter Overall Inches	Depth Above Flange Inches	Depth Below Flange Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
0	3	3¾	⅝	¾	10 R.H.	1	10	5
1	4	4½	¾	1¼	10 R.H.	1	10	7
2	5	5½	¾	1½	12 R.H.	1	10	9



Fig. 308

SURFACE MOUNT — Fig. 300

Chrome Plated Zinc

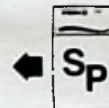
**Push Switch — Double Contact Socket —
 Complete with 12 Volt Bulb**

No.	Diameter Globe Inches	Diameter Overall Inches	Depth Overall Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
0	3	3¾	1½	10 R.H.	1	10	7
1	4	5⅝	1⅞	10 R.H.	1	10	9
2	5	6½	2	12 R.H.	1	10	11



Fig. 300

Fig. 300 No. 1 available in SKIN PACK, See Section L.



SURFACE MOUNT — Fig. 555

Chrome Plated Bronze

**Toggle Switch — Medium Screw Socket —
 Uses 15 Watt, A-17 Bulb.
 Bulb not included**

Diameter Globe Inches	Diameter Base Inches	Depth Inches	Screw Size	Standard Package	Weight Pounds
6	7⅞	3⅜	8	1	3¾



Fig. 555

SURFACE MOUNT — Fig. 753

Chrome Plated Wrought Brass

**Toggle Switches — Medium Screw Sockets —
 Bulbs Not Included**

No. 1 has one socket and switch. For Bulb up to 50 watts.
 No. 2 has two sockets and switches. For Bulbs up to 25 watts each.

No.	Diameter Base Inches	Diameter Glass Inches	Depth Overall Inches	Screw Size	Standard Package	Weight Pounds
1	9½	8	3	10	1	2
2	9½	8	3	10	1	2¼



Fig. 753

LIGHTING FIXTURES

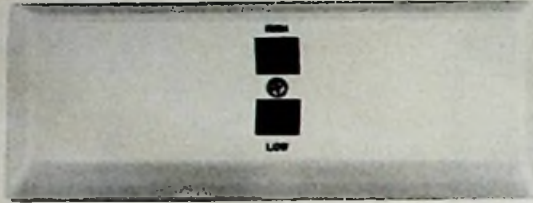


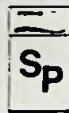
Fig. 318-A

SURFACE MOUNT — Fig. 318-A

Dual Voltage — For 12 or 120 Volts
 White Translucent Plastic Globe —
 Heavy Chrome Plated Die Cast
 Zinc Base with Integral Junction Box

Double Contact Sockets Complete
 with two 12 Volt and two 120 Volt Bulbs

Length Inches	Width Inches	Depth Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
9¼	3½	1¼	10	1	10	1¾



This item available in SKIN PACK, See Section L.



Fig. 1266

SURFACE MOUNT — Fig. 1266

WATERTIGHT
 Chrome Plated Bronze

Toggle Switch — Double Contact
 Socket — For Bulbs up to 21 C.P. —
 Bulb not included. Supplied with
 One Packing Gland for 5/16 inch Cable

Diameter Inches	Diameter Globe Inches	Depth Inches	Screw Size	Standard Package	Weight Pounds
3½	3¼	2¾	10	1	1¾

With extra packing glands installed, price on application



Fig. 1087



Fig. 1090

SURFACE MOUNT — Figs. 1087 & 1090

VAPOR PROOF
 Satin Finish Die Cast Aluminum

Fig. 1087 — Ceiling Mount

Fig. 1090 — Bulkhead Mount

Glass Globes — Cast Guards — Medium Screw
 Socket for Bulb up to 100 watts —
 Bulb not included — Integral Junction Box has
 four 1/2 inch. I.P.S. Tappings.

Fig.	Diameter Box Inches	Length Overall Inches	Projection Inches	Bolt Size	Standard Package	Weight Pounds
1087	3¾	9½	—	¼	1	3
1090	3¾	10	7	¼	1	3¾

Note: These fixtures are listed in accordance with U.L. Standard 57, for enclosed gasketed fixtures. Not evaluated for use in Hazardous or Explosive Atmospheres.



Listed by
 Underwriters
 Laboratories

NEW



SPREADER LIGHT — Fig. 1040

ADJUSTABLE

**Molded Black Plastic Body
Chrome Plated Brass Mounting Bracket
with 12, 24 or 32 Volt Sealed Beam Unit**

Diameter Inches	Depth Inches	Mounting Bracket Inches	Screw Size	Standard Package	Weight Pounds
4½	4½	4½ x 1	12 R.H.	1	1



Fig. 1040

SPREADER LIGHT — Fig. 280

ADJUSTABLE

**Chrome Plated Brass
with 12, 24 or 32 Volt Sealed Beam Unit**

Diameter Inches	Depth Inches	Mounting Bracket Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
4¾	2½	5¾x¾	12 R.H.	1	10	1¼



Fig. 280

This Item Available in 12 Volt in Display Pack, See Section L.



SPREADER LIGHT — Fig. 265

FIXED MOUNT

Chrome Plated Bronze

Complete with 12 Volt, 6 C.P. Bulb

Diameter Inches	Depth Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
2¾	1¾	6	1	10	4½

This Item Available in Skin Pack, See Section L.

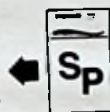


Fig. 265

UTILITY LIGHT — Fig. 1044

Molded Plastic — Black or White

Complete with 12 Volt, 3 watt Bulb

Easily installed by cutting a 1-3/4" Diameter Hole.

Dimensions Inches	Depth Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
2¾ x 2¾	1½	6	10	25	1

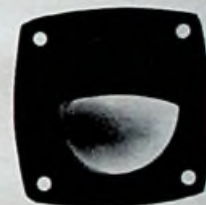


Fig. 1044

UTILITY LIGHT — Fig. 140

Molded White Plastic

Complete with 12 Volt, 1 watt Bulb

Size Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1¾ x ¾	6	10	100	½

This Item Available in Skin Pack, See Section L.

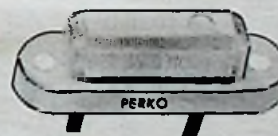
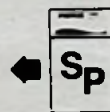


Fig. 140

UTILITY FIXTURE — Fig. 1254

ADJUSTABLE

Chrome Plated Zinc

Complete With 12 Volt 6 C.P. Bulb — Shield Swivels

To Change Position

Diameter Overall Inches	Length Neck Inches	O.D. Neck Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
2¾	¾	¾	6	1	10	6



Fig. 1254

OIL LAMPS

ALL BRASS CONSTRUCTION — DESIGNED FOR USE WITH KEROSENE OR LAMP OIL



Fig. 312

UNIVERSAL — Fig. 312
Polished Brass

Height Overall Inches	Chimney Height Inches	Diameter Fount Inches	Capacity Fount Fluid Ounces	Weight Pounds
11¾	8½	5	21	1½

BULKHEAD MOUNT — Fig. 168

Polished Brass or Chrome Plated Brass

Gimbaled with Weighted Base



Fig. 168

Height Overall Inches	Chimney Height Inches	Extension Inches	Capacity Fount Fluid Ounces	Screw Size	Weight Pounds
9	5	5	7	8	1¼

BULKHEAD MOUNT — Fig. 141

Polished Brass or Chrome Plated Brass

Gimbaled with Weighted Base



Fig. 141

No.	Height Overall Inches	Chimney Height Inches	Extension Inches	Capacity Founts Fluid Ounces	Screw Size	Weight Pounds
1	10½	4½	5½	12	8	1¾
2	12½	6	6	19	8	2

SMOKE BELL AND ARM — Fig. 128

Polished Brass or Chrome Plated Brass



Fig. 128

No.	For Lamp Fig.	Diameter Bell Inches	Extension to center Inches	Screw Size	Weight Ounces
0	168	4	3½	8	4
1	141 Nos. 1 & 2	4	4	8	4

PERKO[®]

SEARCHLIGHTS



MANUFACTURED BY PERKO, INC. 16490 N.W. 13TH AVE., P.O. BOX 64000-D, MIAMI, FLORIDA 33164-0414

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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	Wattage	Beam Candlepower	Approximate Range
1	12V	30	50,000	¼ Mile
*1-H	12V	50	100,000	½ Mile
2	12V	100	200,000	½ Mile
*2-H	12V	50	160,000	½ Mile
2	24V	250	300,000	¾ Mile
3	12V	100	250,000	¾ Mile
3	24V	450	470,000	¾ Mile
3	32V	200	260,000	¾ 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

**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	8½	10	7	2	2½	14

Fig.	"E" Inches
305	8½
305-A	15½
305-B	22½
305-C	29½

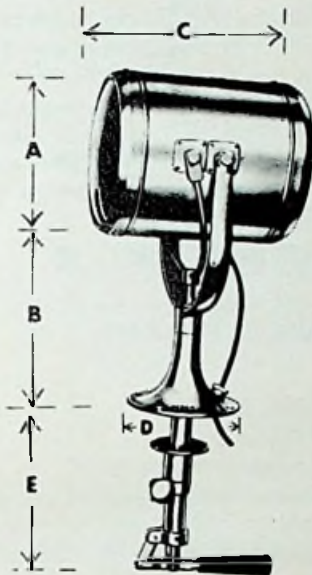


Fig. 305

Fig.	"F" Inches
313	7½
313-A	14½
313-B	21½
313-C	28½



Fig. 313

CONTROL ASSEMBLIES ONLY

For Fig. 305 Specify 851	For Fig. 313 Specify 852
For Fig. 305A Specify 851 LA	For Fig. 313A Specify 852 LA
For Fig. 305B Specify 851 LB	For Fig. 313B Specify 852 LB
For Fig. 305C Specify 851 LC	For Fig. 313C Specify 852 LC

**400 SERIES SEARCHLIGHTS
BRASS BODY
POLISHED CHROME FINISH**

Size No.	Voltage	Diam. Lens Inches	Weight Pounds
1	12V	4½	2¼
1-H*	12V	4½	2¼
3	12V	7	3½
3	32V	7	3½

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.



Figs. 440 & 440H SPOTLIGHTS

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



Figs. 534 & 534H

**DECK CONTROL
WITH SWITCH IN HEAD**

Fig.	No.	Nominal Diameter Inches	Dimensions Base Inches	Height Above Deck Inches
538	1	4½	3½	7½
538	1H	4½	3½	7½
534	2	6	4¾ x 3¼	12
534	2H	6	4¾ x 3¼	12
534	**3	7	4¾ x 3¼	12½

*Approximate Weight, Fig. 534, 5 pounds. Fig. 538, 1½ pounds.



Figs. 538 & 538H

IMPORTANT ORDERING INFORMATION

WHEN ORDERING SPECIFY VOLTAGE AS FOLLOWS:

- Size 1 available in 12 volts only.
- Size 1-H available in 12 volts only.
- Size 2 available in 12 and 24 volts only.
- Size 2-H available in 12 volts only.
- Size 3 available in 12, 24, and 32 volts.



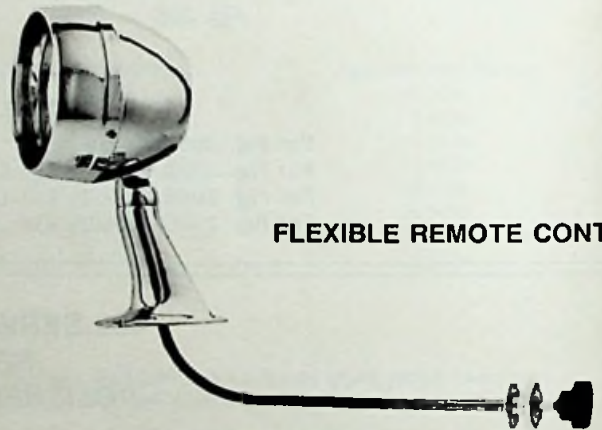
PILOT HOUSE CONTROL

Figs. 535 & 535H

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

No.	Nominal Diameter Inches	Dimensions Base Inches	Height Above Deck Inches
2	6	4¾ x 3¼	12
2H	6	4¾ x 3¼	12
**3	7	4¾ x 3¼	12½

Length of control below base, 7-1/4 inches.
For thickness of top or deck maximum 4-1/2 inches.
Figs. 535 and 536, Weight About 5 Pounds.



FLEXIBLE REMOTE CONTROL

Figs. 536 & 536H

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

No.	Length Control Inches
2-A	36
2-AH	36
2-B	48
2-BH	48
2-C	60
2-CH	60
**3-A	36
**3-B	48
**3-C	60

For Dimensions See Fig. 535.
Special lengths longer than above, Price on application.
Maximum length for smooth operation is 12 feet.

NOTE

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

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 many 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 12-230 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

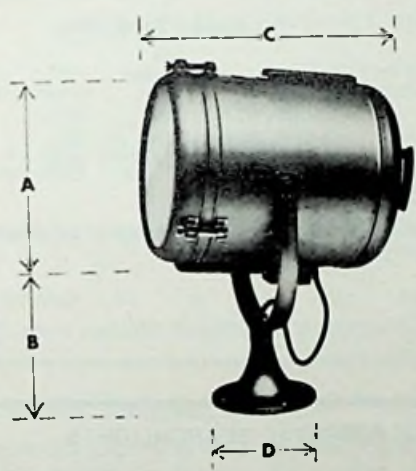
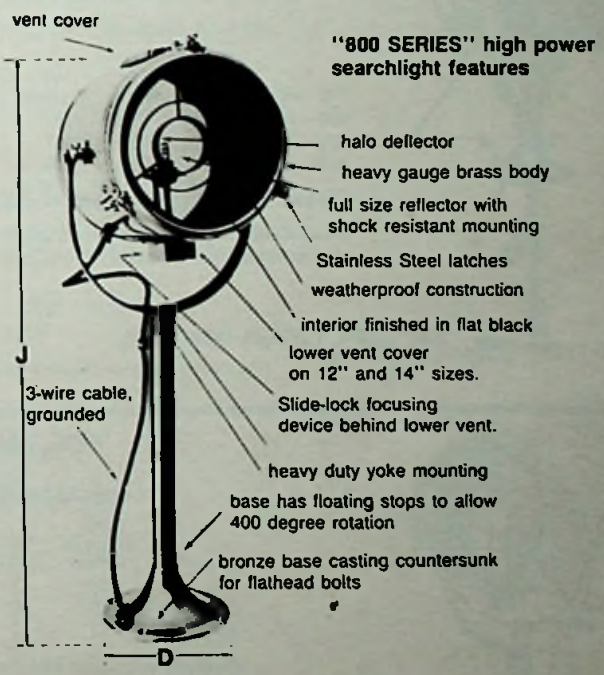


Fig. 883 STANDARD — DECK CONTROL

Fig. No.	Diam. Reflector Inches	"A" Inches	"B" Inches	"C" Inches	"D" Inches	Weight Pounds
883-1	10	10 1/4	9	13	7	25
883-2	12	12 1/4	10	15	7	33
883-3	14	14 1/4	11	17	7	45

IMPORTANT NOTE

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



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

883M - Medium Pedestal

883H - High Pedestal

Fig. No.	Dia. Reflector Inches	"D"	"J"	Weight Pounds	Fig. No.	Dia. Reflector Inches	"D"	"J"	Weight Pounds
883-MO1	10	8	27 1/2	51	883-HO1	10	8	44	53
883-MO2	12	8	29 1/2	59	883-HO2	12	8	46	61
883-MO3	14	8	31 1/2	71	883-HO3	14	8	48	73

SOLAR-RAY® SEARCHLIGHTS
800 SERIES — FIG. 884

Heavy Gauge Brass and Cast Bronze — For 12-230 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

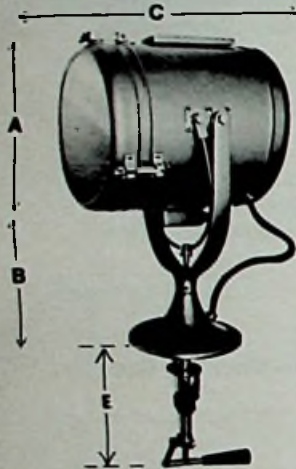


FIG. 884 STANDARD LEVER CONTROL SEARCHLIGHTS

Fig. No.	Dia. Reflector Inches	"A" Inches	"B" Inches	"C" Inches	"D" Inches	"E" Inches	"H" Inches	Weight Pounds
884-1	10	10½	9	13	7	8½	2½	36
884-2	12	12½	10	15	7	8½	2½	44
884-3	14	14½	11	17	7	8½	2½	56

Fig. 884 LEVER CONTROL



FIG. 884-L EXTENDED LEVER CONTROL SEARCHLIGHTS

884-LA Medium

Fig. No.	Dia. Reflector Inches	"E" Inches	Wt. Pounds
884-L1A	10	15½	39
884-L2A	12	15½	47
884-L3A	14	15½	59

884-LB Long

Fig. No.	Dia. Reflector Inches	"E" Inches	Wt. Pounds
884-L1B	10	22½	43
884-L2B	12	22½	51
884-L3B	14	22½	63

884-LC Extra Long

Fig. No.	Dia. Reflector Inches	"E" Inches	Wt. Pounds
884-L1C	10	29½	46
884-L2C	12	29½	54
884-L3C	14	29½	66

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

Fig. 884-L LEVER CONTROL

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

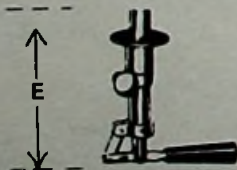
884-M Medium Pedestal

Fig. No.	Dia. Reflector Inches	"D" Inches	"E" Inches	"J" Inches	Wt. Pounds
884-M01	10	8	8½	27½	55
884-M02	12	8	8½	29½	66
884-M03	14	8	8½	31½	81

884-H High Pedestal

Fig. No.	Dia. Reflector Inches	"D" Inches	"E" Inches	"J" Inches	Wt. Pounds
884-H01	10	8	8½	44	57
884-H02	12	8	8½	46	68
884-H03	14	8	8½	48	83

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 for Figs. 851-M and 851-H), making it possible to offer a variety of lights 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 12-230 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	10½	9	13	7	7½	2	2½	36
885-2	12	12½	10	15	7	7½	2	2½	44
885-3	14	14½	11	17	7	7½	2	2½	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	14½	40	885-L1B	10	21½	43	885-L1C	10	28½	46
885-L2A	12	14½	48	885-L2B	12	21½	51	885-L2C	12	28½	54
885-L3A	14	14½	60	885-L3B	14	21½	63	885-L3C	14	28½	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. 885-M and 885-H EXTENDED PEDESTAL SEARCHLIGHTS

885-M — Medium Pedestal						885-H — 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	7½	27½	55	885-H01	10	8	7½	44	57
885-M02	12	8	7½	29½	66	885-H02	12	8	7½	46	68
885-M03	14	8	7½	31½	81	885-H03	14	8	7½	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 Fig. 852
- For Fig. 885L-A Specify Fig. 852-LA
- For Fig. 885L-B Specify Fig. 852-LB
- For Fig. 885L-C Specify Fig. 852-LC
- For Fig. 885M Specify Fig. 852M
- For Fig. 885H Specify Fig. 852H

REFER TO PAGE E-5
 FOR
 ORDERING INFORMATION

IMPORTANT NOTE

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

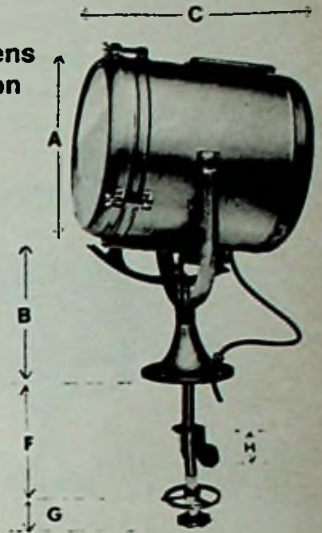
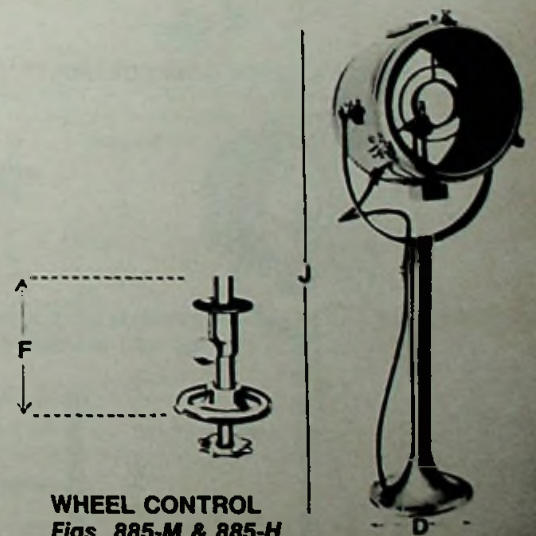


Fig. 885 WHEEL CONTROL



Fig. 885-L WHEEL CONTROL



WHEEL CONTROL
 Figs. 885-M & 885-H

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

Heavy Gauge Brass and Cast Bronze — For 12-230 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

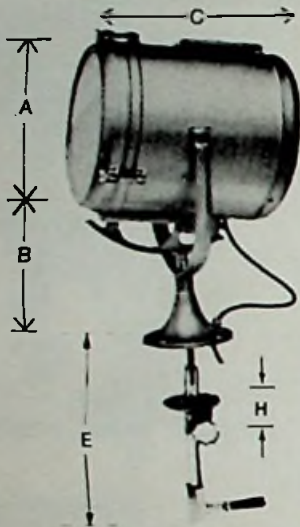


Fig. 886 LEVER-GEAR CONTROL

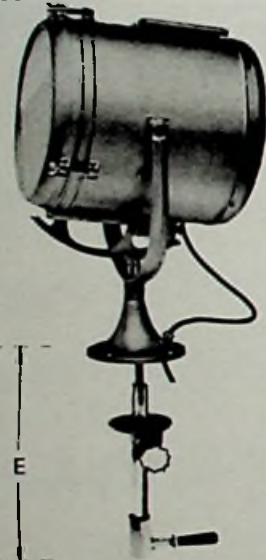
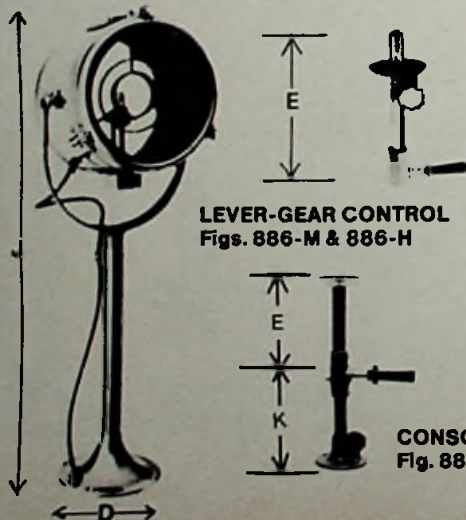


Fig. 886-L LEVER-GEAR CONTROL



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

CONSOLE MOUNT
Fig. 887 CONTROL

FIG. 886 STANDARD LEVER-GAS 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	Weight Pounds
1	10	10 1/4	9	13	7	8 1/2	2 1/8	36
2	12	12 1/4	10	15	7	8 1/2	2 1/8	44
3	14	14 1/4	11	17	7	8 1/2	2 1/8	56

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 extra long controls. Specify "K" dimension measured from the center of the lever gear to the bottom of the 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	Wt. Pounds
L1A	10	15 1/2	40	L1B	10	22 1/2	43	L1C	10	29 1/2	46
L2A	12	15 1/2	48	L2B	12	22 1/2	51	L2C	12	29 1/2	54
L3A	14	15 1/2	60	L3B	14	22 1/2	63	L3C	14	29 1/2	66

Custom control lengths are available. Specify desired "E" 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. 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	Wt. Pounds
M01	10	8	8 1/2	27 1/2	59	H01	10	8	8 1/2	44	61
M02	12	8	8 1/2	29 1/2	71	H02	12	8	8 1/2	46	73
M03	14	8	8 1/2	31 1/2	86	H03	14	8	8 1/2	48	88

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

CONTROL ASSEMBLIES ONLY

The control assemblies listed below are interchangeable (except 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 Fig. 969
- For Fig. 886L-A Specify Fig. 969-LA
- For Fig. 886L-B Specify Fig. 969-LB
- For Fig. 886L-C Specify Fig. 969-LC
- For Fig. 886M Specify Fig. 969M
- For Fig. 886H Specify Fig. 969H
- For Fig. 887 Specify Fig. 966
- For Fig. 887L-A Specify Fig. 966-LA
- For Fig. 887L-B Specify Fig. 966-LB
- For Fig. 887L-C Specify Fig. 966-LC
- For Fig. 887M Specify Fig. 966M
- For Fig. 887H Specify Fig. 966H

REFER TO PAGE E-5
 FOR
 ORDERING INFORMATION

IMPORTANT NOTE

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

"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

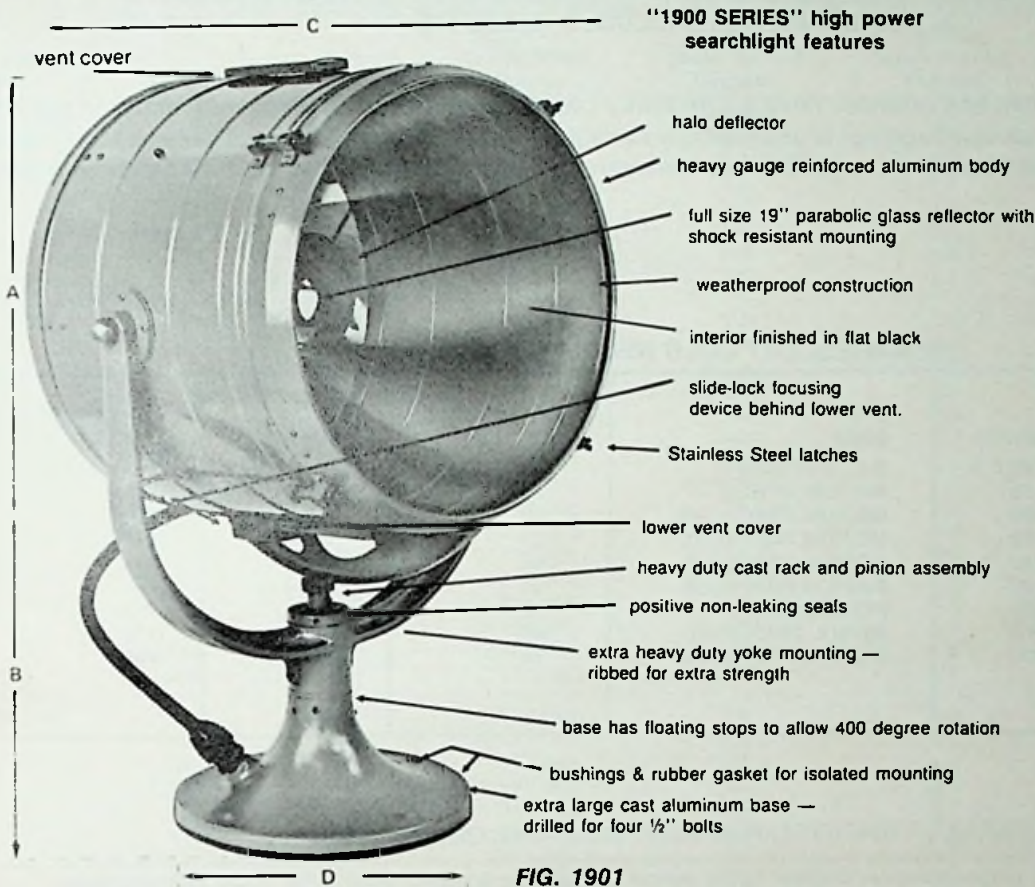


FIG. 1901
DECK CONTROL

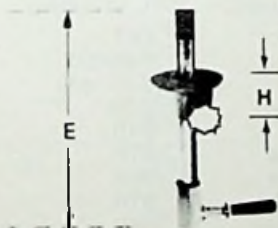


FIG. 1902 — LEVER-GEAR CONTROL
OPERATION IS SMOOTH, ONE HAND OPERATION
CONTROL HANDLE HAS BUILT-IN LOCKING KNOB
TO SET POSITION OF ELEVATION

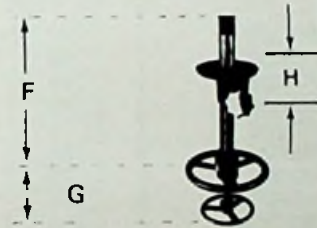


FIG. 1903 — WHEEL CONTROL
EXTRA LARGE CONTROL WHEELS FOR
EASE OF OPERATION

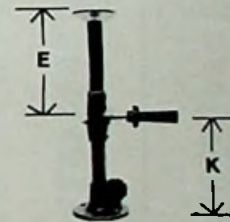


FIG. 1904 — LEVER-GEAR CONSOLE MOUNT
HELPS TO ELIMINATE VIBRATION
ON EXTENDED CONTROLS

DIMENSIONS AND WEIGHT

No.	"A" Inches	"B" Inches	"C" Inches	"D" Inches	"E" Inches	"F" Inches	"G" Inches	"H" Inches	"K" Inches Specify*	Weight Pounds
4	19½	13¾	20¾	13	22	20½	2½	4¼	Specify*	55

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

REFER TO PAGE E-5
FOR
ORDERING INFORMATION

IMPORTANT NOTE

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

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 Fig. 1921

For Fig. 1903 Specify Fig. 1922

*For Fig. 1904 Specify Fig. 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. No. of the Bulb desired. Peak candlepower is exceedingly sensitive to many factors, i.e. light source out of focus by 1/32 inch, Under-Voltage of only 4%, or difference between Bulb Manufacturers, which may cause reduction of range up to 20%.

INCANDESCENT BULB RECOMMENDATIONS

FIG.	VOLTS	WATTS	TYPE BASE	**RATED LIFE	SEARCHLIGHT SIZE NOS.	MANUFACTURER'S CODE NO.
801	12	100 C.P.	S.C. BAYONET	100 HOURS	1-2	1020 OR 976
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
860	230	1000	MEDIUM PREFOCUS	50 "	2-3-4	DWK

"QUARTZ" TUNGSTEN-HALOGEN BULB RECOMMENDATIONS

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

FIG.	VOLTS	WATTS	TYPE BASE	**RATED LIFE	SEARCHLIGHT SIZE NOS.	MANUFACTURER'S 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	BVW

Electric 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.

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	
No. 1 - 10"	12	801	251,000	1.6	2.1	$\frac{3}{8}$	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	$\frac{3}{8}$	200	
	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	$1\frac{1}{8}$	25	
	120	844	1,375,000	3.1	3.4	$1\frac{1}{8}$	100	
	No. 2 - 12"	12	801	407,000	1.3	1.5	$\frac{3}{8}$	100
12		816	1,617,000	1.5	1.2	$1\frac{1}{8}$	50	
24		836	1,349,000	2.2	1.5	$1\frac{1}{8}$	50	
32		817	865,000	2.4	1.6	$\frac{7}{8}$	200	
32		806	1,496,000	3.4	3.5	$1\frac{1}{8}$	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	$1\frac{1}{8}$	75	
120		809	1,747,000	3.6	3.4	$1\frac{1}{8}$	25	
120		844	1,790,000	3.2	3.4	$1\frac{1}{8}$	100	
120		807	1,799,000	3.3	3.1	$1\frac{1}{8}$	25	
120		811	1,816,000	4.0	4.9	$1\frac{1}{8}$	25	
120		810	1,894,000	4.0	3.8	$1\frac{3}{8}$	25	
120		846	1,911,000	3.9	5.0	$1\frac{3}{8}$	200	
120		839	2,482,000	4.5	5.5	$1\frac{1}{2}$	75	
230		860	865,000	6.9	5.9	$\frac{7}{8}$	25	
No. 3 - 14"		12	816	1,756,000	1.5	1.0	$1\frac{1}{8}$	50
	24	836	1,367,000	2.3	1.2	$1\frac{1}{8}$	50	
	32	817	943,000	2.2	1.5	1	200	
	32	806	1,591,000	4.0	3.7	$1\frac{1}{8}$	50	
	120	837	1,254,000	3.9	4.5	$1\frac{1}{8}$	200	
	120	845	1,531,000	3.6	5.1	$1\frac{1}{8}$	200	
	120	820	1,626,000	4.5	1.9	$1\frac{1}{8}$	75	
	120	844	2,007,000	2.9	3.2	$1\frac{3}{8}$	100	
	120	811	2,249,000	4.0	5.1	$1\frac{3}{8}$	25	
	120	807	2,353,000	3.2	3.2	$1\frac{1}{2}$	25	
	120	809	2,361,000	3.7	4.0	$1\frac{1}{2}$	25	
	120	846	2,586,000	3.8	5.0	$1\frac{1}{2}$	200	
	120	810	2,621,000	4.0	4.5	$1\frac{1}{2}$	25	
	120	839	2,889,000	4.5	5.2	$1\frac{3}{8}$	75	
	230	860	1,021,000	7.7	6.2	1	50	
	No. 4 - 19"	32	806	3,520,000	3.5	3.7	$1\frac{3}{8}$	50
		120	837	2,076,000	3.6	4.2	$1\frac{3}{8}$	200
120		845	2,871,000	3.6	5.4	$1\frac{3}{8}$	200	
120		807	3,191,000	3.5	4.0	$1\frac{3}{8}$	25	
120		859	3,633,000	9.4	5.9	$1\frac{3}{8}$	250	
120		847	3,659,000	4.5	5.4	$1\frac{3}{8}$	200	
120		844	4,212,000	3.0	5.4	$1\frac{3}{8}$	100	
120		809	4,454,000	3.6	4.5	$1\frac{3}{8}$	25	
120		846	4,601,000	4.5	5.4	$1\frac{3}{8}$	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	$2\frac{1}{8}$	25	
230		860	2,162,000	7.9	6.5	$1\frac{3}{8}$	50	

**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.

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 WHEN 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	Size 10"	Overall Height Inches	Size 12"	Overall Height Inches	Size 14"	Overall Height Inches	Size 19"	Overall Height Inches
871	S.C. Bayonet	#1	3 $\frac{1}{8}$	#2	4 $\frac{1}{8}$	#3	5 $\frac{1}{8}$	N/A	—
872	Medium Screw	#1	1 $\frac{1}{4}$	#2	2 $\frac{1}{4}$	#3	3 $\frac{1}{4}$	#4	5 $\frac{3}{4}$
873	Medium Prefocus	#1	1 $\frac{5}{16}$	#2	1 $\frac{5}{16}$	#3	2 $\frac{5}{16}$	#4	5 $\frac{1}{16}$
874	Mogul Screw	N/A	—	#2	7 $\frac{1}{16}$	#3	1 $\frac{1}{4}$	N/A	—
1930	Mogul Prefocus (1500W)	N/A	—	N/A	—	N/A	—	1930	3 $\frac{5}{8}$
1931	Mogul Prefocus (1000W & 2000W)	N/A	—	N/A	—	N/A	—	1931	3 $\frac{1}{8}$
875	2 Pin Prefocus (12 Volt)	#1	3 $\frac{1}{2}$	#2	4 $\frac{1}{2}$	#3	5 $\frac{1}{2}$	N/A	—
876	2 Pin Prefocus (24 Volt)	#1	3 $\frac{1}{4}$	#2	4 $\frac{1}{4}$	#3	5 $\frac{1}{4}$	N/A	—
878	2 Pin Prefocus (32 Volt)	#1	3 $\frac{1}{4}$	#2	4 $\frac{1}{4}$	#3	5 $\frac{1}{4}$	N/A	—
879	2 Pin Prefocus (600W)	#1	3 $\frac{1}{8}$	#2	4 $\frac{1}{8}$	#3	5 $\frac{1}{8}$	N/A	—
880	2 Pin Prefocus (900W)	N/A	—	#2	3 $\frac{13}{16}$	#3	4 $\frac{13}{16}$	#4	7 $\frac{5}{16}$

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.

Electric Sockets For Solar-Ray® Searchlights

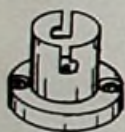


Fig. 472 No. 21
S.C. Bayonet



Fig. 894
Medium Screw



Fig. 895
Medium Prefocus

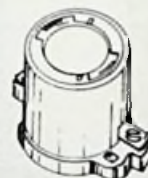


Fig. 893
Mogul Prefocus

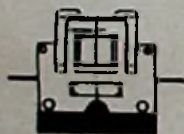


Fig. 899
2-Pin Prefocus*

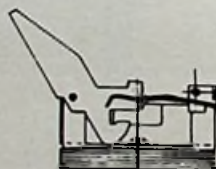


Fig. 866
2-Pin Prefocus**



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-G**

PERKO[®]

VENTILATORS

BLOWERS

WINDOWS

BELLS



MANUFACTURED BY PERKO, INC. 16490 N.W. 13TH AVE., P.O. BOX 64000-D, MIAMI, FLORIDA 33164-0414

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FG-2

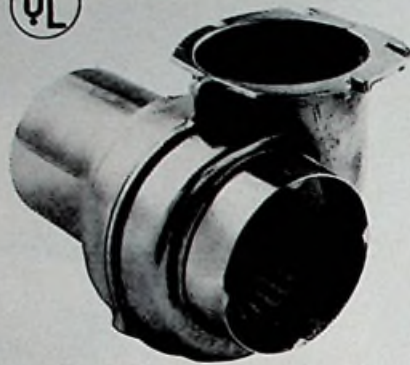


Fig. 778

MARINE EXHAUST BLOWERS—Fig. 778 & 791
 Designed to meet the requirements of U.S.C.G. Safety Standards—Ignition protected—12 VOLTS

18-8 Non-Magnetic Stainless Steel Shaft - Heavy Duty Motor
 Rated for continuous Duty Operation - White Delrin Impeller

For removing fumes from bilge, engine room and exhausting excess heat or cooking odors from the galley.

Fig. 791 has an additional housing covering the motor, a neoprene shaft seal and waterproof gland for additional protection.

Size No. 1 — Zinc Housing, Satin Chrome Plated. No Clamps necessary, Duct Threads into Inlet Fitting.

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

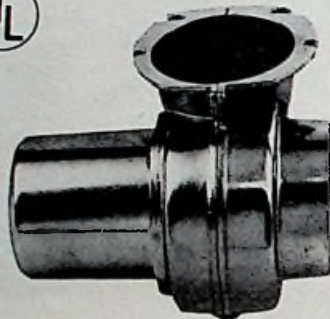


Fig. 791

No.	Size Intake Inches	Size Outlet Inches	Dimensions Overall Inches	Flange Inches	Maximum Rated C.F.M.	Weight Pounds
1	3	3	7½ x 6 x 5	4 x 3½	117	3½
2	4	3¾	8½ x 8 x 7	4¾ x 4¾	230	6½



Fig. 789

EXHAUST DUCT — Fig. 789

Vinyl — with high tensile spring wire coil non-flammable.

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

No.	Inside Diameter Inches	Weight Per Carton Pounds
2	3	12
3	3½	12
4	4	13

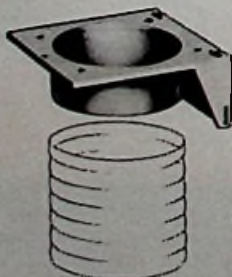


Fig. 787

MOUNTING ADAPTER FOR EXHAUST DUCT — Fig. 787

Satin Chrome Plated Zinc — For 3" Duct.

For outlet end of duct or to support free end of duct. Can be fastened through the base or through the side.

Dimensions Inches	Standard Package	O.E.M. Package	Weight Ounces
3¾ x 3½ x 1¾	1	25	14

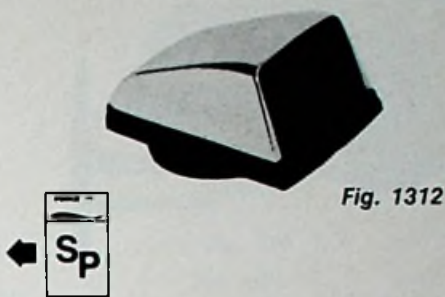
CHROMALEX® COWL VENTILATOR — Fig. 1312

**Chrome Plated Zinc Cowl
Black Plastic Base - For 3 Inch Duct**

Hose Clamps Not Required — Duct Threads into Neck.

Mouth Opening Square Inches	Length Overall Inches	Width Overall Inches	Height Overall Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
7	5¼	4¾	2¾	8	1	50	11

THIS ITEM AVAILABLE IN SKIN PACK, SEE SECTION L.

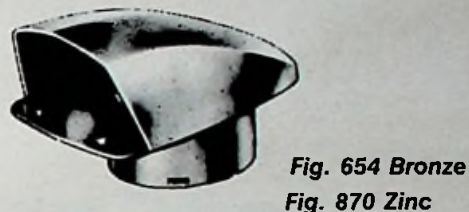


COWL VENTILATORS — Figs. 654 & 870

**Chrome Plated—For 3 Inch Duct
Fig. 654, Cowl is Cast Bronze, Base is Zinc
Fig. 870, is Zinc.**

Hose Clamps Not Required. Duct Threads into Neck.

Mouth Opening Square Inches	Length Overall Inches	Width Overall Inches	Height Overall Inches	Screw Size	Nominal Weight Ounces
7	5¼	4	2¾	10	25

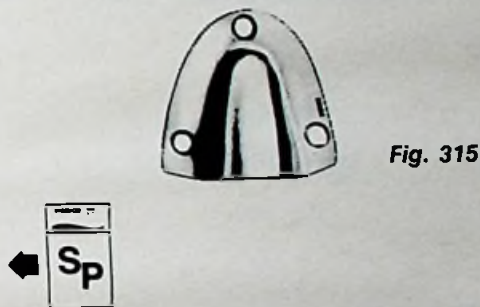


CLAM SHELL VENTILATORS — Fig. 315

Chrome Plated Brass

No.	Base Dimensions Inches	Height Opening Inches	Width Opening Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1	1½x1½	¾	¾	4	10	100	½
2	2x2	¾	1½	6	10	100	1¼

FIG. 315 NO. 2 AVAILABLE IN SKIN PACK, SEE SECTION L.



CLAM SHELL VENTILATOR — Fig. 339

Chrome Plated Brass

Base Dimensions Inches	Height Opening Inches	Width Opening Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
4 x 3¾	1¾	2½	6	5	25	5

THIS ITEM AVAILABLE IN SKIN PACK, SEE SECTION L.



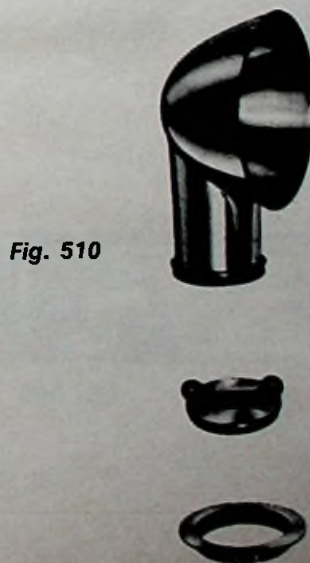
COWL VENTILATORS — Fig. 510

**White Painted Steel — Polished Brass or Chrome Plated Brass
Cast Bronze Deck Plate**

Internal thumb screw allows cowl to be locked in any position.

Steel ventilators are painted white inside and out. Polished brass and chrome plated ventilators are painted white inside only.

Deck Plate Size Inches	Diam. Mouth Inches	Height Overall Inches	Screw Size	Weight Pounds
4	8	11	10	4
5	10	13	10	6



FG-4

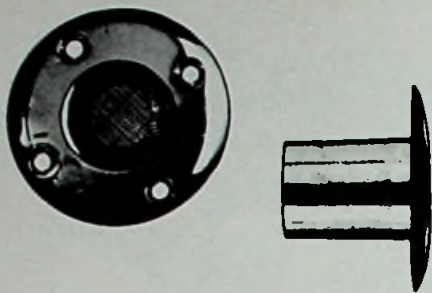


Fig. 505

GAS TANK VENT — Fig. 505

Chrome Plated Pressure Cast Bronze
With Removable Brass Wire 30 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 1/2" N.P.T. is off center to create a water baffle.

Diameter Flange Inches	O.D. Neck Inches	Length Neck Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
2 1/2	1 3/16	1 1/2	8	5	25	6 1/2

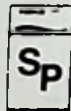


Fig. 506

GAS TANK VENT — Fig. 506

Chrome Plated Zinc
With Removable Monel Wire 30 Mesh Screening

No.	Hose Size Inches	Max. Wood Thickness Inches	Standard Package	O.E.M. Package	Weight Ounces
4	3/8	3/4	10	50	2



THIS ITEM AVAILABLE IN SKIN PACK, SEE SECTION L



Fig. 509

GAS TANK VENTS—Fig. 509

Chrome Plated Pressure Cast Bronze
With Removable Monel Wire 30 Mesh Screening

No.	Hose Size Inches	Max. Wood Thickness Inches	Standard Package	O.E.M. Package	Weight Ounces
4	3/8	3/4	10	50	4
5	3/4	5/8	10	50	6



Fig. 503

GAS TANK VENTS — Fig. 503

Chrome Plated Pressure Cast Bronze
With Removable Monel Wire 30 Mesh Screening

No.	Elbow Pipe Size Inches	Max. Wood Thickness Inches	Standard Package	O.E.M. Package	Weight Ounces
3	3/8x3/8	7/8	5	50	5 1/2
4	1/2x1/2	7/8	5	50	6



Fig. 515

GAS TANK VENTS — Fig. 515

Chrome Plated Pressure Cast Bronze
With Removable Monel Wire 30 Mesh Screening

No.	Pipe Size Inches	Max. Wood Thickness Inches	Standard Package	O.E.M. Package	Weight Ounces
3	3/8	3/8	10	50	3 3/4
4	1/2	3/8	10	50	5 1/4

All above vents are designed to meet the requirements of
 USCG Safety Standards January 31, 1977
 for gasoline fuel systems.

LOCKER VENTILATORS — Fig. 330

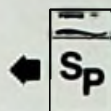
Chrome Plated Brass

No.	Diameter Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1	2½	6 R.H.	10	100	1
2	3¼	6 R.H.	10	100	2



Fig. 330

THIS ITEM AVAILABLE IN SKIN PACK, SEE SECTION L.



TRANSOM OR LOCKER VENTILATOR — Fig. 550

Polished Stainless Steel

Dimensions Inches	Screw Size	Standard Package	Weight Ounces
7 x 2½	8	10	3



Fig. 550

TRANSOM OR LOCKER VENTILATOR — Fig. 1271

**Chrome Plated Zinc
With Grill Type Screen**

Dimensions Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
6 x 2	8	10	25	3

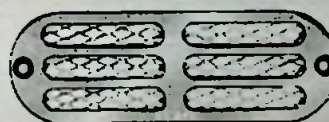


Fig. 1271

TRANSOM OR LOCKER VENTILATOR — Fig. 1238

**Chrome Plated Zinc
With Grill Type Screen**

Dimensions Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
8¾ x 2¼	8	10	50	3

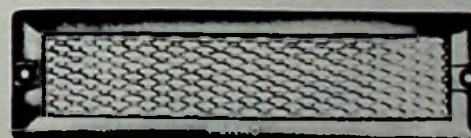


Fig. 1238

FG-6

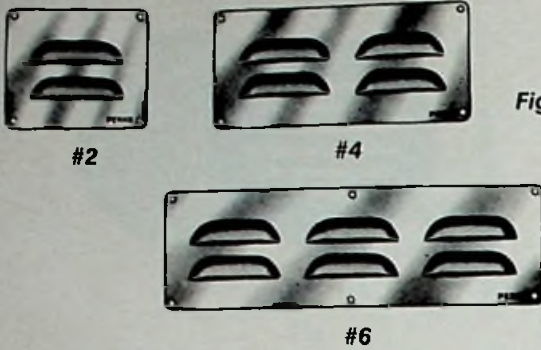


Fig. 334

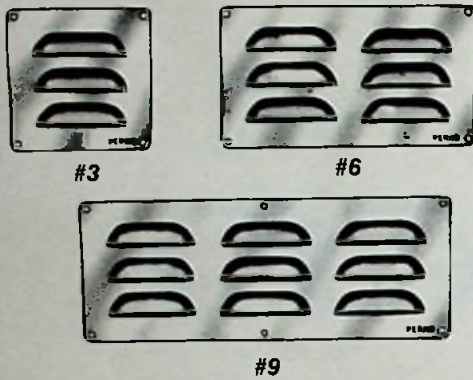


Fig. 335

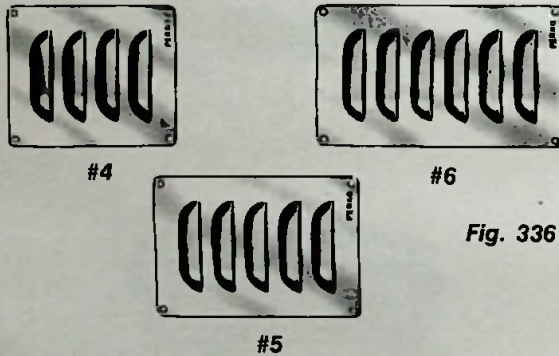


Fig. 336



Fig. 441



Fig. 461

LOUVER VENTILATORS — Fig. 334

Polished Stainless Steel

No.	Size Inches	Length Louvers Inches	Screw Size	Standard Package	Weight Ounces
2	3 x 2½	2	4 R.H.	10	1
2-A	4 x 2½	3	4 R.H.	10	1½
4	5½ x 2½	2	4 R.H.	10	2
4-A	7½ x 2½	3	4 R.H.	10	2½
6	8 x 2½	2	4 R.H.	10	3
6-A	11 x 2½	3	4 R.H.	10	4

LOUVER VENTILATORS — Fig. 335

Chrome Plated Brass

No.	Size Inches	Length Louvers Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
3	3 x 3	2	4 R.H.	10	25	—
3-A	4 x 3½	3	4 R.H.	10	25	—
6	5½ x 3	2	4 R.H.	10	—	—
6-A	7½ x 3½	3	4 R.H.	10	—	—
9	8 x 3	2	4 R.H.	10	25	—
9-A	11 x 3½	3	4 R.H.	10	—	—

LOUVER VENTILATORS — Fig. 336

Chrome Plated Brass

No.	Size Inches	Length Louvers Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
4	3¾ x 3	2	4 R.H.	10	25	1¾
4-A	4¾ x 4	3	4 R.H.	10	25	2
5	4½ x 3	2	4 R.H.	10	—	2
5-A	5¾ x 4	3	4 R.H.	10	25	2¼
6	5¼ x 3	2	4 R.H.	10	25	2½
6-A	6¾ x 4	3	4 R.H.	10	25	3

PORTLIGHT CHAIN — Fig. 441

Stainless Steel Chain — Chrome Plated Fittings.

Length Inches	Length Strap Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
7	1¾	8	5	50	2

RUBBER FOR PORTLIGHTS AND WINDOWS — Fig. 461

Size
¼" x ¾" x ½"

Supplied only in 10 foot lengths.

MARINE WINDOWS WITH SPIGOT — Fig. 796

Cast Bronze or Aluminum — Plain Finish
Watertight — Two Dog Bolts — 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.

No.	Size of Opening Inches	Dimensions Outside of Flange Inches	Dimensions Outside of Spigot Inches	Screw Size	Bronze Weight Pounds	Alum. Weight Pounds
1	5x12	7 $\frac{1}{8}$ x 14 $\frac{1}{8}$	5 $\frac{1}{8}$ x 12 $\frac{7}{16}$	10	13	5
2	7x16	10 $\frac{1}{8}$ x 19 $\frac{1}{4}$	7 $\frac{1}{2}$ x 16 $\frac{1}{2}$	10	21	7 $\frac{1}{2}$



Fig. 796

MARINE WINDOWS WITHOUT SPIGOT — Fig. 803

Cast Bronze or Aluminum — Plain Finish
Watertight — Two Dog Bolts — Clear Glass

Screen and Finishing Frame Not Included
See Figs. 812, 813 and 814

No.	Size of Opening Inches	Dimensions Outside of Flange Inches	Screw Size	Bronze Weight Pounds	Alum. Weight Pounds
1	5x12	7 $\frac{1}{8}$ x 14 $\frac{1}{8}$	10	10 $\frac{1}{2}$	4 $\frac{1}{4}$
2	7x16	10 $\frac{1}{8}$ x 19 $\frac{1}{4}$	10	16	6 $\frac{1}{2}$

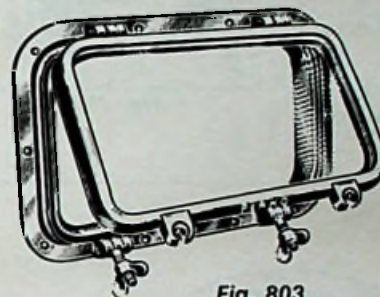


Fig. 803

OUTSIDE FINISHING FRAMES — Fig. 812

Cast Bronze or Aluminum — Plain Finish

For Figs. 796 or 803

Countersunk Screw Holes not in Line With Mounting Holes of Window Frame.

These Fit Over the Outside of the Spigot on Fig. 796.

No.	Inside Dimensions Inches	Outside Dimensions Inches	Screw Size	Bronze Weight Pounds	Alum. Weight Pounds
1	5 $\frac{1}{2}$ x 12 $\frac{1}{2}$	7 $\frac{1}{4}$ x 14 $\frac{1}{4}$	10	1 $\frac{1}{2}$	$\frac{1}{2}$
2	7 $\frac{1}{2}$ x 16 $\frac{1}{2}$	9 $\frac{1}{4}$ x 18 $\frac{1}{4}$	10	2 $\frac{1}{4}$	$\frac{5}{8}$

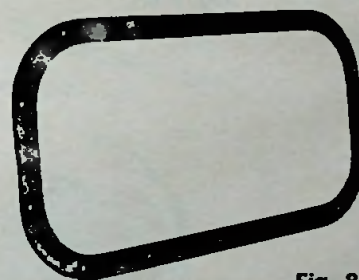


Fig. 812

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.

No.	Inside Dimensions Inches	Outside Dimensions Inches	Screw Size	Bronze Weight Pounds	Alum. Weight Pounds
1	5 $\frac{1}{2}$ x 12 $\frac{1}{2}$	7 $\frac{1}{4}$ x 14 $\frac{1}{4}$	10 R.H.	2 $\frac{3}{8}$	$\frac{3}{4}$
2	7 $\frac{1}{2}$ x 16 $\frac{1}{2}$	10 $\frac{1}{8}$ x 19 $\frac{1}{4}$	10 R.H.	3 $\frac{1}{2}$	1



Fig. 813

FG-8



Fig. 317

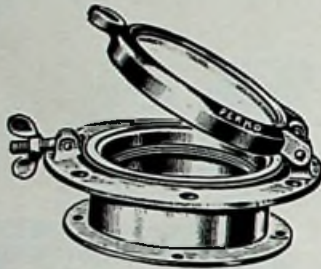


Fig. 157



Fig. 838



Fig. 442

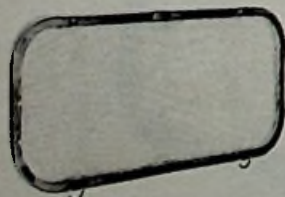


Fig. 814

ROUND PORTLIGHTS — Fig. 317

Cast Bronze — Glass Area Is Same Diameter as Opening
All Sizes Are Grooved For Fig. 442 Screens (not included)

Diam. Opening Inches	Outside Diam. Flange Inches	Thickness Glass Inches	O.D. Spigot Inches	Screw Size	Weight Pounds
4	7	1/4	4 3/8	10	3 3/4
5	8	1/4	5 7/16	10	5
6	9	1/4	6 3/8	10	6 1/2
*8	11 1/4	1/4	8 1/2	12	10 1/4

*8" size has two dog bolts.

Length of Spigot for All Sizes is 3/8"

MORE-AIR PORTLIGHTS — Fig. 157

Cast Bronze — Complete With Outside Finishing Frame — Glass Area Is Same Diameter As Opening — All Sizes Are Grooved For Fig. 442 Screens (not included)

Overall Length of Spigot without Frame is 1-3/4"

Length of Spigot Between Flange and Frame is 1-1/2"

Diam. Opening Inches	Outside Diam. Flange Inches	Thickness Glass Inches	O.D. Spigot Inches	Screw Size	Weight Pounds
4	7	1/4	4 3/8	10	4 3/4
5	8	1/4	5 7/16	10	7 1/4
6	9	1/4	6 3/8	10	8 1/2
8	11 1/4	1/4	8 1/2	12	12 3/4

DECK LIGHTS — Fig. 838

Cast Bronze — Plain Bronze or Chrome Plated Bronze — Clear Glass

Diam. Glass Inches	Outside Diam. Flange Inches	Thickness Glass Inches	O.D. Spigot Inches	Length Spigot Inches	Screw Size	Weight Pounds
4	6	1/4	4 7/8	1 1/16	10	1 1/2
6	8 1/4	1/4	6 7/8	5/8	10	2 1/2
*8	11	1/4	9 1/16	1 3/16	12	5 1/2

*8 inch size has Tempered Glass.

ROUND PORTLIGHT SCREENS — Fig. 442

White Painted Brass — Spring Type

For Figs. 157 & 317 Portlights

Specify Size Required

SCREENS FOR MARINE WINDOWS — Fig. 814

For Figs. 796 & 803

White Painted Brass

No.	Dimensions Inches	Weight Ounces
1	5 x 12	5
2	7 x 16	7

COURSE PROTRACTOR — Fig. 706

Plastic — Indicates Course and Reverse Course

A precision instrument that is accurate in detail. Positions, depths etc. are clearly visible through protractor. The arm has various mileage scales used on all coastal and harbor charts. It extends on short end to show reverse course.

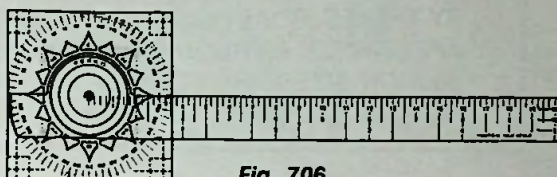


Fig. 706

Extreme Length Inches	Diam. Compass Card Inches
21½	6¾

LUCITE PARALLEL RULES — Fig. 630

Plastic — Aluminum Bars

Chart data shows clearly through transparent lucite. Heavy type with finger grips and corprene non-sliding discs.

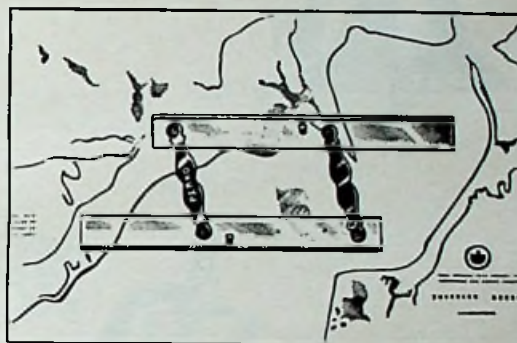


Fig. 630

Length Closed Inches	Width Closed Inches	Thickness Inches	Weight Ounces
12	2½	¾/16	6½
15	2½	¾/16	7½
18	2½	¾/16	8½

DIVIDERS — Fig. 693

Chrome Plated Brass

No.	Length Inches	Standard Package
1	5½	5
2	7	5

No. 2 size has straightening device and reversible points.



Fig. 693

YACHT LOG BOOK — Fig. 708

112 Pages 8-1/4" x 11"

Cover is hard plastic coated with a water resistant washable finish. Navy blue with gold lettering. In addition to pages for 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, guest log and marine telephone log.

Standard Package	Weight Ounces
5	20



Fig. 708

FG-10

THE 8, 10, 12 AND 14 INCH BELLS LISTED ON PAGES FG-10 AND FG-11 HAVE BEEN REVIEWED BY THE U.S. COAST GUARD AND COMPLY WITH C.G. 169 REGULATIONS FOR SOUND SIGNAL APPLIANCES 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.



Fig. 420

CAST BRONZE FOG BELLS — Fig. 420

Polished Bronze or Chrome Plated Bronze.

Medium Weight — Removable

Bottom Diameter Inches	Height Overall Inches	Screw Size	Weight Pounds
6	5	8 F.H.	3¼
8	6½	8 F.H.	6½

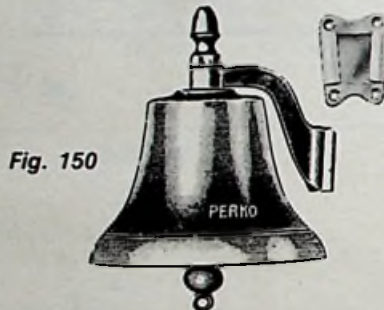


Fig. 150

CAST BRONZE FOG BELLS — Fig. 150

Plain Bronze — Polished Bronze — Chrome Plated Bronze

Heavy Weight — Removable

Bottom Diameter Inches	Height Overall Inches	Screw Size	Weight Pounds
8	8	12 F.H.	9
10	10½	12 F.H.	16½
12	12	12 F.H.	31



Fig. 158

CAST BRONZE FOG BELLS — Fig. 158

Plain Bronze — Polished Bronze — Chrome Plated Bronze

Heavy Weight — Fixed Mounting

Bottom Diameter Inches	Height Overall Inches	Bolt Size	Weight Pounds
12	12	¼ R.H.	31
14	13	¼ R.H.	35½

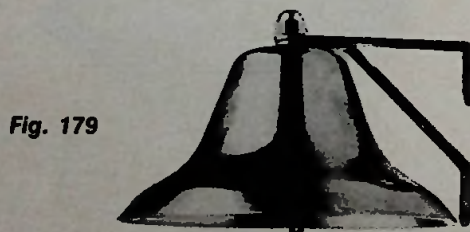


Fig. 179

WROUGHT BRASS FOG BELL — Fig. 179

Plain Brass

Light Weight — Fixed Mounting

Bottom Diameter Inches	Height Overall Inches	Screw Size	Weight Pounds
12	8	12 R.H.	9

STAMPED BRASS FOG BELLS — Fig. 159

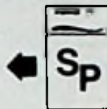
Plain Brass — Polished Brass — Chrome Plated Brass
Light Weight — Removable

Bottom Diameter Inches	Height Overall Inches	Screw Size	Weight Pounds
6	4	4 F.H.	1
8	5	4 F.H.	2¼

THIS ITEM AVAILABLE IN SKIN PACK, SEE SECTION L.



Fig. 159



FOG HORN — Fig. 162

Aluminum — White Baked Enamel Finish — Nylon Mouthpiece

Length Inches	Standard Package	Weight Ounces
12½	10	6

THIS ITEM AVAILABLE IN SKIN PACK, SEE SECTION L.

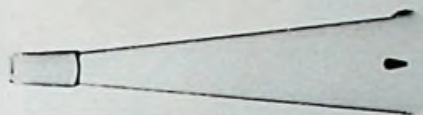
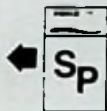


Fig. 162



TRIPLEX PLASTIC WHISTLE — Fig. 167

Length Overall Inches	Width Overall Inches	Standard Package	Weight Ounces
6	1¾	10	1

THIS ITEM AVAILABLE IN SKIN PACK, SEE SECTION L.

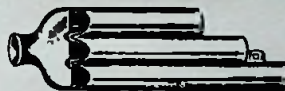
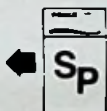


Fig. 167



“BALL TYPE” WHISTLE — Fig. 349

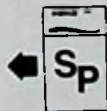
Orange Plastic

Length Inches	Width Inches	Standard Package	Weight Ounces
2¼	¾	10	1

THIS ITEM AVAILABLE IN SKIN PACK, SEE SECTION L.



Fig. 349



ASH TRAY — Fig. 795

Chrome Plated Brass
Swing Type — Removable

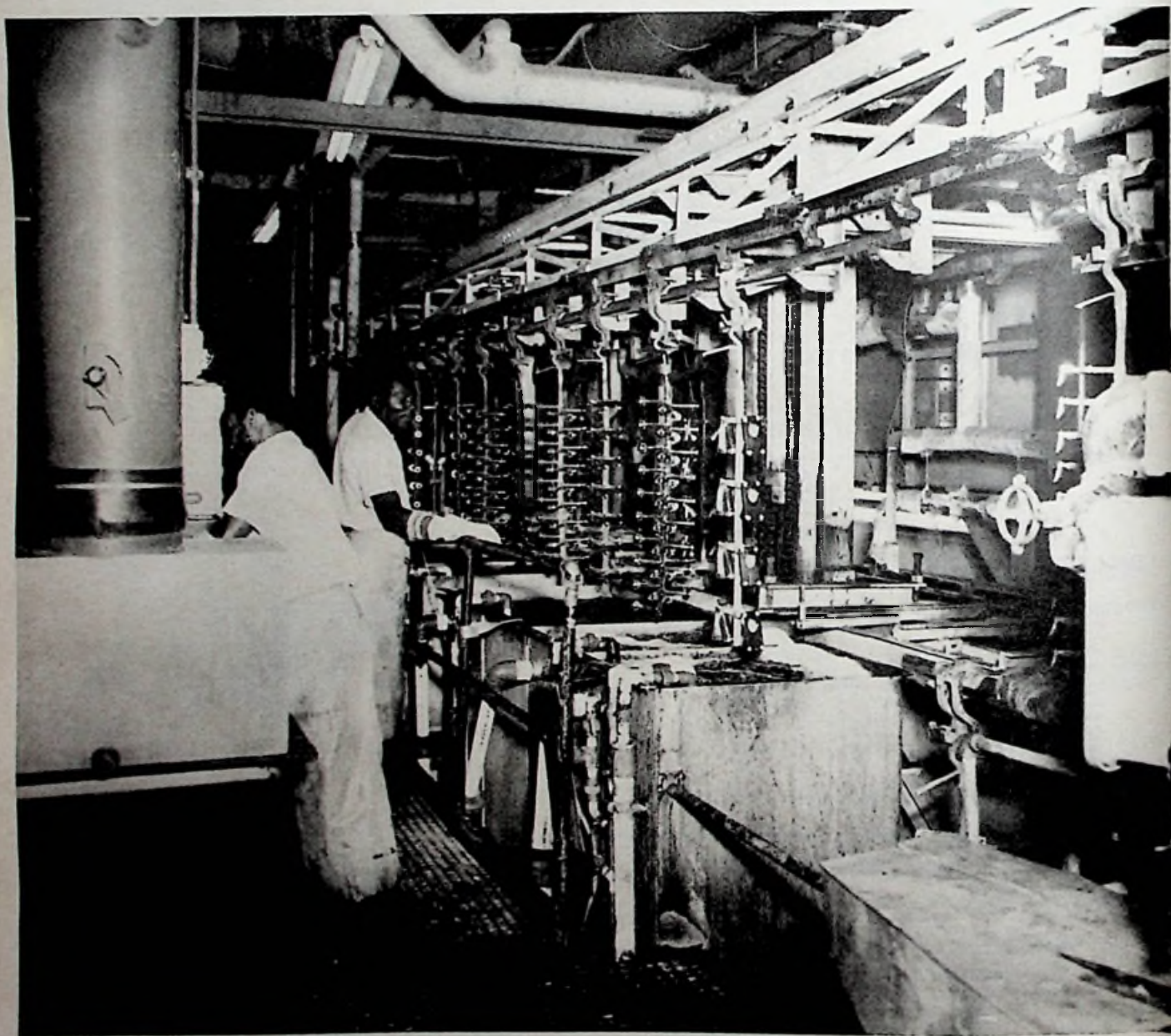
Dimensions Mounting Plate Inches	Overall Height Inches	Screw Size	Weight Ounces
1¼ x 1¼	3	4 F.H.	5¾



Fig. 795

PLATING OPERATION

Our modern plating plant has been completely rebuilt and redesigned. Its automated controls give assurance of consistent high quality and long lasting protection which make it possible to offer a life time warranty on our well known PERKOPLATE finish.



SECTION H

PERKO®

steering equipment

shaft fittings

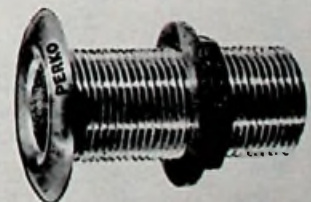
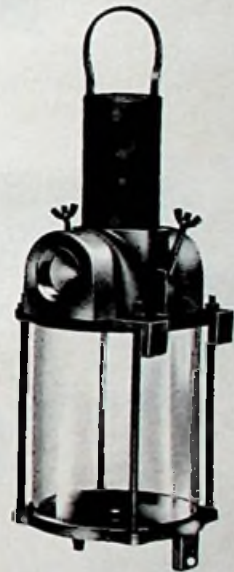
thru-hulls

water strainers

fuel filters

underwater fittings

drains



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SELF ALIGNING SHAFT LOGS — Fig. 671

Cast Bronze

No.	For Shaft Inches	Size Base Inches	Length Overall Inches	Degrees of Angle	Weight Pounds
3	3/4	1 1/8 x 3 1/2	18	12	5 1/4
5	1	1 1/8 x 3 1/2	18	12	5 1/4
7	1 1/4	1 6/8 x 4 1/4	23 1/2	10	10 1/4
9	1 1/2	19 x 5	28	10	17 1/4



Fig. 671

All Bases are spotted for Bolt Holes, but not drilled.

NOTE: 1/4" Flax Packing Fits All Sizes of above Stuffing Boxes

STUFFING BOXES — Fig. 672

HOSES — Fig. 673

For Log No.	For Shaft Inches	I.D. Hose Inches	Length Hole Inches
3	3/4	1 1/4	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

NOTE: 1/4" Flax Packing Fits All Sizes of above Stuffing Boxes

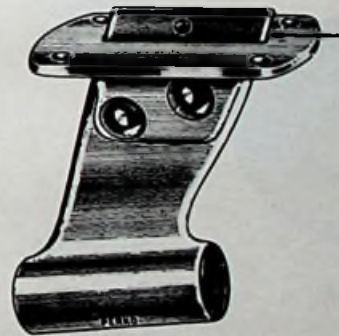
UNIVERSAL STRUTS — Fig. 1055

Manganese Bronze

For Rubber Bearings (Not Included)

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. Extreme drop to center of shaft is 7 inches.

No.	For Shaft Inches	Size Base Inches	For O.D. Bearing Inches	Length Bearing Inches	Bolt Size	Weight Pounds
5	1	5 3/8 x 3 3/8	1 1/2	4	5/16	7 1/2
7	1 1/4	5 3/8 x 3 3/8	1 3/4	5	5/16	7 1/2



CUT OFF HERE

Fig. 1055

STAINLESS STEEL MARINE HOSE CLAMPS — Fig. 6400

No Rivets — Welded

Meets the requirements of U.S.C.G. Safety Standards, January 31, 1977, for Gasoline Fuel Systems.

No.	Size Hose Inches		Clamp Diameter Inches		Box Quantity	Weight Per 100 in Pounds
	From	To	Min.	Max.		
4	1/4	5/8	3/8	1 1/16	10	2
10	3/8	5/8	5/8	1 1/16	10	6
12	5/8	3/4	1 1/16	1 1/4	10	6
16	3/4	1	1 3/16	1 1/2	10	7
20	1	1 1/4	1 3/16	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 3/4	2 13/16	3 3/4	10	11
56	3 3/4	3 1/2	3 1/16	4	10	11
64	3 1/2	4	3 3/16	4 1/2	10	12

Note — Above clamps are 1/2 inch wide except Size No. 4 which is 5/16 inch.



Fig. 6400



Fig. 673



Fig. 528



Fig. 528-G



Fig. 528-D



Fig. 528-W



Fig. 524

DECK PLATES

Plain Bronze or Chrome Plated Bronze

All sizes are Cast Bronze except Nos. 7 and 8 which are pressure Cast Bronze: No. 7 and 8 have slots between key holes. Other sizes have holes for key which is supplied. Marking on Flange, caps have "O" Ring for water tightness.

UNMARKED — Fig. 528

No.	Straight Pipe Size Inches	Outside Diameter Plate Inches	Screw Size	Weight Pounds
6	1	2 ⁷ / ₈	8	⁵ / ₈
7	1 ¹ / ₄	3 ³ / ₁₆	8	⁷ / ₈
8	1 ¹ / ₂	3 ³ / ₈	8	1
9	2	4 ¹ / ₄	8	1 ¹ / ₂
10	2 ¹ / ₂	4 ³ / ₈	10	2
11	3	5 ³ / ₈	10	2 ¹ / ₂

MARKED "GAS" — Fig. 528-G

No.	Straight Pipe Size Inches	Outside Diameter Plate Inches	Screw Size	Weight Pounds
7	1 ¹ / ₄	3 ³ / ₁₆	8	⁷ / ₈
8	1 ¹ / ₂	3 ³ / ₈	8	1
9	2	4 ¹ / ₄	8	1 ¹ / ₂

Meets the requirements of U.S.C.G. Safety Standards, January 31, 1977, for Gasoline Fuel Systems.

MARKED "DIESEL" — Fig. 528-D

No.	Straight Pipe Size Inches	Outside Diameter Plate Inches	Screw Size	Weight Pounds
7	1 ¹ / ₄	3 ³ / ₁₆	8	⁷ / ₈
8	1 ¹ / ₂	3 ³ / ₈	8	1
9	2	4 ¹ / ₄	8	1 ¹ / ₂

MARKED "WATER" — Fig. 528-W

No.	Straight Pipe Size Inches	Outside Diameter Plate Inches	Screw Size	Weight Pounds
7	1 ¹ / ₄	3 ³ / ₁₆	8	⁷ / ₈
8	1 ¹ / ₂	3 ³ / ₈	8	1
9	2	4 ¹ / ₄	8	1 ¹ / ₂

DECK PLATE MARKED "WASTE" — Fig. 524

FOR USE IN EMPTYING HOLDING TANKS

Chrome Plated Bronze

With "O" Ring — Airtight — Complete with Key.

"Waste" Marking on Flange and Cap

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.

Straight Pipe Size Inches	Outside Diameter Plate Inches	Screw Size	Weight Pounds
1 ¹ / ₂	3 ³ / ₈	8	1

DECK PLATES — Fig. 529
Plain Bronze or Chrome Plated Bronze — Black Plastic
Cap with "O" Ring for Water Tightness. Supplied with
Key-Markings on Cap and Flange

Straight Pipe Size Inches	Outside Diameter Inches	Screw Size	Weight Pounds
1½	3¾	8	1

Fig. 529 Unmarked
 Fig. 529-G Marked "Gas"
 Fig. 529-D Marked "Diesel"
 Fig. 529-W Marked "Water"

Fig. 529 "Gas" meets the requirements of U.S.C.G. Safety Standards, Jan. 31, 1977, for Gasoline Fuel Systems.



Fig. 529

DECK PLATE MARKED "WASTE" — Fig. 525
Chrome Plated Bronze — Black Plastic Cap with "O"
Ring for Air Tightness. Supplied with Key-Markings on
Cap and Flange

Straight Pipe Size Inches	Outside Diameter Inches	Screw Size	Weight Pounds
1½	3¾	8	1

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.



Fig. 525

DECK PLATE MARKED "WASTE" — Fig. 1269
Chrome Plated Zinc — Black Plastic Cap with "O"
Ring for Air Tightness Supplied with Key-Markings on
Cap and Flange.

For Hose Inches	Length Neck Inches	Diameter Flange Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1½	2	3¼	8	1	25	9

DECK PLATES — Fig. 1270
Chrome Plated Zinc — Black Plastic Cap with "O"
Ring for Water Tightness. Supplied with Key-Markings
on Cap and Flange. Supplied with 24" Monofilament
Cord Attached to Cap.

For Hose Inches	Length Neck Inches	Diameter Flange Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1½	2	3¼	8	1	25	9

Fig. 1270-G — "Marked "Gas"
 Fig. 1270-D — Marked "Diesel"
 Fig. 1270-W — Marked "Water"
 *Fig. 1270-G — Meets requirements of U.S.C.G. Gasoline Fuels
 Systems and has bead on Neck for Hose Retention

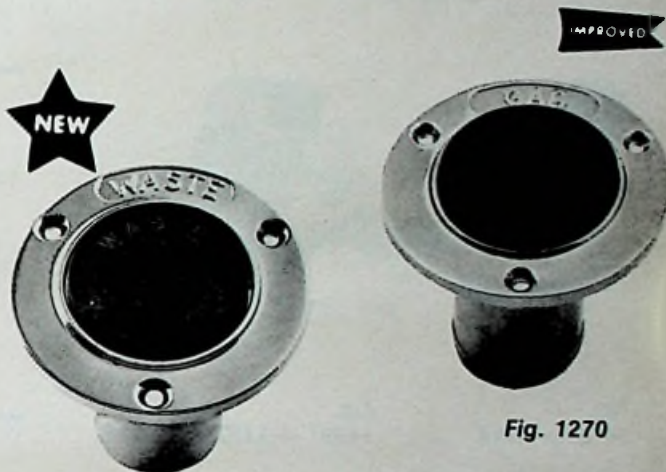


Fig. 1269

Fig. 1270

GAS TANK CAP — Fig. 1245

Chrome Plated Zinc
Complete with 24 inch monofilament cord attached to Cap

Threaded For Pipe Inches	Height Overall Inches	Diameter Deck Flange Inches	Screw Size	Standard Package	Weight Ounces
1½	1¾	3¼	6	5	9½



Fig. 1245



Fig. 1248

DECK PLATE KEYS — Fig. 1248

Zinc — Natural Finish

*No.	C to C Of Lugs Inches	Length Overall Inches	Weight Ounces
6	5/8	3¾	2
7-8	1 1/8	3¾	2
9	1 1/16	4¾	2½
10	2	4¾	2½

*Corresponds with Size of Deck Plate.

Note: Above Keys Fit Figs. 524, 525, 528, 529, 1269 and 1270.

SAFETY CORD — FOR DECK PLATES — Fig. 537
MONOFILAMENT

Length Inches	Standard Package
24	5

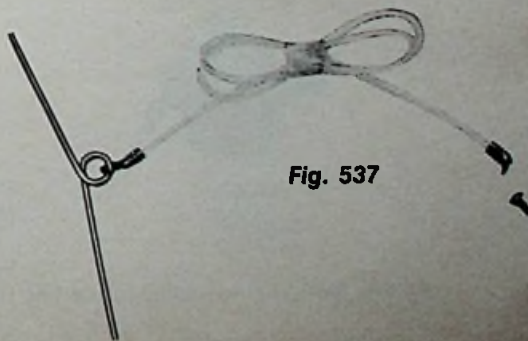


Fig. 537

CHROMALEX® FILLS



Figs.
1313* — GAS
1328 — DIESEL
1329 — WATER



Figs.
1397 — LOCKING DIESEL
1398 — LOCKING WATER
1399* — LOCKING GAS

Chrome Plated Zinc and Black Plastic, Impervious to Gasoline — Complete with Grounding Lug with Screw.

Cap has integral retainer feature and is equipped with gasket to assure water tightness.

1300 SERIES FILLS

Diameter Overall Inches	Length Hose Neck Inches	For Hose Size Inches	Screw Size	Standard Package	OEM Package	Weight Ounces
3 1/4	1 1/4	1 1/2	6	1	50	6



Fig.
1413* — GAS



Fig.
1499* — LOCKING GAS

1400 SERIES FILLS

Overall Dimensions Inches	Length Hose Neck Inches	For Hose Inches	Screw Size	Standard Package	OEM Package	Weight Ounces
3 x 3	1 1/4	1 1/2	6	1	50	7

Fig. 1513 GAS FILL

Same features as Fig. 1413 except cap is Teak.

*Figs. 1313, 1399, 1413, 1499 and Fig. 1513 Gas Fills have bead on Neck for Hose Retention.



Fig.
1513* — GAS

LOCKING GAS CAP — Fig. 1324

Black Plastic Cap — Built-in Lock — Supplied with 2 Keys — Gasket to Prevent Moisture from Entering Tank.

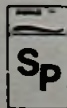
Locking Cap Will Fit all PERKO CHROMALEX® Gas Fills. Figs. 1313, 1413 and 1513



Fig.
1324

Standard** Package	Weight Ounces
5	3

**Keyed Alike



Figs. 1313, 1399 and 1324, available in SKIN PACK, See Section L.

REGULAR DECK PLATES — Fig. 526

Plain Bronze or Chrome Plated Bronze With Key

Size Opening Inches	Outside Diameter Plate Inches	Screw Size	Weight Pounds
3	5 ³ / ₁₆	10	2
4	7 ¹ / ₁₆	10	2 ¹ / ₄
5	8 ³ / ₁₆	10	4 ³ / ₄
6	9 ³ / ₁₆	1/4"	6 ¹ / ₂
8*	10 ¹ / ₄	1/4"	7

*Size 8 not available in Chrome Finish



Fig. 526

DECK PLATE KEY — Fig. 826

Chrome Plated Zinc

Heavy Duty — Will fit sizes up to 8 inch diameter.

Length Overall Inches	Standard Package	Weight Ounces
8 ¹ / ₂	5	9 ¹ / ₂

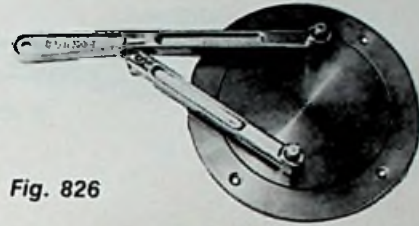
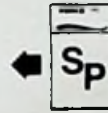


Fig. 826

THIS ITEM AVAILABLE IN SKIN PACK, SEE SECTION L.



CHOKE CONTROL HANDLE — Fig. 692

Chrome Plated Brass.

For Casing With Left Hand Lay

Has An Adjustable Friction Device to Hold Setting. Casing threads into tube, wire held by set screw in knob. For use on a dash or bulkhead up to 2 inches thick.



Fig. 692

Length Inches	Diameter Stem Inches	Standard Package	Weight Ounces
4 ⁷ / ₁₆	3/8	5	2

BOWDEN WIRE AND CASING — Fig. 353

Brass — Left Hand Lay

OD Casing Inches	Diameter Wire Inches
1/4"	.072

50 FOOT LENGTHS ONLY

- No. 1 Casing only
- No. 2 Wire only

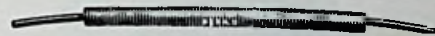


Fig. 353

CONTROL WIRE SOCKET — Fig. 679

Brass

Length Inches	Diameter Inches	Between Jaws Inches	Length Jaws Inches	Standard Package	Weight Ounces
1	3/8	1/8	1/2	10	1/2

Length jaw measured to center of screw.

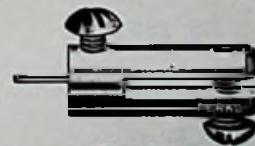


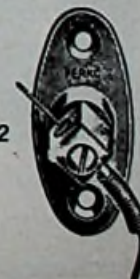
Fig. 679

BOWDEN CASING CLAMP — Fig. 352

Brass — Swivel Type

Size Base Inches	Screw Size	Standard Package	Weight Ounces
2 ¹ / ₄ x 1	10	6	3

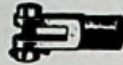
Fig. 352





1. Lever

Fig. 865



2. Clevis

Cast Bronze

No.	Item	Length Overall Inches	Length C to C Inches	Weight Pounds
1	Lever	8	6	1 3/4
1-A	Lever	10	6 7/8 *	2 1/8
1-C	Lever	10	6 7/8 *	2 1/4
2	Clevis	2 1/2		1/2
2-A	Clevis	2 1/2		1/2
2-B	Clevis	4 1/16		3/4

No.	For Shaft Inches	For Pin Inches	For Bolt Inches	Tapped For Rod Inches	Tapped For Pipe Inches	Inside Jaw 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 have 3 Pin Holes.

ELECTROLYSIS COLLARS — Fig. 252

FOR SHAFT

Die Cast Zinc

Sizes No. 3 thru 7 have 2 bolts, larger sizes 4 bolts.

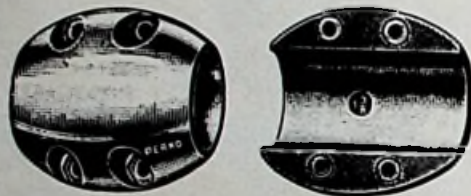


Fig. 252

No.	For Shaft 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

Die Cast Zinc — Heavy Duty



Fig. 253

No.	For Shaft Inches	Length Overall Inches	Diameter Overall Inches	Weight Pounds
11	2	1 1/8	3 3/4	1 1/2
12	2 1/4	1 1/8	3 3/4	1 1/2
13	2 1/2	1 5/8	5	3 1/2
14	3	1 3/4	5	3
15	3 1/2	1 11/16	6	6
16	4	1 11/16	6	5

ELECTROLYSIS ELIMINATORS — Fig. 407

FOR RUDDERS

Die Cast Zinc



Fig. 407

No.	Diameter Inches	Length Bolt Inches	Standard Package	Bulk Package	Weight Complete Pounds
2	2 3/4	2	10	50	1
2-A	3 3/4	2	5	25	1 3/4
3	5	2	5	25	3

ABOVE ZINCS EXCEPT FIG. 253 IN STANDARD OR BULK PACKAGES ONLY. NO BROKEN PACKAGES.

ELECTROLYSIS ELIMINATORS — Fig. 244

Die Cast Zinc

No.	Length Inches	Width Inches	Screw Size	Standard Package	Bulk Package	Weight Ounces
1	3½	1¾	12	10	100	6½
2	5¼	2½	12	10	50	20



Fig. 244

ELECTROLYSIS ELIMINATOR — Fig. 247

Die Cast Zinc

Length Inches	Width Inches	Bolt Size	Standard Package	Bulk Package	Weight Ounces
4¾	2	¼"	10	50	14



Fig. 247

ELECTROLYSIS ELIMINATOR — Fig. 241

Die Cast Zinc

Length Inches	Width Inches	Thickness Inches	Bolt Size	Standard Package	Bulk Package	Weight Pounds
9¼	3¾	¾	¼"	5	25	3¼



Fig. 241

ELECTROLYSIS ELIMINATOR — Fig. 345

Die Cast Zinc

Length Inches	Width Inches	Thickness Inches	Screw Size	Standard Package	Bulk Package	Weight Pounds
6¼	2¾	⅝	10	5	25	2¼



Fig. 345

**ELECTROLYSIS ELIMINATORS — Fig. 254
FOR ENGINES**

Die Cast Zinc With Forged Bronze Plug

No.	Plug N.P.T. Inches	Zinc Dimensions Inches	Standard Package	Weight Ounces
3	¾	¾ x 1¾	5	2
4	½	⅝ x 2	5	4½
5	¾	¾ x 2	5	7
5A	¾	¾ x 3¼	5	8½

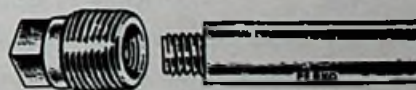


Fig. 254

ABOVE ZINCS IN STANDARD OR BULK PACKAGES ONLY. NO BROKEN PACKAGES.

FUEL FILTER AND SEPARATOR

FIG. 299

**Cast Bronze — With "Microbon" Filter Element
Adjustable Mounting Bracket — Drain Plug — Viton "O" Ring Gasket.
For Gasoline — Diesel Fuel — Lubricating Oil — Air — Water**

Complies With U.S.C.G. Standards For Fuel Filters And Strainers.*

These units are designed to separate water from gasoline or diesel fuel. The filter element is a 40 micron "microbon" 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.

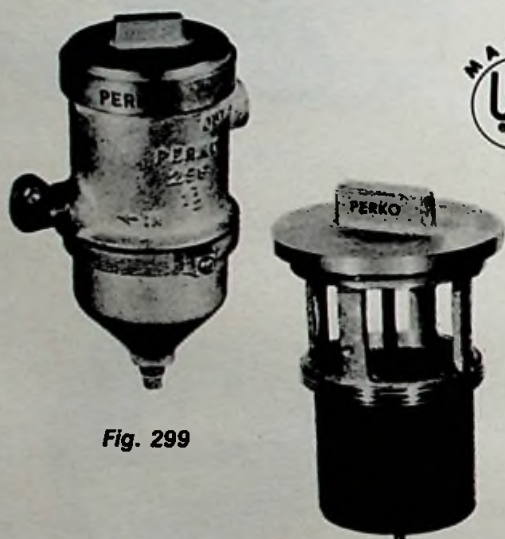


Fig. 299

No.	Length Overall Inches	Diameter Inches	Pipe Size Inches	Screw Size	Weight Pounds
1	5½	2¾	¾	9	3¾
2	6¼	3¾	½	10	5½

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.

*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 reduces electrolysis problems often encountered with designs using internal tie rods.

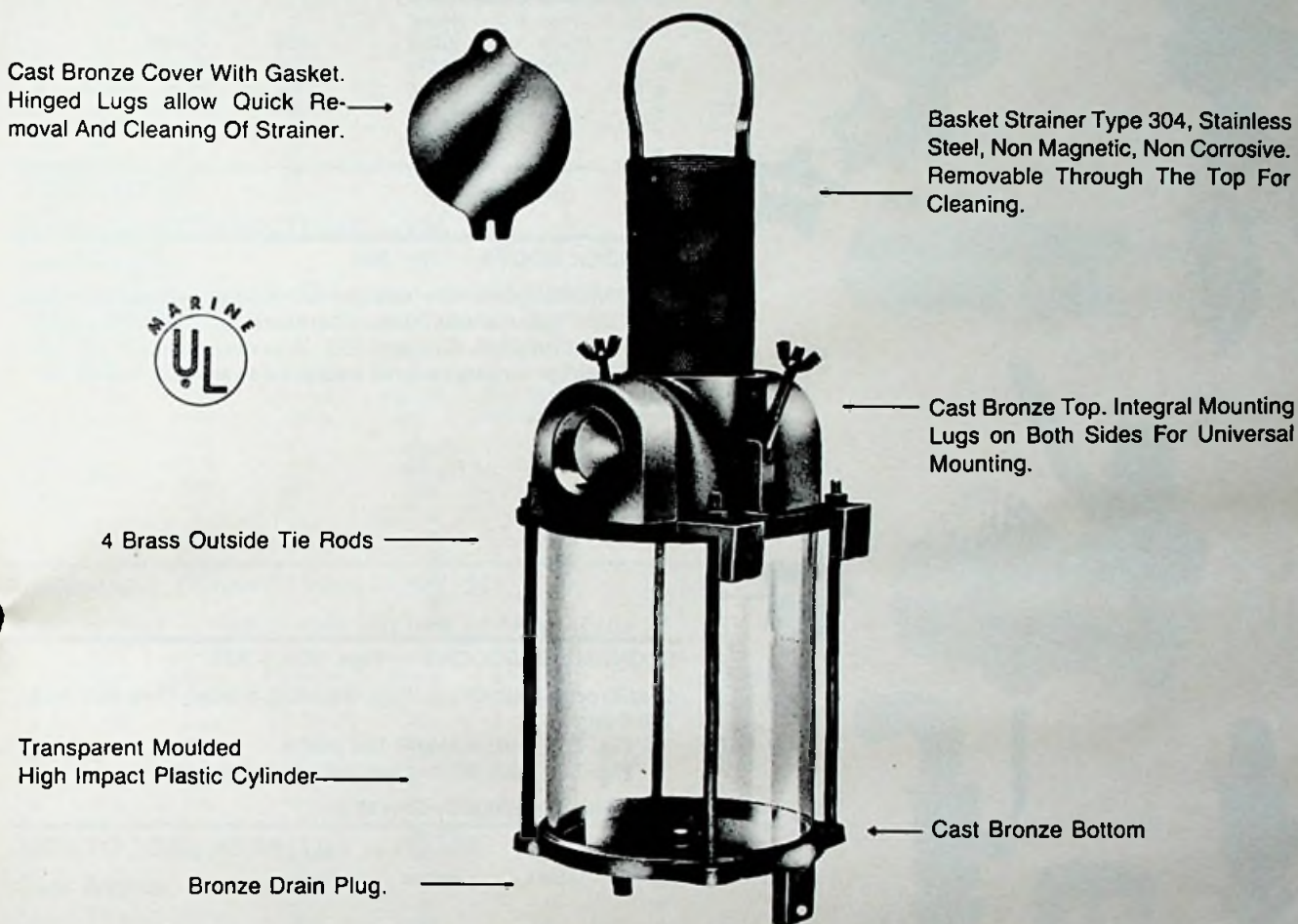


Fig. 493 — STANDARD TYPE

No.	Pipe Size Inches	Open Area To Pipe Size Ratio	Size Cylinder Inches	Dimensions Basket Strainer Inches	Approx. Height Inches	Approx. Width Overall Inches	Approx. Weight Pounds
3	3/8	22:1	2 1/4 x 2 1/2	1 3/16 x 2 3/4	4 1/4	3 1/4	2 1/2
4	1/2	30:1	3 1/2 x 4	1 13/16 x 4 3/8	5 3/4	4 1/2	5
5	3/4	25:1	3 1/2 x 6	1 13/16 x 6 1/4	8 3/8	4 1/2	5
6	1	20:1	4 1/2 x 5 1/2	2 5/8 x 5 5/8	9 1/2	5 1/2	8
7	1 1/4	13:1	4 1/2 x 6	2 5/8 x 6 1/4	10	5 1/2	8
8	1 1/2	17:1	6 x 8	3 5/16 x 8 7/16	11 1/2	7	14
9	2	13:1	6 x 12	3 5/16 x 12 1/4	16	7 1/4	18
10	2 1/2	10:1	6 x 12	3 5/16 x 12 1/4	16	7 1/2	18

Fig. 500 — HEAVY DUTY TYPE

High Capacity For Diesels And Large Gasoline Engines

9	2	20:1	8 x 10	3 3/8 x 10 1/4	14 1/2	9	34
10	2 1/2	18:1	8 x 12	3 3/8 x 12 1/4	16 1/2	9	34
11	3	14:1	8 x 14	3 3/8 x 14 1/4	18 1/2	9	34



Fig. 834



Fig. 835



Fig. 805



Fig. 821



Fig. 823



Fig. 65



Fig. 825

SEACOCKS — Figs. 834 & 835

Cast Bronze with Thru-Hull and Tail Piece
Complete with Drain Plugs, 4 Pre-Drilled Mounting Holes and Bonding Screw

Fig. 834 with 90 degree curved tail piece.

Fig. 835 with straight tail piece.

These units are of a ball valve design with Plastic ball to reduce wear and costly time consuming maintenance. They are equipped with stepped seats for smooth operation, quick and positive opening or closing and to assure a tight seal. Handles are removable.

No.	Pipe Size Inches	Hose Size Inches	Bolt Size	Weight Pounds
5	3/4	3/4	3/16	3
6	1	1	3/8	4 3/4
7	1 1/4	1 1/4	3/8	7 1/2
8	1 1/2	1 1/2	3/8	10
9	2	2	3/8	22
10	2 1/2	2 1/2	1/2	25
11	3	3	1/2	32

SEACOCK BODYS — Fig. 805

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-13 and H-14 to fit your individual needs.

No.	Pipe Size Inches	Weight Pounds
5	3/4	2 1/2
6	1	4
7	1 1/4	6
8	1 1/2	8
9	2	16
10	2 1/2	19
11	3	24

ECONOMY SEACOCKS — Figs. 821 & 823

Cast Bronze With Drain Plug, Bonding Screw, Thru Hull and Tail Piece.

Fig. 821 with straight tail piece.

Fig. 823 with 90 degree curved tail piece.

Ball valve for smooth operation.

No.	Pipe Size Inches	Hose Size Inches	Weight Pounds
4	1/2	5/8	3/8
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

Fig. 823 No. 4 Not Available

ECONOMY SEACOCK BODYS — Fig. 825

Cast Bronze with Drain Plug — Bonding Screw

Ball Valve for smooth operation.

No.	Pipe Size Inches	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

INTAKE STRAINERS — Fig. 65

Cast Bronze

No.	Pipe Size Inches	Length Neck Inches	Dimensions Strainer Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
4	1/2	2 5/8	3 x 4	7	1	10	3/8
5	3/4	2 1/16	3 x 4	7	1	10	7/8
6	1	3	3 x 4	7	1	10	1 1/4
7	1 1/4	3 1/2	3 1/4 x 4 1/4	7	1	10	1 3/4

THRU-HULL CONNECTIONS — Fig. 322

Cast Bronze

Back Side of Flange is Machined to Fit Hull and is Grooved to Retain Bedding Compound. Neck is Threaded to Approximately 1/8 Inch From Flange.

No.	Pipe Size Inches	Length Neck Inches	Diameter Flange Inches	For Strainer Fig. 86 No.	Standard Package	O.E.M. Package	Weight Pounds
3	3/8	2 1/4	1 1/2	1	1	25	1/4
4	1/2	2 1/4	1 3/8	1	1	25	3/8
5	3/4	2 1/4	2	2	1	25	1/2
6	1	2 1/2	2 1/4	3	1	25	3/8
7	1 1/4	3	2 7/8	4	1	25	1 1/2
8	1 1/2	3 1/4	3	5	1	10	1 3/4
9	2	3 1/2	3 1/2	5	1	—	2 3/8
10	2 1/2	3 3/8	4 1/2	6	1	—	3 1/4
11	3	4	5	7	1	—	5 1/4

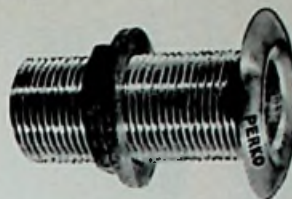


Fig. 322



EXTRA LONG

THRU-HULL CONNECTIONS — Fig. 348

Cast Bronze

Same features as Fig. 322 except neck is threaded to approximately 1 inch from flange.

No.	Pipe Size Inches	Length Neck Inches	Diameter Flange Inches	For Strainer Fig. 86 No.	Standard Package	O.E.M. Package	Weight Pounds
5	3/4	5 1/2	2	2	1	25	3/4
6	1	5 1/2	2 1/4	3	1	10	1
7	1 1/4	5 1/2	2 7/8	4	1	10	2
8	1 1/2	5 1/2	3	5	1	10	2 1/4
9	2	5 1/2	3 1/2	5	1	—	3
10	2 1/2	5 1/2	4 1/2	6	1	—	4



Fig. 348



THRU-HULL CONNECTIONS — Fig. 361

Cast Bronze — Removable Strainer — Flush Type

No.	NPT Size Inches	Length Overall Inches	Inside Diameter Inches	Diameter Flange Inches	Standard Package	O.E.M. Package	Weight Pounds
4	1/2	2 1/8	1/2	2 1/2	1	10	3/4
5	3/4	2 3/4	3/4	2 1/2	1	10	7/8
6	1	3	1	3	1	—	1 1/4
7	1 1/4	3 3/8	1 1/4	3	1	—	1 1/2
8	1 1/2	3 1/2	1 1/2	3 1/4	1	—	1 3/4

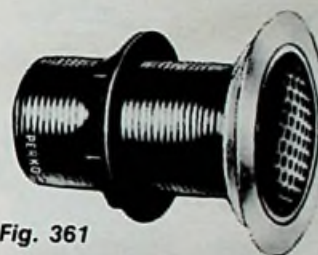


Fig. 361



PIPE TO HOSE ADAPTERS — Fig. 76

Cast Bronze

No.	Pipe Size Inches	Hose Size Inches	Length Overall Inches	Standard Package	O.E.M. Package	Weight Pounds
4	1/2	3/8	1 1/8	1	50	1/8
5	3/4	3/4	1 1/4	1	50	1/8
6	1	1	1 3/4	1	50	1/4
7	1 1/4	1 1/4	2	1	50	3/8
8	1 1/2	1 1/2	2 1/4	1	25	1/2
9	2	2	2 3/8	1	25	1
10	2 1/2	2 1/2	4	1	—	2 3/8
11	3	3	5 1/8	1	—	3 1/4



Fig. 76



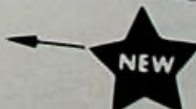
PIPE TO HOSE ADAPTERS — Fig. 63

Cast Bronze — 90 Degrees

No.	Pipe Size Inches	Hose Size Inches	Length Overall Inches	Standard Package	O.E.M. Package	Weight Pounds
5	3/4	3/4	1 1/4	1	25	1/2
6	1	1	1 3/4	1	25	3/4
7	1 1/4	1 1/4	2	1	25	1 1/4
8	1 1/2	1 1/2	2 1/4	1	10	1 1/2
9	2	2	7	1	—	2 1/2
10	2 1/2	2 1/2	8 1/2	1	—	3 1/2
11	3	3	10	1	—	6



Fig. 63



Figs. 76 and 63 Meets the requirements of U.S.C.G. Safety Standards, January 31, 1977, for Gasoline Fuel Systems.



Fig. 301

THRU-HULL CONNECTIONS — Fig. 301

Molded White Plastic — For use with hose*

No.	Hose Size Inches	Diameter Flange Inches	Standard Package	Bulk Package	Weight Ounces
4	1/2	1	10	100	1
4A	3/8	1	10	100	1
5	3/4	1 1/8	10	100	1 1/2
6	1	1 1/2	5	50	2
6A	1 1/8	1 1/2	5	50	2
8	1 1/2	2 1/4	5	50	4

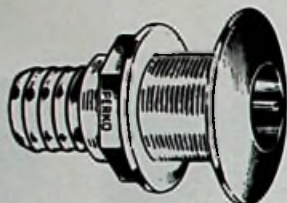


Fig. 350



THRU-HULL CONNECTIONS — Fig. 350

Plain Bronze or Chrome Plated Bronze — For Use With Hose* — Back Side of Flange is Machined to Fit Hull and is Grooved to Retain Bedding Compound.

No.	Hose Size Inches	Diameter Flange Inches	Maximum Wood Thickness Inches	Weight Pounds
4	3/8	1 1/8	1 1/4	3/8
5	3/4	2	1 1/8	1/2
6	1	2 3/8	1 1/8	7/8
7	1 1/4	3	2	1 3/8
8	1 1/2	3 1/8	2	1 1/2

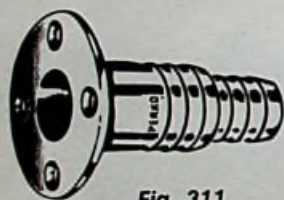


Fig. 311



THRU-HULL CONNECTION — Fig. 311

Chrome Plated Bronze — For Use With Hose*

Hose Size Inches	Inside Diameter Inches	Length Overall Inches	Diameter Flange Inches	Screw Size	Weight Ounces
3/4 and 1	5/16	3 1/8	2	8	7

SCOOP STRAINERS — Fig. 66

Cast Bronze

No.	Outside Dimension Inches	For Thru-Hull Size Inches	Screw Size	Standard Package	Weight Pounds
1	3 1/2 x 2 1/2	1/2	8	5	1/4
2	5 x 3 1/4	1	8	5	3/4
3	6 1/4 x 4 1/4	1 1/4	8	5	1
4	8 x 5 1/8	2	8	5	2



Fig. 66

ROUND STRAINERS — Fig. 86

Cast Bronze

No.	Outside Diameter Inches	Inside Diameter Inches	For Thru-Hull Size Inches	Screw Size	Standard Package	Weight Pounds
1	2 1/2	1 1/8	1/2	8	5	1/8
2	3	2	3/4	8	5	1/4
3	3 1/2	2 1/8	1	8	5	1/2
4	4	3	1 1/4	8	5	1/2
5	5	3 3/4	2	9	5	3/4
6	6	4 1/2	2 1/2	9	1	1
7	8	6 1/4	3	9	1	2 1/4



Fig. 86



* 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.

WATER INLET FITTING — Fig. 499

Chrome Plated Bronze

For obtaining water under pressure at dockside. External portion has a standard size swivel hose connector with watertight plug and stainless steel bead chain.

N.P.T.	Diameter Flange Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1/2	2 3/4	8	1	25	8

This item available in Skin Pack, See Section L.

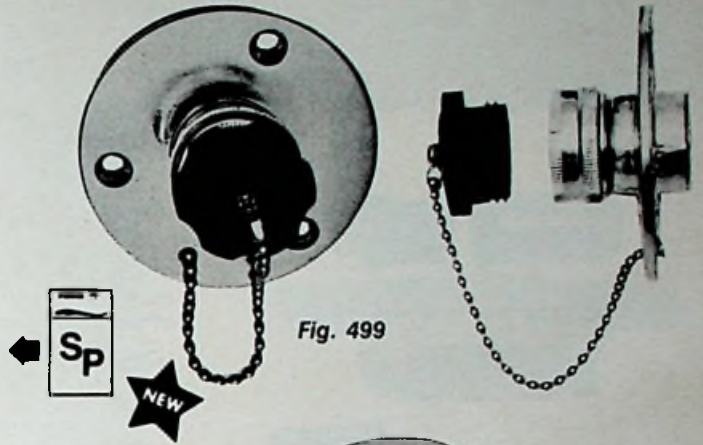


Fig. 499

SCUPPER — Fig. 285

Molded White Plastic

Insert prevents large objects from entering without restricting water flow.

Hose Size Inches	Diameter Flange	Diameter Opening	Standard Package	O.E.M. Package	Weight Ounces
1 1/2	2 3/4	1 1/2	5	50	5



Fig. 285

SCUPPERS — Fig. 142

Plain Bronze or Chrome Plated Bronze — With Rubber Ball Back Water Check

For use in sailboats when outlet is below the waterline. With key-Angle of outlet is 45 degrees.

No.	Size Hose Inches	Diameter Flange Inches	Diameter Grate Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
1	1	3 1/4	1 13/16	8	1	10	1 1/4
2	1 1/2	3 3/4	2 1/4	8	1	10	2

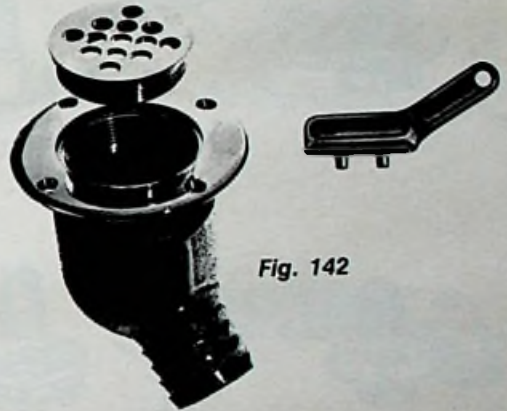


Fig. 142

PUMP STRAINER — Fig. 709

Cast Bronze

Size Hose Inches	Length Overall Inches	Width Inches	Standard Package	O.E.M. Package	Weight Ounces
3/4	3 3/4	1 1/4	5	25	6



Fig. 709

PUMP STRAINERS — Figs. 704, 705, 721 & 722

Cast Bronze

Fig.	Pipe Size Inches	Size 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

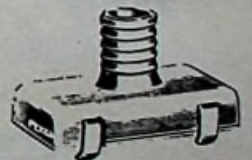


Fig. 705

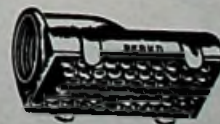


Fig. 721



Fig. 722

TRANSOM DRAIN PLUGS — Fig. 414

Brass — Expandable Plug



Fig. 414



No.	Diameter Tube Inches	Length Overall Inches	Length Tube Inches	Standard Package	Weight Ounces
1	1	2½	2	10	4½
2	1	3¼	2¾	10	5

Size No. 1 available in SKIN PACK, See Section L.

GARBOARD DRAIN PLUGS — Figs. 263, 363 & 266

Cast Bronze

Figs. 263 and 266

Pipe Size Inches	Diameter Flange Inches	Depth Inches	Screw Size	Standard Package	Weight Ounces
¾	2¾	¾	8	5	11

Fig. 363

Pipe Size Inches	Diameter Flange Inches	Length Threaded Neck Inches	Screw Size	Max. Hull Thickness Inches	Standard Package	Weight Ounces
¾	2¾	1¼	8	¾	5	14½

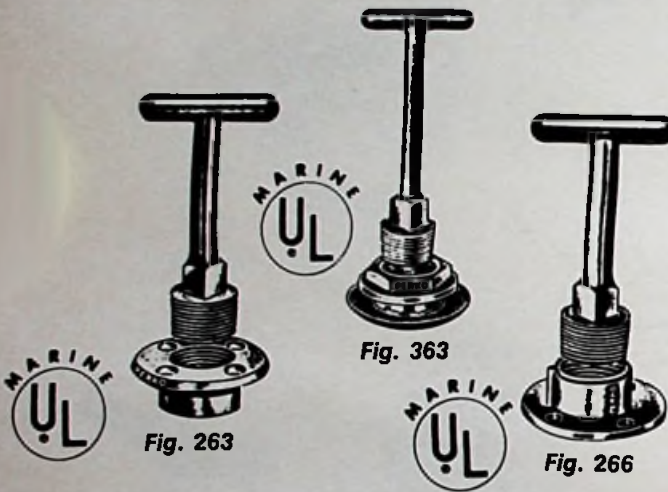


Fig. 263

Fig. 363

Fig. 266

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.

Fig. No.	Pipe Size Inches	Thickness Inches	Diameter Flange Inches	Depth Inches	Screw Size	Standard Package	Weight Ounces	
714	1	½	N/A	2	¾	8	5	3
714	2	½	N/A	2	¾	8	5	4
737	1	½	7/16	2	¾	N/A	5	6
737	2	½	7/16	2	¾	N/A	5	7

O.E.M. Package Fig. 714 No. 1-50

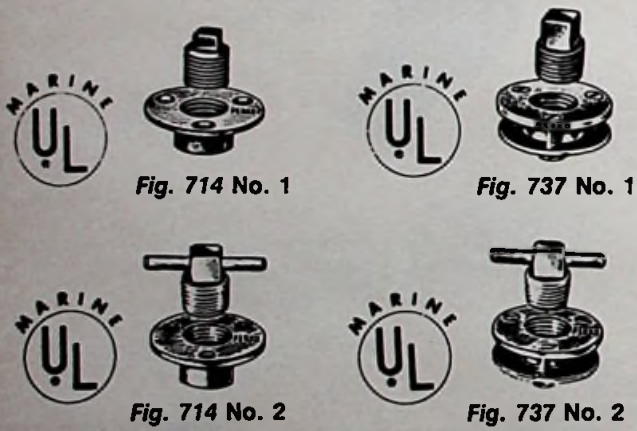


Fig. 714 No. 1

Fig. 737 No. 1

Fig. 714 No. 2

Fig. 737 No. 2

GARBOARD DRAIN PLUG — Fig. 124

Cast Bronze — With Wrench

Threads are tapered pipe sizes and plugs are watertight.

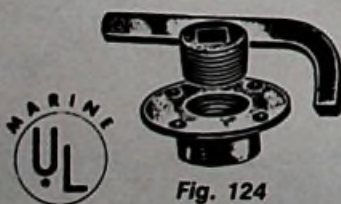


Fig. 124

NPT Size	Diameter Flange Inches	Depth Inches	Screw Size	Standard Package	Weight Ounces
1	3¾	1	10	5	10

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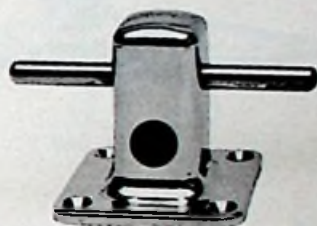
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equipment**

cleats & chocks

**chromalex®
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bow eyes

**transom handles
pulleys, etc.**



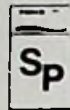
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Fig. 1252



CLEAT — Fig. 1252

Chrome Plated Zinc

Length Inches	Size Base Inches	For Rope Diam. Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
6½	3 x 1½	¾	¼	5	50	7

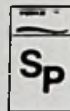
This item available in SKIN PACK, See Section L.

CLEATS — Fig. 566

Chrome Plated Zinc



Fig. 566



Length Inches	Size Base Inches	For Rope Diam. Inches	Screw Size	Standard Package	Weight Ounces
2	2¾ x 1½	⅜	6	10	1½
3	3¼ x 1½	⅜	8	10	4½
4½	4⅞ x 1¾	½	10	10	8½
6	5½ x 2	¾	12	5	13½

This item available in SKIN PACK, See Section L.



Fig. 1251

CLEATS — Fig. 1251

Chrome Plated Zinc

Length Inches	Size Base Inches	For Rope Diam. Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
3	1½ x 1⅞	⅜	8	10	—	2
4½	1½ x 1¼	½	8	10	50	6
6	2¾ x 1¾	¾	10	5	50	11

CLEATS — Figs. 572 & 1188

Fig. 572 — Chrome Plated Bronze

Length Inches	Width Base Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
*4½	1¼	10	10	—	½
*5½	1¾	10	10	—	¾
*6½	2	12	10	25	¾
8	2¾	¼	5	25	1¼
10	3	⅜	1	10	2
12	3	⅜	1	5	3

*These Sizes Are Solid, Balance Of Sizes Are Hollow.



Fig. 572 — Chrome Plated Bronze
Fig. 1188 — Chrome-Plated Zinc

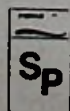


Fig. 1188 — Chrome Plated Zinc

Length Inches	Width Base Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
4	1¾	10	10	—	¼
6	1¾	10	10	50	½
8	2	¼	5	25	¾
} 10	2⅞	¼	1	10	1½
	3	⅜	1	10	2¼

Fig. 1188 Nos. 4 & 6 available in Skin Pack, See Section L.

CLEATS WITH STUDS — Fig. 1210

Chrome Plated Zinc

Length Inches	Width Base Inches	Stud Size	Standard Package	O.E.M. Package	Weight Ounces
6	1 1/4	1/4-20 x 2	10	30	8
8	2	1/4-20 x 2	5	30	12 1/2

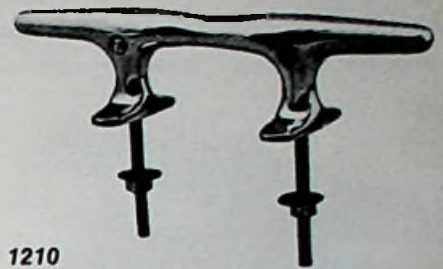


Fig. 1210

CLEATS — Fig. 544

Cast Bronze

Polished Bronze or Chrome Plated Bronze

Length Inches	Size Base Inches	Screw Size	Standard Package	Weight Pounds
• 3	1 1/2 x 5/8	8	10	1/8
• 4	1 5/8 x 3/4	10	10	1/4
• 5	2 x 7/8	1/4	10	3/8
• 6	2 1/4 x 7/8	1/4	5	1 1/8
8	2 5/8 x 1 1/8	1/4	1	2
10	3 3/8 x 1 1/2	5/16	1	2 1/8

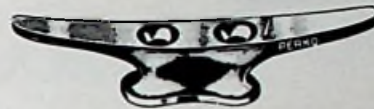
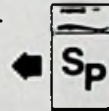


Fig. 544



*These sizes are solid base type, balance of sizes are open base type.

Fig. 544 No. 4 Chrome Available in Skin Pack, See Section L.



CLEATS — Fig. 545

Cast Aluminum

Plain Aluminum Finish

Length Inches	Size Base Inches	Screw Size	Standard Package	Weight Ounces
• 3	1 1/2 x 5/8	8	10	1 1/2
• 4	1 5/8 x 3/4	10	10	2
• 5	2 x 7/8	1/4	10	3
• 6	2 1/4 x 7/8	1/4	10	4
8	2 5/8 x 1 1/8	1/4	10	5
10	3 3/8 x 1 1/2	5/16	5	9
12	4 x 1 1/2	5/16	5	14

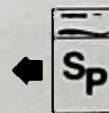


Fig. 545



*These sizes are solid base type, balance of sizes are open base type.

Fig. 545 Nos. 4, 5 & 8 available in Skin Pack, See Section L.



CLEATS — Fig. 530

Cast Aluminum

Plain Aluminum Finish

Length Inches	Size Base Inches	Bolt Size	Standard Package	Weight Pounds
8	4 x 2 1/4	1/2	1	1 1/8
10	4 1/2 x 3	1/2	1	1 3/4
12	6 1/2 x 2 1/8	3/8	1	3 1/2
15	7 x 3 1/4	3/4	1	4 1/8



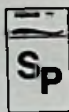
Fig. 530

CHROMALEX® CLEATS
PATENT NO. 3,828,714
CHROME PLATED ZINC AND BLACK PLASTIC

CLOSED BASE TYPE
Figs. 1305 & 1315



Fig. 1305



➔ This item available in SKIN PACK, See Section L.

Fig. 1305 For Screws or Bolts

No.	Length Inches	Size Base Inches	For Rope Diam. Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1	4½	3¾ x 1½	¾	10	1	50	5½
2	6	5 x 1¾	½	¼	1	50	10

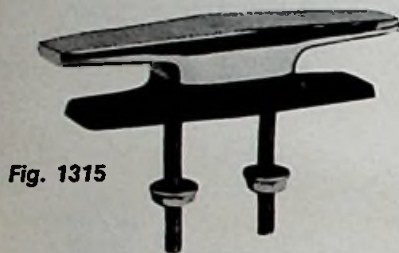


Fig. 1315

Fig. 1315 with Zinc Plated Steel Studs, Nuts and Washers

No.	Length Inches	Size Base Inches	For Rope Diam. Inches	Stud Size	Standard Package	O.E.M. Package	Weight Ounces
1	4½	3¾ x 1½	¾	12-24 x 1½	1	50	6
2	6	5 x 1¾	½	¼ x 1½	1	40	12

OPEN BASE TYPE
Figs. 1306 & 1316



Fig. 1306



➔ This item available in SKIN PACK, See Section L.

Fig. 1306 For Screws or Bolts

No.	Length Inches	Size Base Inches	For Rope Diam. Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1	4½	2½ x 1½	¾	10	1	50	5½
2	6	3¾ x 1¾	½	¼	1	50	10

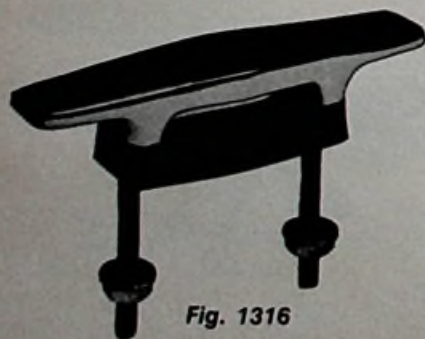


Fig. 1316

Fig. 1316 with Zinc Plated Steel Studs, Nuts and Washers

No.	Length Inches	Size Base Inches	For Rope Diam. Inches	Stud Size	Standard Package	O.E.M. Package	Weight Ounces
1	4½	2½ x 1½	¾	12-24 x 1½	1	50	6
2	6	3¾ x 1¾	½	¼ x 1½	1	40	12

CHROMALEX® CLEATS
PATENT NO. 3,828,714
CHROME PLATED ZINC AND PLASTIC

CLOSED BASE TYPE

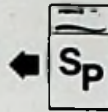
Figs. 1405 & 1505 for Screws or Bolts

No.	Length Inches	Size Base Inches	For Rope Diam. Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1	4½	3¾ x 1⅛	¾	10	1	50	5½
2	6	5 x 1⅜	½	¼	1	50	10



*Fig. 1405 with Black insert
 Fig. 1505 with Teak insert*

Fig. 1505 available in Skin Pack, See Section L.



Figs. 1415 & 1515 with Zinc Plated Steel Studs, Nuts and Washers

No.	Length Inches	Size Base Inches	For Rope Diam. Inches	Stud Size	Standard Package	O.E.M. Package	Weight Ounces
1	4½	3¾ x 1⅛	¾	12-24 x 1½	1	50	6
2	6	5 x 1⅜	½	¼ x 1½	1	40	12

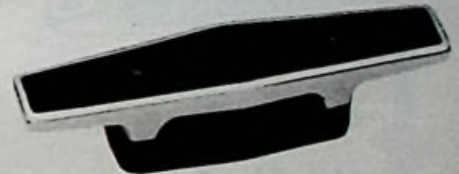


*Fig. 1415 with Black insert
 Fig. 1515 with Teak insert*

OPEN BASE TYPE

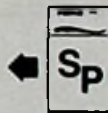
Figs. 1406 & 1506 for Screws or Bolts

No.	Length Inches	Size Base Inches	For Rope Diam. Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1	4½	2½ x 1⅛	¾	10	1	50	5½
2	6	3¼ x 1⅜	½	¼	1	50	10
3	8	3¾ x 1½	¾	¼	1	50	12



*Fig. 1406 with Black insert
 Fig. 1506 with Teak insert*

Fig. 1506 Nos. 1 and 2 available in Skin Pack, See Section L.



Figs. 1416 & 1516 with Zinc Plated Steel Studs, Nuts and Washers

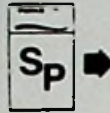
No.	Length Inches	Size Base Inches	For Rope Diam. Inches	Stud Size	Standard Package	O.E.M. Package	Weight Ounces
1	4½	2½ x 1⅛	¾	12-24 x 1½	1	50	6
2	6	3¼ x 1⅜	½	¼ x 1½	1	40	12
3	8	3¾ x 1½	¾	¼ x 1½	1	30	14



*Fig. 1416 with Black insert
 Fig. 1516 with Teak insert*



Fig. 546



BOW CHOCKS — Fig. 546

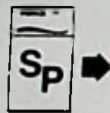
Chrome Plated Bronze

Length Inches	Width Inches	For Rope Diam. Inches	Screw Size	Standard Package	Weight Per Pair Pounds
3	3/8	3/8	8	5 Pr.	1/4
4	3/4	3/8	10	5 Pr.	1/2
5	7/8	7/8	10	5 Pr.	1
6	1	1	1/4	1 Pr.	1 1/2
8	1 1/4	1 1/8	1/4	1 Pr.	3

Fig. 546 No. 4 available in SKIN PACK, See Section L.



Fig. 1223



BOW CHOCKS — Fig. 1223

Skene Type

Chrome Plated Zinc

Length Inches	Width Inches	For Rope Diam. Inches	Screw Size	Standard Package	O.E.M. Package	Weight Per Pair Ounces
3 1/2	7/8	1/2	8	10 Pr.	50 Pr.	4

This item available in SKIN PACK, See Section L.



Fig. 160

BOW CHOCKS — Fig. 160

Skene Type

Chrome Plated Bronze

No.	Length Inches	Width Inches	For Rope Diam. Inches	Screw Size	Standard Package	O.E.M. Package	Weight Per Pair Pounds
1	4 1/2	3/4	5/8	10	5 Pr.	25 Pr.	3/4
2	5 1/8	1 1/8	3/4	10	5 Pr.	10 Pr.	1 1/2
3	7 1/4	1 3/8	7/8	5/16	1 Pr.	10 Pr.	4



Fig. 161

STERN CHOCKS — Fig. 161

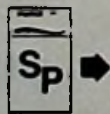
Skene Type

Chrome Plated Bronze

No.	Length Inches	Width Inches	For Rope Diam. Inches	Screw Size	Standard Package	Weight Each Pounds
11	4	7/8	5/8	8	5	1/2
12	5 3/4	1 1/4	3/4	1/4	5	1



Fig. 119



CHOCKS — Fig. 119

Straight Type

Chrome Plated Bronze

Length Inches	Width Inches	For Rope Diam. Inches	Screw Size	Standard Package	Weight Each Pounds
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	1/4	1	1 1/2

Fig. 119 No. 4 available in SKIN PACK, See Section L.



Fig. 1230

CHOCKS — Fig. 1230

Straight Type

Chrome Plated Zinc

Length Inches	Width Inches	For Rope Diam. Inches	Screw Size	Standard Package	O.E.M. Package	Weight Per Pair Ounces
4	7/8	3/4	8	10 Pr.	50 Pr.	6

CHROMALEX® CHOCKS
PATENT NO. 3,828,714
CHROME PLATED ZINC AND BLACK PLASTIC

SKENE TYPE
Figs. 1307 & 1317

Fig. 1307 For Screws or Bolts

No.	Length Inches	Width Base Inches	For Rope Diam. Inches	Screw Size	Standard Package	O.E.M. Package	Weight Per Pair Ounces
1	3½	¾	¾	10	1 Pr.	50 Pr.	5
2	5	1¼	½	¼	1 Pr.	25 Pr.	12

This Item Available in Skin Pack. See Section L.

Fig. 1307

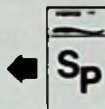
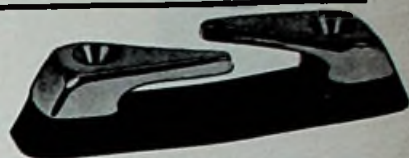


Fig. 1317 with Zinc Plated Steel Studs, Nuts and Washers

No.	Length Inches	Width Base Inches	For Rope Diam. Inches	Stud Size	Standard Package	O.E.M. Package	Weight Per Pair Ounces
1	3½	¾	¾	12-24 x 1¼	1 Pr.	25 Pr.	6
2	5	1¼	½	¼ x 1¼	1 Pr.	25 Pr.	14



Fig. 1317

STRAIGHT TYPE
Figs. 1308 & 1318

Fig. 1308 For Screws or Bolts

No.	Length Inches	Width Base Inches	For Rope Diam. Inches	Screw Size	Standard Package	O.E.M. Package	Weight Per Pair Ounces
1	3½	¾	¾	10	1 Pr.	50 Pr.	5
2	5	1¼	½	¼	1 Pr.	25 Pr.	12

This Item Available in Skin Pack. See Section L.

Fig. 1308

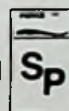
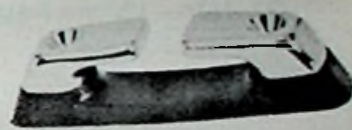


Fig. 1318 with Zinc Plated Steel Studs, Nuts and Washers

No.	Length Inches	Width Base Inches	For Rope Diam. Inches	Stud Size	Standard Package	O.E.M. Package	Weight Per Pair Ounces
1	3½	¾	¾	12-24 x 1¼	1 Pr.	25 Pr.	6
2	5	1¼	½	¼ x 1¼	1 Pr.	25 Pr.	14

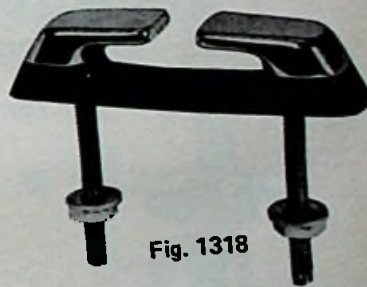


Fig. 1318

HAWSE HOLE PLATE — Fig. 752

Cast Bronze — Plain Bronze or Chrome Plated Bronze

Outside Dimensions Inches	Inside Dimensions Inches	Length Spigot Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
4¼ x 6	2½ x 4¾	1¼	¼	1	10	1½



Fig. 752

HAWSE HOLE PLATE — Fig. 1250

Chrome Plated Zinc

Outside Dimensions Inches	Inside Dimensions Inches	Length Spigot Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
3¾ x 5¾	2½ x 4½	1	¼	1	10	¾

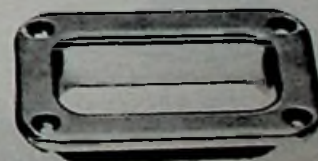


Fig. 1250



Fig. 608 — Chrome Plated Bronze
Fig. 1219 — Chrome Plated Zinc

**MOORING BITTS — Figs. 608 & 1219
HOLLOW**

Fig. 608 — Chrome Plated Bronze

No.	Size Base Inches	Height Inches	Bolt Size	Weight Pounds
1	3 x 3	2½	10	7/8
2	4¼ x 4¼	3½	¼	17/8
3	6 x 6	5	¾	4½

Fig. 1219 — Chrome Plated Zinc

No.	Size Base Inches	Height Inches	Bolt Size	Weight Pounds
2½	5 x 5	4¾	¾	4½

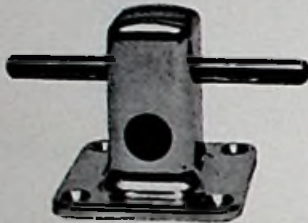


Fig. 431 — Chrome Plated Bronze
Fig. 1237 — Chrome Plated Zinc

**COMBINATION BITTS AND ROPE DECK PIPES —
Figs. 431 & 1237**

Same Dimensions as above except body is drilled to allow passage of rope below deck.

Fig. 431 — Chrome Plated Bronze

No.	For Rope Diam. Inches	Weight Pounds
2	¾	1¾
3	1	4

Fig. 1237 — Chrome Plated Zinc

No.	For Rope Diam. Inches	Weight Pounds
2½	1	3¾



Fig. 750

ROPE AND CHAIN DECK PIPE — Fig. 750

Chrome Plated Bronze

Cover has hook for Hanging Chain

No.	For Rope Diam. Inches	For Chain Size Inches	Dimensions Flange Inches	Height Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
	¾	¾	5¼ x 4	1¾	8	1	10	2



Fig. 741

ROPE DECK PIPES — Fig. 741

Chrome Plated Bronze

No.	For Rope Diam. Inches	Diam. Flange Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
0	¾	3	8	1	10	¾
1	¾ & 1	4¼	8	1	10	1¾

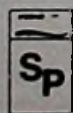


Fig. 757

ROPE DECK PIPE — Fig. 757

Chrome Plated Zinc

No.	For Rope Diam. Inches	Diam. Flange Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
1	¾	3¾	8	1	10	½



➔ This item available in SKIN PACK, See Section L.

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.

BOW EYES — Fig. 237

Stainless Steel 300 Series Non-Magnetic with Stainless Steel Nuts & Washers

No.	Length Shank Inches	Diameter Shank Inches	Length Thread Inches	Inside Eye Inches	O.E.M. Package	Weight Ounces	*Safe Working Load Pounds
1	3	5/16	3	1	25	4	1800
2	6	5/16	6	1	—	5½	1800
3	3	3/8	3	1½	25	5	3000
4	3¾	½	3¾	1½	—	12	4600

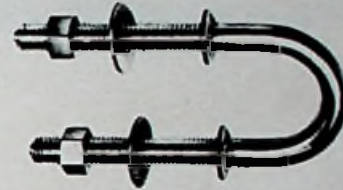


Fig. 237

Standard Package, Nos. 1 thru 3, 10 Pieces. No. 4, 5 Pieces.

Fig. 237 No. 1 available in SKIN PACK, See Section L.

BOW EYE — Fig. 1235

Chrome Plated Zinc Eye — Zinc Plated Steel "U" Bolt, Nuts and Washers

Length Shank Inches	Length Thread Inches	Diameter Shank Inches	Inside Eye Inches	Standard Package	O.E.M. Package	Weight Ounces
3	2¾	3/8	1	10	50	11

*SAFE WORKING LOAD 2000 POUNDS

This item available in SKIN PACK, See Section L.

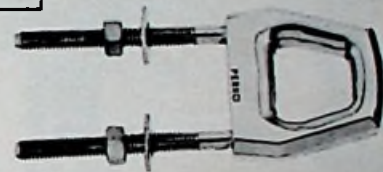
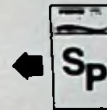
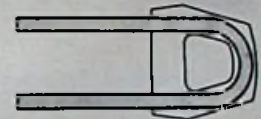
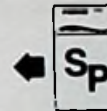


Fig. 1235



TRANSOM EYES — Fig. 236

Stainless Steel 300 Series Non-Magnetic

Stainless steel finishing plate, nuts and washers

For use as towing or lashing eye

No.	Diameter Shank Inches	Length Shank Inches	Inside Eye Inches	Dimensions Plate Inches	Standard Package	Weight Ounces	*Safe Working Load Pounds
1	5/16	3	1	3 x 1¾	10	6	1800
3	3/8	3	1½	3 x 1¾	5	10	3000
4	½	3¾	1½	4 x 1¾	5	14½	4600

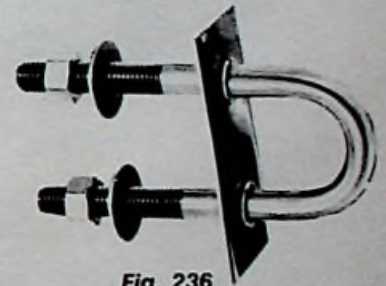


Fig. 236

WATER SKI TOWING HOOK — Fig. 863

Chrome Plated Zinc Body — Zinc Plated Steel Bolt, Nuts and Washer

Length Overall Inches	Diameter Bolt Inches	Length Bolt Inches	Length Thread Inches	Standard Package	O.E.M. Package	Weight Ounces
6	5/16	3¾	2½	5	25	10

This item available in SKIN PACK, See Section L.

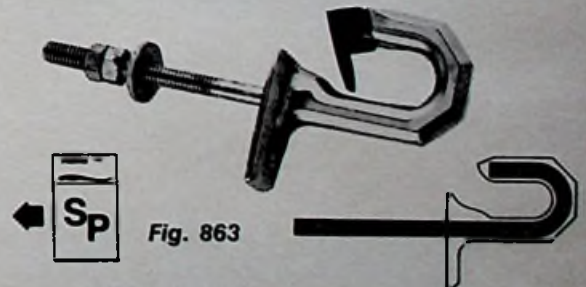
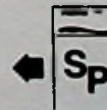


Fig. 863



***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.



Fig. 434

LIFTING EYE AND CLEAT — Fig. 434

Chrome Plated Manganese Bronze

***SAFE WORKING LOAD 4000 POUNDS**

For Rod Inches	I.D. Eye Inches	Length Cleat Inches	Dimensions Base Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
5/8	1 1/16	5 1/16	3 1/2 x 2 1/2	10	1	10	18

LIFTING EYES — Figs. 429 & 430

Chrome Plated Manganese Bronze

***SAFE WORKING LOAD 3000 POUNDS**

Fig.	For Rod Inches	I.D. Eye Inches	O.D. Eye Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
429	5/8	1 1/2	2 1/4	8	1	10	19
430	5/8	1 1/2	2 1/4	8	1	10	17



Fig. 430
LOOSE FLANGE



Fig. 429
INTEGRAL FLANGE

***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.

LASHING EYES — Fig. 423

Chrome Plated Manganese Bronze



Fig. 423

No.	Plate Size Inches	Eye Size Inches	Bolt Size	Standard Package	Weight Ounces
1	4 x 2 1/2	1 x 1	1/4	5	8
2	5 x 3 1/2	1 1/2 x 1	3/16	5	14 1/2

RINGS — Fig. 417

Brass



Fig. 417

No.	Inside Diam. Inches	Thick-ness Inches	Standard Package	No.	Inside Diam. Inches	Thick-ness Inches	Standard Package
1	1/2	1/8	10	4	1 1/4	3/16	5
2	3/4	1/8	10	5	1 1/2	7/32	5
3	1	3/16	10	6	1 3/4	1/4	5
				7	2	1/4	5

RING WITH STRAP — Fig. 1020

Cast Bronze — Plain Bronze or Chrome Plated Bronze



Fig. 1020

Strap Size Inches	Ring Inside Diam. Inches	Screw Size	Standard Package	Weight Ounces
4 1/8 x 5/8	1 1/2	8	5	4 1/2

STEP PLATES — Fig. 1043

Chrome Plated Bronze Frames

White Molded Soft Pastic Pads

No.	Dimensions Inches	Screw Size	Standard Package	Weight Pounds
0	8 x 2¼	4	6	½
1	8¾ x 3¼	6	6	¾
2	11½ x 5¾	8	6	1¾

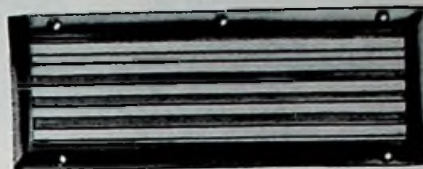


Fig. 1043

STEP PLATES — Fig. 1225

Chrome Plated Zinc Frames

White Molded Soft Plastic Pads

No.	Dimensions Inches	Screw Size	Standard Package	Weight Ounces
0	8¾ x 2¼	8	10	5
1	8¾ x 3¼	8	10	8
2	11½ x 5¾	8	10	12

Fig. 1225 Nos. 0 & 1 available in Skin Pack, See Section L.

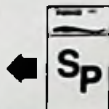


Fig. 1225

STEP PLATES — Fig. 1325

Chrome Plated Zinc Frames

Black Molded Soft Plastic Pads

No.	Dimensions Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
0	8¾ x 2¼	8	10	50	5
1	8¾ x 3¼	8	10	50	8

This item available in Skin Pack, See Section L.

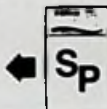


Fig. 1325

STEP PLATES — Fig. 1525

Chrome Plated Zinc Frames

Teak Molded Soft Plastic Pads

No.	Dimensions Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
0	8¾ x 2¼	8	10	50	5
1	8¾ x 3¼	8	10	50	8

This item available in Skin Pack, See Section L.

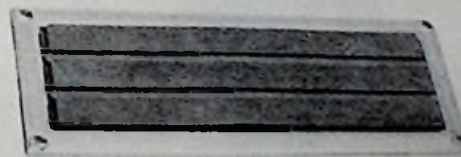
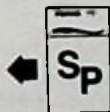


Fig. 1525

STEP PLATES — Fig. 1526

Teak Molded Plastic

Frame Not Required

No.	Dimensions Inches	Screw Size	Standard Package	Weight Ounces
0	9 x 2¼	8	10	2
1	9¾ x 2¾	8	10	4

This item available in SKIN PACK, See Section L.

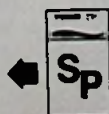


Fig. 1526

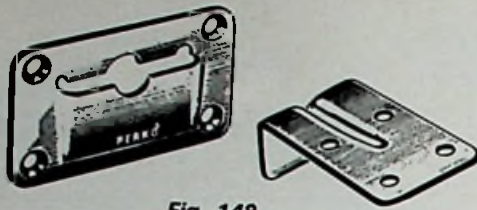


Fig. 148

TABLE BRACKETS — Fig. 148

Chrome Plated Brass

For Removable Tables — Supplied in sets consisting of two brackets and two wall plates

Dimensions Angle Bracket Inches	Dimensions Wall Plate Inches	Screw Size	Standard Package	O.E.M. Package	Weight Per Set Ounces
2 $\frac{3}{4}$ x 1 $\frac{1}{16}$	3 $\frac{3}{8}$ x 2	10	5 Sets	25 Sets	12



Fig. 669

LADDER LOCKS — Fig. 669

Chrome Plated Cast Bronze

Height Inches	Length Socket Inches	Length Bracket Inches	Screw Size	Standard Package	O.E.M. Package	Weight Per Set Ounces
1 $\frac{1}{4}$	1	1 $\frac{1}{4}$	8	5 Sets	25 Sets	12

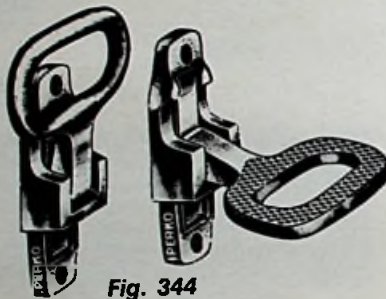


Fig. 344

FOLDING STEP — Fig. 344

Cast Bronze — Plain Bronze or Chrome Plated Bronze
Stainless Steel Spring holds step in open or closed position

Step Size Inches	Base Size Inches	Projection Folded Inches	Bolt Size	Weight Pounds
4 x 2	4 $\frac{1}{4}$ x 1 $\frac{1}{4}$	$\frac{7}{8}$	$\frac{5}{16}$ R.H.	1 $\frac{1}{8}$



Fig. 351

FIXED STEP — Fig. 351

Cast Bronze — Plain Bronze or Chrome Plated Bronze

Dimensions Of Step Inches	Dimensions Mounting Bracket Inches	Bolt Size	Weight Pounds
6 x 4 $\frac{1}{4}$	6 x 2	$\frac{5}{16}$ R.H.	1 $\frac{1}{8}$



Fig. 501

FIXED STEP — Fig. 501

Cast Bronze — Plain Bronze or Chrome Plated Bronze

Dimensions Of Step Inches	Dimensions Mounting Bracket Inches	Bolt Size	Weight Pounds
11 x 4 $\frac{1}{2}$	11 x 2	$\frac{5}{16}$ R.H.	2 $\frac{7}{8}$

FITTINGS FOR WOOD GUARD RAILS

Chrome Plated Bronze

HINGE—Fig. 180

LATCH—Fig. 185

No.	Size Rail Inches	Length Overall Inches	Screw Size	Weight Pounds
1	2 3/8 x 1 3/8	5	8	3/4
2	2 7/8 x 1 1/4	5 1/2	8	1



Fig. 180

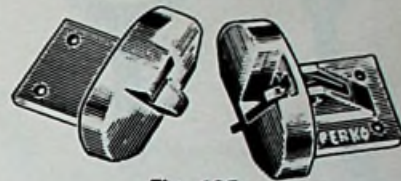


Fig. 185

FLUSH TYPE FLAG POLE SOCKETS — Figs. 218 & 219

Chrome Plated Bronze

No.	Inside Diam. Inches	Diam. Flange Inches	Depth Socket Inches	Screw Size	Weight Ounces
1	3/4	2	1 1/2	8	4 1/2
2	1	2 3/8	1 3/4	8	5
3	1 1/4	2 5/8	2	8	9



Bow
Fig. 218



Stern
Fig. 219

UPRIGHT TYPE FLAG POLE SOCKETS — Figs. 220 & 221

Chrome Plated Bronze

No.	Inside Diam. Inches	Diam. Base Inches	Height Inches	Screw Size	Weight Ounces
1	3/4	2 1/8	1 3/4	8	5 1/4
2	1	2 1/2	2	8	6 3/4
3	1 1/4	2 3/4	2 1/8	8	10 3/4



Bow
Fig. 220



Stern
Fig. 221

CLAMP-ON FLAG POLE SOCKET — Fig. 1302

Chrome Plated Zinc — Black Plastic Knob

No.	Inside Diameter Inches	Rail Size Inches	Dimensions Inches	Weight Ounces
1	3/4	1/2-1	2 x 1 1/4	11

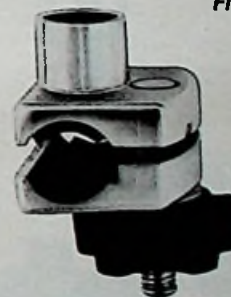


Fig. 1302

FLAG STAFF — Fig. 495

Chrome Plated Brass Tube — Chrome Plated Zinc Base With O-Ring

No.	Length Inches	Diam. Base Inches	Standard Package	Weight Ounces
1	14	1/2	5	3
2	14	3/4	5	4
3	18	3/4	1	5



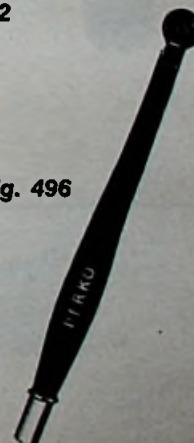
Fig. 495

Fig. 496

FLAG STAFF — Fig. 496

Varnished Mahogany — Aluminum Ferrule

No.	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



**ROWLOCK HORNS AND SOCKETS
ZINC OR MANGANESE BRONZE**



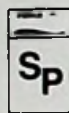
Fig. 1227



Fig. 1267



Fig. 1262



HORNS ONLY — Figs. 1227, 1262 & 1267

Zinc — Natural or Chrome Plated

Diam. Shank Inches	Length Shank Inches	Between Horns Inches	Inside Diam. Fig. 1267 Inches	Standard Package	Weight Per Pair Ounces
1/2	1 1/4	1 1/4	2	10 Pr.	9

These items available in Skin Pack, See Section L.



Fig. 1185



Fig. 1187

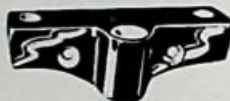
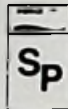


Fig. 1186



SOCKETS ONLY — Figs. 1185, 1186 & 1187

Zinc — Natural or Chrome Plated

Black Plastic Bearings for Smooth Operation

Fig.	Length Inches	Width Inches	Depth Inches	Screw Size	Standard Package	Weight Per Pair Ounces
1185	2 1/8	1 1/4	1 1/8	10	10 Pr.	5
1186	4	7/8	1 1/8	10	10 Pr.	9
1187	4	—	1 1/4	10	10 Pr.	6

Combinations of above Sockets and Horns are available in Skin Pack, See Section L.



Fig. 828



Fig. 830



Fig. 829

HORNS ONLY — Figs. 828, 829 & 830

Manganese Bronze — Burnished

Straight Shanks

Fig.	Size No.	Between Horns Inches	Inside Diam. Inches	Diam. Shank Inches	Length Shank Inches	Standard Package	Weight Per Pair Ounces
828		2	—	1/2	2 1/8	5 Pr.	13
829	0	—	2	1/2	2 1/8	5 Pr.	14
829	1	—	2 1/4	1/2	2 1/8	5 Pr.	16
830		2 1/2	—	1/2	2 1/8	5 Pr.	13



Fig. 831



Fig. 832



Fig. 833

SOCKETS ONLY — Figs. 831, 832 & 833

Manganese Bronze — Burnished

Fig.	Length Inches	Width Inches	Depth Inches	Screw Size	Standard Package	Weight Per Pair Ounces
831	2 1/8	7/8	1	10	5 Pr.	4
832	3 1/8	—	1 1/8	10	5 Pr.	7
833	4	3/4	1 1/4	10	5 Pr.	8



Fig. 233

OAR LEATHERS AND BUTTONS — Fig. 233

Leather

Dimension Leathers Inches	Dimension Buttons Inches	Standard Package	Weight Per Pair Ounces
7 x 6 1/2	1/2 x 13	5 Pr.	10

Note, Pair Consists Of 2 Leathers and 2 Buttons.

BOAT HOOK HOLDERS — Fig. 492

Polished Stainless Steel

Length Inches	Width Inches	Maximum Pole Size Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
3½	1	1½	6	10 pr.	50 pr.	1½

This item available in SKIN PACK, See Section L.

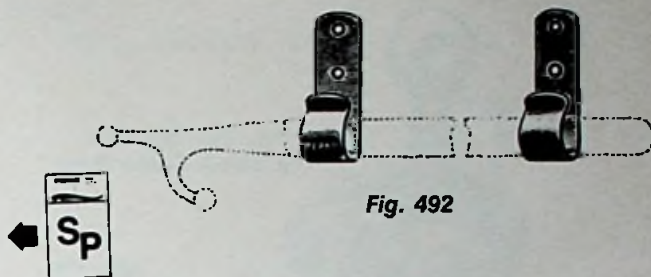


Fig. 492

SPRING CLAMPS — Fig. 502

Polished Stainless Steel

No.	Adjustability Inches	Length From Wall Inches	Width of Metal Inches	Screw Size	Standard Package	Weight Per Pair Ounces
1	5/8 to 1¼	1½	½	6 R.H.	10 pr.	2
2	1 to 1¾	2¼	5/8	6 R.H.	10 pr.	2½

Fig. 502 No. 1 available in SKIN PACK, See Section L.

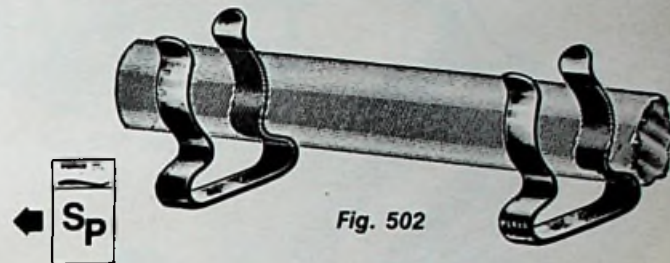


Fig. 502

HAND WINDSHIELD WIPERS — Fig. 533

For Straight and Curved Windshields — Stainless Steel Arm and Blade Holder — Other Parts Chrome Plated Zinc

Arm can be extended from 6¾ to 10½ inches and spring tension is adjustable.

Length Overall Inches	Diam. Shaft Inches	Maximum Thickness Inches	Length Handle Inches	Length Blade Inches	O.E.M. Package	Weight Ounces
8 to 11½	3/8	1¼	2¾	12	25	8

This item available in SKIN PACK, See Section L.

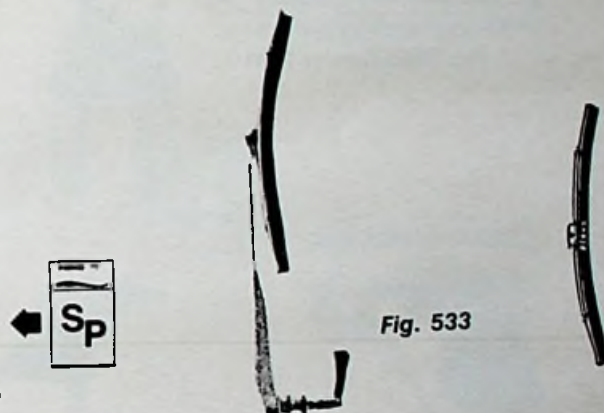


Fig. 533

TRANSOM PLATES — Fig. 1224

Chrome Plated Zinc Frame

Molded Soft Plastic Pad

For outboard motor brackets.

Length Overall Inches	Inside Diameter Inches	Screw Size	Standard Package	Weight Per Pair Ounces
3½	1¼	8	10 Pr.	2¾

This item available in SKIN PACK, See Section L.



Fig. 1224

AXE BRACKETS — Fig. 325

Chrome Plated Brass Blade Socket

18-8 Polished S/S Bracket

Blade Width Inches	Blade Socket Screw Size	Bracket Screw Size	Standard Package	Weight Per Set Ounces
6	10 R.H.	6	10 Sets	4½



Fig. 325



Fig. 380 End Post
Fig. 380-A Center Post



Fig. 413 End Post
Fig. 413-A Center Post

Fig. 1297 End Post
Fig. 1298 Center Post



Fig. 1337



Fig. 1347



Fig. 497 — Aluminum
Fig. 498 — Stainless Steel
Fig. 916 — Stainless Steel

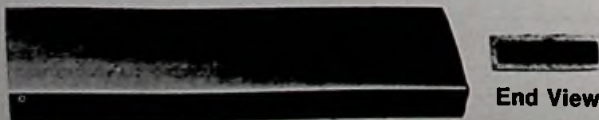


Fig. 1339—Aluminum

GRAB RAIL POSTS — Figs. 380 & 380-A
Chrome Plated Bronze

Hollow — For 1 inch O.D. Tubing

Height Inches	Diam. Base Inches	Screw Size	Standard Package	Weight Ounces
3 3/4	2 1/2	8	1	10

GRAB RAIL POSTS — Figs. 413 & 413-A

Chrome Plated Bronze

Hollow — for 1 inch O.D., 20 gauge Tubing

Fig.	Height Inches	Dimensions		Screw Size	Standard Package	Weight Ounces
		Base Inches				
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

Chrome Plated Zinc

Hollow — for 3/4 inch O.D. Tubing

Height Inches	Diam. Base Inches	Screw Size	Weight Ounces
1 3/4	1 1/8	6	2 3/4

Standard Package, Fig. 1297.—4 pcs. Fig. 1298—2 pcs.

GRAB RAIL POSTS — Figs. 1337 & 1347

Chrome Plated Zinc and Black Plastic

For rectangular Tubing, Fig. 1339

Fig.	Height Inches	Base Inches	Screw Size	Standard Package	Weight Ounces
1337	1 3/8	1 3/8 x 1 1/16	1/4	1	3
Fig.	Height Inches	Base Inches	Stud Size	Standard Package	Weight Ounces
1347	1 3/8	1 3/8 x 1 1/16	1/4 x 1 3/4	1	4

ANODIZED ALUMINUM TUBING — Fig. 497

Outside Diam. Inches	Length Feet	Standard Package*	Weight Ounces
3/4	6	3	10

STAINLESS STEEL TUBING — Figs. 498 & 916

Polished Stainless Steel 18-8

Fig.	Outside Diam. Inches	Length Feet	B & S Gauge	Standard Package*	Weight Pounds
498	1	6	20	3	2 1/4
916	7/8	6	18	3	2 3/4

ANODIZED ALUMINUM TUBING — Fig. 1339

Outside Dimensions Inches	Length Feet	Standard Package*	Weight Pounds
1 1/8 x 3/8	6	5	1

*Note: All Above Tubing Sold only in Standard Packages

RAIL FITTINGS

Chrome Plated Bronze
With Stainless Steel Allen Set Screws — For 7/8 inch O.D. Tubing

ROUND ANGLE BASE — Fig. 992

Diameter	Angle	Height	Bolt	Weight
Base	Degrees	Inches	Size	Ounces
2 3/8	60	1 3/4	1/4	8

ROUND STRAIGHT BASE — Fig. 973

Diameter	Height	Bolt	Weight
Base	Inches	Size	Ounces
2 3/8	1 5/8	1/4	7

RECTANGULAR ANGLE BASE — Fig. 981

Dimensions	Angle	Height	Bolt	Weight
Base	Degrees	Inches	Size	Ounces
2 7/8 x 1 1/4	60	1 3/4	1/4	8

RECTANGULAR STRAIGHT BASE — Fig. 977

Dimensions	Height	Bolt	Weight
Base	Inches	Size	Ounces
2 3/4 x 1 3/4	1 5/8	1/4	6 1/2

ANGLE TEE — Fig. 990

Port or Starboard

Length	Angle	Height	Bolt	Weight
Inches	Degrees	Inches	Size	Ounces
2	60	2 3/16	1/4	6

PLEASE SPECIFY PORT OR STARBOARD,
ILLUSTRATION IS STARBOARD SIDE.

STRAIGHT TEE — Fig. 989

Length	Height	Bolt	Weight
Inches	Inches	Size	Ounces
2	2	1/4	6

BOW FORM — Fig. 993

With 3/4" Flag Pole Socket

Width	Angle	Weight
Overall	Degrees	Ounces
4 1/4	110	12 1/2

GRAB RAILS — Fig. 936

18-8 Stainless Steel 7/8" Tubing
Chrome Plated Brass Ends
Chrome Plated Bronze Bases

No.	Length	Height	Bolt	Weight
	Overall	Under	Size	Pounds
	Inches	Tubing		
		Inches		
1	12	1 1/4	8	1
2	18	1 1/4	8	1 3/4



Fig. 992



Fig. 973



Fig. 981

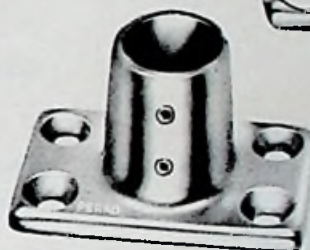


Fig. 977



Fig. 990



Fig. 989



Fig. 993

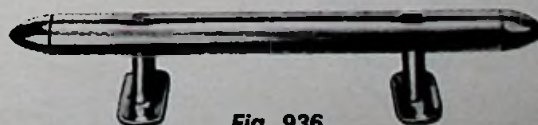


Fig. 936



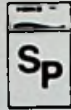
Fig. 1299

FENDER LOCK — Fig. 1299

Chrome Plated Zinc

Eye is permanently attached to fender line for quick and easy installation.

Diameter Flange Inches	I.D. Eye Inches	Screw Size	Standard Package	Weight Ounces
1½	¾	8	10	1



This item available in SKIN PACK, See Section L.

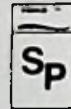


Fig. 1246

FENDER HOOK — Fig. 1246

Chrome Plated Zinc

For Rope Diam. Inches	Size Plate Inches	Screw Size	Standard Package	Weight Ounces
¾	1¼ x 1¼	6	10	1¼



This item available in SKIN PACK, See Section L.



Fig. 1309

SNAP TYPE FENDER HOOK — Fig. 1309

Chrome Plated Zinc

For Rope Diam. Inches	Size Plate Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
¼	1½ x 1½	6	10	100	1½

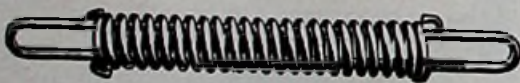


Fig. 759

DOCK LINE SPRINGS — Fig. 759

A strong Compression Spring designed to relieve strain on dock or mooring lines

No.	For Rope Diam. Inches	Length Overall Inches	Diameter Inches	Compression Inches	Standard Package	Weight Pounds
1	½	10	1½	4½	5	7/8
2	¾	18	2	8	1	2¼



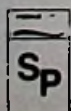
Fig. 1017

RING BUOY HOLDER — Fig. 1017

Wrought Brass

Plain Brass or Chrome Plated Brass

Mounting Plate Inches	Height Overall Inches	Screw Size	Weight Pounds
3	4½	8	½



This item available in SKIN PACK, See Section L.

FAST EYE BOAT SNAPS — Fig. 612

Cast Bronze

Size No.	Inside Diam. Eye Inches	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



Fig. 612

SWIVEL EYE BOAT SNAPS — Fig. 613

Cast Bronze

Size No.	Inside Diam. Eye Inches	Length Inches	Standard Package	Weight Per 100 Pounds
1	3/16	3 1/4	10	12 1/2
2	1 1/16	3 5/8	10	16
3	3/4	4 5/8	10	30



Fig. 613

SWIVEL EYE SNAP — Fig. 659

Cast Bronze

Inside Diam. Eye Inches	Length Inches	Inside Hook Inches	Standard Package	O.E.M. Package	Weight Ounces
3/4	3 1/2	7/16	25	100	2 1/2

This item available is SKIN PACK, See Section L.

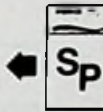


Fig. 659

SWIVEL EYE SNAP — Fig. 1289

Chrome Plated Zinc

Interlocking Tongue

Inside Diam. Eye Inches	Length Inches	Standard Package	O.E.M. Package	Weight Per 100 Pounds
5/8	3	25	100	12 1/2

This item available is SKIN PACK, See Section L.

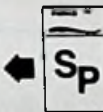


Fig. 1289

FAST EYE BABY SNAP — Fig. 842

Cast Bronze

Inside Diam. Eye Inches	Length Inches	Standard Package	Weight Ounces
3/8	1 1/8	50	1/2



Fig. 842

SWIVEL EYE BABY SNAPS — Figs. 1041 & 1042

Cast Bronze

Fig.	Inside Diam. Eye Inches	Length Inches	Standard Package	Weight Ounces
1041	5/8 x 3/16	1 1/4	50	1/2
1042	3/8	2 1/8	50	1/2



Fig. 1041



Fig. 1042

NOTE: THE SNAPS ILLUSTRATED ON THIS PAGE SHOULD NOT BE USED FOR LIFTING, WINCHING, TOWING OR MOORING, OR LIKE APPLICATIONS.



Fig. 614

FAST EYE SNAP HOOK — Fig. 614
18-8 STAINLESS STEEL — Non Magnetic
Interlocking Tongue

Length Inches	I.D. Eye Inches	Diam. Steel Inches	Standard Package	Weight Ounces
3	3/8	5/16	10	2 1/2

SAFE WORKING LOAD 350 POUNDS

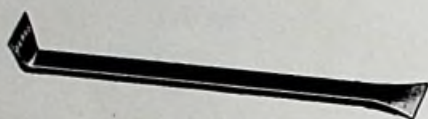


Fig. 1175

DOUBLE END SCRAPER — Fig. 1175

Steel — Heat Treated

Length Inches	Width Inches	Thick- ness Inches	Width Blade Inches	Standard Package	Weight Pounds
15	1	1/4	1 3/4	5	1



Fig. 307

CAULKING IRONS — Fig. 307

Malleable Iron

Size No.	Thickness Inches	Length Inches	Width Blade Inches	Standard Package	Weight Ounces
00	1/32	5	2	10	5
0	1/16	5 5/8	2 1/2	10	6 1/2
1	1/8	5 7/8	2 3/4	10	7



Fig. 411

SAIL MAKERS PALM — Fig. 411

Hide Mounted — Right Hand

Standard Package	Weight Ounces
10	2

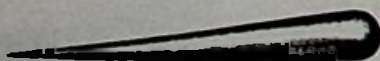


Fig. 923

WOOD HAND FIDS — Fig. 923

Varnished maple

No.	Size Inches	Standard Package	Weight Ounces
0	12 x 1 1/4	2	4 1/2
1	14 x 1 1/4	2	6 1/2
2	16 x 2	2	8
3	18 x 2	2	8 1/2
4	20 x 2 1/4	2	14

ANCHOR SHACKLES — Fig. 314

Galvanized Drop Forged Steel — Screw Pin Type

No.	Size Inches	Standard Package	Weight Per 100 in Pounds	Safe Working Load Pounds
1	3/16	10	7	400
2	1/4	10	11	600
3	5/16	10	20	800
4	3/8	10	31	1400
5	7/16	10	47	1800
6	1/2	10	68	2400
7	5/8	5	137	3800
8	3/4	5	220	5600



Fig. 314

WIRE ROPE THIMBLES — Fig. 466

Zinc Plated Or Stainless Steel

No.	For Rope Diam. Inches	Standard Package	Weight Per 100 in Pounds
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	10	27 1/8
8	3/4	10	40
9	7/8	10	55
10	1	10	79



Fig. 466

Note; Sizes 7 through 10 available in Zinc Plated Steel only.

"S" HOOKS — Fig. 680

Galvanized Wrought Steel

No.	Nominal Size Inches	Length Overall Inches	Standard Package	Weight Per 100 in Pounds
1	3/16	1 1/2	50	2 1/4
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

PETITE TURNBUCKLES — Fig. 396

Bronze

For Light Duty Applications — S.A.E. Threads

No.	Diam. Thread Inches	Length Extended Inches	Takeup Inches	Standard Package	Weight Per 100 in Pounds
1	1/8	3	3/4	5	3
3	3/16	5	1 1/2	5	11 1/2
4	1/4	5 3/4	1 7/8	5	15
5	5/16	6 1/8	2 1/4	5	24 1/2

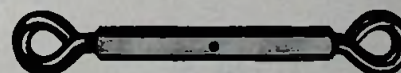


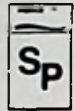
Fig. 396



Fig. 565

TILLER ROPE PULLEY — Fig. 565
Stainless Steel — White Plastic Sheave
Swivel Type with Strap — For 1/4" Rope

Diam. Sheave Inches	Length Overall Inches	Strap Inches	Screw Size	Standard Package	Weight Ounces
2 5/16	3 3/4	1 1/2	10 R.H.	10	2



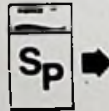
This item available in SKIN PACK, See Section L.



Fig. 634

TILLER ROPE PULLEY — Fig. 634
Stainless Steel — White Plastic Sheave
Swivel Snap Hook Type — For 1/4" Rope

Diam. Sheave Inches	Length Overall Inches	Snap Throat Opening Inches	Standard Package	Weight Ounces
2 5/16	4 5/8	1/2	10	2 1/2



This item available in SKIN PACK, See Section L.



Fig. 1255

TILLER ROPE PULLEY — Fig. 1255
Chrome Plated Zinc — White Plastic Sheave
Coaming Type — For 1/4" Rope

Diam. Sheave Inches	Dimensions of Plate Inches	Screw Size	Standard Package	Weight Ounces
2 5/16	4 7/8 x 1 1/4	8	10	2 1/2



Fig. 1256



Fig. 1261

TILLER ROPE GUIDES — Figs. 1256 & 1261
Chrome Plated Zinc

Size Hole Inches	Size Base Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
3/16	1 1/4 x 3/4	6	25	100	1/2



Fig. 1243

TILLER ROPE GUIDE — Fig. 1243
Chrome Plated Zinc — White Plastic Sheave

Diam. Sheave Inches	For Diam. Rope Inches	Size Base Inches	Screw Size	Standard Package	Weight Ounces
7/8	1/4	2 x 3/4	8	10	1 1/4

TILLER ROPE CLAMPS — Figs. 358 & 1226
For 1/8" and 3/16" Rope

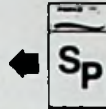
Fig. 358—Pressure Cast Bronze — Plain or Chrome Plated
 Fig. 1226—Die Cast Zinc — Natural or Chrome Plated

Fig.	Length Inches	Width Inches	Standard Package	Weight Ounces
358	1 1/4	1 1/16	20	1
1226	1 1/4	1 1/16	50	1

Fig. 1226 Chrome available is SKIN PACK, See Section L.



Fig. 358 Bronze
 Fig. 1226 Zinc



TILLER ROPE TIGHTENERS — Figs. 732 & 754

Fig. 732-C—Cadmium Plated Steel
 Fig. 732-SS—18-8 Stainless Steel
 Fig. 754—Cadmium Plated Steel

Fig.	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	3/8	25	3

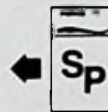
Figs. 732-C & 732-SS available is SKIN PACK, See Section L.



Fig. 732-C
 Fig. 732-SS



Fig. 754



FLANGE EYE — Fig. 1236

Chrome Plated Zinc

Size Opening Inches	Size Base Inches	Screw Size	Standard Package	Weight Ounces
3/4	2 5/16 x 1 1/16	6	10	1



Fig. 1236

EYE STRAPS — Figs. 562 & 1242

Fig. 562—18-8 Stainless Steel
 Fig. 1242—Chrome Plated Zinc

Fig.	Length Inches	Size Eye Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
562	1 3/4	1/4	10 R.H.	50	100	1/8
1242	1 3/4	5/16	8	50	100	1/4

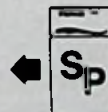
Fig. 1242 available is SKIN PACK, See Section L.



Fig. 1242



Fig. 562



EYE STRAPS — Fig. 881

Forged Bronze — Natural Bronze or Chrome Plated Bronze

No.	Length Inches	Size Eye Inches	Stock in Eye Inches	Screw Size	Standard Package	Weight Ounces
0	1 3/4	1/4	1/4	8	50	1/2
1	2 1/4	3/16	3/32	10	50	3/4
2	2 3/4	1/2	5/16	10	25	1 1/2



Fig. 881

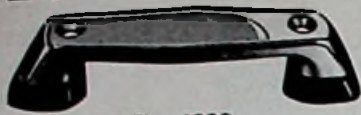


Fig. 1336

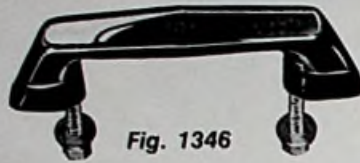
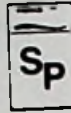


Fig. 1346



CHROMALEX® HANDLES — Figs. 1336 & 1346

Chrome Plated Zinc and Black Plastic

Fig. 1336 for 1/4" Screws

Fig. 1346 with Studs, Nuts and Washers

Length Overall Inches	Length Inside Inches	Height Inside Inches	Stud Size	Standard Package	Weight Ounces
6 1/4	3 1/2	1	1/4-20 x 1 1/2	1	10

Fig. 1336 available in SKIN PACK, See Section L.

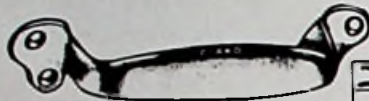


Fig. 1229



HANDLE — Fig. 1229

Chrome Plated Zinc

Length Overall Inches	Length Inside Inches	Height Inside Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
5 1/4	3 1/2	1 1/2	6	10	100	2 1/4

This item available in SKIN PACK, See Section L.

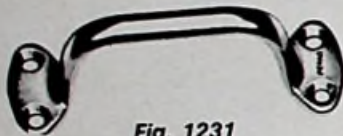
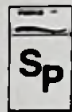


Fig. 1231



HANDLE — Fig. 1231

Chrome Plated Zinc

Length Overall Inches	Length Inside Inches	Height Inside Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
6	3 1/2	1 5/16	1/4"	10	100	7 1/4

This item available is SKIN PACK, See Section L.

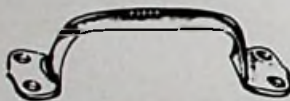


Fig. 775 — Chrome Plated Bronze
Fig. 1222 — Chrome Plated Zinc

HANDLES — Fig. 775 & 1222

Fig. 775—Chrome Plated Bronze

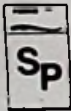
Fig. 1222—Chrome Plated Zinc

Fig.	No.	Height Inside Inches	Length Overall Inches	Length Inside Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
775	1	7/8	4 1/4	2 3/4	6	10	50	2
775	2	1 3/8	5 3/4	3 3/4	8	10	—	4
1222	—	1 1/4	5 3/4	3 3/4	8	10	100	3 1/2

Fig. 775 No. 2 available in SKIN PACK, See Section L.



Fig. 1234



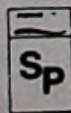
HANDLE — Fig. 1234

Chrome Plated Zinc

Length Inches	Height Above Deck Inches	Screw Size	Standard Package	Weight Ounces
6 1/2	2	8	10	5 1/2



Fig. 933



ANCHOR CHOCKS — Fig. 933

Cast Bronze — Plain Bronze or Chrome Plated Bronze

Fits Danforth® Type Anchors up to 90 pounds.*

Set consists of four parts illustrated.

Screw Size	Standard Package	Weight Per Set Pounds
10	5 Sets	2

*Except Danforth® models: 40-S, 65-S and 85-S.

This item available in SKIN PACK, See Section L.

PERKO®

door & cabinet

hardware

locks

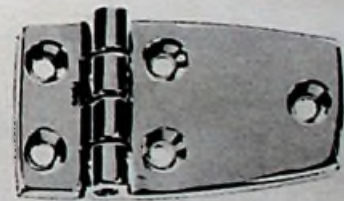
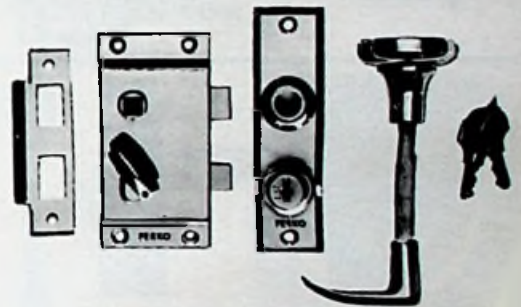
latches

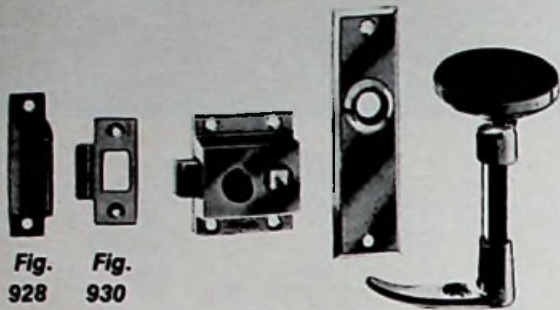
bolts

hinges

hasps

top fittings





RIM LATCH SETS — Figs. 928 & 930

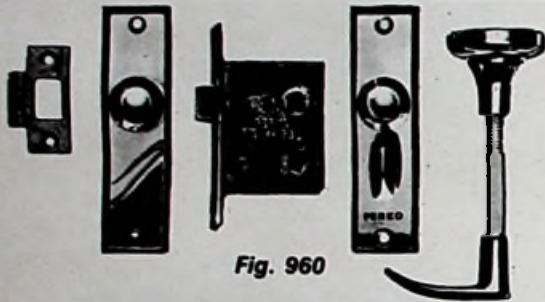
Chrome Plated Zinc

Fig. 928 — Regular Bevel with Box Strike

Fig. 930 — Reverse Bevel with Flush Strike

Locked by slide button from inside, no keys.

Size Case Inches	Size Escutcheon Inches	For Door Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
2 1/4 x 1 1/4	4 3/4 x 1 1/4	3/4-1 1/2	6	1	20	3/4

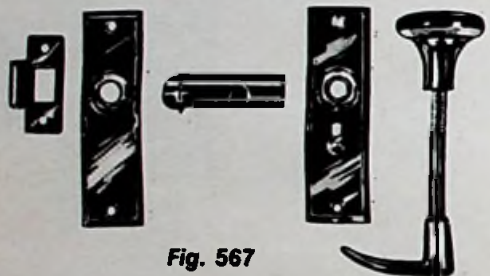


MORTISE LATCH SET — Fig. 960

Chrome Plated Zinc

Locked by dead bolt from inside, no keys.

Size Case Inches	Size Escutcheon Inches	For Door Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
2 1/4 x 1 1/16	4 3/4 x 1 1/4	1-1 1/2	6	1	10	1

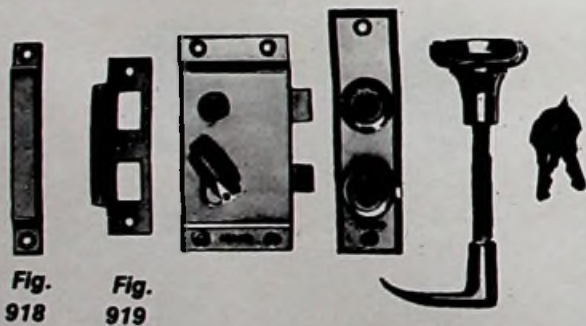


TUBULAR LATCH SET — Fig. 567

Chrome Plated Zinc

Locked by slide button from inside, no keys.

Size Escutcheon Inches	Diam. Tube Inches	For Door Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
4 3/4 x 1 1/4	3/4	1-1 1/2	6	1	25	3/4



RIM LOCK SETS — Figs. 918 & 919

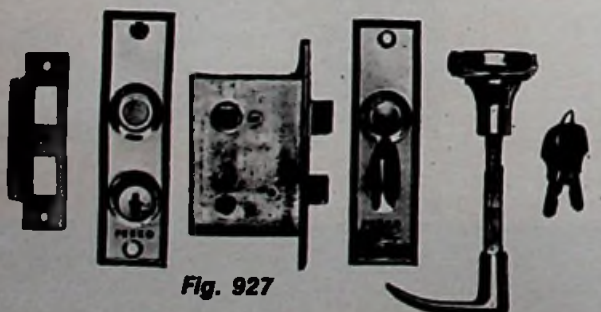
Chrome Plated Zinc

Fig. 918 — Regular Bevel with Box Strike

Fig. 919 — Reverse Bevel with Flush Strike

Locked by dead bolt from inside, or key from outside.

Size Case Inches	Size Escutcheon Inches	For Door Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
3 3/8 x 2	4 3/4 x 1 1/4	3/4-1 1/2	6	1	20	1 1/4



MORTISE LOCK SET — Fig. 927

Chrome Plated Zinc

Locked by dead bolt from inside or key from outside.

Size Case Inches	Size Escutcheon Inches	For Door Inches	Screw Size	Standard Package	O.E.M. Package	Weight Pounds
2 1/4 x 2	4 3/4 x 1 1/4	1-1 1/2	6	1	10	1 1/4



Figs. 918, 919, 928, AND 930 ARE AVAILABLE IN DISPLAY PACK, SEE SECTION "L".

NEW RIM LATCH SETS — Figs. 1279 & 1280

Flush Cup Type

Chrome Plated Zinc

Fig. 1279 — Regular Bevel with Box Strike

Fig. 1280 — Reverse Bevel with Flush Strike

Locked by slide button from inside, no keys.

Supplied with black plastic spacer for optional surface mounting.

Size Case Inches	Size Cup Inches	For Door Inches	Screw Size Case	Screw Size Cup	Weight Pounds
2 1/16 x 1 1/4	2 1/4	3/4-1 1/8	6	8	1

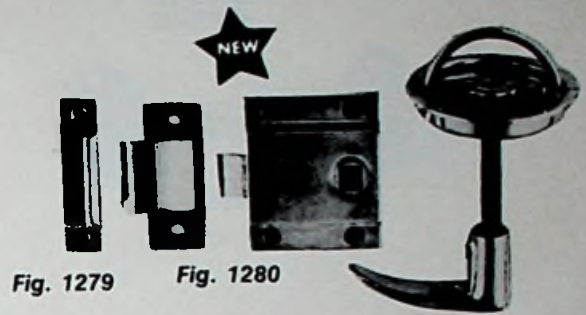


Fig. 1279

Fig. 1280

NEW FLUSH LOCK — Fig. 931

Black Plastic and Chrome Plated Zinc

Locking Type with Stainless Steel Tumbler Assembly
Supplied with two keys.

No. 1 with Flush Cam Bar and Flexible Plastic Strike Plate.
No. 2 with Offset Adjustable Cam Bar

Face Plate Inches	For Door Inches	Latch Bar Adjustment Inches	Weight Ounces
2 1/2 x 2 1/2	1/4-1 1/8	3/8-3	6



Fig. 931



NEW FLUSH LATCH — Fig. 932

Non Locking Type

No. 1 with Flush Cam Bar and Flexible Plastic Strike Plate

No. 2 with Offset Adjustable Cam Bar

This unit is the same design as Fig. 931 except without lock.



Fig. 932

FLUSH LOCK — Fig. 921

Chrome Plated Zinc

Locking Type with Stainless Steel Tumbler Assembly
Supplied with two keys.

Size Inches	For Door Inches	Weight Ounces
2 1/2 x 2	1/2-3/4	8



Fig. 921



FLUSH LATCH — Fig. 922

Non Locking Type

This unit is the same design as Fig. 921 except without lock.

Figs. 921 and 922 Available in Skin Pack, See Section L.

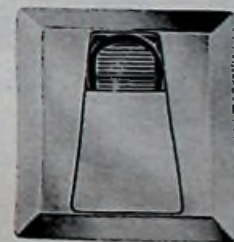
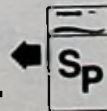


Fig. 922

LATCH — Fig. 948

Chrome Plated Zinc with Sliding Lock Button

Overall Dimensions Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
2 1/8 x 2 1/4	6	5	25	6

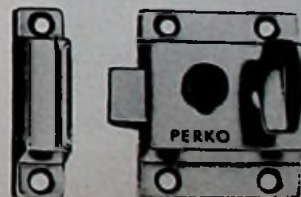


Fig. 948

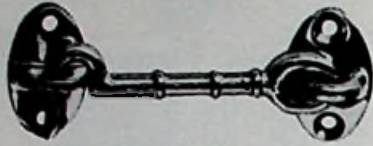


Fig. 956

CABIN DOOR HOOKS — Fig. 956
Plain Bronze or Chrome Plated Bronze

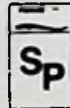
No.	Length Hook Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1	1½	6	5	50	1
2	2	6	5	50	1½
3	2½	6	5	50	1¾
4	3	6	5	50	2
5	3½	6	5	50	2½
6	4	6	5	50	3
7	5	6	5	50	3½
8	6	6	5	50	5



Fig. 1199

CABIN DOOR HOOKS — Fig. 1199
Chrome Plated Zinc

No.	Length Hook Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1	1¾	6	20	50	1¼
2	2¼	6	20	50	1¾
3	3	6	20	50	1½
4	4	6	20	50	1¾



➔ Fig. 1199 No. 1 Available in Skin Pack. See Section L.

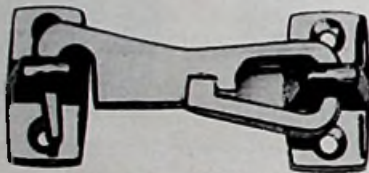


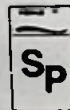
Fig. 1287

CABIN DOOR HOOKS — Fig. 1287

Chrome Plated Zinc

Patent No. 197,531

No.	Length Hook Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1	2	6	20	50	1¼
2	2½	6	20	50	1½
3	3	6	20	50	1¾



➔ Fig. 1287 No. 2 Available in Skin Pack, See Section L.



Offset



Flush

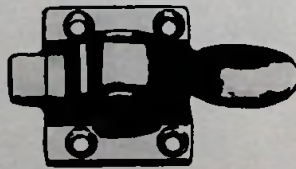


Fig. 1102

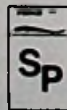
CUPBOARD CATCHES — Fig. 1102

Chrome Plated Zinc

No. 1 Supplied with Flush Strike

No. 2 Supplied with Offset Strike

No.	Overall Dimensions Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1	1½ x 1¼	6	5	50	3½
2	1½ x 1¼	6	5	50	3½



➔ This Item Available in Skin Pack, See Section L.



Fig. 1051

FLUSH RING CATCH — Fig. 1051

Chrome Plated Zinc — Phosphor Bronze Spring

Size Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
2¼ x 1¾	6	10	25	1½

***IMPROVED BARREL BOLTS — Fig. 947**

Plain Bronze or Chrome Plated Bronze

*Supplied with Black Friction Pad to eliminate rattle and provide smooth operation.

No.	Length Rod Inches	Dimensions Overall Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1	2 3/4	3 7/16 x 1 7/16	6	5	25	4
2	3	4 5/16 x 1 7/16	6	5	25	4
3	4 1/4	5 1/4 x 1 7/16	6	5	25	5

Fig. 947 No. 2 Chrome Plated Available in Skin Pack, See Section L.

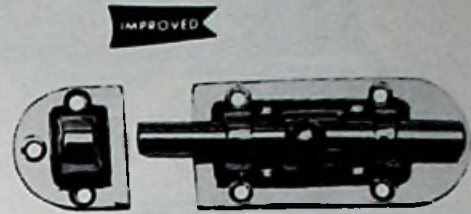
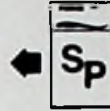


Fig. 947



SHIP BOLT — Fig. 1053

Chrome Plated Bronze

Overall Dimensions Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
2 3/4 x 1 1/4	6	5	25	1 3/4



Fig. 1053

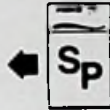
CUPBOARD BOLT — Fig. 1101

Chrome Plated Zinc - Black Plastic Slide and Knob

Overall Dimensions Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
2 1/8 x 1 1/2	6	5	50	2



Fig. 1101



This Item Available in Skin Pack, See Section L.

DOOR BUTTONS — Figs. 1216 & 1217

Chrome Plated Zinc — Black Plastic Knob

	Overall Diameter Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
Fig. 1216	1 3/4	6	10	50	1 1/2
Fig. 1217	1 3/4	6	10	50	1 1/2



Fig. 1216 With Spring



Fig. 1217 Without Spring

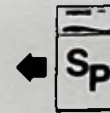


Fig. 1216 Available in Skin Pack, See Section L.

CUPBOARD TURN — Fig. 978

Chrome Plated Zinc

Overall Dimensions Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
2 3/8 x 2 3/8	6	5	25	5

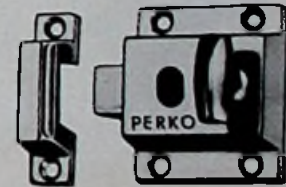


Fig. 978

FASTENER — Fig. 719

Chrome Plated Brass with Black Plastic Knob

Length Angle Inches	Width Angle Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1 3/8	1	8	5	25	3



Fig. 719

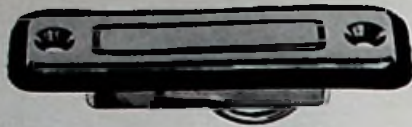
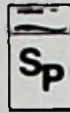
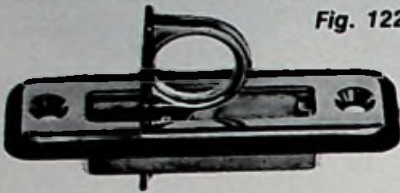


Fig. 1221



FLUSH PULL — Fig. 1221

Chrome Plated Zinc — with Black Plastic Finishing Flange Spring Loaded — Can be Mounted Horizontally or Vertically

Dimensions Inches	Screw Size	Standard Package	O.E.M Package	Weight Ounces
3/4 x 3/4	8	5	50	3

This Item Available in Skin Pack, See Section L.

NEW FLUSH RING PULLS — Fig. 1232

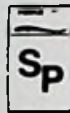
Chrome Plated Zinc

No.	Diameter Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1	1 1/4	6	5	50	1
2	2	6	5	50	1 1/2

Fig. 1232 No. 1 Available in Skin Pack, See Section L.



Fig. 1232



ELBOW CATCH — Fig. 1056

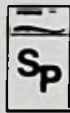
Chrome Plated Zinc

Dimensions Inches	Screw Size	Standard Package	O.E.M Package	Weight Ounces
1 1/8 x 3/16	6	10	50	3/4

This Item Available in Skin Pack, See Section L.



Fig. 1056



ELBOW CATCH — Fig. 1021

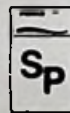
Black Plastic

Dimensions Inches	Screw Size	Standard Package	O.E.M Package	Weight Ounces
1 1/16 x 3/8	6	10	50	1/2

This Item Available in Skin Pack, See Section L.



Fig. 1021



MAGNETIC DOOR CATCH — Fig. 560

Corrosion Resistant Finish Retards Rusting

Dimensions Inches	Screw Size	Standard Package	O.E.M Package	Weight Ounces
1 1/2 x 1/2	4	25	100	1/2

DOOR CATCH — Fig. 554

White Plastic — Stainless Steel Spring

Brass Chrome Plated Screws — 18 Pound Pull

Length Catch Inches	Length Ball Head Screw Inches	Standard Package	O.E.M Package	Weight Ounces
1 1/16	3/4	25	100	1/4

DOOR CATCH — Fig. 559

Black Plastic

Stud Size Inches	Catch Size Inches	Screw Size	Standard Package	O.E.M. Package	Weight Per 100 Pounds
1 1/2 x 3/4	1 1/2 x 3/4	4	25	100	1

This Item Available in Skin Pack, See Section L.



Fig. 560

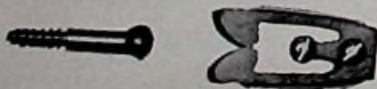


Fig. 554

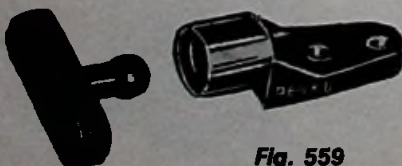
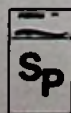


Fig. 559



NEW FLUSH RING PULLS — Figs. 1286 & 1288

Chrome Plated Zinc

Fig. 1286 with Black Plastic Spacer for Surface Mounting
Fig. 1288 for Flush Mounting

Diameter Inches	Screw Size	Standard Package	Weight Ounces
2 1/4	8	5	3 1/2



Fig. 1286
Fig. 1288

FLUSH RING PULL — Fig. 841

Chrome Plated Zinc

Dimensions Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1 1/4 x 1 1/4	6	10	50	1

This Item Available in Skin Pack, See Section L.



Fig. 841

FLUSH RING PULL — Fig. 1103

Chrome Plated Bronze

Dimensions Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
2 1/16 x 2	8	5	50	3 1/2

FLUSH LIFTING PULL — Fig. 575

Chrome Plated Bronze

Dimensions Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
2 1/2 x 2	8	5	50	3

This Item Available in Skin Pack, See Section L.



Fig. 1103



Fig. 575

FLUSH LIFTING HANDLES — Fig. 776

Plain Bronze or Chrome Plated Bronze

No.	Dimensions Inches	Inside Handle Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1	3 x 2 1/4	1 1/4 x 1	8	5	25	3 1/2
2	3 3/4 x 2 3/4	2 3/16 x 1 1/16	8	5	25	5 1/2

Size No. 2 has mounting holes at corners. Illustration is Size No. 1.

Fig. 776 No. 1 Chrome Plated Available in Skin Pack, See Section L.



Fig. 776

FLUSH LIFTING HANDLE — Fig. 1220

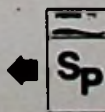
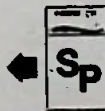
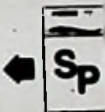
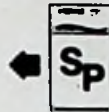
Chrome Plated Zinc

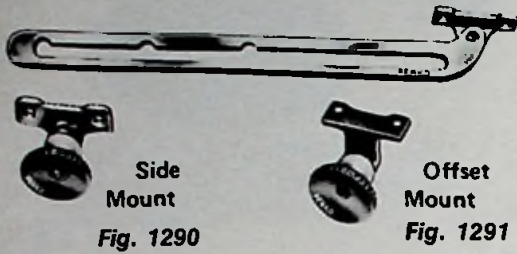
Dimensions Inches	Inside Handle Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
3 x 2 1/4	1 1/4 x 1	8	5	50	3

This Item Available in Skin Pack, See Section L.



Fig. 1220





WINDSHIELD ADJUSTERS — Figs. 1290 & 1291

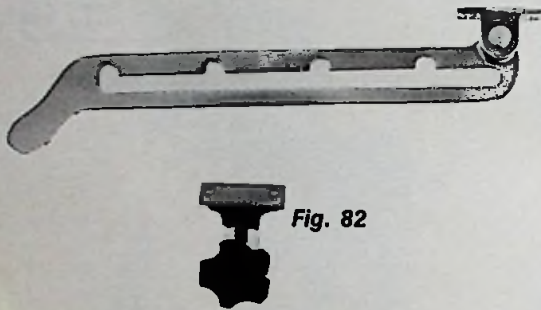
Chrome Plated Zinc — Black Plastic Knobs

Fig. 1290 — Side Mount

Fig. 1291 — Offset Mount

Length Overall Inches	Length Adjustment Inches	Diam. Knob Inches	Screw Size	Standard Package	O.E.M. Package	Weight Per Pair Pounds
12	9½	1¾	8	1 Pr.	10 Pr.	1½

NOTE: When ordering 1/2 pair, specify for Port or Starboard Side. Illustration is Port side.

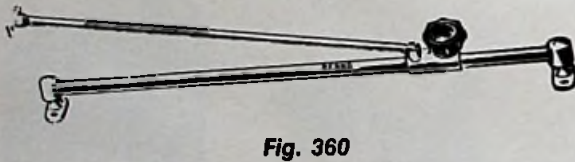


WINDSHIELD ADJUSTER — Fig. 82

Chrome Plated Bronze

Length Overall Inches	Length Adjustment Inches	Screw Size	Weight Per Pair Pounds
12	9½	8	2¾

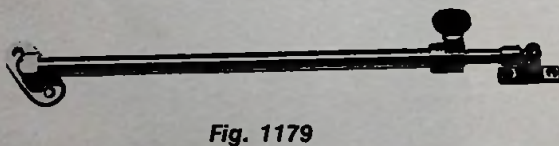
NOTE: When ordering 1/2 pair, specify for Port or Starboard side. Illustration is Starboard side.



WINDSHIELD ADJUSTER — Fig. 360

Chrome Plated Brass and Zinc

Length Base Overall Inches	Length Windshield Arm Inches	Length of Adjustment Inches	Bracket Screw Size	Deck Socket Screw Size	Weight Pounds
27½	23	22½	8	6	3¾

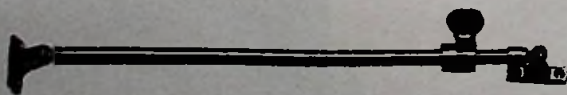


WINDSHIELD ADJUSTERS — Fig. 1179

Chrome Plated Brass and Zinc

Black Plastic Knob

No.	Length Closed Inches	Length Open inches	Diam. Outside Tube Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1	10	18	½	6	1	20	9
2	12	20	½	6	1	20	11



WINDSHIELD ADJUSTER — Fig. 1180

Chrome Plated Brass and Zinc

Black Plastic Knob

Length Closed Inches	Length Open Inches	Diam. Outside Tube Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
12	21	½	6	1	20	10

WINDSHIELD ADJUSTERS — Fig. 1116

Chrome Plated Brass and Zinc

Black Plastic Knob

No.	Length Inches	Diam. Rod Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1	8	3/8	8	1	20	8
2	10	3/8	8	1	20	10
3	12	3/8	8	1	20	12



Fig. 1116

HATCH ADJUSTER — Fig. 797

Chrome Plated Brass and Zinc

Black Plastic Knob

Length Arm Inches	Length Adjustment Inches	Length Slide Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
10	9 1/2	10 3/4	8	1	10	13



Fig. 797

HATCH FASTENER or WINDSHIELD KEEPER — Fig. 155

Chrome Plated Brass — with Phosphor Bronze Spring

Length Overall Inches	Size of Mounting Base Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
3 3/4	1 1/2 x 3/16	6	5	50	3 3/4

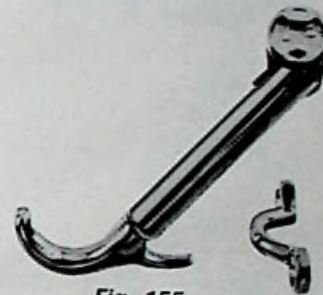


Fig. 155

HATCH FASTENER or WINDSHIELD KEEPER — Fig. 697

Chrome Plated Brass and Zinc

Dimensions Keeper Inches	Dimensions Plate Inches	Standard Package	Weight Ounces
1 1/2 x 3/8	1 1/2 x 3/4	10	3



Fig. 697

HATCH FASTENER or WINDSHIELD KEEPER — Fig. 769

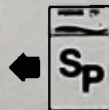
Chrome Plated Brass and Zinc — with Black Plastic Handle

Dimensions Base Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1 1/2 x 3/8	8	10	25	3



Fig. 769

This Item Available in Skin Pack, See Section L.



HATCH FASTENER or WINDSHIELD KEEPER — Fig. 967

Chrome Plated Bronze

Dimensions Keeper Inches	Dimensions Plate Inches	Screw Size	Standard Package	Weight Ounces
1 1/8 x 1	1 1/4 x 3/8	8	5	6



Fig. 967



Fig. 1112

HOLD-DOWN CLAMPS — Figs. 1112 & 1113
Chrome Plated Bronze

Flat Mounting Fig. 1112

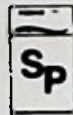
Length Inches	Width Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
3	1½	8	5	25	5½



Fig. 1113

Angle Mounting Fig. 1113

Length Inches	Width Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
2½	1½	8	5	25	5½



➤ Above Items Available in Skin Pack, See Section L.



Fig. 1108

ANTI-RATTLE FASTENER — Fig. 1108
Chrome Plated Bronze

Dimension Base Inches	Padlock Clearance Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
2¼ x 1¼	¼	6	5	25	4



Fig. 762

HATCH SUPPORT BRACES — Fig. 762
Chrome Plated Brass

No.	Length Open Inches	Screw Size	Standard Package	O.E.M. Package	Weight Per Pair Ounces
1	10	8	1 Pr.	20 Pr.	10
2	12	8	1 Pr.	20 Pr.	12
3	14	8	1 Pr.	20 Pr.	14



Fig. 770

HATCH FASTENER — Fig. 770
Chrome Plated Bronze

Dimension Overall Inches	Width Inches	Adjustment Thread Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
3¾	1¾	2¼	8	5	25	6

SLIDING WINDOW HANDLE — Fig. 954

Polished Stainless Steel

Length Inches	For Glass Inches	Standard Package	Weight Ounces
3	¼	5	1



Fig. 954

SLIDING WINDOW STOP — Fig. 935

Chrome Plated Zinc

Mounting Plate Inches	Length Stopping Plate Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1 7/8 x 3/4	1 1/2	8	5	50	2



Fig. 935

SLIDING WINDOW LOCK AND ANTI-RATTLER — Fig. 937

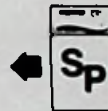
Chrome Plated Zinc with Black Plastic Knob and Tip

Height Overall Inches	Mounting Plate Inches	Adjustment Inches	Screw Size	Standard Package	Weight Ounces
1 1/4	1 x 3/4	1 1/4	6	5	1 1/4



Fig. 937

This Item Available in Skin Pack, See Section L.



SLIDING WINDOW LOCK and ANTI RATTLER — Fig. 934

Chrome Plated Zinc with Black Plastic Knob and Tip

Height Overall Inches	Mounting Plate Inches	Adjustment Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1	2 x 3/4	1 1/4	6	5	50	1 1/4



Fig. 934

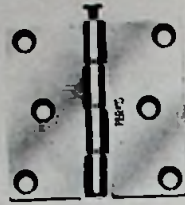


Fig. 1293

BUTT HINGES — Fig. 1293

Chrome Plated Zinc — with Removable Pin

No.	Pin Height Inches	Width Open Inches	Screw Size	Standard Package	O.E.M. Package	Weight Per Pair Ounces
2	1½	1½	8	5 Pr.	—	2
3	2	1½	8	5 Pr.	—	2½
4	2	2	8	5 Pr.	50 Pr.	3
5	2½	2	8	5 Pr.	—	4½
6	2½	2½	8	5 Pr.	—	5
7	3	3	10	5 Pr.	25 Pr.	7½

Sizes 2-3-4 have 4 Screw Holes, Sizes 5-6-7 have 6 Screw Holes.

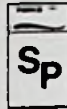


Fig. 1293 No. 4 Available in Skin Pack, See Section L.

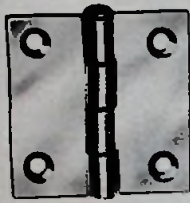


Fig. 952

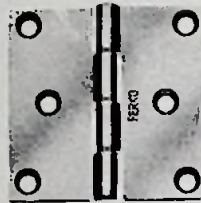


Fig. 949

BUTT HINGES — Fig. 952 & 949

Heavy Gauge Wrought Brass

Plain Brass or Chrome Plated Brass

Fig. 952 has a Removable Pin

Fig. 949 has a Fast Pin

No.	Pin Height Inches	Width Open Inches	Screw Size	Standard Package	O.E.M. Package Chrome	Weight Per Pair Ounces
1	1½	1¼	8	5 Pr.	25 Pr.	2
2	1½	1½	8	5 Pr.	25 Pr.	2½
3	2	1½	8	5 Pr.	25 Pr.	2¾
4	2	2	8	5 Pr.	25 Pr.	4
5	2½	2	8	1 Pr.	25 Pr.	5
6	2½	2½	8	1 Pr.	25 Pr.	6¼
7	3	3	10	1 Pr.	25 Pr.	9½

Sizes 1-2-3 have 4 Screw Holes, Sizes 4-5-6-7 have 6 Screw Holes.



Fig. 120

STRAP HINGES — Fig. 120

Plain Bronze or Chrome Plated Bronze

No.	Length Open Inches	Width At Pin Inches	Screw Size	Standard Package	O.E.M. Package Chrome	Weight Per Pair Ounces
1	4	1¼	10	5 Pr.	25 Pr.	6
2	6	1½	10	5 Pr.	25 Pr.	8
3	8	1¾	12	1 Pr.	25 Pr.	16

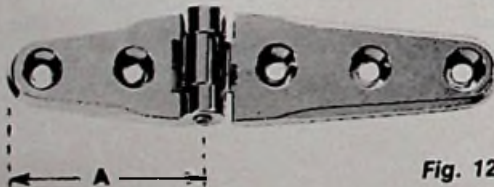


Fig. 122

SHORTSIDE STRAP HINGE — Fig. 122

Chrome Plated Bronze

No.	Length Open Inches	Width At Pin Inches	to Center of Pin Inches	Screw Size	Standard Package	O.E.M. Package Chrome	Weight Per Pair Ounces
	4¾	1¼	2½	10	1 Pr.	25 Pr.	7

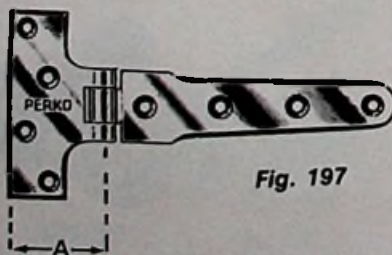


Fig. 197

"T" HINGES — Fig. 197

Plain Bronze or Chrome Plated Bronze

No.	Length Open Inches	Width Overall Inches	to Center of Pin Inches	Screw Size	Standard Package	O.E.M. Package Chrome	Weight Per Pair Ounces
1	4	2¼	1½	10	5 Pr.	25 Pr.	8
2	6	3	1½	10	1 Pr.	10 Pr.	16
3	8	3¾	2	12	1 Pr.	10 Pr.	25

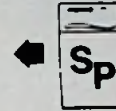
HINGE — Fig. 808

Chrome Plated Zinc

Length Open Inches	Width Inches	Screw Size	Standard Package	O.E.M. Package	Weight Per Pair Ounces
3	1½	8	5 Pr.	50 Pr.	3½



Fig. 808



This Item Available in Skin Pack, See Section L.

HINGES — Fig. 951

Chrome Plated Bronze

No.	Length Open Inches	Width Inches	Screw Size	Standard Package	Weight Per Pair Ounces
1	3	1½	8	5 Pr.	3½
2	4	1½	8	5 Pr.	5½



Fig. 951

HINGES — Figs. 987 & 1213

Chrome Plated Bronze or Chrome Plated Zinc

Fig. No.	Length Open Inches	Width Inches	Dimension "A" to Center of Pin Inches	Screw Size	Standard Package	O.E.M. Package	Weight Per Pair Ounces
987 1	2¼	1½	¾	8	5 Pr.	50 Pr.	3½
987 2	2¾	1½	¾	8	5 Pr.	50 Pr.	4
1213	2¼	1½	¾	8	5 Pr.	50 Pr.	3

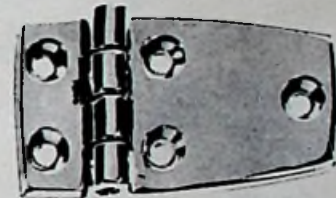


Fig. 987 — Chrome Plated Bronze
Fig. 1213 — Chrome Plated Zinc



HINGES — Figs. 988 & 1214

Chrome Plated Bronze or Chrome Plated Zinc

Fig. No.	Length Open Inches	Width Inches	Dimension "A" to Center of Pin Inches	Offset Inches	Screw Size	Standard Package	O.E.M. Package	Weight Per Pair Ounces
988 1	2¼	¾	¾	1½	8	5 Pr.	50 Pr.	4
988 2	2¾	¾	¾	1½	8	5 Pr.	50 Pr.	5
1214	2¼	¾	¾	1½	8	5 Pr.	50 Pr.	4

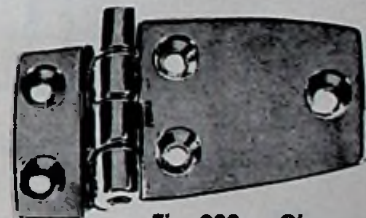
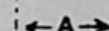


Fig. 988 — Chrome Plated Bronze
Fig. 1214 — Chrome Plated Zinc



HINGE — Figs. 999

Chrome Plated Bronze

Length Open Inches	Width Inches	Dimension "A" to Center of Pin Inches	Screw Size	Standard Package	O.E.M. Package	Weight Per Pair Ounces
3½	1½	1½	8	5 Pr.	25 Pr.	5



Fig. 999



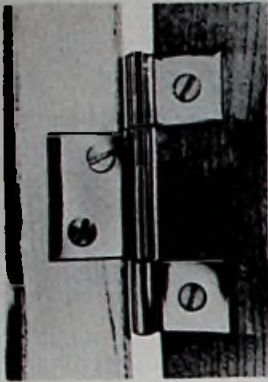
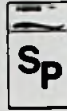


Fig. 957



Fig. 924



NON-MORTISED HINGE — Fig. 957

Plain Brass or Chrome Plated Brass

Pin Height Inches	Width Closed Inches	Screw Size	Standard Package	O.E.M. Package	Weight Per Pair Ounces
3 3/8	1 1/4	8	5 Pr.	50 Pr.	4

HINGE — Fig. 924

Chrome Plated Brass

Length Open Inches	Width Inches	Screw Size	Standard Package	O.E.M. Package	Weight Per Pair Ounces
3	1 1/2	6	5 Pr.	50 Pr.	2 1/2

This Item Available in Skin Pack, See Section L.



Fig. 1058

HINGES - Fig. 1058

Plain Brass or Chrome Plated Brass

No.	Length Open Inches	Width At Pin Inches	Screw Size	Standard Package	Weight Per Pair Ounces
1	2 1/4	3/4	4	10 Pr.	1/2
2	3	1 1/16	4	10 Pr.	1 1/2



Fig. 929

HINGE — Fig. 929

Polished Stainless Steel

Length Open Inches	Width Inches	Screw Size	Standard Package	O.E.M. Package	Weight Per Pair Ounces
2 1/16	3/4	4	10 Pr.	50 Pr.	1

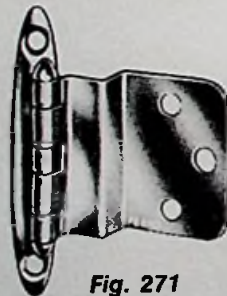


Fig. 271

HINGE — Fig. 271

Plain Brass or Chrome Plated Brass

For use on doors with 3/8" inset

Dimensions Inches	Screw Size	Standard Package	O.E.M. Package	Weight Per Pair Ounces
2 3/4 x 2 3/4	4	10 Pr.	100 Pr.	2 1/2

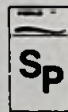
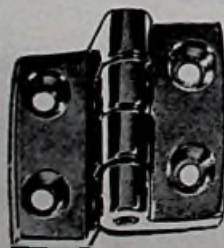


Fig. 271 Chrome Plated Available in Skin Pack, See Section L.



← A → Fig. 941



← A → Fig. 942

HINGE — Fig. 941

Chrome Plated Zinc

Size Open Inches	Dimension "A" to Center of Pin Inches	Screw Size	Standard Package	O.E.M. Package	Weight Per Pair Ounces
1 1/2 x 1 1/2	3/4	8	5 Pr.	50 Pr.	2 1/4

HINGE — Fig. 942

Chrome Plated Zinc

Size Open Inches	Dimension "A" to Center of Pin Inches	Offset Inches	Screw Size	Standard Package	O.E.M. Package	Weight Per Pair Ounces
1 1/2 x 1 1/2	3/4	3/8	8	5 Pr.	50 Pr.	2 1/2

PULL APART HINGE — Fig. 149

Chrome Plated Bronze

Length Inches	Width at Pin Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
3/4	2	10	2	25	5 1/2



Fig. 149
Left Hand

PULL APART HINGE — Fig. 152

Chrome Plated Bronze

Length Inches	Width at Pin Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
3/4	2	10	2	25	5 1/2

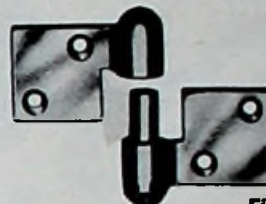


Fig. 152
Right Hand

HINGE — Fig. 773

Plain Bronze or Chrome Plated Bronze

Length Inches	Width Overall Inches	Screw Size	Weight Per Pair Pounds
3/4	2 1/8	10	1 1/4



Fig. 773

Illustration shows one half pair.

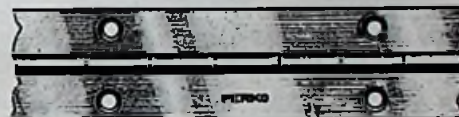
CONTINUOUS HINGES — Figs. 211 & 212

Countersunk holes are two inches apart, center to center.

CHROME PLATED BRASS — FIG. 211

No.	Width Open Inches	Length Inches	Screw Size	Standard Package	Weight Pounds
2	1 1/4	72	5	10	1 1/2
4	1 1/2	72	5	10	2
6	2	72	6	10	2 1/2

Standard Package, 10 Pieces, Minimum Quantity, No Broken Packages.

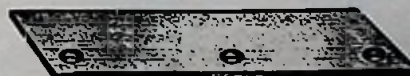


Chrome Plated Brass — Fig. 211
Polished Stainless Steel — Fig. 212

POLISHED STAINLESS STEEL — FIG. 212

No.	Width Open Inches	Length Inches	Screw Size	Standard Package	Weight Pounds
2	1 1/4	72	5	10	1 1/2
4	1 1/2	72	6	10	2

Standard Package, 10 Pieces, Minimum Quantity, No Broken Packages.



Chrome Plated Brass — Fig. 243
Polished Stainless Steel — Fig. 258

HATCH TRIM — Figs. 243 & 258

Fig. 243 Chrome Plated Brass
Fig. 258 Polished Stainless Steel

No.	Width Inches	Length Inches	Screw Size	Standard Package	Weight Pounds
2	1 1/4	72	6	10	1
4	1 1/2	72	6	10	1 1/2

Standard Package, 10 Pieces, Minimum Quantity, No Broken Packages.



Fig. 926



Fig. 938

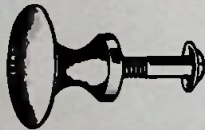


Fig. 925



Fig. 1016

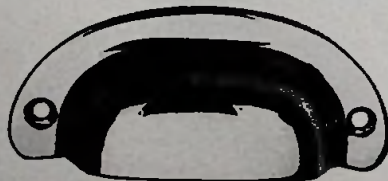


Fig. 958

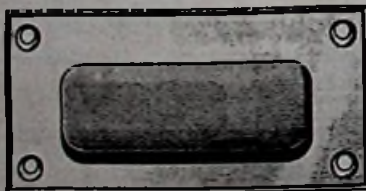


Fig. 1110

KNOBS — Fig. 926
Chrome Plated Zinc
Black Plastic Insert

No.	Diameter Inches	Maximum Thickness Inches	Standard Package	O.E.M. Package	Weight Ounces
BO Black	1½	1½	10	100	¾
B 1 Black	1½	1½	10	100	1

PULL AND LATCH ASSEMBLY — Fig. 938
Chrome Plated Zinc Knob — Black Plastic Insert
Brass Stem

Diameter Knob Inches	Maximum Thickness Inches	Standard Package	O.E.M. Package	Weight Ounces
1½	1½	5	50	2

KNOB — Fig. 925
Chrome Plated Brass

Diameter Inches	Maximum Thickness Inches	Standard Package	O.E.M. Package	Weight Ounces
1	1½	10	50	1½

NEW FLUSH PULL — Fig. 1016
Black Plastic or White Plastic
Easy to install by drilling a 1-1/4" hole.
Can be mounted in any position.

Dimensions Inches	Depth Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
2¼ x 2¼	15/16	6	10	100	1

PULL — Fig. 958
Chrome Plated Zinc

Width Overall Inches	Width Inside Inches	Screw Size	Standard Package	Weight Ounces
37/16	25/16	6	10	1

PULL — Fig. 1110
Chrome Plated Zinc

Dimensions Inches	Depth Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
31/16 x 11/16	7/16	6	5	50	3

HASPS — Fig. 998
Chrome Plated Bronze

No.	Length Closed Inches	Width Inches	Padlock Clearance Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1	2	1	1/32	6	10	25	2
2	3	1	1/32	6	10	25	3



Fig. 998

HASP — Fig. 979
Polished Brass or Chrome Plated Brass

Length Closed Inches	Width Inches	Padlock Clearance Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
2 1/4	1	1/4	5	10	25	1 1/4



Fig. 979

HASPS — Fig. 1198
Chrome Plated Zinc

No.	Length Closed Inches	Width Inches	Padlock Clearance Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1	2	1	1/4	6	10	25	1 1/2
2	3	1	1/4	6	10	25	2 1/4
3	3 3/4	1	1/4	6	10	25	2 1/2

Fig. 1198 No. 2 Available in Skin Pack, See Section L.

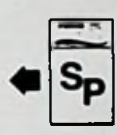


Fig. 1198

HASP — Fig. 1194
Chrome Plated Zinc
Padlock Eye Swivels to act as a latch.

Length Closed Inches	Width Inches	Padlock Clearance Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
3	1	1 1/2	6	10	50	2 1/2

This Item Available in Skin Pack, See Section L.

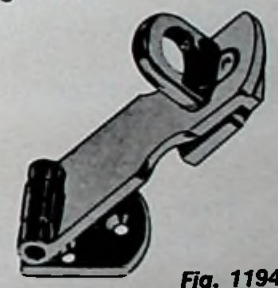
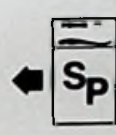


Fig. 1194

COAT HOOKS — Fig. 975
Chrome Plated Zinc

No.	Projection Inches	Width Base Inches	Screw Size	Standard Package	Weight Ounces
1	2	1 1/4	6	10	1
2	3	1 1/4	6	10	1 1/2



Fig. 975

HOOK — Fig. 610
Chrome Plated Zinc

Projection Inches	Width Base Inches	Screw Size	Standard Package	Weight Ounces
1 1/4	1 1/4	6	10	1/2

This Item Available in Skin Pack, See Section L.

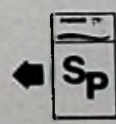


Fig. 610

HOOK — Fig. 1106
Chrome Plated Zinc

Projection Inches	Width Base Inches	Screw Size	Standard Package	Weight Ounces
3/4	1	6	10	3/4



Fig. 1106

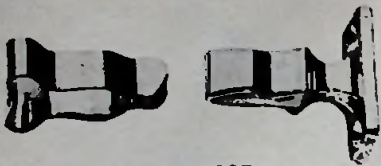


Fig. 1065

DOOR HOLDER — Fig. 1065

Stainless Steel Clip — Chrome Plated Zinc Arrow

Base of Arrow Inches	Base of Clip Inches	Projection Inches	Screw Size	Standard Package	Weight Ounces
1 1/2 x 3/4	1 3/8 x 7/16	1 3/4	8	5	2



Fig. 1177

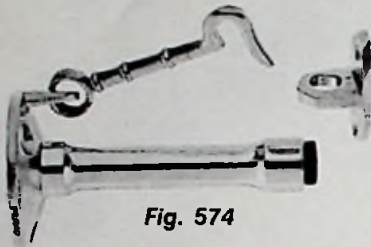


Fig. 574

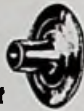
DOOR STOP — Fig. 1177

Chrome Plated Zinc with Rubber Bumper

Diameter Inches	Length Inches	Screw Size	Standard Package	Weight Ounces
1 1/4	1	4	5	1



Button Fig. 896



Eyelet Fig. 907



STUD Fig. 901



Socket Fig. 898

DOOR STOP AND HOLDER — Fig. 574

Chrome Plated Bronze with Rubber Bumper

No.	Length Inches	Diameter Inches	Screw Size Wall Plate	Screw Size Keeper	Weight Ounces
1	2 3/8	1 1/4	8	6	4 1/2
2	3 1/4	1 1/4	8	6	5 1/2



STUD Fig. 869



Clinch Stud Fig. 60

"DURABLE TYPE" FASTENERS

Figs. 896, 898, 869, 901, and 907

Nickel Plated

Fig. 869 Stud is Stainless Steel with a 5/8" Stainless Steel Self Tapping Screw.

For Canvas to Surface, use Figs. 869, 896, and 898.

For Canvas to Canvas, use Figs. 896, 898, 901 and 907.

Standard Package, 100 Pieces — No Broken Packages



STUD Fig. 117



Clinch Washer Fig. 62

"LIFT TYPE" FASTENERS

Figs. 60, 62, 116, 117 and 118

Nickel Plated

Fig. 117 Stud is Stainless Steel with a 5/8 Stainless Steel Self Tapping Screw.

Standard Package, 100 Pieces — No Broken Packages



SOCKET Fig. 116



Clinch Plate Fig. 118

CURTAIN FASTENERS

Figs. 994, 996, & 997

Nickel Plated Brass

Standard Package, 100 Pieces — No Broken Packages



Flanged Stud
Fig. 994

UTILITY HOOK — Fig. 1249

Chrome Plated Zinc

Length Overall Inches	Width Overall Inches	Inside Hook Inches	Screw Size	Standard Package	O.E.M. Package	Weight Ounces
1 5/16	1/2	1/4	6	50	100	1/2

This Item Available in Skin Pack, See Section L.



Eyelet
Fig. 996

Washer
Fig. 997

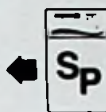


Fig. 1249

BOAT COVER SOCKETS — Fig. 578

Chrome Plated Zinc

Length Overall Inches	Size Opening Inches	Width Overall Inches	Screw Size	Standard Package	O.E.M. Package	Weight Per Pair Ounces
3 1/4	1 1/8 x 7/16	5/8	8	10 Pr.	50 Pr.	2

This Item Available in Skin Pack, See Section L.

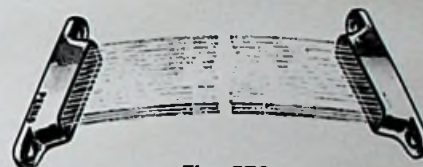
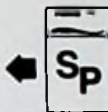


Fig. 578

CONVERTIBLE TOP FITTINGS — Fig. 395

Chrome Plated Zinc

No.	Description
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.

O.E.M. Package Size 1-9 — 100 pieces.
Sizes 10-11 — 50 pieces.

Average Weight — 2 ounces each.

- # 1 SCREW SIZE 8
- # 8 SCREW SIZE 10
- #11 SCREW SIZE 8



Hinge
Nos. 1, 11



Eye End
Nos. 5, 9



Socket
No. 3



Slide
Nos. 6, 10



Side Plate
No. 8

Fig. 395

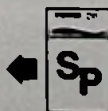
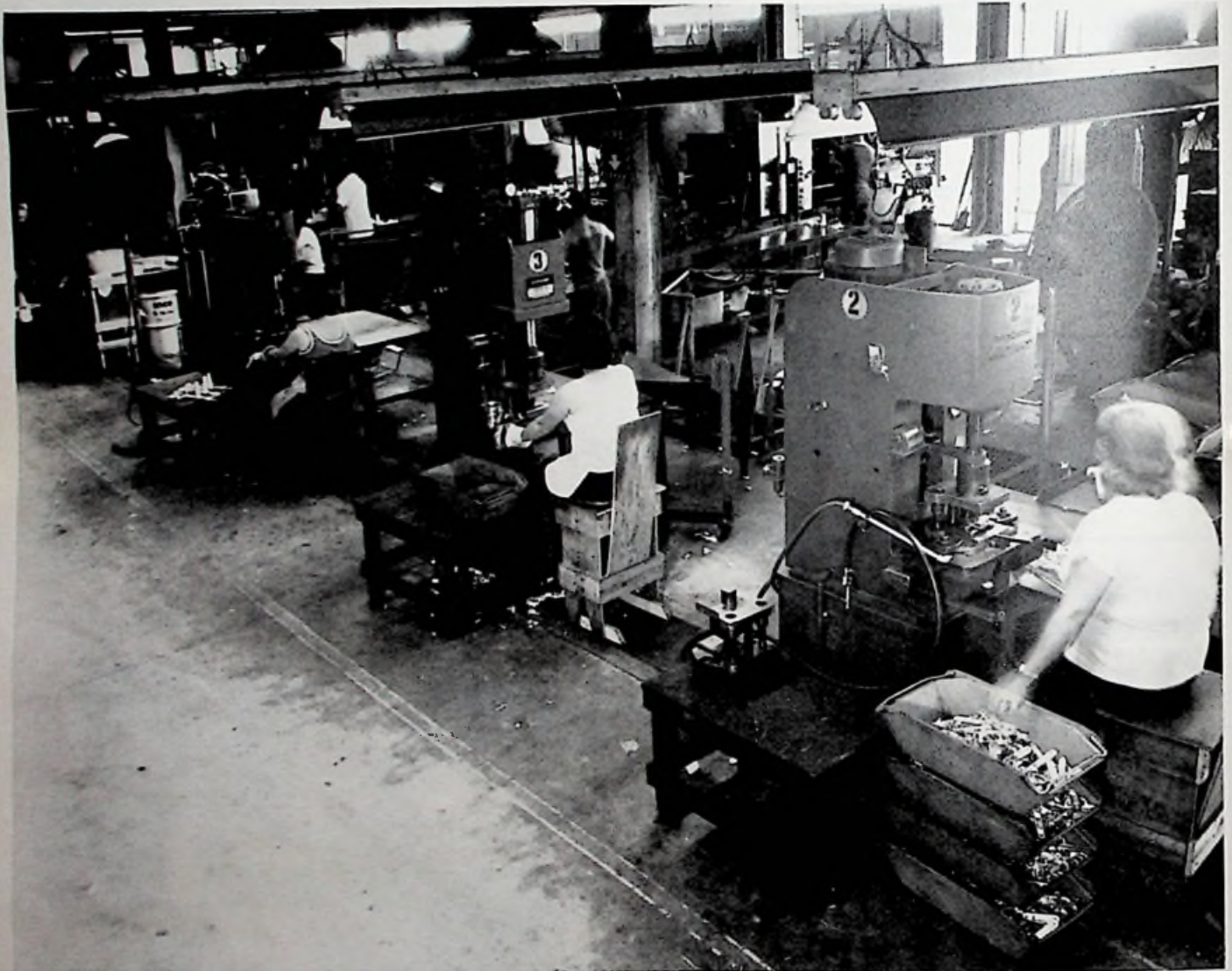


Fig. 395 Nos. 1, 3, 6 Available in Skin Pack, See Section L.

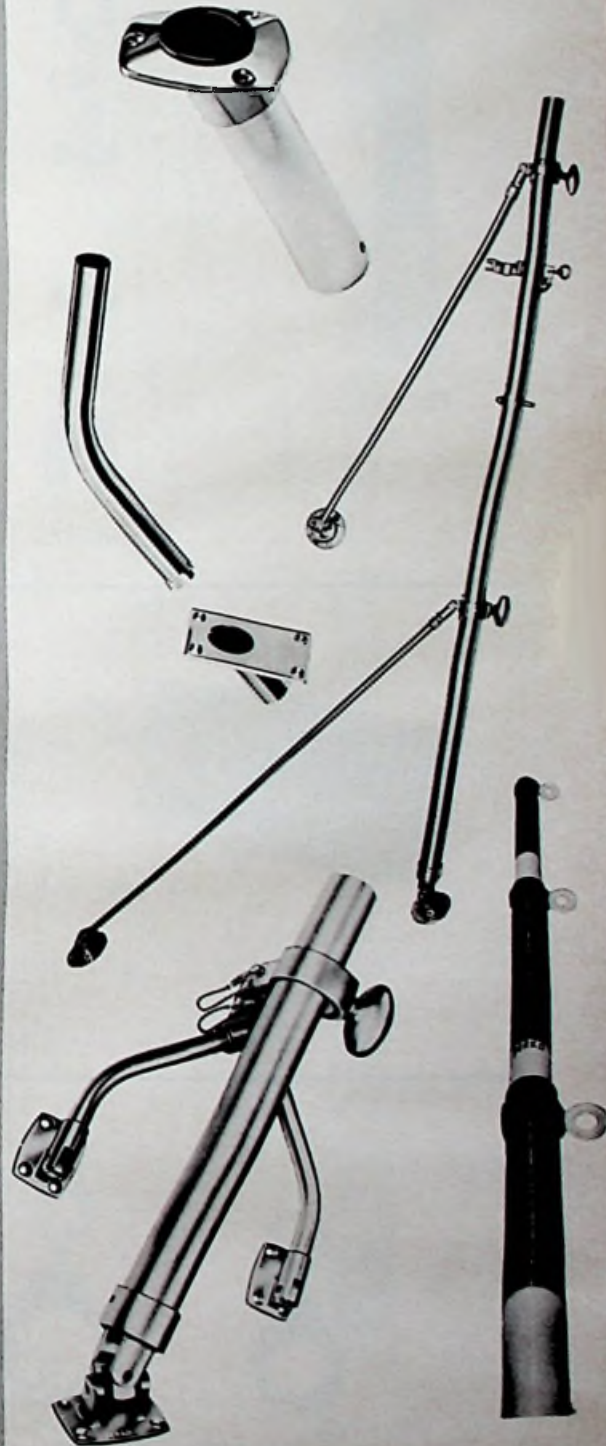
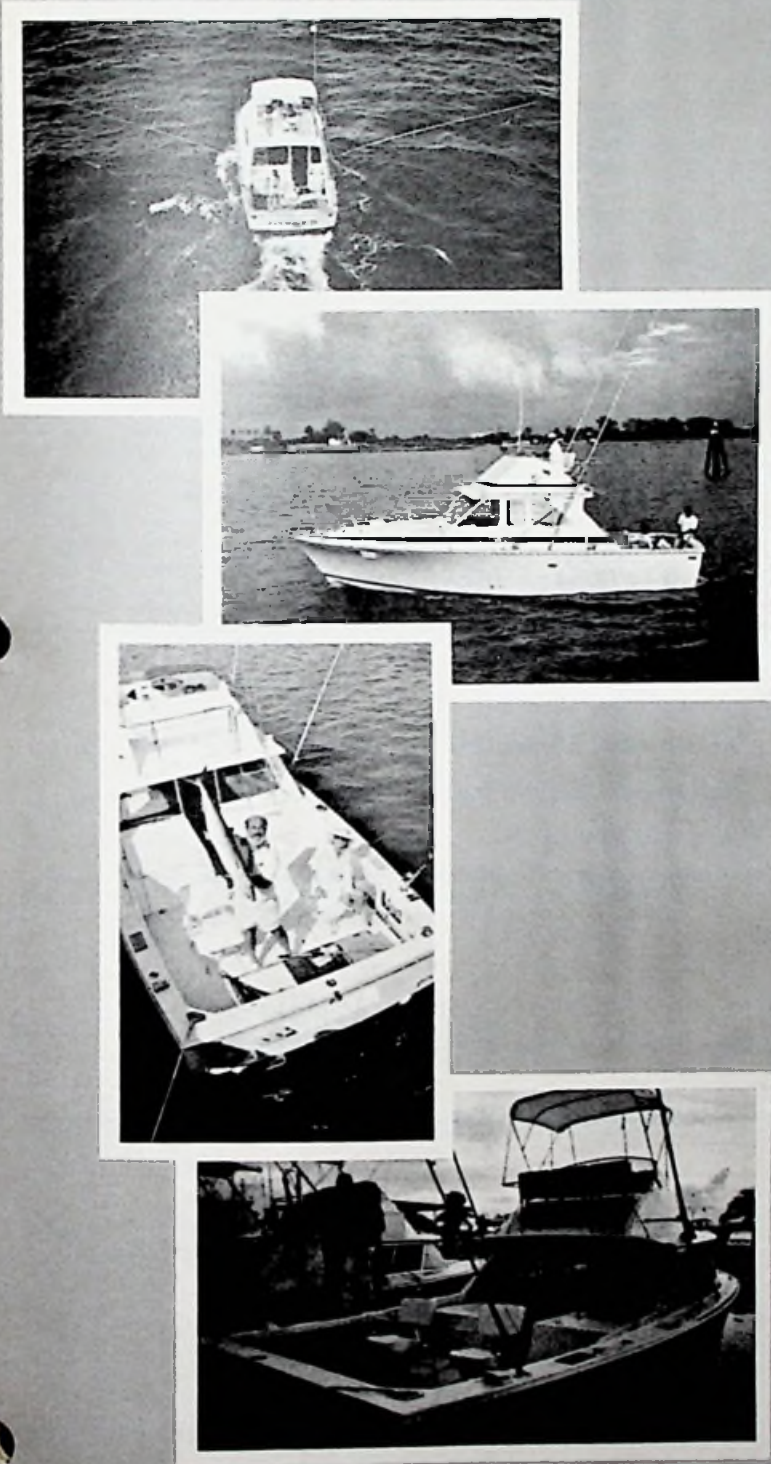
DIE CASTING OPERATIONS

Our extensive die-casting division has five (5) machines producing zinc and one producing bronze parts. PERKO is the only marine manufacturer producing die-cast bronze parts which are well known for strength, uniformity, and high quality.



PERKO®

Fishing Equipment



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Fig. 460



Fig. 476

OUTRIGGER POLES — Fig. 460
FIBERGLASS-TELESCOPIC
With Reinforced Joints

No.	Diameter Base Inches	Overall Length Open Feet	Overall Length Closed Inches	Number of Sections	Weight Pounds
15	1.120	15	66	3	2½

Will Fit Holders, Figs. 444, 451; No. 1. and 1314.

Supplied complete with Fig. 468 Guides, 2 each; Nos., 1,3,4.

FIBERGLASS OUTRIGGER KITS — Fig. 476

Consists of 1 pair Fig. 460 Poles, 2 Fig. 469 Clips and a set of Fig. 468 Guides.

SOLD IN LOTS OF 3 KITS ONLY.



Fig. 469

OUTRIGGER TROLLING PIN OR CLIP — Fig. 469
High Impact Black Plastic — Stainless Steel Eyes and Spring

Dimensions	Standard Package	Weight Ounces
2¾ x 1¾	10	1½



➡ This item available in SKIN PACK, See Section L.

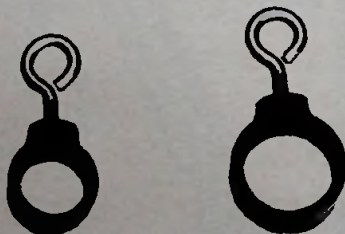


Fig. 468

OUTRIGGER POLE LINE GUIDES — Fig. 468
Stainless Steel Eye — Black Plastic Body

No.	I.D. Body Inches	I.D. Eye 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 1/16	3/8	½
6	1 ½	3/8	½

Standard Package, 6 Pieces.

OUTRIGGER POLES

FIG. 1098
ANODIZED ALUMINUM
PLASTIC INSULATED BASE
4 FOOT SECTIONS

These poles are stiffer for rough water use. Sections are threaded for easy assembly. Furnished in pairs, complete with guides.

No.	"A" Length Assembled Feet	"B" Nominal Diameter Base Inches	"C" Quantity Sections	"D" Quantity Guides	Weight Per Pair Pounds
11	11'4"	1.120	3	2	4½
15	15'	1.120	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



Fig. 1114
SINGLE



Fig. 1115
DOUBLE

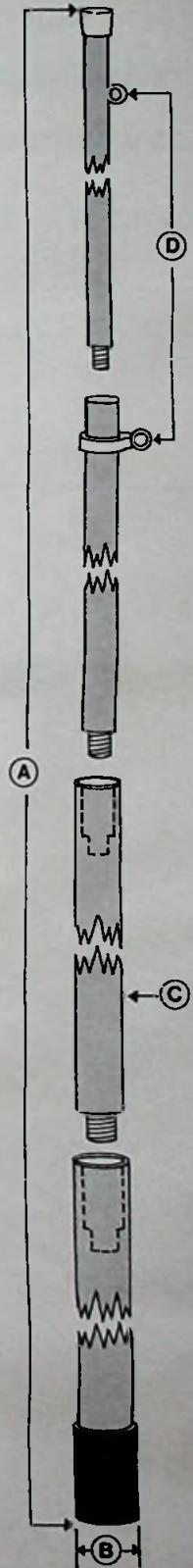


Fig. 1098

SPREADERS

FIGS. 1114 & 1115

Designed for use with our aluminum poles when maximum rigidity is needed.

Supplied in pairs; consisting of spreaders, stainless steel cable, eye bands and turnbuckles.

Fig. 1114 No. 18 Single, Fits Fig. 1098 Nos. 18 and 19 Poles

Fig. 1114 No. 22 Single, Fits Fig. 1098 No. 22 Poles

Fig. 1114 No. 25 Single, Fits Fig. 1098 No. 25 Poles

Fig. 1115 No. 22 Double, Fits Fig. 1098 No. 22 Poles

Fig. 1115 No. 25 Double, Fits Fig. 1098 No. 25 Poles

OUTRIGGER POLE HOLDERS

CHROME PLATED
 STAINLESS STEEL MAIN TUBE AND SUPPORT ARMS
 BRONZE FITTINGS

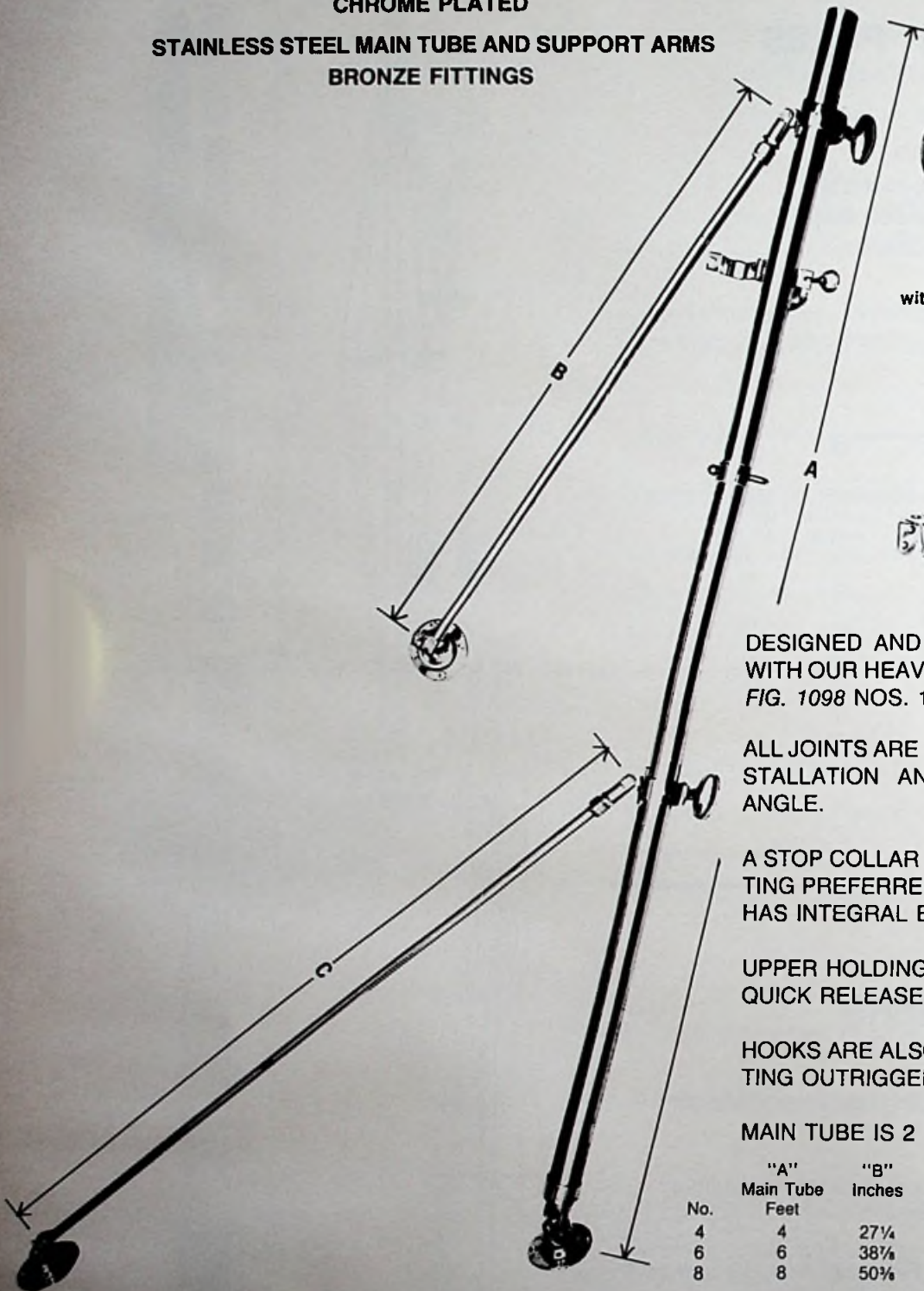


Fig. 400

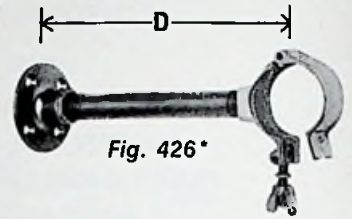


Fig. 426*

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 NOS. 19, 22 AND 25.

ALL JOINTS ARE SWIVEL TYPE FOR EASY IN-
 STALLATION AND SETTING AT DESIRED
 ANGLE.

A STOP COLLAR IS INCLUDED FOR PRESET-
 TING PREFERRED FISHING ANGLE, COLLAR
 HAS INTEGRAL EYE FOR LIFTING LINE.

UPPER HOLDING BRACKET IS HINGED FOR
 QUICK RELEASE OF MAIN TUBE.

HOOKS ARE ALSO INCLUDED FOR SUPPORT-
 TING 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	Bolt Size	Weight Per Pair Pounds
4	4	27¼	41¾	4	¼"	59
6	6	38¾	50¾	4	¼"	70
8	8	50¾	74½	4	¼"	90

*Fig. 426—"D"—ADJUSTABLE FROM 8¼" TO 9½".

OUTRIGGER POLE HOLDERS

CHROME PLATED

STAINLESS STEEL MAIN TUBE — BRASS YOKE TUBING — BRONZE FITTINGS

THE SLIDING CLAMP WITH LARGE KNOB PROVIDES READY ADJUSTMENT FOR ALL FISHING POSITIONS.

A STAINLESS STEEL DRIFT PIN IS PROVIDED IN THE SLIDING CLAMP TO RELEASE THE POLE HOLDER TO A DOWN AND AFT POSITION.

MOUNTING YOKES MAY BE INSTALLED IN AN INVERTED POSITION RATHER THAN THAT SHOWN TO ACCOMMODATE VARIOUS INSTALLATION REQUIREMENTS.

No.	"A" Inches	"B" Inches	O. D. Main Tube Inches	I. D. Main Tube Inches	Bolt Size	Weight Per Pair Pounds
1	20	11 $\frac{1}{4}$	1 $\frac{3}{8}$	1.500	$\frac{1}{4}$ "	22
2	20	11 $\frac{3}{4}$	2	1.900	$\frac{1}{4}$ "	24
3	35	24	2	1.900	$\frac{1}{4}$ "	33

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.

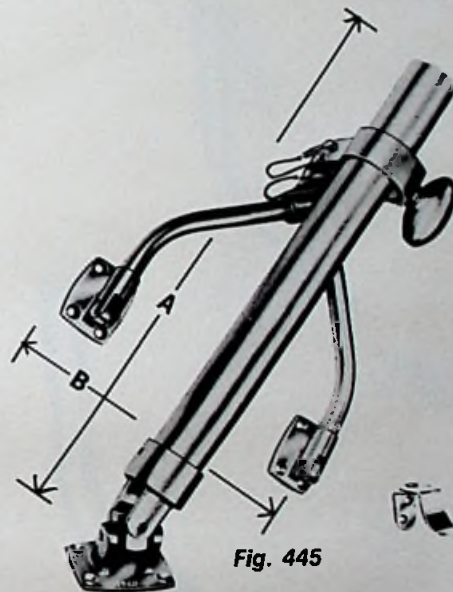


Fig. 445

Fig. 470

Has Extra Heavy Swivel Mounting Base which enables the Holder to be mounted on a horizontal deck or a vertical surface.

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.

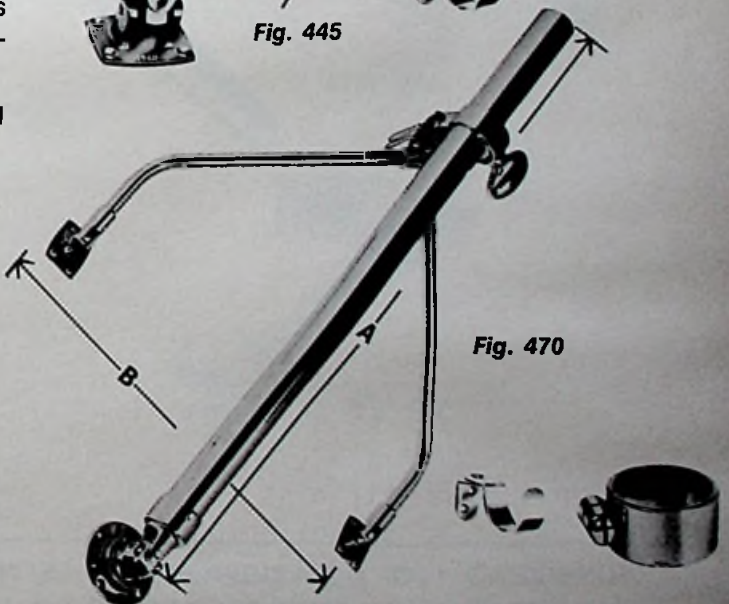


Fig. 470

FOR SIZE NO. 1 USE OUTRIGGER POLES FIG. 1098 NOS. 16 and 18.
FOR SIZE NO. 2 USE OUTRIGGER POLES FIG. 1098 NO. 19.
FOR SIZE NO. 3 USE OUTRIGGER POLES FIG. 1098 NOS. 19, 22, 25.

OUTRIGGER POLE HOLDERS

SIDE AND DECK MOUNTS

Removable Tubes — Tubes Lift and turn to 3 positions — Vertical, fishing, and lowered.

Tubes are Universal — May Be Used on Either Side

Supplied in Pairs. A Pair consists of 2 Plates and 2 Tubes.

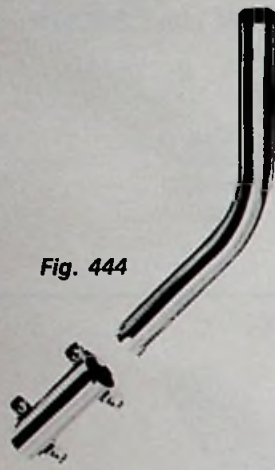


Fig. 444



Fig. 451

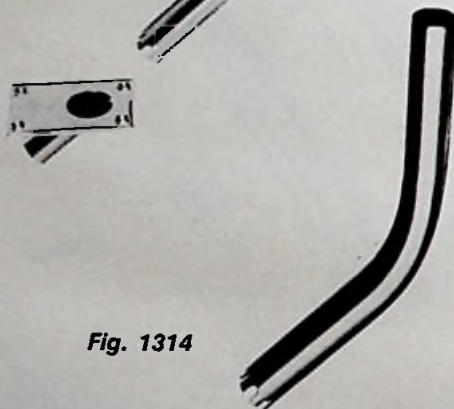
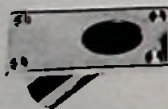


Fig. 1314



SIDE MOUNT — Fig. 444

CHROME PLATED BRONZE BRACKETS

NO. 1 TUBES — POLISHED STAINLESS STEEL

NO. 2 TUBES — CHROME PLATED BRASS

No.	Outside Diameter Tube Inches	Nominal Inside Diameter Tube Inches	Dimensions Bracket Inches	Bolt Size	Weight Per Pair Pounds
1	1 1/4	1.120	4 1/2 x 3	1/4"	2 3/4
2	1 5/8	1.500	6 1/2 x 4	1/4"	7

DECK MOUNT — Fig. 451

CHROME PLATED BRONZE PLATES

NO. 1 TUBES — POLISHED STAINLESS STEEL

NO. 2 TUBES — CHROME PLATED BRASS

No.	Outside Diameter Tube Inches	Nominal Inside Diameter Tube Inches	Dimensions Plate Inches	Bolt Size	Weight Per Pair Pounds
1	1 1/4	1.120	5 x 2 1/2	1/4"	4 1/2
2	1 5/8	1.500	6 x 3 1/2	5/16"	12

DECK MOUNT — Fig. 1314

CHROME PLATED ZINC PLATES

STAINLESS STEEL TUBES

For Outrigger Poles, Fig. 460 No. 15

Outside Diameter Tube Inches	Nominal Inside Diameter Tube Inches	Dimensions Plate Inches	Bolt Size	Weight Per Pair Pounds
1 1/4	1.120	5 x 2 1/2	1/4"	2 3/4

NOTE: NOT DESIGNED FOR USE WITH ALUMINUM POLES, i.e. Fig. 1098

FOR SIZE NO. 1 USE OUTRIGGER POLES FIGS. 460 NO. 15 AND 1098 NO. 11 AND 15.

FOR SIZE NO. 2 USE OUTRIGGER POLES FIG. 1098 NOS. 16 AND 18.



FIGS. 444, 451 Size No. 1 and 1314 Available in Display Pack, See Section L.

FISHING ROD HOLDER — Fig. 1118

CLAMP-ON

Chrome Plated Brass and Bronze With Soft Black Vinyl Liner

Clamp-On feature eliminates drilling rail — simplifies relocation — mounts on vertical or horizontal rails. Adjustable for rails 3/4 to 1 inch diameter.

Inside Diameter Liner Inches	Outside Diameter Tube Inches	Length Tube Inches	Weight Pounds
1 1/8	2	9	2

THIS ITEM AVAILABLE IN DISPLAY PACK, SEE SECTION L. 



Fig. 1118

FISHING ROD HOLDER — Fig. 449

Chrome Plated Brass and Bronze 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	Screw Size	Weight Pounds
1 1/8	2	4 x 3 3/4	10	2 1/4



Fig. 449

FISHING ROD HOLDER — Fig. 1104

Black Plastic — With Chrome Plated Brass Brackets

Length Overall Inches	Inside Diameter Liner Inches	Outside Diameter Tube Inches	Width Bracket Inches	Screw Size	Weight Pounds
9	1 3/4	2	3 3/4	8	1/2

THIS ITEM AVAILABLE IN DISPLAY PACK, SEE SECTION L. 



Fig. 1104

ADJUSTABLE FISHING ROD HOLDER — Fig. 475

Plain or Chrome Plated Brass and Bronze With Soft Black Vinyl Liner

May be adjusted quickly to any desired angle from vertical to horizontal. Locked by large thumb bolt.

Inside Diameter Liner Inches	Outside Diameter Tube Inches	Length Tube Inches	Dimensions Base Inches	Bolt Size	Weight Pounds
1 1/8	2	9 1/2	3 3/4 x 2 1/4	1/4"	3 3/4

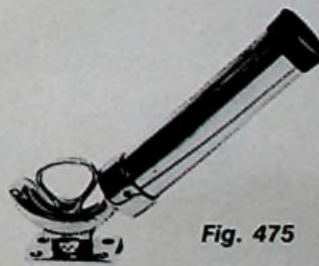


Fig. 475



Fig. 1205

FISHING ROD HOLDER — Fig. 1205

Chrome Plated Zinc Flange — Anodized Aluminum Tube With Soft Black Vinyl Liner

Inside Diameter Liner Inches	Outside Diameter Tube Inches	Length Under Flange Inches	Dimensions Flange Inches	Bolt Size	Weight Pounds
1 5/8	2	8	4 1/4 x 3 1/2	1/4"	1



Fig. 448

FISHING ROD HOLDERS — Fig. 448

Chrome Plated Bronze Flange — Brass Tube With Soft Black Vinyl Liner

No.	Inside Diameter Liner Inches	Outside Diameter Tube Inches	Length Under Flange Inches	Dimensions Flange Inches	Bolt Size	Weight Pounds
1	1 5/8	2	8	4 1/4 x 3 1/2	1/4"	1 1/4
2	1 5/8	2 1/4	12	4 7/8 x 4	1/4"	2



Fig. 452

FISHING ROD HOLDER — Fig. 452

Polished Stainless Steel Flange — Stainless Steel Tube With Soft Black Vinyl Liner — Molded Plastic Mounting Gasket

Inside Diameter Liner Inches	Outside Diameter Tube Inches	Length Under Flange Inches	Dimensions Flange Inches	Screw Size	Weight Pounds
1 5/8	2	8 1/4	4 1/8 x 3 3/8	8	7/8

For Caps to Enclose Bottoms for Above Items Specify Fig. 125.



Fig. 1100

FISHING ROD HOLDER — Fig. 1100

Chrome Plated Brass With Soft Black Vinyl Liner

Inside Diameter Liner Inches	Outside Diameter Tube Inches	Length Overall Inches	Width Bracket Inches	Screw Size	Weight Pounds
1 5/8	2	9	3	8	1



➡ Some of the Above Items Available in Display Packs See Section L.



Fig. 404

HEAVY DUTY FISHING ROD HOLDERS — Fig. 404

Chrome Plated — Brass and Bronze With Soft Black Vinyl Liner

No.	Inside Diameter Liner Inches	Outside Diameter Tube Inches	Length Inches	Width Bracket Inches	Bolt Size	Weight Pounds
1	1 5/8	2	9	4 3/16	1/4"	1 5/8
2	1 5/8	2 1/4	11	4 3/4	1/4"	2 1/2

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SECTION
L



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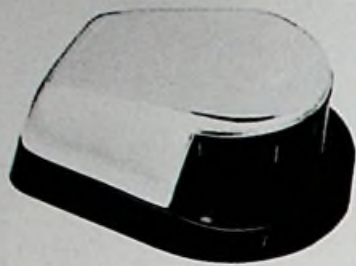


Fig. 1310-SP

COMBINATION SIDE LIGHT — Fig. 1310-SP

Patent No. 3,828,714

Chrome Plated Zinc Top — Black Plastic Base

Red and Green Lenses — 1 Mile Visibility — Complete with 12 Volt Bulb

For use on Power Driven Vessels Under 12 Meters (39.4 ft.)

Height Inches	Size Base Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
1 1/4	4 x 3 3/8	8	6	2 1/2

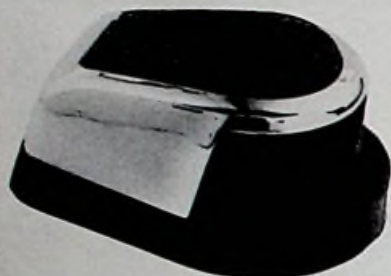


Fig. 1510-SP

COMBINATION SIDE LIGHT — Fig. 1510-SP

Patent No. 3,828,714

Chrome Plated Zinc Top with Teak Insert — Black Plastic Base

Red and Green Lenses — 1 Mile Visibility — Complete with 12 Volt Bulb

For use on Power Driven Vessels Under 12 Meters (39.4 ft.)

Height Inches	Size Base Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
1 1/4	4 x 3 3/8	8	6	2 1/2



Fig. 1218-SP

COMBINATION SIDE LIGHT — Fig. 1218-SP

Chrome Plated Zinc — Red and Green Lenses 1 Mile Visibility — Complete with 12 Volt Bulb

For use on Power Driven Vessels Under 12 Meters (39.4 ft.)

Height Inches	Size Base Inches	Staff Socket Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
3 3/4	6 1/4 x 3 3/8	3/4	8	3	4



Fig. 972-SP

COMBINATION SIDE LIGHT — Fig. 972-SP

Chrome Plated Brass Top — Black Plastic Base

Red and Green Lenses — 1 Mile Visibility — Complete with 12 Volt Bulb

For use on Sail or Power Driven Vessels Under 12 Meters (39.4 ft.)

Height Inches	Diameter Base Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
1 1/4	2 3/4	4	4	1

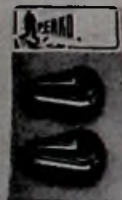


Fig. 955-SP

SIDE LIGHTS — Fig. 955-SP

Chrome Plated Brass Top — Black Plastic Base

Red and Green Lenses — 1 Mile Visibility Complete with 12 Volt Bulb

For use on Sail or Power Driven Vessels Under 12 Meters (39.4 ft.)

Length Inches	Width Inches	Projection Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
4 1/4	2 3/4	1 1/4	4	4	2

MASTHEAD LIGHT — Fig. 964-SP

Chrome Plated Brass Top — Black Plastic Base

Clear Lens — 2 Mile Visibility

Complete with 12 Volt Bulb

For use on Sail or Power Driven Vessels Under 12 Meters (39.4 ft.)

Height Inches	Diameter Base Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
1 1/8	2 3/8	4	4	1



Fig. 964-SP

STERN LIGHT — Fig. 945-SP

Chrome Plated Brass Top — Black Plastic Base

Clear Lens — 2 Mile Visibility

Complete with 12 Volt Bulb

For use on Sail or Power Driven Vessels Under 20 Meters (65.6 ft.)

Projection Inches	Diameter Base Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
1 1/8	2 3/8	4	4	1



Fig. 945-SP

STERN LIGHT — Fig. 965

Chrome Plated Brass Top — Black Plastic Base

Clear Lens — 2 Mile Visibility

Complete with 12 Volt Bulb

For use on Sail or Power Driven Vessels Under 20 Meters (65.6 ft.)

Height Inches	Diameter Base Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
1 1/8	2 3/8	4	4	1



Fig. 965-SP

STERN LIGHT — Fig. 946-SP

Chrome Plated Brass — Black Plastic Base

Clear Lens — 2 Mile Visibility

Complete with 12 Volt Bulb

For use on Sail or Power Driven Vessels Under 20 Meters (65.6 ft.)

No.	Projection Inches	Diameter Base Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
1	1 3/4	3	8	4	1 1/8



Fig. 946-SP

SPREADER LIGHT — Fig. 265-SP

Fixed Mount

Chrome Plated Bronze — Black Plastic Base

Complete with 12 Volt, 6 c.p. Bulb

Diameter Inches	Projection Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
2 3/4	1 1/8	6	4	1 1/8



Fig. 265-SP



Fig. 318-A-SP



LIGHTING FIXTURE — Fig. 318-A-SP

Surface Mount — Dual Voltage — For 12 or 120 Volts
White Translucent Plastic Globe — Chrome Plated Zinc Base
with Integral Junction Box.

Double contact sockets complete with two 12 volt and two
120 volt bulbs.

Length Inches	Width Inches	Depth Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
9 $\frac{1}{4}$	3 $\frac{1}{2}$	1 $\frac{1}{8}$	10	4	7 $\frac{1}{4}$



Fig. 300-SP

DOME LIGHT — Fig. 300-SP

Surface Mount — Chrome Plated Zinc

Low Voltage — For Systems up to 50 Volts

Push Switch — Double Contact Socket — Complete with 12
Volt Bulb

No.	Diameter Overall Inches	Diameter Globe Inches	Projection Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
1	5 $\frac{1}{8}$	4	1 $\frac{1}{8}$	10 R.H.	3	2 $\frac{1}{4}$



Fig. 217-SP



BULKHEAD FIXTURE — Fig. 217-SP

Chrome Plated Zinc

Low Voltage — For Systems up to 50 Volts

Turn Switch — Medium Screw Socket

Size Base Inches	Projection Less Lamp Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
2 $\frac{1}{2}$ x 1 $\frac{1}{4}$	2 $\frac{1}{8}$	6	6	4



Fig. 140-SP



UTILITY LIGHT — Fig. 140-SP

Molded White Plastic

Complete with 12 Volt, 1 Watt Bulb

Size Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
1 $\frac{1}{2}$ x $\frac{3}{8}$	7	10	$\frac{1}{2}$



Fig. 248-SP



GLOBE — Fig. 248-SP

360° — Clear Plastic

Complete with Gasket

Height Inches	Outside Diameter Inches	Diameter Thread Inches	Cards Per Box	Weight Per Box Pounds
2 $\frac{1}{2}$	1 $\frac{1}{4}$	2	10	1 $\frac{1}{2}$

LIGHT BULBS — Fig. 70-SP

Double Ended Base — Clear

Mr. Lamp No.	Nominal Volts	Design Amps	C.P.	Bulb Diameter Inches	Cards Per Box	Weight Per Box Pounds
1 211-2	12	.97	12	3/16	12	1/2

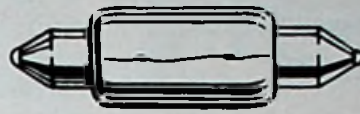


Fig. 70-SP



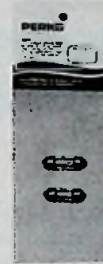
LIGHT BULBS — Fig. 71-SP

Double Ended Base — Clear

Nominal Volts	Design Amps	C.P.	Bulb Diameter Inches	Cards Per Box	Weight Per Box Pounds
12	.80	8	3/16	12	1/2



Fig. 71-SP



PUSH BUTTON SWITCH — Fig. 703-SP

Push On, Push Off

2 Amps at 14 Volts

Diameter Neck Inches	Max. Thickness of Panel Inches	Cards Per Box	Weight Per Box Pounds
3/8	1/8	6	1/2

Not Ignition Protected, See Page CD-11.



Fig. 703-SP



TRANSOM DRAIN PLUG — Fig. 414-SP

Brass — Expandable Plug

No.	Diameter Tube Inches	Length Tube Inches	Length Overall Inches	Cards Per Box	Weight Per Box Pounds
1	1	2	2 1/2	12	4



Fig. 414-SP

WATER INLET FITTING — Fig. 499

Chrome Plated Bronze

For obtaining water under pressure at dockside. External portion has a standard size swivel hose connector with watertight plug and stainless steel bead chain.

Diameter Flange Inches	Female N.P. Thread Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
2 3/4	1/2	8	5	2

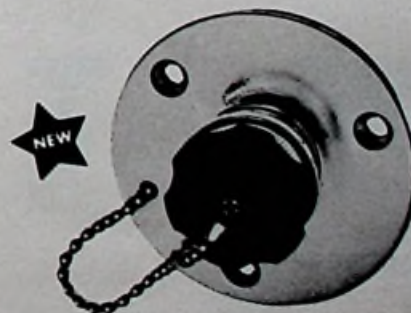


Fig. 499-SP



L-6

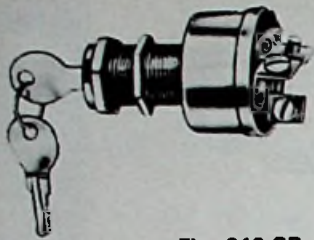


Fig. 310-SP



IGNITION STARTER SWITCH — Fig. 310-SP

All Brass — Chrome Plated Brass Face Nut

3 Position — Off - Ignition - Start — 15 Amps at 12 Volts

Spring Action — Automatically returns from start to ignition position

Diameter Neck Inches	Length Overall Inches	Max. Thickness Inches	Cards Per Box	Weight Per Box Pounds
13/16	2 3/4	1	6	3

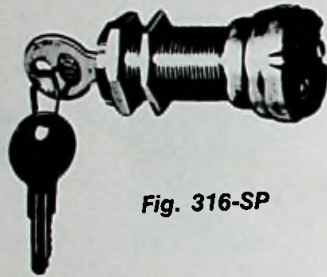


Fig. 316-SP

IGNITION LOCK SWITCH — Fig. 316-SP

Die Cast Zinc Housing — Chrome Plated Face Nut

2 Position — Off - On — 15 Amps at 12 Volts

No.	Diameter Neck inches	Length Overall Inches	Max. Thickness Inches	Cards Per Box	Weight Per Box Pounds
1	3/4	2	1/2	6	2

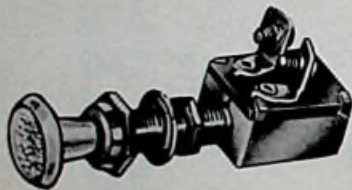


Fig. 105-SP



PUSH-PULL SWITCH — Fig. 105-SP

Brass Body — Chrome Plated Brass Face Nut —

Chrome Plated Plastic Knob

2 Position — Off - On — 15 Amps at 12 Volts

No.	Diameter Neck inches	Length Overall Inches	Max. Thickness Inches	Cards Per Box	Weight Per Box Pounds
1	3/8	3	1	12	3

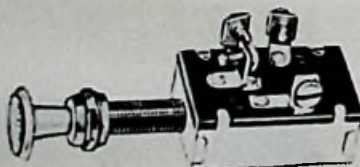


Fig. 366-SP

PUSH-PULL SWITCH — Fig. 366-SP

Brass Body — Chrome Plated Brass Face Nut —

Chrome Plated Plastic Knob

3 Position — 2 Circuit — Off-On-On — 15 Amps at 12 Volts

For use with combination Masthead and All-round lights together with running lights. Second "on" position turns off running lights and turns on both compartments of Masthead All-round light.

Diameter Neck Inches	Length Overall Inches	Max. Thickness Inches	Cards Per Box	Weight Per Box Pounds
3/8	3 3/4	1	6	2

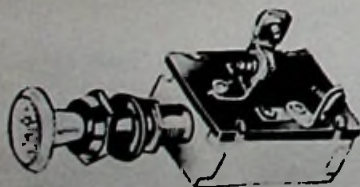


Fig. 381-SP



PUSH-PULL SWITCH — Fig. 381-SP

Brass Body — Chrome Plated Brass Face Nut —

Chrome Plated Plastic Knob

3 Position — Off-On-On — 15 Amps at 12 Volts

First "On" position energizes one terminal. Second "On" position energizes two terminals.

Diameter Neck Inches	Length Overall Inches	Max. Thickness Inches	Cards Per Box	Weight Per Box Pounds
3/8	3 3/4	1	6	2

Above Switches are not Ignition Protected — See Page CD11 for Details.

MOMENTARY PUSH SWITCH — Fig. 255-SP

**Chrome Plated Brass Button and Face Nut
Single Pole — Push Button Spring Action —
15 Amps at 12 Volts**

No.	Diameter Neck Inches	Length Overall Inches	Max. Thickness Inches	Cards Per Box	Weight Per Box Pounds
1	3/8	2 3/4	1	6	3

Not Ignition Protected, See Page CD-11.

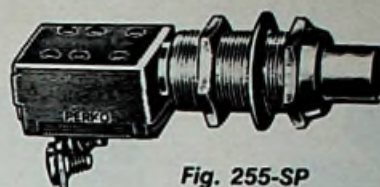


Fig. 255-SP

IN-LINE FUSE HOLDER — Fig. 786-SP

**Molded Plastic with 20 Amp Fuse and Wire Leads
For Standard 1/4" x 1/4" fuses.**

Length Inches	Diameter Inches	Cards Per Box	Weight Per Box Pounds
2 1/8	1 1/16	10	3/4

Conforms to U.S.C.G. Electrical Standards, See Page CD-11.



Fig. 786-SP

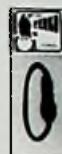


Fig. 720-2

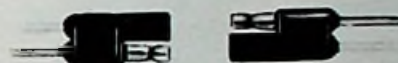


Fig. 720-3

MOLDED LINE CONNECTORS — Fig. 720-SP

Plastic Bodies — Brass Contacts

Polarized — 15 Amps at 12 Volts

Both male and female side have 12 inch long 18 gauge color coded wires.

Poles	Width Inches	Cards Per Box	Weight Per Box Pounds
2	3/8	5	3/8
3	7/8	5	1/2
4	1 1/8	5	3/4

Conforms to U.S.C.G. Electrical Standards, See Page CD-11.

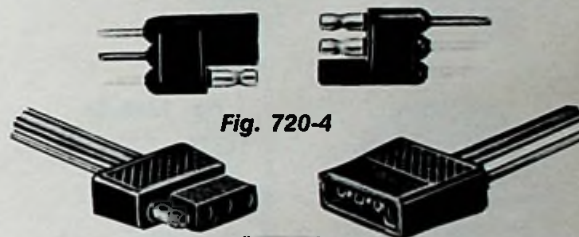


Fig. 720-4



Fig. 720-SP

WATERTIGHT DECK CONNECTION — Fig. 1190-SP

Chrome Plated Zinc

Polarized Double Contact Connector — 15 Amps at 12 Volts

Waterproof cover for Base when Plug Removed

Diameter Inches	Height Inches	Cards Per Box	Weight Per Box Pounds
1 1/8	1 1/2	5	3/8

Not Ignition Protected, See Page CD-11.



Fig. 1190-SP

WATERTIGHT CABLE OUTLET — Fig. 1191-SP

Chrome Plated Zinc

Rubber Grommet for Watertight passage of Cable

Diameter Inches	Height Inches	Cards Per Box	Weight Per Box Pounds
1 1/4	3/8	5	3/8

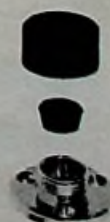


Fig. 1191-SP





Fig. 1313-SP

CHROMALEX® GAS FILL — Fig. 1313-SP

Chrome Plated Zinc Body — 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.

Diameter Overall Inches	Length Hose Neck Inches	For Hose Size Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
3/4	1 1/4	1 1/2	7	6	3 1/2



Fig. 1399-SP

CHROMALEX® LOCKING GAS FILL — Fig. 1399-SP

Same Design and Construction as Fig. 1313 Except Equipped with Locking Cap. Cap has Gasket to Prevent Moisture from Entering Tank.



Fig. 1324-SP

LOCKING GAS CAP — Fig. 1324-SP*

Black Plastic

Supplied with Gasket to Prevent Moisture from Entering Tank.

Cards Per Box	Weight Per Box Pounds
6	1 1/4

*Will fit all PERKO CHROMALEX® Gas Fills — Figs. 1313, 1413 & 1513.



Fig. 826-SP

DECK PLATE KEY — Fig. 826-SP

Chrome Plated Zinc

Heavy Duty Pins — Will fit sizes up to 8 inch diameter

Length Overall Inches	Cards Per Box	Weight Per Box Pounds
8 1/2	6	4



Fig. 1224-SP

TRANSOM PLATES — Fig. 1224-SP

Chrome Plated Zinc Frame — Molded Soft Plastic Pad For outboard motor brackets

Length Overall Inches	Inside Diameter Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
3 1/2	1 1/4	8	12	3 1/4

CHROMALEX® COWL VENTILATOR — Fig. 1312-SP

Chrome Plated Zinc Cowl — Black Plastic Base — For 3 inch Duct

Hose Clamps Not Required — Duct Threads into Neck

Mouth Opening Square inches	Length Overall inches	Width Overall inches	Height Overall inches	Screw Size	Cards Per Box	Weight Per Box Pounds
7	5¼	4¾	2¾	8	4	3



Fig. 1312-SP

GAS TANK VENT — Fig. 506-SP

Chrome Plated Zinc

With Removable Monel Wire 30 Mesh Screening

No.	Hose Size Inches	Max. Thickness inches	Cards Per Box	Weight Per Box Pounds
4	5/8	3/4	10	1½



Fig. 506-SP

LOCKER VENTILATOR — Fig. 330-SP

Chrome Plated Brass

No.	Diameter Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
2	3¼	6 R.H.	12	1½

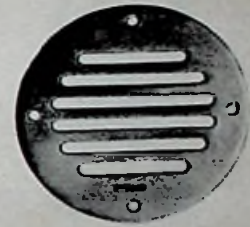


Fig. 330-SP

CLAM SHELL VENTILATOR — Fig. 339-SP

Chrome Plated Brass

Base Dimensions Inches	Height Opening Inches	Width Opening Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
4 x 3¾	1¾	2½	6	6	4



Fig. 339-SP

CLAM SHELL VENTILATOR — Fig. 315-SP

Chrome Plated Brass

No.	Base Dimensions Inches	Height Opening Inches	Width Opening Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
2	2 x 2	¾	1¾	6	12	1½



Fig. 315-SP

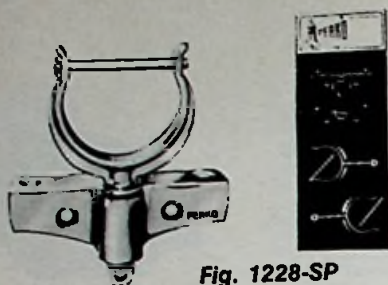


Fig. 1228-SP

ROWLOCK SET — Fig. 1228-SP

North River Type — Chrome Plated Zinc

Black Plastic Bearings in Socket for Smooth Operation

Diameter Shank Inches	Between Horns Inches	Length Socket Inches	Width Socket Inches	Depth Socket Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
1/2	1 3/4	4	7/8	1 1/8	10	6	8 1/2

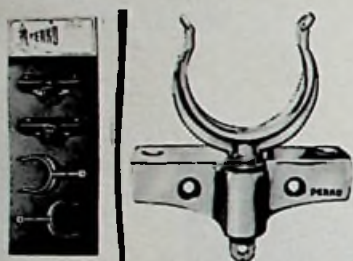


Fig. 1263-SP

ROWLOCK SET — Fig. 1263-SP

Ribbed Type — Chrome Plated Zinc

Black Plastic Bearings in Socket for Smooth Operation

Diameter Shank Inches	Between Horns Inches	Length Socket Inches	Width Socket Inches	Depth Socket Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
1/2	1 3/4	4	7/8	1 1/8	10	6	8

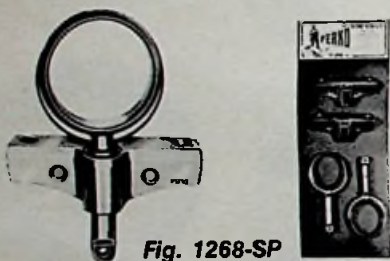


Fig. 1268-SP

ROWLOCK SET — Fig. 1268-SP

Round Type — Chrome Plated Zinc

Black Plastic Bearings in Socket for Smooth Operation

Diameter Shank Inches	Inside Diameter Horn Inches	Length Socket Inches	Width Socket Inches	Depth Socket Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
1/2	2	4	7/8	1 1/8	10	6	8 1/4

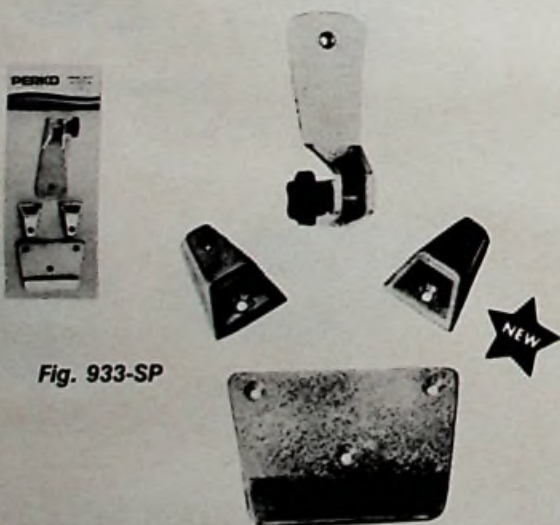


Fig. 933-SP

ANCHOR CHOCKS — Fig. 933-SP

Chrome Plated Bronze

Fits Danforth® Type Anchors up to 90 pounds*

Screw Size	Cards Per Box	Weight Per Box Pounds
10	5	10

*Except Danforth® Models: 40-S, 65-S, and 85-S.

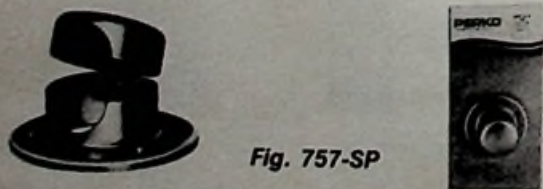


Fig. 757-SP

ROPE DECK PIPE — Fig. 757-SP

Chrome Plated Zinc

For Rope Diameter Inches	Diameter Flange Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
1	3 3/8	8	5	3

ROWLOCK HORNS — Fig. 1227-SP
North River Type — Natural or Chrome Plated Zinc

Diameter Shank Inches	Length Shank Inches	Between Horns Inches	Cards Per Box	Weight Per Box Pounds
1/2	1 3/4	1 3/4	6	4



Fig. 1227-SP



ROWLOCK HORNS — Fig. 1262-SP
Ribbed Type — Natural or Chrome Plated Zinc

Diameter Shank Inches	Length Shank Inches	Between Horns Inches	Cards Per Box	Weight Per Box Pounds
1/2	1 3/4	1 3/4	6	4



Fig. 1262-SP

ROWLOCK HORNS — Fig. 1267-SP
Round Type — Natural or Chrome Plated Zinc

Diameter Shank Inches	Length Shank Inches	Inside Diameter Horn Inches	Cards Per Box	Weight Per Box Pounds
1/2	1 3/4	2	6	4 1/2



Fig. 1267-SP



BOW EYE — Fig. 237-SP
Stainless Steel 300 Series Non-Magnetic With Stainless Steel Nuts and Washers

No.	Length Shank Inches	Diameter Shank Inches	Length Thread Inches	Inside Eye Inches	Safe Working Load Pounds	Cards Per Box	Weight Per Box Pounds
1	3	3/16	3	1	1800	6	2

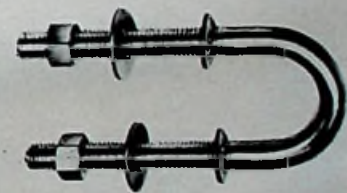


Fig. 237-SP

BOW EYE — Fig. 1235-SP
Chrome Plated Zinc Eye — Zinc-Plated Steel "U" Bolt, Nuts, and Washers

Length Shank Inches	Diameter Shank Inches	Length Thread Inches	Inside Eye Inches	Safe Working Load Pounds	Cards Per Box	Weight Per Box Pounds
3	3/8	2 3/4	1	2000	6	4 1/4

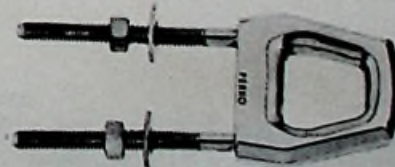
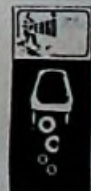


Fig. 1235-SP



NOTE

FIGS. 237SP & 1235 SP 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.



Fig. 159-SP



FOG BELL — Fig. 159-SP

**Stamped Brass — Chrome Plated
Removable**

Bottom Diameter Inches	Height Overall Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
6	4	4 F.H.	2	2 $\frac{3}{4}$

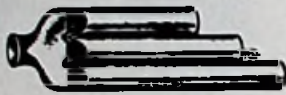


Fig. 167-SP

TRIPLEX PLASTIC WHISTLE — Fig. 167-SP

Length Overall Inches	Width Overall Inches	Cards Per Box	Weight Per Box Pounds
6	1 $\frac{1}{4}$	12	1 $\frac{1}{2}$



Fig. 349-SP



"BALL TYPE" WHISTLE — Fig. 349-SP

Orange Plastic

Length Overall Inches	Width Overall Inches	Cards Per Box	Weight Per Box Pounds
2 $\frac{1}{4}$	$\frac{3}{4}$	10	1 $\frac{1}{4}$



Fig. 162-SP

FOG HORN — Fig. 162-SP

**Aluminum — White Baked Enamel Finish —
Nylon Mouth Piece**

Length Inches	Cards Per Box	Weight Per Box Pounds
12 $\frac{1}{2}$	6	2 $\frac{1}{2}$



Fig. 469-SP



OUTRIGGER TROLLING PINS OR CLIPS — Fig. 469-SP

**High Impact Black Plastic —
Stainless Steel Eyes and Spring**

Dimensions Inches	Cards Per Box	Weight Per Box Pounds
2 $\frac{1}{4}$ x 1 $\frac{1}{4}$	6	3

CHROMALEX® HANDLES — Fig. 1336-SP

Chrome Plated Zinc and Black Plastic

Length Overall Inches	Length Inside Inches	Height Inside Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
6¼	3½	1	¼	6	7



Fig. 1336-SP

HANDLES — Fig. 1231-SP

Chrome Plated Zinc

Length Overall Inches	Length Inside Inches	Height Inside Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
6	3½	1½	¼	6	6¾

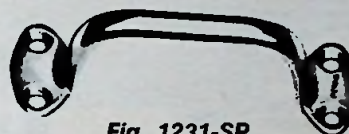


Fig. 1231-SP



HANDLES — Fig. 775-SP

Chrome Plated Bronze

No.	Length Overall Inches	Length Inside Inches	Height Inside Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
2	5¾	3¾	1¾	8	6	4



Fig. 775-SP

CHROMALEX® STEP PLATES —

Figs. 1225-SP, 1325-SP, 1525-SP

Chrome Plated Zinc Frames — Molded Soft Plastic Pads

Fig. 1225-SP — White Pad

Fig. 1325-SP — Black Pad

Fig. 1525-SP — Teak Pad

No.	Dimensions Inches	Screw Size	Plates Per Card	Cards Per Box	Weight Per Box Pounds
0	8¾ x 2¼	8	2	6	6
1	8¾ x 3¼	8	2	6	9½

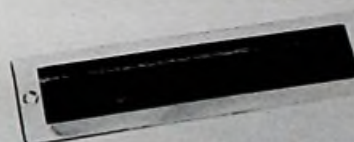


Fig. 1225-SP — White



Fig. 1325-SP — Black

Fig. 1525-SP — Teak

STEP PLATES — Figs. 1526-SP

Teak Molded Plastic — Frame Not Required

No.	Dimensions Inches	Screw Size	Plates Per Card	Cards Per Box	Weight Per Box Pounds
1	9¾ x 2¾	8	2	6	3½



Fig. 1526-SP



Fig. 1252-SP

CLEATS — Fig. 1252-SP
Chrome Plated Zinc

Length Inches	Size Base Inches	For Rope Diameter Inches	Screw Size	Cleats Per Card	Cards Per Box	Weight Per Box Pounds
6½	3 x 1½	¾	¼	2	5	4½

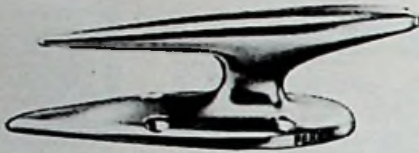


Fig. 566-SP



CLEATS — Fig. 566-SP
Chrome Plated Zinc

Length Inches	Size Base Inches	For Rope Diameter Inches	Screw Size	Cleats Per Card	Cards Per Box	Weight Per Box Pounds
2	2¼ x 1¼	⅝	6	2	12	3½
3	3¼ x 1½	¾	8	2	12	5½
4½	4¼ x 1¾	½	10	2	6	8½
6	5½ x 2	¾	12	1	12	13



Fig. 1188-SP

CLEATS — Fig. 1188-SP
Chrome Plated Zinc

Length Inches	Width Base Inches	Screw Size	Cleats Per Card	Cards Per Box	Weight Per Box Pounds
4	1½	10	2	6	5
6	1¾	10	1	6	4

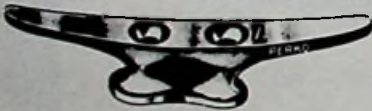


Fig. 544-SP



CLEAT — Fig. 544-SP
Chrome Plated Bronze

Length Inches	Size Base Inches	Screw Size	Cleats Per Card	Cards Per Box	Weight Per Box Pounds
4	1½ x ¾	10	1	6	2½

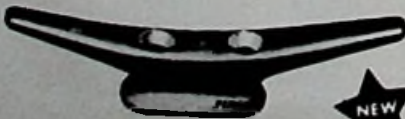


Fig. 545-SP

CLEATS — Fig. 545-SP
Cast Aluminum — Plain Aluminum Finish

Length Inches	Width Base Inches	Screw Size	Cleats Per Card	Cards Per Box	Weight Per Box Pounds
4	1½ x ¾	10	2	10	2½
5	2 x ¾	¼	2	10	3½
8	2½ x 1½	¼	1	5	2½

CHROMALEX® CLEATS — Fig. 1305-SP

Patent No. 3,828,714

Closed Base Type

Chrome Plated Zinc with Black Plastic Base

No.	Length Inches	Size Base Inches	For Rope Diameter Inches	Screw Size	Cleats Per Card	Cards Per Box	Weight Per Box Pounds
1	4½	3¾ x 1½	¾	10	2	6	4
2	6	5 x 1½	½	¼	1	6	4



Fig. 1305-SP

CHROMALEX® CLEATS — Fig. 1306-SP

Patent No. 3,828,714

Open Base Type

Chrome Plated Zinc with Black Plastic Base

No.	Length Inches	Size Base Inches	For Rope Diameter Inches	Screw Size	Cleats Per Card	Cards Per Box	Weight Per Box Pounds
1	4½	2½ x 1½	¾	10	2	6	4
2	6	3¾ x 1½	½	¼	1	6	4

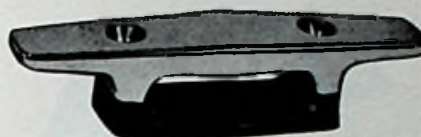


Fig. 1306-SP



CHROMALEX® III CLEATS — Fig. 1505-SP

Patent No. 3,828,714

Closed Base Type

Chrome Plated Zinc with Teak Insert — Black Plastic Base

No.	Length Inches	Size Base Inches	For Rope Diameter Inches	Screw Size	Cleats Per Card	Cards Per Box	Weight Per Box Pounds
1	4½	3¾ x 1½	¾	10	2	6	4
2	6	5 x 1½	½	¼	1	6	4



Fig. 1505-SP

CHROMALEX® III CLEATS — Fig. 1506-SP

Patent No. 3,828,714

Open Base Type

Chrome Plated Zinc with Teak Insert — Black Plastic Base

No.	Length Inches	Size Base Inches	For Rope Diameter Inches	Screw Size	Cleats Per Card	Cards Per Box	Weight Per Box Pounds
1	4½	2½ x 1½	¾	10	2	6	4
2	6	3¾ x 1½	½	¼	1	6	4



Fig. 1506-SP



WATER SKI TOWING HOOK — Fig. 863-SP

Chrome Plated Zinc Body with Zinc Plated Steel Bolt, Nuts, and Washer

Length Overall Inches	Diameter Bolt Inches	Length Bolt Inches	Length Thread Inches	Cards Per Box	Weight Per Box Pounds
6	¾	3¾	2½	6	3¾



Fig. 863-SP



Fig. 1307-SP



CHROMALEX® CHOCKS — Fig. 1307-SP

Patent No. 3,828,714

Skene Type — Chrome Plated Zinc and Black Plastic

No.	Length Inches	Width Base Inches	For Rope Diameter Inches	Screw Size	Chocks Per Card	Cards Per Box	Weight Per Box Pounds
1	3½	¾	¾	10	1 pr.	12	3½
2	5	1	½	¼	1 pr.	6	4



Fig. 1308-SP

CHROMALEX® CHOCKS — Fig. 1308-SP

Patent No. 3,828,714

Straight Type — Chrome Plated Zinc and Black Plastic

No.	Length Inches	Width Base Inches	For Rope Diameter Inches	Screw Size	Chocks Per Card	Cards Per Box	Weight Per Box Pounds
1	3½	¾	¾	10	1 pr.	12	3½
2	5	1	½	¼	1 pr.	6	4



Fig. 1223-SP



BOW CHOCKS — Fig. 1223-SP

Skene Type — Chrome Plated Zinc

Length Inches	Width Inches	For Rope Diameter Inches	Screw Size	Chocks Per Card	Cards Per Box	Weight Per Box Pounds
3½	¾	½	8	1 pr.	12	4½



Fig. 546-SP

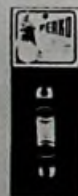
BOW CHOCKS — Fig. 546-SP

Chrome Plated Bronze

Length Inches	Width Inches	For Rope Diameter Inches	Screw Size	Chocks Per Card	Cards Per Box	Weight Per Box Pounds
4	¾	¾	10	1 pr.	6	4



Fig. 119-SP



CHOCK — Fig. 119-SP

Straight Type — Chrome Plated Bronze

Length Inches	Width Inches	For Rope Diameter Inches	Screw Size	Chocks Per Card	Cards Per Box	Weight Per Box Pounds
4	¾	¾	8	1	6	2½

TILLER ROPE PULLEYS — Fig. 565-SP

Swivel Type with Strap — For 1/4" Rope
Stainless Steel — White Plastic Sheave

Length Overall Inches	Diameter Sheave Inches	Length Strap Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
3 3/4	2 5/16	1 5/8	10 R.H.	12	4 1/2



Fig. 565-SP

TILLER ROPE PULLEYS — Fig. 634-SP

Swivel Snap Hook Type — For 1/4" Rope
Stainless Steel — White Plastic Sheave

Length Overall Inches	Snap Throat Opening Inches	Diameter Sheave Inches	Cards Per Box	Weight Per Box Pounds
4 3/4	1/2	2 5/16	12	5 1/4

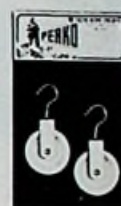


Fig. 634-SP

TILLER ROPE TIGHTENERS — Fig. 732-SP

18-8 Stainless Steel or Cadmium Plated Steel

Normal Length Inches	Length Compressed Inches	Outside Diameter Inches	Cards Per Box	Weight Per Box Pounds
4	5	1	12	5 1/2

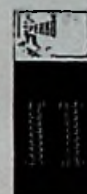
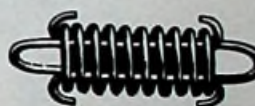


Fig. 732-SP — CAD.
 Fig. 732-SP — STS.

TILLER ROPE CLAMPS — Fig. 1226-SP

Chrome Plated Zinc
For 1/8" and 3/16" Rope

Length Inches	Width Inches	Cards Per Box	Weight Per Box Pounds
1 1/4	1 1/16	12	2 1/2

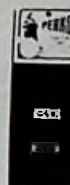


Fig. 1226-SP

EYE STRAPS — Fig. 1242-SP

Chrome Plated Zinc

Length Inches	Size Eye Inches	Screw Size	Straps Per Card	Cards Per Box	Weight Per Box Pounds
1 3/4	3/16	8	6	10	2 3/4

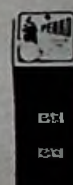


Fig. 1242-SP

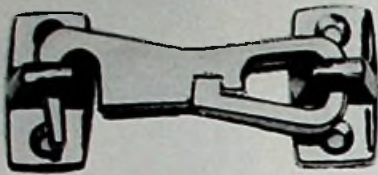


Fig. 1287-SP

CABIN DOOR HOOK — Fig. 1287-SP

Patent No. 197,531

Chrome Plated Zinc

No.	Length Hook Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
2	2½	6	6	¾



Fig. 1199-SP



CABIN DOOR HOOK — Fig. 1199-SP

Chrome Plated Zinc

No.	Length Hook Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
1	1¼	6	12	2



Fig. 1194-SP

HASP — Fig. 1194-SP

Chrome Plated Zinc

Padlock eye swivels to act as a latch.

Length Closed Inches	Width Inches	Padlock Clearance Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
3	1	1½	6	5	1¼



Fig. 1198-SP



HASP — Fig. 1198-SP

Chrome Plated Zinc

No.	Length Closed Inches	Width Inches	Padlock Clearance Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
2	3	1	¼	6	12	2½

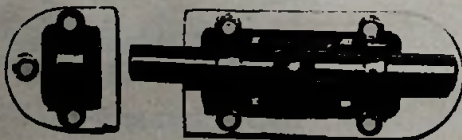


Fig. 947-SP

BARREL BOLT — Fig. 947-SP

Chrome Plated Bronze

Supplied with black plastic friction pad to eliminate rattle and provide smooth operation.

No.	Dimensions Overall Inches	Cards Per Box	Weight Per Box Pounds
2	4½ x 17/16	5	1½

CUPBOARD BOLT — Fig. 1101-SP
Chrome Plated Zinc and Black Plastic

Overall Dimensions Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
2 1/4 x 1 1/2	6	6	1 1/4

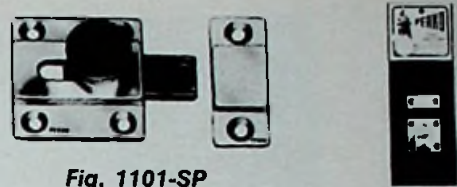


Fig. 1101-SP

CUPBOARD CATCH — Fig. 1102-SP
Chrome Plated Zinc
Supplied with Flush and Offset Strike

Overall Dimensions Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
1 1/2 x 1 1/4	6	6	1

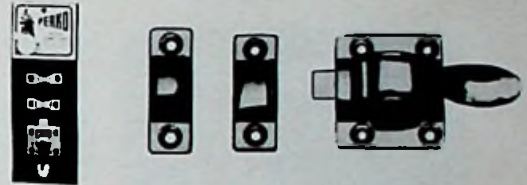


Fig. 1102-SP

HATCH FASTENER OR WINDSHIELD KEEPER — Fig. 769-SP
Chrome Plated Brass and Zinc with Black Plastic Handle

Dimensions Base Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
1 1/2 x 5/8	8	5	1 1/2

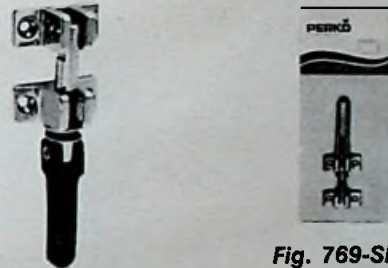


Fig. 769-SP

HOLD DOWN CLAMP — Fig. 1112-SP
Chrome Plated Bronze
Flat Mount

Length Inches	Width Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
3	1 1/2	8	3	1 1/4



Fig. 1112-SP

HOLD DOWN CLAMP — Fig. 1113-SP
Chrome Plated Bronze
Angle Mount

Length Inches	Width Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
2 1/2	1 1/2	8	3	1 1/4



Fig. 1113-SP

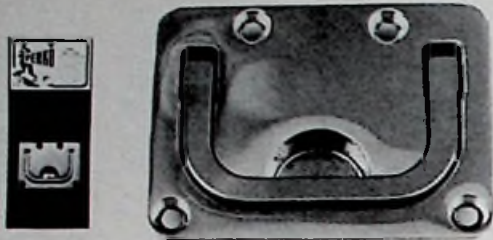


Fig. 1220-SP

LIFTING HANDLE — Fig. 1220-SP

Chrome Plated Zinc

Size Plate Inches	Inside Handle Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
3 x 2¼	1½ x 1	8	10	2½

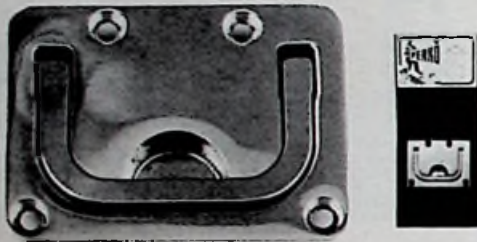


Fig. 776-SP

LIFTING HANDLE — Fig. 776-SP

Chrome Plated Bronze

No.	Size Plate Inches	Inside Handle Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
1	3 x 2¼	1½ x 1	8	6	1¼



Fig. 575-SP

FLUSH RING PULL — Fig. 575-SP

Chrome Plated Bronze

Size Plate Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
2½ x 2	8	12	1½



Fig. 841-SP

FLUSH RING PULL — Fig. 841-SP

Chrome Plated Zinc

Size Plate Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
1¼ x 1¼	6	12	1



Fig. 1232-SP

FLUSH RING PULL — Fig. 1232-SP

Chrome Plated Zinc

No.	Diameter Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
1	1¼	6	10	1¾

FLUSH PULL — Fig. 1221-SP

Chrome Plated Zinc with Black Plastic Finishing Frame
Spring Loaded — Can be mounted horizontally or vertically

Dimensions Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
¾ x 3¼	8	10	1¼

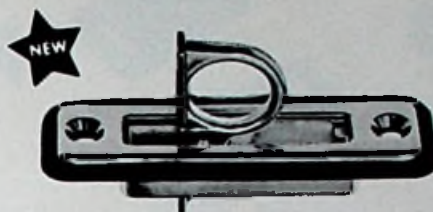


Fig. 1221-SP

BUTT HINGE — Fig. 1293-SP

Chrome Plated Zinc
Removable Pin

No.	Pin Length Inches	Width Open Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
4	2	2	8	10	2¼

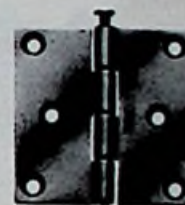


Fig. 1293-SP

HINGE — Fig. 271-SP

Chrome Plated Brass
Semi-Concealed
For use on doors with 3/8" inset.

Length Overall Inches	Width at Pin Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
2¼	1½	5	10	2

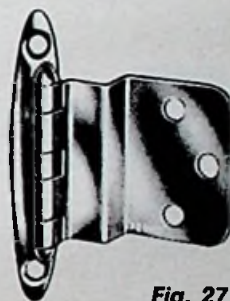


Fig. 271-SP

CUDDY DOOR HINGE — Fig. 808-SP

Chrome Plated Zinc

Length Open Inches	Width Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
3	1½	8	10	2¼



Fig. 808-SP

HINGE — Fig. 924-SP

Chrome Plated Brass

Length Open Inches	Width Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
3	1½	6	12	2

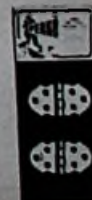


Fig. 924-SP

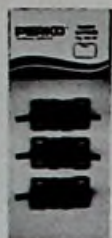


Fig. 1021-SP

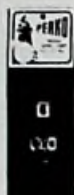
ELBOW CATCH — Fig. 1021-SP

Black Plastic

Size Base Inches	Screw Size	Catches Per Card	Cards Per Box	Weight Per Box Pounds
1 1/8 x 3/8	6	6	10	1 1/2



Fig. 1056-SP



ELBOW CATCH — Fig. 1056-SP

Chrome Plated Zinc

Size Base Inches	Screw Size	Catches Per Card	Cards Per Box	Weight Per Box Pounds
1 1/8 x 3/16	6	1	12	1

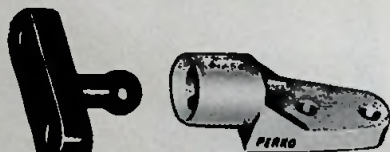


Fig. 559-SP

DOOR CATCH — Fig. 559-SP

Black Plastic

Stud Size Inches	Catch Size Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
1 1/8 x 3/8	1 3/8 x 7/8	4	25	1



Fig. 921-SP



FLUSH LOCK — Fig. 921-SP

Chrome Plated Zinc

Size Inches	Cards Per Box	Weight Per Box Pounds
2 1/4 x 2	5	2 1/4



Fig. 922-SP



FLUSH LATCH — Fig. 922-SP

Chrome Plated Zinc

Non-Locking Type

Size Inches	Cards Per Box	Weight Per Box Pounds
2 1/4 x 2	5	2 1/4

SLIDING WINDOW LOCK AND ANTI RATTLER — Fig. 937-SP

Chrome Plated Zinc — Black Plastic Knob and Tip

Height Overall Inches	Mounting Plate Inches	Adjustment Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
1 5/8	1 x 5/8	1 1/8	8	6	2

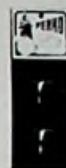


Fig. 937-SP

DOOR BUTTON — Fig. 1216-SP

Chrome Plated Zinc — Black Plastic Knob — Bronze Spring

Diameter Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
1 1/16	6	12	1 3/4

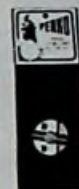


Fig. 1216-SP

HOOKS — Fig. 610-SP

Chrome Plated Zinc

Projection Inches	Width Base Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
1 3/4	1 1/8	6	10	5/8

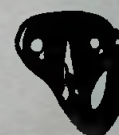


Fig. 610-SP

SWIVEL EYE SNAP — Fig. 659-SP

Cast Bronze

Inside Diameter Eye Inches	Length Inches	Inside Hook Inches	Cards Per Box	Weight Per Box Pounds
3/4	3 1/2	7/16	10	2

This Snap not to be used for lifting, winching, towing or mooring or like applications.



Fig. 659-SP

SWIVEL EYE SNAP — Fig. 1289-SP

Chrome Plated Zinc — Interlocking Tongue

Inside Diameter Eye Inches	Length Inches	Cards Per Box	Weight Per Box Pounds
5/8	3	12	2 1/2

This Snap not to be used for lifting, winching, towing or mooring or like applications.

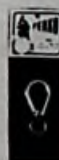


Fig. 1289-SP



Fig. 1246-SP

FENDER HOOKS — Fig. 1246-SP
Chrome Plated Zinc

For Rope Diameter Inches	Size Plate Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
3/4	1 1/4 x 1 1/4	6	12	2 1/4



Fig. 1299-SP



FENDER LOCKS — Fig. 1299-SP
Chrome Plated Zinc

Eye is permanently attached to fender line for quick and easy installation

Diameter Flange Inches	I.D. Eye Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
1 1/2	3/8	8	12	2 1/4



Fig. 1249-SP

UTILITY HOOKS — Fig. 1249-SP
Chrome Plated Zinc

Length Inches	Width Inches	Inside Hook Inches	Screw Size	Hooks Per Card	Cards Per Box	Weight Per Box Pounds
1 5/8	1/2	1/4	6	6	10	2 1/4



Fig. 1017-SP

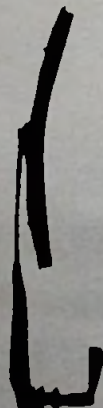


RING BUOY HOLDER — Fig. 1017-SP
Chrome Plated Brass

Width Mounting Plate Inches	Height Overall Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
3	4 1/2	8	4	2 1/2



Fig. 533-SP



HAND WINDSHIELD WIPER — Fig. 533-SP
Stainless Steel Arm and Blade Holder
Other parts Chrome Plated Zinc
For straight and curved windshields

Arm can be extended from 6 3/4 to 10 1/2 inches and spring tension is adjustable.

Length Overall Inches	Diameter Shaft Inches	Maximum Thickness Inches	Length Handle Inches	Length Blade Inches	Cards Per Box	Weight Per Box Pounds
8 to 11 1/2	3/8	1 1/4	2 1/2	12	3	2

BOAT HOOK HOLDERS — Fig. 492-SP
Polished Stainless Steel

Length Inches	Width Inches	Maximum Pole Size Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
3½	1	1½	6	12	3

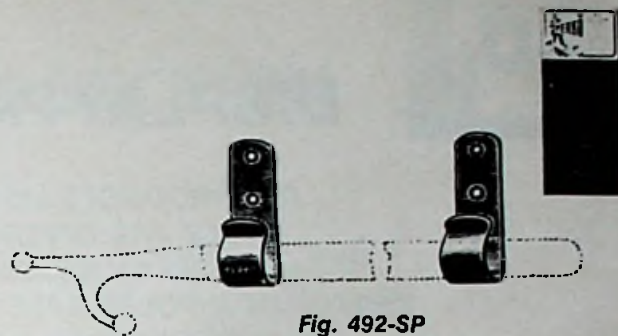


Fig. 492-SP

SPRING CLAMPS — Fig. 502-SP
Polished Stainless Steel

No.	Adjust- ability Inches	Length From Wall Inches	Width of Metal Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
1	¾ to 1¼	1½	½	6 R.H.	12	3

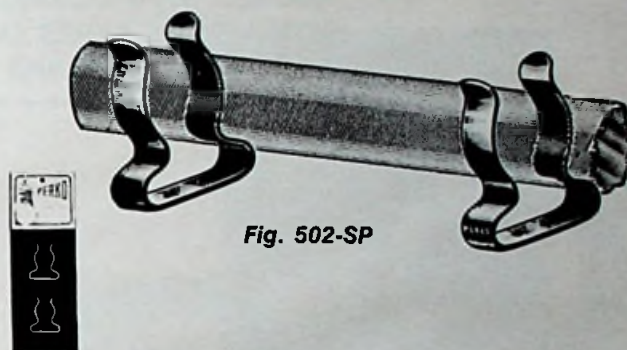


Fig. 502-SP

BOAT COVER SOCKETS — Fig. 578-SP
Chrome Plated Zinc

Length Overall Inches	Width Overall Inches	Size Opening Inches	Screw Size	Cards Per Box	Weight Per Box Pounds
3¼	¾	1¼ x ¾	8	12	3

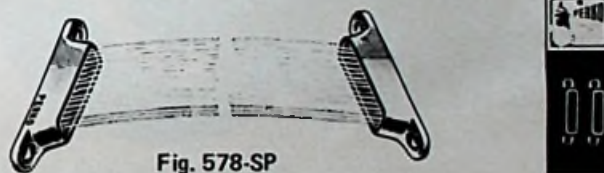
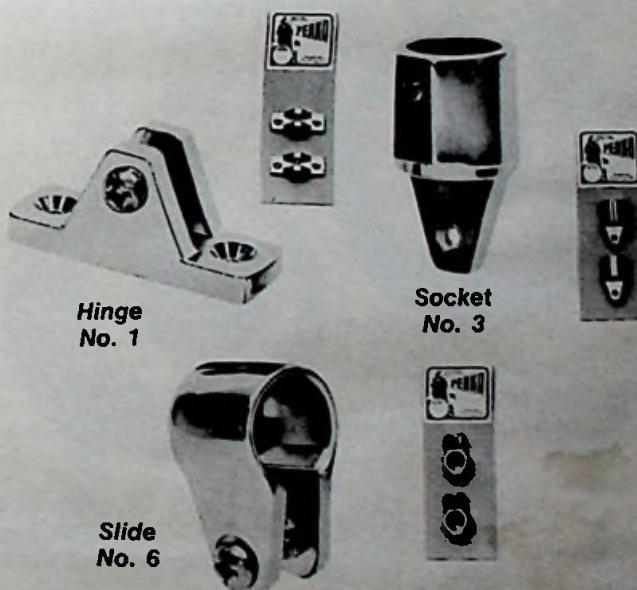


Fig. 578-SP

CONVERTIBLE TOP FITTINGS — Fig. 395
Chrome Plated Zinc

No.	Item	Screw Size	Cards Per Box	Weight Per Box Pounds
1	Deck Hinge or Bracket	8	6	1¼
3	Socket for ¾ inch tubing	—	6	1¼
6	Slide for ¾ inch tubing	—	6	1¼



Hinge
No. 1

Socket
No. 3

Slide
No. 6

Fig. 395-SP



DISPLAY PACK SECTION



THE PRODUCTS LISTED ON THE FOLLOWING PAGES ARE OFFERED IN OUR ATTRACTIVE DISPLAY BOXES AS A PART OF OUR 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. 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



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 For Extra Theft Protection and Alternator Field Disconnect Feature Which Protects Alternator From Damage if Switch is Accidentally Switched to Off Position While Engine is Running.

For use with systems under 50 Volts.
Capacity, 250 Amps Continuous, 360 Amps Intermittent.

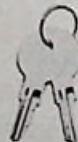
Diameter Inches	Depth Inches	Packs Per Box	Weight Per Box Pounds
5 1/4	2 5/8	5	5



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



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.

For use with systems under 50 Volts.
Capacity, 250 Amps Continuous, 360 Amps Intermittent.



DISPLAY PACK SECTION



SPREADER LIGHT — Fig. 280-DP

Adjustable

Chrome Plated Brass with 12 Volt Sealed Beam Unit

Diameter Inches	Depth Inches	Mounting Bracket Inches	Screw Size	Packs Per Box	Weight Per Box Pounds
4 $\frac{3}{8}$	2 $\frac{1}{2}$	5 $\frac{3}{8}$ x $\frac{3}{4}$	12	5	7

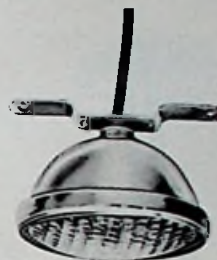


Fig. 280-DP

SWITCH PANEL — Fig. 517-DP

Black Textured Finish — Embossed Lettering — Molded Flexible Plastic which will mount on Curved and Flat Surfaces.

Complete with switches, fuse holders, and name plates. Switches rated 15 Amps at 12 Volts. Fuse holders for 1/4" x 1-1/4" fuses.

Dimensions Inches	Screw Size	Packs Per Box	Weight Per Box Pounds
6 $\frac{1}{2}$ x 4 $\frac{1}{4}$	6	5	4



Fig. 517-DP

RIM LOCK SETS — Figs. 918-DP & 919-DP

Chrome Plated Zinc

Fig. 918-DP — Regular Bevel With Box Strike.

Fig. 919-DP — Reverse Bevel With Flush Strike.

Locked by dead bolt from inside or key from outside.

Size Case Inches	Size Escutcheon Inches	For Door Inches	Screw Size	Packs Per Box	Weight Per Box Pounds
3 $\frac{1}{2}$ x 2	4 $\frac{3}{8}$ x 1 $\frac{1}{4}$	$\frac{3}{4}$ - 1 $\frac{1}{2}$	6	5	6 $\frac{1}{2}$



Fig.
918-DP

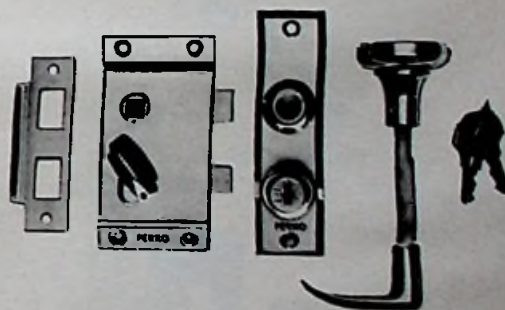


Fig.
919-DP

RIM LATCH SETS — Figs. 928-DP & 930-DP

Chrome Plated Zinc

Fig. 928-DP — Regular Bevel With Box Strike.

Fig. 930-DP — Reverse Bevel With Flush Strike.

Locked by slide button from inside, no keys.

Size Case Inches	Size Escutcheon Inches	For Door Inches	Screw Size	Packs Per Box	Weight Per Box Pounds
2 $\frac{1}{2}$ x 1 $\frac{3}{4}$	4 $\frac{3}{8}$ x 1 $\frac{1}{4}$	$\frac{3}{4}$ - 1 $\frac{1}{2}$	6	5	4



Fig.
928-DP



Fig.
930-DP



DISPLAY PACK SECTION



Fig. 444 No. 1-DP

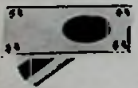
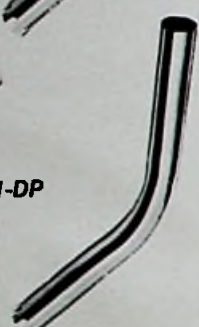


Fig. 451 No. 1-DP

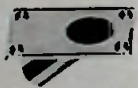


Fig. 1314-DP



Fig. 1118-DP

OUTRIGGER POLE HOLDERS — Fig. 444-DP

Side Mount — Chrome Plated Bronze Brackets with Polished Stainless Steel Tubes

Removable Universal Tubes. Tubes lift and turn to 3 positions — Vertical, Fishing, and Lowered.

No.	Outside Diameter Tube Inches	Nominal Inside Diameter Tube Inches	Dimensions Bracket Inches	Bolt Size	Packs Per Box	Weight Per Box Pounds
1	1 1/4	1.120	4 1/2 x 3	1/4	5	15

NOTE: For use with Outrigger Poles Fig. 460 No. 15 and 1098 Nos. 16 and 18.

OUTRIGGER POLE HOLDERS — Fig. 451-DP

Deck Mount — Chrome Plated Bronze Plates with Polished Stainless Steel Tubes

Removable Universal Tubes. Tubes lift and turn to 3 positions — Vertical, Fishing, and Lowered.

No.	Outside Diameter Tube Inches	Nominal Inside Diameter Tube Inches	Dimensions Bracket Inches	Bolt Size	Packs Per Box	Weight Per Box Pounds
1	1 1/4	1.120	5 x 2 1/2	1/4	5	30

NOTE: For use with Outrigger Poles Fig. 460 No. 15 and 1098 Nos. 16 and 18.

OUTRIGGER POLE HOLDERS — Fig. 1314-DP

Deck Mount — Chrome Plated Zinc Plates with Stainless Steel Tubes

Removable Universal Tubes. Tubes lift and turn to 3 positions — Vertical, Fishing, and Lowered.

Outside Diameter Tube Inches	Nominal Inside Diameter Tube Inches	Dimensions Bracket Inches	Bolt Size	Packs Per Box	Weight Per Box Pounds
1 1/4	1.120	5 x 2 1/2	1/4	5	22

NOTE: Not designed for use with aluminum poles i.e. Fig. 1098.

For use with outrigger poles Fig. 460 No. 15

FISHING ROD HOLDER — Fig. 1118-DP

Clamp On — Chrome Plated Brass and Bronze with Soft Black Vinyl Liner

Clamp on feature eliminates drilling rail — simplifies relocation — mounts on vertical or horizontal rails 3/4 to 1 inch diameter.

Inside Diameter Liner Inches	Outside Diameter Tube Inches	Length Tube Inches	Packs Per Box	Weight Per Box Pounds
1 1/4	2	9	5	11



DISPLAY PACK SECTION



FISHING ROD HOLDER — Fig. 448-DP

Chrome Plated Bronze Flange

Brass Tube with Soft Black Vinyl Liner

No.	Inside Diameter Liner Inches	Outside Diameter Tube Inches	Length Under Flange Inches	Dimensions Flange Inches	Bolt Size	Packs Per Box	Weight Per Box Pounds
1	1 $\frac{1}{4}$	2	8	4 $\frac{1}{4}$ x 3 $\frac{1}{2}$	$\frac{1}{4}$	5	6 $\frac{1}{2}$



Fig. 448 No. 1-DP

FISHING ROD HOLDER — Fig. 1205-DP

Chrome Plated Zinc Flange — Anodized Aluminum Tube with Soft Black Vinyl Liner

No.	Inside Diameter Liner Inches	Outside Diameter Tube Inches	Length Under Flange Inches	Dimensions Flange Inches	Bolt Size	Packs Per Box	Weight Per Box Pounds
1	1 $\frac{1}{4}$	2	8	4 $\frac{1}{4}$ x 3 $\frac{1}{2}$	$\frac{1}{4}$	5	5 $\frac{1}{4}$



Fig. 1205-DP

FISHING ROD HOLDER — Fig. 452-DP

Polished Stainless Steel Flange — Stainless Steel Tube With Soft Black Vinyl Liner — Molded Plastic Mounting Gasket

No.	Inside Diameter Liner Inches	Outside Diameter Tube Inches	Length Under Flange Inches	Dimensions Flange Inches	Bolt Size	Packs Per Box	Weight Per Box Pounds
1	1 $\frac{1}{4}$	2	8 $\frac{1}{4}$	4 $\frac{1}{4}$ x 3 $\frac{3}{4}$	8	5	4 $\frac{3}{4}$



Fig. 452-DP

FISHING ROD HOLDER — Fig. 1100-DP

Chrome Plated Brass with Soft Black Vinyl Liner

No.	Inside Diameter Liner Inches	Outside Diameter Tube Inches	Length Overall Inches	Width Bracket Inches	Screw Size	Packs Per Box	Weight Per Box Pounds
1	1 $\frac{1}{4}$	2	9	3	8	5	5 $\frac{1}{4}$



Fig. 1100-DP

FISHING ROD HOLDER — Fig. 1104-DP

Black Plastic with Chrome Plated Brass Brackets

No.	Inside Diameter Liner Inches	Outside Diameter Tube Inches	Length Overall Inches	Width Bracket Inches	Screw Size	Packs Per Box	Weight Per Box Pounds
1	1 $\frac{1}{4}$	2	9	3 $\frac{3}{4}$	8	5	3

Fig. 1104-DP





DISPLAY PACK SECTION



Fig. 1330 No. 2-DP



Fig. 1630 No. 2-DP



Figs. 1430 No. 2-DP & 1530 No. 2-DP



Fig. 1611 No. 2-DP



Fig. 1311 No. 2-DP



Figs. 1411 No. 2-DP & 1511 No. 2-DP

ALL-ROUND WHITE LIGHTS — Fig. 1330-DP & 1630-DP
Stow-a-way Type

Chrome Plated Zinc Tops and Bases

3/4" Diameter Anodized Aluminum Tube — Clear or White Globe — 2 Mile Visibility — complete with 12 Volt bulb.

Removable light with waterproof cover for base.

For use on power driven vessels under 20 meters (65.6 ft.)

Fig. No.	Length Inches	Vertical Height Inches	Base Length Inches	Base Width Inches	Screw Size	Packs Per Box	Weight Per Box Pounds
1330 No. 2-DP	24	19 1/4	3 1/4	1 1/8	8	5	5
1630 No. 2-DP	24	19 1/4	3 1/4	1 1/8	8	5	5

ALL-ROUND WHITE LIGHTS — Fig. 1430-DP & 1530-DP
Stow-a-way Type

Chrome Plated Zinc Tops and Bases

3/4" Diameter Anodized Aluminum Tube — White Globe — 2 Mile Visibility — complete with 12 Volt bulb.

Removable light with waterproof cover for base.

For use on power driven vessels under 20 meters (65.6 ft.)

Fig. 1430 No. 2 — with Black Insert

Fig. 1530 No. 2 — with Teak Insert

Fig. No.	Length Inches	Vertical Height Inches	Base Length Inches	Base Width Inches	Screw Size	Packs Per Box	Weight Per Box Pounds
1430 No. 2-DP	24	20 1/2	3 1/2	1 1/2	8	5	5
1530 No. 2-DP	24	20 1/2	3 1/2	1 1/2	8	5	5

ALL-ROUND WHITE LIGHTS — Fig. 1311-DP & 1611-DP
Telescoping Type

Chrome Plated Zinc Tops and Bases

3/4" Diameter Anodized Aluminum Tube — Clear or White Globe — 2 Mile Visibility — complete with 12 Volt bulb.

For use on power driven vessels under 20 meters (65.6 ft.)

Fig. No.	Length Inches	Vertical Height Inches	Base Length Inches	Base Width Inches	Screw Size	Packs Per Box	Weight Per Box Pounds
1311 No. 2-DP	24	20	3 1/4	1 1/8	8	5	5
1611 No. 2-DP	24	19 1/2	3 1/4	1 1/8	8	5	5

ALL-ROUND WHITE LIGHTS — Fig. 1411-DP & 1511-DP
Telescoping Type

Chrome Plated Zinc Tops and Bases

3/4" Diameter Anodized Aluminum Tube — White Globe — 2 Mile Visibility — complete with 12 Volt bulb.

For use on power driven vessels under 20 meters (65.6 ft.)

Fig. 1411 No. 2 — with Black Insert

Fig. 1511 No. 2 — with Teak Insert

Fig. No.	Length Inches	Vertical Height Inches	Base Length Inches	Base Width Inches	Screw Size	Packs Per Box	Weight Per Box Pounds
1411 No. 2-DP	24	21	3 1/2	1 1/2	8	5	5
1511 No. 2-DP	24	21	3 1/2	1 1/2	8	5	5



DISPLAY PACK SECTION



ALL-ROUND WHITE LIGHT — Fig. 1209-DP

Stow-a-way Type

Chrome Plated Brass Top and Base

3/4" Diameter Anodized Aluminum Tube — Clear Globe —
2 Mile Visibility — complete with 12 Volt bulb.

Removable light with waterproof cover for base.

For use on power driven vessels under 20 meters (65.6 ft.)

No.	Length Inches	Vertical Height Inches	Base Length Inches	Base Width Inches	Screw Size	Packs Per Box	Weight Per Box Pounds
2	24	20 ³ / ₄	3 ³ / ₈	2 ¹ / ₄	8	5	6



Fig. 1209 No. 2-DP

ALL-ROUND WHITE LIGHT — Fig. 1126-DP

Telescoping Type

Chrome Plated Brass Top and Base

3/4" Diameter Anodized Aluminum Tube — Clear Globe —
2 Mile Visibility — complete with 12 Volt bulb.

For use on power driven vessels under 20 meters (65.6 ft.)

No.	Length Inches	Vertical Height Inches	Base Length Inches	Base Width Inches	Screw Size	Packs Per Box	Weight Per Box Pounds
2	24	21 ¹ / ₂	3 ³ / ₈	2 ¹ / ₄	8	5	6



Fig. 1126 No. 2-DP

ALL-ROUND WHITE LIGHTS — Fig. 1400-DP

Universal Replacement

Stow-a-way Type

Chrome Plated Zinc Tops

3/4" Diameter Anodized Aluminum Tube — White Globe —
2 Mile Visibility — complete with 12 Volt bulb.

For use on power driven vessels under 20 meters (65.6 ft.)

This unit has been designed to fit PERKO Figs. 1330, 1430,
1530, 1630 and 1631 as well as many competitive pole light
bases.

It is offered as an economical alternative to replacing an entire
light fixture when only the pole section has been lost or damaged.

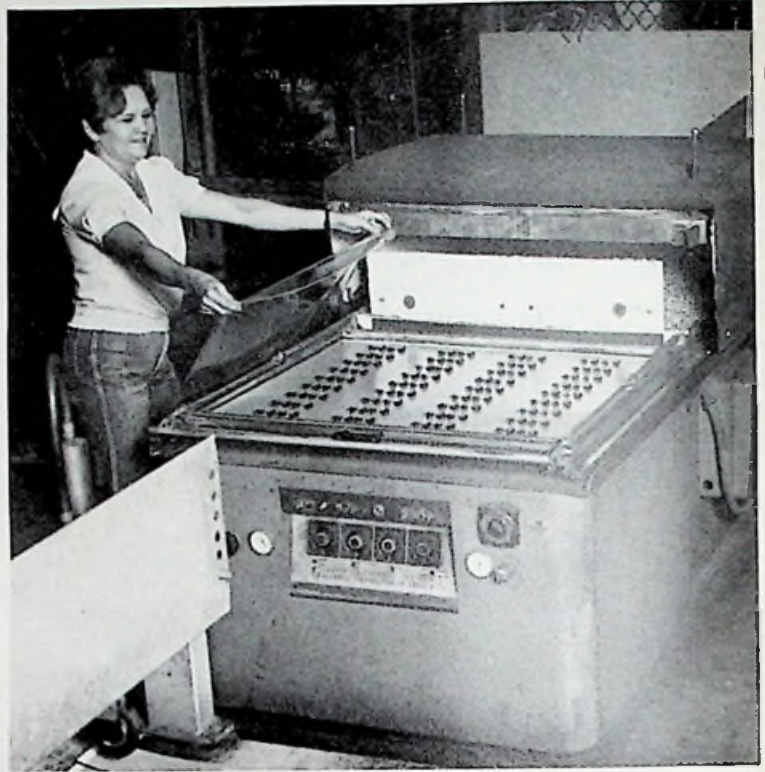
No.	Length Inches	Packs Per Box	Weight Per Box Pounds
2	24	10	5
3	30	10	6 ¹ / ₄
4	36	10	7 ¹ / ₂
5	42	10	8 ³ / ₄
6	48	10	10
7	54	10	11 ¹ / ₄



Fig. 1400-DP

SKIN PACK DIVISION

Our PerkoPak Program Offers a Large Number and Variety of Our Products in Skin Pack or Attractive Display Boxes.



PLASTICS INJECTION

MOLDING PLANT

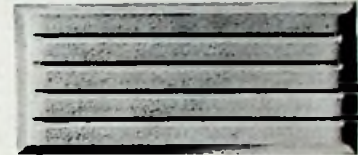
Our Plastics Injection Molding Plant Consists of Eleven Machines, Ranging From 28 Ton to 500 ton, Three of Which are Micro-Processor Type, the Very Latest State-Of-The-Art Injection Molding Machines.



SECTION S

PERKO®

SPARE PARTS



MANUFACTURED BY PERKO, INC., 16490 N.W. 13TH AVE., P.O. BOX 64000-D, MIAMI, FLORIDA 33164-0414
FOR COMPLETE LINE SEE CATALOG NO. 245

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SPARE PARTS FOR SECTION A

Page No.	For Fig. No.	Description	Fig. No.
A-3	Entire Page Entire Page Entire Page	Bulb Lenses Base with socket assembly	71 283A Specify Color 136
A-4	Entire Page 1610 904 972 1218 1610 904 972 1218	Bulb Lenses Lenses Lenses Lenses Base with socket assembly Base with socket assembly Base with socket assembly Socket assembly	71 283A Specify Color 296 Specify Color 296 Specify Color 259A Specify Color 139 107 135 130
A-5	Entire Page 970 1612 1201 1201 970 1612 970-1612	Bulb Lenses Lenses Lens Lens Base with socket assembly Base with socket assembly Mounting Base	71 296 Specify Color 283A Specify Color 278 WHT 1201 — 99A Red/Green 135 139 1023
A-6	Entire Page 955 915-963 1264 915 963 955 1264	Bulb Lenses Lenses Lenses Base with socket assembly Base with socket assembly Base with socket assembly Socket assembly	71 260 Specify Color 281A Specify Color 1264 - 99R, 1264 - 99G 107 135 955 - 99A 130
A-7	965-945-1332 939-946 965 945 939 946 1332 965 945 939 946	Bulb Bulb Lenses Lenses Lens with gasket Lens with gasket Lenses Base with socket assembly Base with socket assembly Socket assembly Socket assembly	71 70 No. 0, 12 Volt 70 No. 2, 32 Volt 281A 74 284 946 - 99A 278 135 945-99A 939 001 99A - 12 Volt 939 002 99A - 32 Volt 946 001 99B - 12 Volt 946 002 99B - 32 Volt
A-8	Entire Page Entire Page Entire Page	Bulb Globes D.C. Socket	337 No. 11 248-CLR 24 No. 2
A-9	Entire Page Entire Page	Bulb Globes	337 No. 12 201
A-10	1209-1330 1630 1209-1330 1630 Entire Page	Bulb Bulb Globe Globe D.C. Socket	337 No. 11 337 No. 12 248-CLR 201 24 No. 2
A-11	Entire Page Entire Page Entire Page	Bulb Globes D.C. Socket	337 No. 12 201 24 No. 2

A-12	112A - 309A	Bulb	374
	112B - 309B	Bulb	340
	455-362-371	Bulb	337 No. 11
	1134-1137	Bulb	337 No. 11
	1301	Bulb	337 No. 12
	112-309	Globes	106 Specify Color
	362-371	Globes	248F
	1134-1137-455	Globes	248-CLR
	1301	Globes	201
	112A - 309A	Socket	276 No. 2
	112B - 309B	Socket	226
	455-1134-1137	Socket	24 No. 2
	1301-362-371	Socket	24 No. 1
	A-13	Entire Page	Bulb
903 - 964		Lenses	281A WHT
1178-1331		Lenses	278-WHT
1265		Lenses	1265-99A
903		Base with socket assembly	107
964		Base with socket assembly	135
1265		Socket assembly	130
A-14	Entire Page	Bulb	71
	Entire Page	Lenses	278-WHT
A-15	Entire Page	Bulb	71
	Entire Page	Lenses	278-WHT
	1181	Mounting Bracket	1120
	1182	Mounting Bracket	1121
	1184	Mounting Bracket	1122
	1195	Mounting Bracket	1157
1181-1182-1184	Knob	1144A	
A-16	Entire Page	Bulb	70 Specify Size
	91F-109	Lenses	259 Color & Class
	98F-110	Lenses	256 Color & Class
	99F-111	Lenses	269 Color & Class
	91F-98F-99F	Electric Adapter	138F Specify Class
A-17	4F-5F-7F	Bulb	70 Specify Size
	4F	Lenses	259 Color & Class
	5F	Lenses	256 Color & Class
	7F	Lenses	269 Color & Class
	329	Globe	250 Specify Color
A-18	Entire Page	Bulb	374 Specify Size
	Entire Page	Lenses with top assembly	249 Specify Color
	Entire Page	D.C. Socket	134
A-19	02-06	Bulbs	337 No. 12
	06B	Bulbs	340 No. 5 or No. 6
	17-18-19-20-97-102	Bulbs	70 Specify Size
	17-19	Lenses	259 Color & Class
	18-20	Lenses	256 Color & Class
	97-102	Lenses	269 Color & Class
	02-Oil	Lenses	261JR CLR
	02-06 Elec.	Lenses	261JR F
	Entire Page (except 02)	Oil Fount	286
	02	Oil Fount	287
	Entire Page	Burners	246
	Entire Page	Wicks	302 No. 00



Fig. 283



Fig. 296



Fig. 281



Clear — Fig. 248



Frosted — Fig. 248F



Fig. 106



Fig. 201



Fig. 278

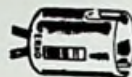


Fig. 24

Fig.	Height Inches	I.D. Inches	O.D. Inches
283	1	1 3/4	2 3/8
296	1 1/4	1 3/8	2 1/4
281	7/8	1 1/4	2
248	2 1/2	1 11/16	2
106	5	2 7/8	3 3/4
201	2 13/16	1 1/2	1 1/8
278	1 1/2	1 1/4	1 1/4

Fig.	Length Pig tail Inches	O.D. Inches
24 #1	10	3/4
#2	60	3/4
52	6	1 1/16



112 1/2° LENSES

Class	A Inches	B Inches
2	4 1/4	3 3/16
3	5 1/16	3 1/16

Red — Fig. 259-R
Green — Fig. 259-G



360° LENSES

Class	A Inches	B Inches
Junior	3 3/16	3 3/16
Senior	4 1/4	4

Clear — Fig. 261
Frosted — Fig. 261-F



135° LENSES

Class	A Inches	B Inches
2	4 1/4	3 1/2
3	5 1/8	3 3/8

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

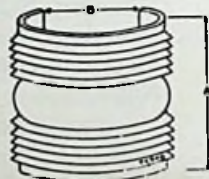


Fig. 346

250 Volts — 660 Watts

No.	*Size Thread Inches	Height Inches	Extreme Diameter Inches	Standard Package
1	1/8	2 1/8	1 1/2	5
3	1/2	1 3/4	1 1/2	5

*Size 1 has internal thread,
Size 3 has external thread.



225° LENSES

Class	A Inches	B Inches
2	4 1/4	3 3/8
3	5 1/8	3 1/4

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

SPARE PARTS FOR SECTION B

Page No.	For Fig. No.	Description	Fig. No.
B-3	Entire Page	Bulbs	342 No. 4
	Entire Page	Lenses	261 No. 1 Specify Color
	Entire Page	Lens Retaining Clip with Bolt	1133
	Entire Page	Lens Gasket	1143
	Entire Page	Med Prefocus Socket	347
	Entire Page	Plastic Top Cap with O-Ring	1105
B-4	Entire Page	Bulbs	342 No. 4
	Entire Page	Lenses	261 No. 1 Specify Color
	Entire Page	Lens Retaining Clip with Bolt	1133
	Entire Page	Lens Gasket	1143
	Entire Page	Dual Med. Prefocus Socket assembly	303
	Entire Page	Plastic Top Cap with O-Ring	1105
B-5	Entire Page	Bulbs	342 Specify Size
	Entire Page	Lenses—112 1/2°	259 No. 1 or 2, Specify Color
	Entire Page	Lenses—135°	269 No. 1 or 2, Specify Color
	Entire Page	Lenses—225°	256 No. 1 or 2, Specify Color
	Entire Page	Lenses—360°	261F No. 1 or 2, Specify Color
	Entire Page	Med. Prefocus Socket with Cap	347-A
B-6	Entire Page	Plastic Top Cap with O-Ring	1105
	Entire Page	Bulbs	342 No. 4
	Entire Page	Lenses	261 No. 1 Specify Color
	Entire Page	Med. Prefocus Socket	347

B-7	4-5-7 112A-309A 4 5 7 112A-309A 4-5-7 112A-309A	Bulbs Bulbs Lenses Lenses Lenses Globes S.C. Bayonet Socket D.C. Bayonet Socket	373 Specify Size 374 Specify Size 259-CL3 Specify Color 256-CL3 Specify Color 269-CL3 Specify Color 106 Specify Color 294 No. 3 276 No. 2
B-8	Entire Page Entire Page Entire Page Entire Page	Bulbs Lens & Top Assembly with Gasket D.C. Socket Assembly Plastic Top Cap with O-Ring	374 Specify Size 249 Specify Color 134 1105
B-9	Entire Page 1171RE-1174RE 1173ME-1173-RE 1111ME 1171-1173-1174 1111ME Entire Page 1111ME	Bulbs Lenses Lenses Lenses Med. Prefocus Socket Med. Prefocus Socket Plastic Top Cap with O-Ring Flasher	342 No. 4 261 Specify Color 261 Specify Color 256 No. 1 Yellow 347 347A 1105 133
B-10	Entire Page Entire Page Entire Page Entire Page Entire Page Entire Page	Bulbs Lenses Lens Retaining Clip with Bolt Lens Gasket Dual Med. Prefocus Socket Assembly Plastic Top Cap with O-Ring	342 No. 4 261 No. 1 Specify Color 1133 1143 303 1105
B-11	Entire Page Entire Page Entire Page Entire Page Entire Page Entire Page Entire Page Entire Page	Lenses—112½° Lenses—135° Lenses—225° Lenses—360° Chimneys Burners Wicks Oil Founts	259 No. 1 or 2, Specify Color 269 No. 1 or 2, Specify Color 256 No. 1 or 2, Specify Color 261 No. 1 or 2, Specify Color 267 242 302 No. 2 282



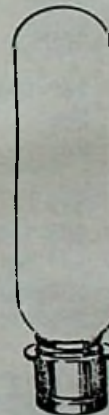
NEW
DOUBLE CONTACT BAYONET BULBS
Clear — 12, 24, 32 or 120 Volts
Type T-8, C-8, Filament — 1½" L.C.L.

Fig. No. 374	Voltage	Canada
1	12	24
2	24	24
3	32	24
4	120	24



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

Fig. No.	Amperage	Mfg. No.
373		
1	.25	25A/S8
2	.55	55A/S8
3	.77	77A/S8
4	1.15	1.15A/S8
5	2.03	2.03A/S 8SCP



MEDIUM PREFOCUS BULBS
Clear — 120 Volts

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



112½° LENSES

No.	A Inches	B Inches
1	6¼	6½
2	7½	9¼

Red — Fig. 259-R
Green — Fig. 259-G



360° LENSES

No.	A Inches	B Inches
1	6¾	5½
2	7½	7¾

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



225° LENSES

No.	A Inches	B Inches
1	6¾	4½
2	7¾	6¾

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

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



Fig. 303

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

Overall Height Inches	Overall Width Inches	Weight Ounces
3 3/4	3 3/4	8 1/2



Figs. 347 & 347-A*

MEDIUM PREFOCUS SOCKETS
Phenolic - 250 Volts - 1000 Watts

Height Inches	Overall Diameter Inches	Standard Package	Weight Ounces
1 1/4	1 1/2	5	4

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



360° LENSES

Height Overall Inches	Diam. Overall Inches
5 3/4	5 1/2

Fig. 249 — Green, Gray, Red, Yellow & Clear



135° LENSES

No.	A Inches	B Inches
1	6 3/4	5 1/2
2	7 1/2	7 1/4

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

SPARE PARTS FOR SECTION CD

Page No.	For Fig. No.	Description	Fig. No.
CD-6	517	Switches	514
	517	Fuse Holders	516
CD-7	511-512	Switches	514
	511-512	Fuse Holders	516
CD-12	217-450-1295	Socket with Knob	223
	1303	Switch	701
CD-13	300-308	Bulbs	337 Specify Size
	300-555	Globes	257 Specify Size
	300-308	Switches	701
	555-753	Switches	745
CD-14	318A	Bulbs	337 No. 12 & No. 23
	318A	Switches	318A-99C
	318A	Globes	318A-99D
	318A	Socket	24 No. 1
	1266	Switch	745
CD-15	280-1040	Sealed Beam Unit	432 Specify Voltage
	265	Bulb	70 No. 0
	265	Lens with Gasket	284
CD-16	312	Chimney	94
	168-141 No. 1	Chimney	230
	141 No. 2	Chimney	267
	168-141 No. 1	Wicks	302 No. 00
	312-141 No. 2	Wicks	302 No. 2

SPARE PARTS FOR SECTION E

Page No. For Fig. No. Description Fig. No.
 E-3 & 4 Sealed Beam Units — For Perko Figs. 300, 400, and 500 Series Searchlights.

SEALED BEAM SPOTLIGHT UNITS—Fig. 433

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

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

No.	Diam. Lens Inches
1	4 1/2
2	6

*Rated voltage is listed at 28 volts.

E-3 Fig. 440
 E-5-9

Cigar Lighter Plug
 Bulbs

Fig. 456
 Refer to Page E-10

FIG.	SIZE	FRONT DOOR WITH GLASS	PINION GEAR	REFLECTOR
883	1	891#1	—	890#1
	2	891#2	—	890#2
	3	891#3	—	890#3
884	1	891#1	—	890#1
	2	891#2	—	890#2
	3	891#3	—	890#3
885	1	891#1	905	890#1
	2	891#2	905	890#2
	3	891#3	905	890#3
886	1	891#1	905	890#1
	2	891#2	905	890#2
	3	891#3	905	890#3
887	1	891#1	905	890#1
	2	891#2	905	890#2
	3	891#3	905	890#3
1901	4	1936	905	890#4
1902	4	1936	905	890#4
1903	4	1936	905	890#4
1904	4	1936	905	890#4

When ordering specify spare part no., size and finish

SPARE PARTS FOR SECTION F-G

Page No.	For Fig. No.	Description	Fig. No.
FG-3	510	Deck Plate	526 Specify Size & Fin.
FG-10	420-150-158-179	Bell Parts	See below

SPECIFY 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"	465 NO. 4
420-8"	171	420-8"	127	420-8"	144	420-8"	123	420-8"	465 NO. 8
150-8"	150-99A-10"	150-10"	150-99B-10"	150-10"	150-99C	150-10"	150-99D	150-10"	465 NO. 9
150-12"	150-99A-12"	150-12"	150-99B-12"	*150-12"	172	*150-12"	172	150-12"	465 NO. 9
*158-12"	158-99A-12"	*158-12"	158-99A-12"	*158-12"	172	*158-12"	172	158-12"	465 NO. 9
*158-14"	158-99A-14"	*158-14"	158-99A-14"	*158-14"	172	*158-14"	172	158-14"	465 NO. 9
*179	179-99A	*179	179-99A	179	144	179	179-99B	179	465 NO. 8
*Includes Wall Bracket		*Includes Arm		*Includes Eye Bolt		*Includes Clapper			

FG-11	159	Arm	159-99A-Specify Finish
	159	6" Clapper	159-99B
	159	8" Clapper	153
	159	Eye Bolt	113
	159	Wall Plate	166-Specify Finish
	159	Acorn Nut	465 #4-Specify Finish

SPARE PARTS FOR SECTION H

Page No.	For Fig. No.	Description	Fig. No.
H-4	528	Caps	528-99A Specify Size & Finish
	524	Caps	524-99A
	528	O'Rings	528-99B
	524	O'Rings	524-99B
H-5	529	Cap With O'Ring	529-99A
	525	Cap With O'Ring	525-99A
	1269	Cap With O'Ring	*1269-99A
	1270-Gas	Cap With O'Ring	1270 G00 99A
	1270-Diesel	Cap With O'Ring	1270 D00 99A
	1270-Water	Cap With O'Ring	1270 W00 99A
H-6	Entire Page	Non-Locking Cap	126
H-10	299	Elements	324 Specify Size
	299	O'Rings	327 Specify Size

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	

H-13	65-322-348-361	Flange Nuts	75-Specify Size
H-14	350	Flange Nuts	75-Specify Size
H-16	714-737	Plugs	742-Specify Size

SPARE PARTS FOR SECTION I

Page No.	For Fig. No.	Description	Fig. No.
I-10	933	Shank Support Fluke Support Crown Support	933-99A Specify Finish 933-99B Specify Finish 933-99C Specify Finish
I-11	1043-1225-1325-1525	Step Pads	1050 Specify Color & Size
I-14	1185-1186-1187	Plastic Bearings	1155

SPARE PARTS FOR SECTION J

Page No.	For Fig. No.	Description	Fig. No.
J-2	928 930 960 Entire Page	Strike Plate Strike Plate Strike Plate Bevel	928-99A 930-99A 960-99A 920
J-4	956 1199-1287	Keeper Keeper	959 Specify Finish 1261
J-7	574	Keeper	959 Chrome
J-16	938	Cam Bar	938-99A
J-17	998 1198 1194	Keeper Keeper Keeper	959 Chrome 1261 1194-99A

SPARE PARTS FOR SECTION K

Page No.	For Fig. No.	Description	Fig. No.
K-6	444 444-451 451 1314 1314	Plate Tube Plate Plate Tube	478 & Size 479 & Size 474 & Size 1320 1321
K-7	449 1104 475 475 475 449-475-1118	Bracket Bracket Tube with Quadrant Adjusting Saddle for Quadrant Eye Bolt with Washer Vinyl Liner	449-99B 1107 475-99A Specify Finish 475-99B Specify Finish 475-99C Specify Finish 483 No. 1
K-8	1100 404 448-452-1205 404-1100	Brackets Brackets Vinyl Liner Vinyl Liner	1107 404-99A 482 Specify Size 483 Specify Size

NUMERICAL INDEX

Fig. No.	Page No.	Fig. No.	Page No.	Fig. No.	Page No.	Fig. No.	Page No.
02	A-19	130	S-1 & 2	248	S-1, 2 & L-4	325	I-15
06	A-19	134	S-2 & 4	249	S-2 & 4	327	S-6
4	A-17 & B-7	135	S-1 & 2	250	S-2	329	A-17
5	A-17 & B-7	136	S-1	252	H-8	330	FG-5 & L-9
7	A-17 & B-7	138	S-2	253	H-8	334	FG-6
17	A-19	139	S-1	254	H-9	335	FG-6
18	A-19	140	CD-15 & L-4	255	CD-4 & L-7	336	FG-6
19	A-19	141	CD-16	256	S-2, 3 & 4	337	CD-10, S-1, 2 & 5
20	A-19	142	H-15	257	S-5	339	FG-3 & L-9
21	B-11	144	S-6	258	J-15	340	CD-10 & S-2
23	B-11	148	I-12	259	S-1-4	342	S-3 & 4
24	S-1, 2 & 5	149	J-15	260	S-1	344	I-12
29	CD-12	150	FG-10 & S-6	261	S-2-4	345	H-9
34	CD-12	152	J-15	263	H-16	346	S-3
36	CD-12	153	S-6	265	CD-15 & L-3	347	S-3
52	S-1 & 2	155	J-9	266	H-16	348	H-13
56	CD-10	157	FG-8	267	S-4 & 5	349	FG-11 & L-12
60	J-18	158	FG-10 & S-6	269	S-2 & 4	350	H-14
62	J-18	159	FG-11, L-12 & S-6	271	J-14 & L-21	351	I-12
63	H-12	160	I-6	275	CD-5	352	H-7
65	H-13	161	I-6	276	S-4	353	H-7
66	H-14	162	FG-11 & L-12	278	S-1 & 2	358	I-23
70	CD-10, L-5, S-1, 2 & 5	163	CD-9	280	CD-15 & L-27	360	J-8
71	CD-10, L-5, S-1 & 2	164	CD-9	281	S-1	361	H-13
74	S-1	165	CD-9	282	S-4	362	A-12
75	S-6	166	S-6	283	S-1	363	H-16
76	H-13	167	FG-11 & L-12	284	S-1 & 5	366	CD-4 & L-6
82	J-8	168	CD-16	285	H-15	371	A-12
86	H-14	171	S-6	286	S-2	373	S-3
91	A-16	172	S-6	287	S-2	374	S-2-4
94	S-5	179	FG-10 & S-6	294	S-4	380	I-16
97	A-19	180	I-13	296	S-1	380A	I-16
98	A-16	185	I-13	299	H-10	381	CD-4 & L-6
99	A-16	196	CD-9	300	CD-13 & L-4	387	CD-5
102	A-19	197	J-12	301	H-14	395	J-19 & L-25
105	CD-4 & L-6	201	S-1 & 2	302	S-2, 4 & 5	396	I-21
106	S-2 & 4	211	J-15	303	S-3 & 4	400	K-4
107	S-1 & 2	212	J-15	304	CD-5	403	B-6
109	A-16	217	CD-12 & L-4	305	E-3	404	K-8 & S-7
110	A-16	218	I-13	306	CD-4	407	H-8
111	A-16	219	I-13	307	I-20	411	I-20
112	A-12 & B-7	220	I-13	308	CD-13	412	B-6
113	S-6	221	I-13	309	A-12 & B-7	413	I-16
116	J-18	223	S-5	310	CD-5 & L-6	413A	I-16
117	J-18	230	S-5	311	H-14	414	H-16 & L-5
118	J-18	233	I-14	312	CD-16	417	I-10
119	I-6 & L-16	234	A-9	313	E-3	420	FG-10 & S-6
120	J-12	235	A-9	314	I-21	423	I-10
121	CD-9	236	I-9	315	FG-3 & L-9	424	CD-9
122	J-12	237	I-9 & L-11	316	CD-5 & L-6	425	K-4
123	S-6	241	H-9	317	FG-8	426	K-4
124	H-16	243	J-15	318A	CD-14, L-4 & S-5	429	I-10
126	S-6	242	S-4	320	H-2	430	I-10
127	S-6	244	H-9	321	CD-4	431	I-8
128	CD-16	246	S-2	322	H-13	432	S-5
129	B-11	247	H-9	324	S-6	433	S-5

Fig. No.	Page No.	Fig. No.	Page No.	Fig. No.	Page No.	Fig. No.	Page No.
434	I-10	536	E-4	745	CD-11 & S-5	847	E-10
435	S-5	537	H-5	750	I-8	848	E-10
440	E-3	538	E-4	751	CD-8	851	E-3 & 6
441	FG-6	544	I-3 & L-14	752	I-7	852	E-3 & 7
442	FG-8	545	I-3 & L-14	753	CD-13	859	E-10
444	K-6 & L-28	546	I-6 & L-16	754	I-23	860	E-10
445	K-5	550	FG-5	757	I-8 & L-10	863	I-9 & L-15
448	K-8 & L-29	554	J-6	759	I-18	865	H-8
449	K-7 & S-7	555	CD-13	762	J-10	866	E-12
450	CD-12	559	J-6 & L-22	769	J-9 & L-19	869	J-18
451	K-6 & L-28	560	J-6	770	J-10	870	FG-3
452	K-8 & L-29	562	I-23	773	J-15	871	E-12
454	B-6	565	I-22 & L-17	775	I-24 & L-13	872	E-12
455	A-12	566	I-2 & L-14	776	J-7 & L-20	873	E-12
456	S-5	567	J-2	778	FG-2	874	E-12
460	K-2	572	I-2	786	CD-6 & L-7	875	E-12
461	FG-6	574	J-18	787	FG-2	876	E-12
465	S-6	575	J-7 & L-20	789	FG-2	878	E-12
466	I-21	578	J-19 & L-25	791	FG-2	879	E-12
468	K-2	608	I-8	795	FG-11	880	E-12
469	K-2 & L-12	610	J-17 & L-23	796	FG-7	881	I-23
470	K-5	612	I-19	797	J-9	883	E-5
474	S-7	613	I-19	801	E-10	884	E-6
475	K-7 & S-7	614	I-20	803	FG-7	885	E-7
476	K-2	626	CD-8	805	H-12	886	E-8
478	S-7	627	CD-8	806	E-10	887	E-8
479	S-7	629	CD-8	807	E-10	890	S-5
482	S-7	630	FG-9	808	J-13 & L-21	891	S-5
483	S-7	634	I-22 & L-17	809	E-10	893	E-12
490	CD-7	647	CD-8	810	E-10	894	E-12
492	I-15 & L-25	654	FG-3	811	E-10	895	E-12
493	H-11 & S-6	659	I-19 & L-23	812	FG-7	896	J-18
495	I-13	669	I-12	813	FG-7	897	E-12
496	I-13	671	H-3	814	FG-7	898	J-18
497	I-16	672	H-3	815	H-2	899	E-12
498	I-16	673	H-3	816	E-10	901	J-18
499	H-15 & L-5	679	H-7	817	E-10	903	A-13
500	H-11 & S-6	680	I-21	819	H-2	904	A-4
501	I-12	688	CD-11	820	E-10	905	S-5
502	I-15 & L-25	692	H-7	821	H-12	907	J-18
503	FG-4	693	FG-9	823	H-12	915	A-6
505	FG-4	694	CD-8	825	H-12	916	I-16
506	FG-4 & L-9	697	J-9	826	H-7 & L-8	918	J-2 & L-27
509	FG-4	701	S-5	828	I-14	919	J-2 & L-27
510	FG-3	702	CD-11	829	I-14	920	S-7
511	CD-7	703	CD-11 & L-5	830	I-14	921	J-3 & L-22
512	CD-7	704	H-15	831	I-14	922	J-3 & L-22
514	S-5	705	H-15	832	I-14	923	I-20
515	FG-4	706	FG-9	833	I-14	924	J-14 & L-21
516	S-5	708	FG-9	834	H-12	925	J-16
517	CD-6 & L-27	709	H-15	835	H-12	926	J-16
519	CD-6	714	H-16	836	E-10	927	J-2
524	H-4 & S-6	719	J-5	837	E-10	928	J-2, L-27 & S-7
525	H-5 & S-6	720	CD-8 & L-7	838	FG-8	929	J-14
526	H-7 & S-6	721	H-15	839	E-10	930	J-2, L-27 & S-7
528	H-4 & S-6	722	H-15	840	E-10	931	J-3
529	H-5 & S-6	732	I-23 & L-17	841	J-7 & L-20	932	J-3
530	I-3	734	H-2	842	I-19	933	I-24, L-10 & S-7
533	I-15 & L-24	737	H-16	844	E-10	934	J-11
534	E-4	741	I-8	845	E-10	935	J-11
535	E-4	742	S-6	846	E-10	936	I-17

Fig. No.	Page No.	Fig. No.	Page No.	Fig. No.	Page No.	Fig. No.	Page No.
937	J-11 & L-23	1058	J-14	1179	J-8	1262	I-14 & L-11
938	J-16 & S-7	1065	J-18	1180	J-8	1263	L-10
939	A-7 & S-1	1087	CD-14	1181	A-15	1264	A-6 & S-1
941	J-14	1088	H-2	1182	A-15	1265	A-13 & S-2
942	J-14	1090	CD-14	1183	A-15	1266	CD-14
945	A-7, L-3 & S-1	1098	K-3	1184	A-15	1267	I-14 & L-11
946	A-7, L-3 & S-1	1100	K-8 & L-29	1185	I-14	1268	L-10
947	J-5 & L-18	1101	J-5 & L-19	1186	I-14	1269	H-5 & S-6
948	J-3	1102	J-4 & L-19	1187	I-14	1270	H-5 & S-6
949	J-12	1103	J-7	1188	I-2 & L-14	1271	FG-5
951	J-13	1104	K-7 & L-29	1189	CD-9	1279	J-3
952	J-12	1105	S-3 & 4	1190	CD-9 & L-7	1280	J-3
954	J-11	1106	J-17	1191	CD-9 & L-7	1286	J-7
955	A-6 & L-2	1107	S-7	1192	A-14	1287	J-4 & L-18
956	J-4	1108	J-10	1194	J-17, L-18 & S-7	1288	J-7
957	J-14	1110	J-16	1195	A-15	1289	I-19 & L-23
958	J-16	1111	B-9	1196	A-15	1290	J-8
959	S-7	1112	J-10 & L-19	1197	A-15	1291	J-8
960	J-2 & S-7	1113	J-10 & L-19	1198	J-17 & L-18	1293	J-12 & L-21
963	A-6	1114	K-3	1199	J-4 & L-18	1295	CD-12
964	A-13 & L-3	1115	K-3	1201	A-5 & S-1	1297	I-16
965	A-7 & L-3	1116	J-9	1205	K-8 & L-29	1298	I-16
966	E-8	1118	K-7 & L-28	1209	A-10 & L-31	1299	I-18 & L-24
967	J-9	1120	S-2	1210	I-3	1301	A-12
969	E-8	1121	S-2	1213	J-13	1302	I-13
970	A-5	1122	S-2	1214	J-13	1303	CD-12
972	A-4 & L-2	1123	A-14	1216	J-5 & L-23	1305	I-4 & L-15
973	I-17	1124	A-14	1217	J-5	1306	I-4 & L-15
975	J-17	1125	A-14	1218	A-4 & L-2	1307	I-7 & L-16
977	I-17	1126	A-8 & L-31	1219	I-8	1308	I-7 & L-16
978	J-5	1127	A-18 & B-8	1220	J-7 & L-20	1309	I-18
979	J-17	1128	A-18 & B-8	1221	J-6 & L-21	1310	A-3 & L-2
981	I-17	1129	A-18 & B-8	1222	I-24	1311	A-8 & L-30
982	B-11	1130	A-18 & B-8	1223	I-6 & L-16	1312	FG-3 & L-9
985	B-11	1133	S-3 & 4	1224	I-15 & L-8	1313	H-6 & L-8
987	J-13	1134	A-12	1225	I-11 & L-13	1314	K-6 & L-28
988	J-13	1137	A-12	1226	I-23 & L-17	1315	I-4
989	I-17	1143	S-3 & 4	1227	I-14 & L-11	1316	I-4
990	I-17	1144	S-2	1228	L-10	1317	I-7
992	I-17	1148	A-8	1229	I-24	1318	I-7
993	I-17	1150	B-5	1230	I-6	1320	K-6 & S-7
994	J-19	1151	B-5	1231	I-24 & L-13	1321	K-6 & S-7
996	J-19	1152	B-5	1232	J-6 & L-20	1324	H-6 & L-8
997	J-19	1153	B-5	1234	I-24	1325	I-11 & L-13
998	J-17	1154	B-5	1235	I-9 & L-11	1328	H-6
999	J-13	1155	S-7	1236	I-23	1329	H-6
1016	J-16	1161	A-3	1237	I-8	1330	A-10 & L-30
1017	I-18 & L-24	1164	B-4	1238	FG-5	1331	A-13
1020	I-10	1165	B-4 & 10	1242	I-23 & L-17	1332	A-7
1021	J-6 & L-22	1166	B-4 & 10	1243	I-22	1336	I-24 & L-13
1023	S-1	1167	B-4	1245	H-5	1337	I-16
1040	CD-15	1168	B-4 & 10	1246	I-18 & L-24	1339	I-16
1041	I-19	1169	B-3	1248	H-5	1346	I-24
1042	I-19	1170	B-3	1249	J-19 & L-24	1347	I-16
1043	I-11	1171	B-9	1250	I-7	1397	H-6
1044	CD-15	1172	B-3	1251	I-2	1398	H-6
1050	S-7	1173	B-3 & 9	1252	I-2 & L-14	1399	H-6 & L-8
1051	J-4	1174	B-3 & 9	1254	CD-15	1400	A-11 & L-31
1053	J-5	1175	I-20	1255	I-22	1405	I-5
1055	H-3	1177	J-18	1256	I-22	1406	I-5
1056	J-6 & L-22	1178	A-13	1261	I-22 & S-7	1410	A-3

<u>Fig. No.</u>	<u>Page No.</u>
1411	A-9 & L-30
1413	H-6
1415	I-5
1416	I-5
1430	A-11 & L-30
1499	H-6
1505	I-5 & L-15
1506	I-5 & L-15
1510	A-3 & L-2
1511	A-9 & L-30

<u>Fig. No.</u>	<u>Page No.</u>
1513	H-6
1515	I-5
1516	I-5
1525	I-11 & L-13
1526	I-11 & L-13
1530	A-11 & L-30
1610	A-4
1611	A-9 & L-30
1612	A-5
1630	A-10 & L-30

<u>Fig. No.</u>	<u>Page No.</u>
1631	A-11
1901	E-9
1902	E-9
1903	E-9
1904	E-9
1921	E-9
1922	E-9
1923	E-9
1930	E-12
1931	E-12

<u>Fig. No.</u>	<u>Page No.</u>
1936	S-5
6400	H-3
8501	CD-2 & L-26
8502	CD-2 & L-26
8503	CD-2 & L-26
8504	CD-2 & L-26
9601	CD-3 & L-26
9602	CD-3 & L-26
9603	CD-3 & L-26
9604	CD-3 & L-26

ALPHABETICAL INDEX

A PAGE

Adapters —
 For Exhaust Duct FG-2
 Pipe to Hose H-12

Adjusters —
 Hatch J-9
 Windshield J-8, 9

All-Round Lights A-8 to 12
 B-3 to 9

Anchor Chocks I-24

Anchor Lights A-8 to 12, 14
 15, B-3 to 9

Anchor Shackles I-21

Anti-Rattler J-10

Ash Tray FG-11

Assemblies, Control . E-3, 6 to 9

Axe Brackets I-15

B

Bass Boat Lights A-5

Bells —
 Fog FG-10, 11
 Smoke CD-16

Berth Lights CD-12

Bits I-8

Blowers FG-2

Boarding Steps I-12

Bolts —
 Barrel J-5
 Cupboard J-5
 Ship J-5

Books, Log FG-9

Bow —
 & Anchor Lights A-14, 15
 Combination Lights.. A-3, 4, 5
 Eyes I-9

Boxes, Stuffing H-2, 3

Brackets —
 Axe I-15
 Table I-12

Breakdown Lights B-3 to 9

Bulbs, Electric ... CD-10 & E-10
 B-5, 7, 8

Butt Hinges J-12

Buttons —
 Door J-5
 Horn Push CD-4, 5, 11

C

Cabin —
 Door Hooks J-4

C - Contd. PAGE

Lamps, Oil CD-16

Cabinet Hinges J-13, 14

Cable —
 Outlets CD-9
 Straps CD-9

Caps, Gas Tank H-5

Casing —
 Bowden H-7
 Clamps H-7

Catches, Door J-6

Caulking Irons I-20

Chain —
 Deck Pipe I-8
 Portlight FG-9

Chocks I-6, 7

Chocks, Anchor I-24

Choke Controls H-7

Clam Shell Ventilators FG-3

Clamps —
 Bowden Casing H-7
 Hatch Hold-Down J-10
 Hose H-3
 Spring I-15
 Tiller Rope I-23

Cleats I-2 to 5

Clips —
 Line Support CD-9
 Trolling K-2

Coat & Hat Hooks J-17

Cockpit Scupper H-15

Collars —
 Electrolysis H-8
 Rudder H-2

Combination —
 Bow & Anchor
 Lights A-14, 15
 Bow Lights A-3 to 5

Connections —
 Electric CD-8, 9
 Thru-Hull H-13, 14

Connectors, Electric ... CD-8, 9

Continuous Hinge J-15

Control —
 Assemblies E-3, 6 to 9
 Parts H-8

Convertible Boat Top —
 Fittings J-19

Course Protractors FG-9

Cowl Ventilators FG-3

Cupboard —
 Bolts J-5
 Catches J-4
 Turns J-5

Curtain-Fasteners J-18, 19

D PAGE

Deck —
 Lights FG-8
 Pipes, Rope & Chain I-8
 Plate Keys H-5, 7
 Plates H-4 to 7

Dividers FG-9

Dock Line Springs I-18

Dome Lights CD-13, 14

Door —
 Buttons J-5
 Catches J-6
 Fasteners J-10
 Hinges J-12, 13, 14
 Holders J-18
 Hooks J-4
 Stops J-18

Drain Plugs H-16

Drawer —
 Knobs J-16
 Pulls J-6, 7, 16

Dredging Light B-9

Duct, Adapters FG-2

Duct, Exhaust FG-2

E

Elbow Catches J-6

Electric —
 Bulbs B-5, 7, 8
 CD-10, E-10
 Cabin Fixtures .. CD-14 to 16
 Connections CD-8, 9
 Lamps B-5, 7, 8
 CD-10, E-10
 Sockets E-12, S-3, 4
 Switches ... CD-2 to 5, CD-11

Electrolysis
 Eliminators H-8, 9

Exhaust —
 Blowers FG-2
 Duct FG-2

Eyes —
 Bow I-9
 Flange I-23
 Halyard A-9
 Lashing I-10
 Lifting I-10
 Tramsom I-9

F

Fasteners —
 Curtain J-18, 19

Door J-10
 Hatch J-10
 Table Leg J-5
 Fender —
 Hooks I-18
 Locks I-18
 Fids, Hand I-20
 Filler, Tank H-4 to 6
 Filters, Fuel H-10
 Filters, Water H-11
 Fishing —
 Pole Holders K-7, 8
 Fittings —
 For Boat Top J-19
 For Rails I-16, 17
 Waste H-4, 5
 Fixtures —
 Bulkhead CD-12
 Electric Cabin ... CD-12 to 15
 Vapor Proof CD-14
 Flag Pole —
 Sockets I-13
 Flag Staffs I-13
 Flange Eyes I-23
 Flush —
 Hatch Lifting Handles J-7
 Hatch Lifting Rings J-7
 Pulls J-6, 7, 16
 Ring Catch J-4
 Fog Horns FG-11
 Frames for Windows FG-7
 Fuel —
 Filter H-10
 Separator H-10
 Strainer H-10
 Tank Filler H-4, 5, 6
 Fuse —
 Holder CD-6
 Panels CD-8

G

Gas —
 Strainers H-10
 Tank Caps H-5
 Tank Filler H-4 to 6
 Tank Vents FG-4
 Globes S-3
 Grab Rail Posts I-16
 Grab Rails I-16
 Guides, Tiller Rope I-22
 Guides, Pole Line K-2

H

Halyard Eyes A-9
 Hand Fids I-20
 Handles —
 Choke Control H-9

Hatch Lifting J-7
 Sliding Window J-11
 Utility I-24
 Hasps J-17
 Hatch —
 Adjusters J-9
 Fasteners J-9
 Hinges J-15
 Hold-Down Clamps J-10
 Lifting Handles J-7
 Lifting Rings J-6, 7
 Support Braces J-10
 Hawse Hole Plate I-7
 Hinges —
 Butt J-12
 Butterfly J-14
 Cabinet J-13, 14
 Continuous J-15
 Cuddy Door J-13, 14
 Flap J-14
 Hatch J-15
 Hatch Support J-10
 Non-Mortised J-14
 Piano J-15
 Pull Apart J-15
 Rail I-13
 Semi-Concealed J-14
 Shortside J-12, 13
 Strap J-12
 " T " J-12
 Holders —
 Boat Hook I-15
 Door J-18
 Fishing Pole K-7, 8
 Ring Buoy I-18
 Outrigger Pole K-4, 5, 6
 Hooks —
 Cabin Door J-4
 Coat & Hat J-17
 Fender I-18
 Lashing J-19
 " S " I-21
 Ski Towing I-9
 Snap I-19, 20
 Utility J-18
 Wardrobe J-18
 Horn Push Button .. CD-4, 5, 11
 Horns, Fog FG-11
 Horns, For Rowlocks I-14
 Hose Clamp H-3
 Hull Connections H-13, 14

I

Inlet —
 Fittings for Fresh
 Water H-15
 Strainers H-11, 12, 14
 Irons, Caulking I-20

Keys, Deck Plate H-5, 7
 Knobs, Drawer J-16

L

Ladder —
 Locks I-12
 Lamps —
 Cabin CD-12 to 16
 Wall CD-12, 16
 Lashing Eyes I-10
 Lashing Hooks J-19
 Latches —
 Doors J-2, 3
 Leathers, Oar I-14
 Lenses S-3, 4
 Lifting Eyes I-10
 Lights —
 All-Round A-8 to 12, B-11
 Anchor A-8 to 12, 14, 15,
 B-3 to 9
 Bass Boat A-5
 Berth CD-12
 Bow A-3 to 5, 13 to 19
 Breakdown . A-18, B-3 to 8, 11
 Combination A-3 to 5,
 Deck FG-8
 Dredging Light B-9
 Dome CD-13, 14
 For Windshield
 Mounting A-12, 14, 15
 Mast A-12, 15
 Masthead A-13 to 19,
 B-3 to 5, 7 to 11
 Meal & Absent A-17
 Not under-Command B-3 to 9
 Pole A-8 to 12
 Range B-3 to 5, 7 to 9
 Searchlights E-3 to 9
 Side A-6, 16 to 19,
 B-3 to 5, 7, 8, 11
 Signal A-12, 18, B-3 to 5,
 7 to 9
 Spreader CD-15
 Stern A-7 to 12, 16 to 19,
 B-3 to 5, 7-11
 Towing A-16 to 19,
 B-3 to 5, 7 to 9
 Utility CD-15
 Vapor-Proof CD-14
 Line Support Clips CD-9
 Locks —
 Doors J-2, 3
 Fender I-18
 Ladder I-12
 Window J-11
 Log Books FG-9
 Logs, Shaft H-3
 Louver Ventilators FG-6

Mast Lights A-12, 15
 Masthead Lights A-13 to 19
 B-3 to 5, 7 to 11
 Meal and Absent Light A-17
 Mooring Bitts I-8

N

Name Plates, Switch ... CD-6, 7

O

Oar —
 Leathers and Buttons I-14
 Locks I-14
 Outboard Motor Transom
 Plates I-15
 Outlets —
 Cable CD-9
 Outrigger —
 Holders K-4, 5, 6
 Kit K-2
 Pole Line Guides K-2
 Poles K-2, 3
 Spreaders K-3
 Trolling Pin K-2

P

Paint Scraper I-20
 Palms, Sewing I-20
 Panels —
 Fuse CD-8
 Switch CD-6, 7
 Parallel Rules FG-9
 Piano Hinge J-15
 Pins — Trolling K-2
 Pipes, Rope Deck I-8
 Plates —
 Deck H-4, 5, 7
 Hawse Hole I-7
 Step I-11
 Transom I-15
 Plugs, Drain H-16
 Pole Holders —
 Outrigger K-4, 5, 6
 Pole Lights A-8 to 12
 Pole Sockets I-13
 Poles —
 Flag I-13
 Outrigger K-2, 3
 Portlights FG-7, 8
 Posts —
 Grab Rail I-16
 Stanchion I-16
 Protractors, Course FG-9
 Pulleys I-22

Pulls —
 Drawer J-6, 7, 16
 Flush J-6, 7, 16
 Pump Strainers H-15

R

Rail —
 Fittings I-16, 17
 Hinges and Latches I-13
 Rails, Grab I-17
 Range Lights A-13 to 19,
 B-3 to 5, 7, 8, 11
 Rim Locks J-2
 Ring —
 Buoy Holders I-18
 Catches, Flush J-6, 7
 On Plate I-10
 Pulls J-6, 7
 With Straps I-10
 Rings —
 Brass I-10
 Hatch Lifting J-7
 Rope —
 Clamps I-23
 Deck Pipe I-8
 Guides I-22
 Pulleys I-22
 Thimbles I-21
 Rope Tighteners I-23
 Rowlocks I-14
 Rudder —
 Collars H-2
 Stuffing Boxes H-2
 Rules, Parallel FG-9

S

“S” Hooks I-21
 Safety Cords H-5
 Sash —
 Anti-Rattler J-11
 Scrapers I-20
 Screens, Portlight FG-8
 Scupper, Cockpit H-15
 Seacocks H-12
 Searchlight Bulbs E-10
 Searchlight Controls E-3, 6-9
 Searchlights E-3-9
 Separator, Fuel H-10
 Shackles I-21
 Shades for Cabin
 Fixtures CD-12
 Shaft Logs H-3
 Shields —
 For Fixtures CD-12
 For Pole or Mast Lights A-14
 Side Lights .. A-3 to 6, 16 to 19
 B-3 to 5, 7, 8, 11

Signal Lights, Portable
 or Fixed ... A-12, B-3 to 8, 11
 Ski Towing Hooks I-9
 Skin Packed Products... Sec. L
 Smoke Bell & Arm CD-16
 Snap Hooks I-19, 20

Sockets —

Boat Cover J-19
 Electric CD-7, E-12, S-3, 4
 Fishing Rod K-7 to 9
 Flag Pole I-13
 Rowlocks I-14
 Staff I-13

Spare Parts Section S
 Spotlights E-3, 4
 Spreaders K-3
 Spreader Lights CD-15
 Spring Clamps I-15
 Springs for Dockline I-18
 Spring, Tiller Rope I-23
 Staffs, Flag I-13
 Steerer Parts H-8

Steps —

Boarding I-12
 Folding I-12
 Step Plates I-11

Stern —

Lights A-7 to 11, 16 to 19,
 B-3 to 5, 7 to 9
 Pole Lights A-8 to 12

Stop —

Door J-18
 Window J-11

Strainers —

Fuel H-10
 Gasoline H-10
 Hull H-12, 13, 14
 Inlet H-12, 13, 14
 Pump H-15
 Water H-11

Strap Hinges J-12

Straps —

Cable CD-9
 Eye I-23
 Struts H-3
 Stuffing Boxes H-2, 3

Switch —

Name Plate CD-6, 7
 Panels CD-6, 7
 Switches —
 Battery CD-2, 3
 Electric CD-2 to 7
 Master CD-3
 Panels CD-6, 7

Swivel —

Eye Pulleys I-22
 Eye Snaps I-19

T	PAGE
"T" Hinges.....	J-12
Table Brackets	I-12
Table Leg Fasteners.....	J-5
Terminal Blocks.....	CD-8
Thimbles, Rope	I-21
Thru Hull Connections	H-13, 14
Tiller —	
Rope Clamps	I-23
Rope Guides	I-22
Rope Pulleys.....	I-22
Rope Tighteners	I-23
Towing Hooks	I-9
Towing Lights	A-13 to 19
	B-3 to 5, 7 to 9
Transom —	
Eyes.....	I-9
Plates.....	I-15
Stern Light.....	A-7
Ventilators.....	FG 5, 6
Tray, Ash.....	FG-11
Trim, Hatch.....	J-15
Trolling Pin.....	K-2

T - Contd.	PAGE
Tubing, Grab Rail.....	I-16
Turnbuckles.....	I-21
Tri-Color Light	A-5
Turns, Cupboard	J-5
U	
Utility Hooks	J-19
Utility Lights	CD-15
V	
Vapor Proof Fixtures	CD-14
Ventilator —	
Cowl.....	FG-3
Gas Tank	FG-4
Locker	FG-5
Louver	FG-6
Shell Type.....	FG-3
Transom.....	FG-5, 6

W	PAGE
Wardrobe Hooks.....	J-17
Waste Fitting	H-4, 5
Water Strainers.....	H-11
Whistles.....	FG-11
Window —	
Handle, Sliding.....	J-11
Lock	J-11
Stop	J-11
Windows.....	FG-7
Windshield —	
Adjusters.....	J-8, 9
Keeper & Plate.....	J-9
Pole Light for....	A-12, 14, 15
Wipers.....	I-15
Wire —	
Bowden	H-7
Rope Thimbles.....	I-21
Z	
Zincs.....	H-8, 9

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