

*Thank You!*

When writing for additional  
information or when ordering  
from sources of supply listed  
in this book, please mention

*RADIO'S MASTER*

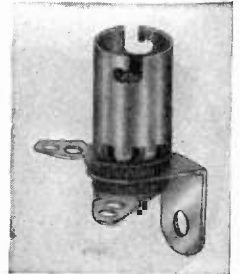
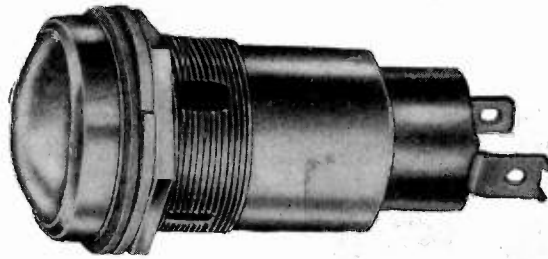
# The DIAL LIGHT COMPANY of AMERICA

Foremost Manufacturer of Pilot Lights



**Makes everything**

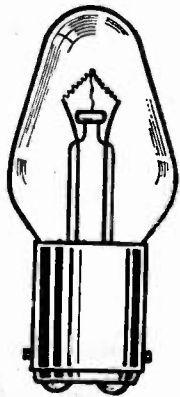
**FROM A SMALL SOCKET**



**TO A LARGE ASSEMBLY**

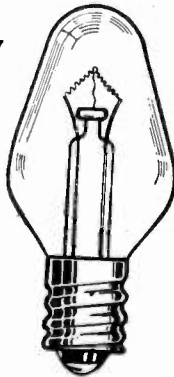
**For all of these lamps**

## INCANDESCENTS

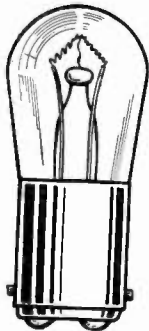


C-7

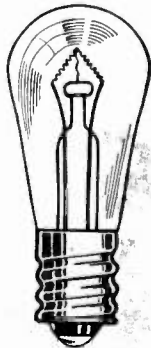
Double contact bayonet



Candelabra Screw



S-6



G-6

Double contact bayonet

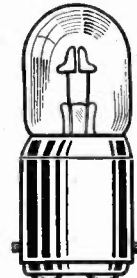
## NEON GLOW

110 and 220 volts

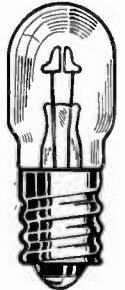
For NE-51 there are patented assemblies with built-in resistors.



NE-51

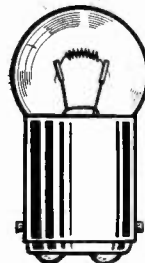


NE-48



NE-45

## MINIATURE for low voltages



G-6

Double contact bayonet



T-3 1/4

Bayonet (miniature)



Screw

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TYPICAL



ASSEMBLIES

SIX LENS TYPES

*Assemblies  
such as these  
mount in a  
1" clearance hole.*



FIG. 1  
CONVEX LENS  
GLASS

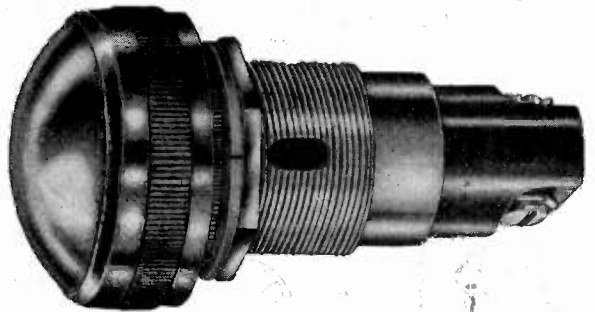


FIG. 2  
LARGE CONVEX LENS  
GLASS



FIG. 3  
TORPEDO LENS  
GLASS

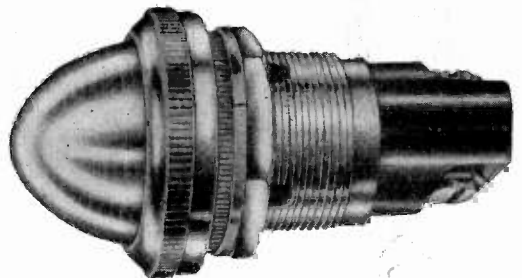


FIG. 4  
LARGE TORPEDO LENS  
GLASS

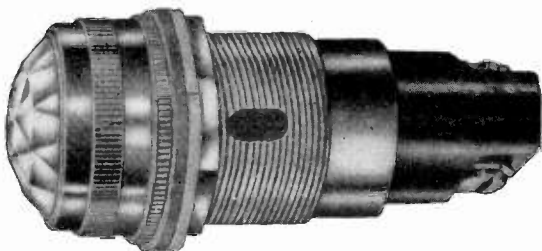


FIG. 5  
FACETED LENS  
GLASS

*These illustrations  
show the options  
in lens types.*

*All illustrations  
approximately  
actual size.*

*See following pages  
for catalog numbers  
of assemblies  
for all types  
of lamps.*

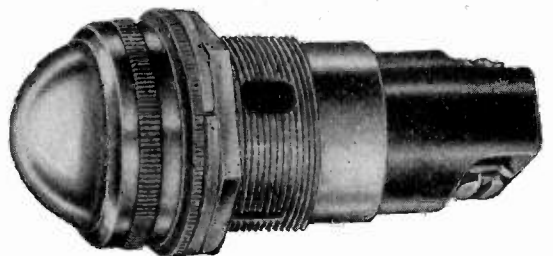


FIG. 6  
DOME LENS  
PLASTIC



All of these assemblies are listed by Underwriters' Laboratories, Inc.

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of Pilot Lights



**CAPS**

**SCREW, BAYONET  
or FRICTION**

The typical assemblies shown, mount  
in a 1" clearance hole.

The first three are complete with the  
three types of caps, all with faceted  
glass lenses.

**TERMINALS**

**BINDING SCREWS  
or  
SOLDERING LUGS**

Two choices are illustrated for  
lamps with candelabra screw base  
and three choices for lamps with  
double contact bayonet bases.

See the following pages for cata-  
logue numbers of assemblies for all  
types of lamps.

All illustrations are approximately  
actual size.



All of these assemblies  
are listed by Under-  
writers' Laboratories,  
Inc.

**FOR SCREW BASE LAMPS**



**SCREW  
FIG. 7**



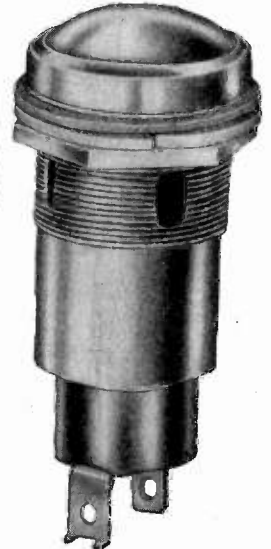
**BAYONET  
FIG. 8**



**FRICTION  
FIG. 9**



**BINDING SCREWS**



**SOLDERING LUGS**

**FOR BAYONET BASE LAMPS**



**FIG. 10**



**FIG. 11**



**FIG. 12**

**BINDING SCREWS (Two types)**

**SOLDERING  
LUGS**

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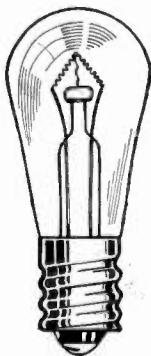
NEW YORK 3, N. Y.

## CATALOG NUMBERS FOR ENCLOSED ASSEMBLIES

Mount in one inch clearance hole  
**UNDERWRITERS' LISTED**

### For S-6 Lamp with Candelabra Screw Base

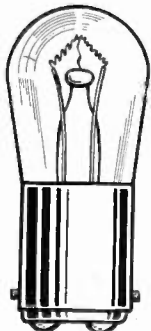
S-6  
CANDELABRA SCREW



- 51901-111 Screw cap, Convex lens, frosted back (Fig. 1) Screw terminals (Fig. 8)
- 61901-111 Screw cap, Large convex lens, frosted back (Fig. 2) Screw terminals (Fig. 8)
- 51901-431 Screw cap, Faceted lens (Fig. 5) Screw terminals (Fig. 8)
- 19901-531 Screw cap, Large torpedo lens (Fig. 4) Screw terminals (Fig. 8)
- 51101-111 Screw cap, Convex lens, frosted back (Fig. 1) Soldering lugs (Fig. 9)
- 41901-111 Bayonet cap (Fig. 8) Convex lens (Fig. 1) Screw terminals (Fig. 8)
- 31901-111 Friction cap (Fig. 9) Convex lens (Fig. 1) Screw terminals (Fig. 8)
- 47901 Light Shield cap (Fig. 13) Binding Screw terminals (Fig. 8)
- 71101-111 Mechanical dimmer (Fig. 14) Soldering terminals (Fig. 9)
- 78101-111 Polaroid dimmer (Fig. 14) Soldering terminals (Fig. 9)

### For S-6 Lamp with Double Contact Bayonet Base

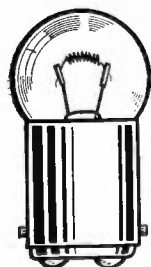
S-6  
DOUBLE CONTACT  
BAYONET



- 513202-111 Screw cap, Convex lens, frosted back (Fig. 1) Screw terminals (Fig. 10)
- 613202-111 Screw cap, Large convex lens, frosted back (Fig. 2) Screw terminals (Fig. 10)
- 513202-111 Screw cap, Faceted lens (Fig. 5) Screw terminals (Fig. 10)
- 803202-531 Screw cap, Torpedo lens (Fig. 3) Screw terminals (Fig. 10)
- 413202-111 Bayonet cap (Fig. 8) Convex lens, frosted back (Fig. 1) Screw terminals (Fig. 10)
- 313202-111 Friction cap (Fig. 9) Convex lens, frosted back (Fig. 1) Screw terminals (Fig. 10)

### For G-6 Lamp with Double Contact Bayonet Base

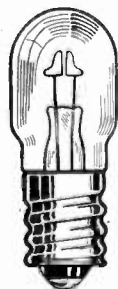
G-6  
DOUBLE CONTACT  
BAYONET



- 51704-111 Screw cap, Convex lens, frosted back (Fig. 1) Screw terminals (Fig. 11)
- 51704-431 Screw cap, Faceted lens (Fig. 5) Screw terminals (Fig. 11)
- 80704-531 Screw cap, Torpedo lens (Fig. 3) Screw terminals (Fig. 11)
- 80704-841 Screw cap, Dome plastic lens, matted back (Fig. 6) Screw terminals (Fig. 11)
- 51204-111 Screw cap, Convex lens, frosted back (Fig. 1) Soldering terminals (Fig. 12)
- 41204-111 Bayonet cap (Fig. 8) Convex lens (Fig. 1) Soldering terminals (Fig. 12)
- 31204-111 Friction cap (Fig. 9) Convex lens (Fig. 1) Soldering terminals (Fig. 12)

### For NE-45 Neon Glow Lamp, Candelabra Screw Base

NE-45  
NEON



- 51914-131 Screw cap, Convex lens (Fig. 1) Binding screw terminals (Fig. 8)
- 80914-841 Screw cap, Dome lens (Fig. 6) Binding screw terminals (Fig. 8)
- 41914-131 Bayonet cap (Fig. 8) Convex lens (Fig. 1) Binding screw terminals (Fig. 8)
- 31914-131 Friction cap (Fig. 9) Convex lens (Fig. 1) Binding screw terminals (Fig. 8)
- 51114-131 Screw cap, Convex lens (Fig. 1) Soldering terminals (Fig. 9)
- 80114-531 Screw cap, Torpedo lens (Fig. 3) Soldering terminals (Fig. 9)

**COLOR**—The final figure 1 in the above number indicates RED LENS COLOR. If other color is desired, change final figure to one from table below.

Green-2, Amber-3, Blue-4, White-5, Yellow-6, Clear-7

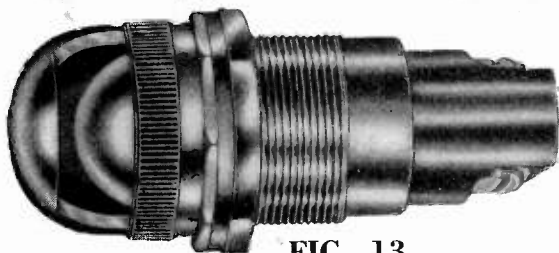


FIG. 13

Assembly with Light Shield for S-6 Lamp  
See Listing above

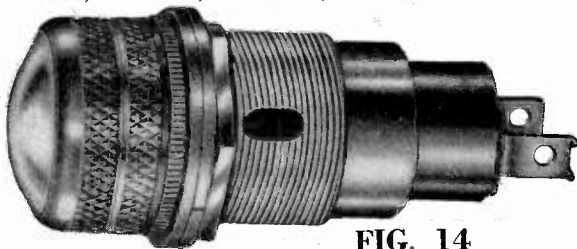


FIG. 14

Cap with Dimmer-Mechanical or Polaroid  
for S-6 or G-6 Lamps • See Listing above

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FIG. 15



FIG. 16

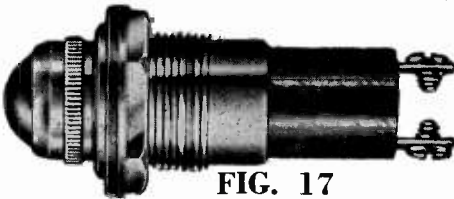


FIG. 17

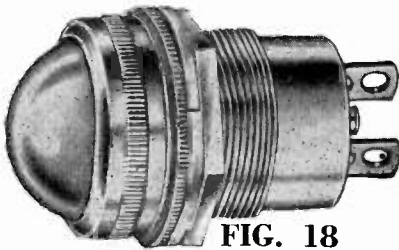


FIG. 18

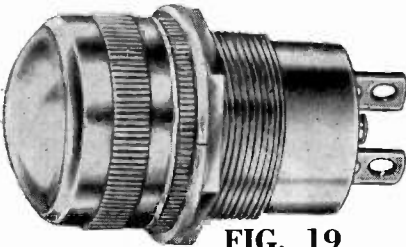


FIG. 19



FIG. 20



FIG. 21 (Dimmer)

## ENCLOSED ASSEMBLIES FOR T-3<sup>1</sup>/<sub>4</sub> MINIATURE LAMPS AND NE-51 NEON GLOW LAMP

Smaller assemblies as illustrated in Figs. 15, 16, 17, 20 and 21 mount in 11/16" clearance hole. Figs. 18 and 19 require 1" clearance hole.

### CATALOGUE NUMBERS

#### FOR T-3<sup>1</sup>/<sub>4</sub> Miniature Bayonet Base

#### Low voltage incandescent lamps

- 521310-991 Multivue cap, Screw terminals (Fig. 15)
- 52410-991 Multivue cap, Soldering terminals
- 91410-931 Long clear cap, Soldering terminals (Fig. 16)
- 811310-111 Screw-in cap, Convex lens, Screw terminals (Fig. 17)
- 80410-831 Screw cap, Dome plastic lens, Soldering terminals (Fig. 18)
- 801310-831 Screw cap, Dome plastic lens, Screw terminals
- 51410-111 Screw cap, Convex lens, Soldering terminals (Fig. 19)
- 511310-111 Screw cap, Convex lens, Screw terminals
- 21410 Light shield cap Screw terminals (Fig. 20)
- 93410-111 Polaroid dimmer cap, Convex lens, Soldering terminals (Fig. 21)

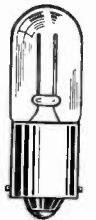
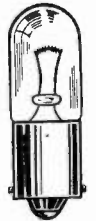
**COLOR**—The final figure 1 in the listed numbers indicates RED LENS COLOR. If other color is desired, change final figure to one from table below:

Green-2, Amber-3, Blue-4, White-5, Yellow-6, Clear-7

#### FOR NE-51 Neon Glow Lamp

**NOTE:** The assemblies listed below for the NE-51 Neon Glow Lamp contain built in resistors, a patented DIALCO feature. For choice of resistor value to suit conditions, specify circuit voltage and service, continuous or intermittent.

- 521308-991 Multivue cap, Screw terminals (Fig. 15)
- 52408-991 Multivue cap, Soldering terminals
- 91408-931 Long clear cap, Soldering terminals (Fig. 16)
- 811308-111 Screw-in cap, Convex lens, Screw terminals (Fig. 17)
- 80408-831 Screw cap, Dome plastic lens, Soldering terminals (Fig. 18)
- 801308-831 Screw cap, Dome plastic lens, Screw terminals
- 51408-111 Screw cap, Convex lens, Soldering terminals (Fig. 19)
- 511308-111 Screw cap, Convex lens, Screw terminals

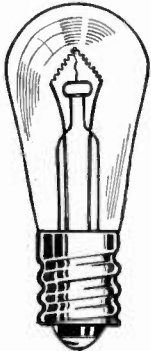


All of these assemblies are listed by Underwriters' Laboratories, Inc.

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## OPEN PILOT LIGHT ASSEMBLIES For Candelabra Screw Base Lamps



S-6

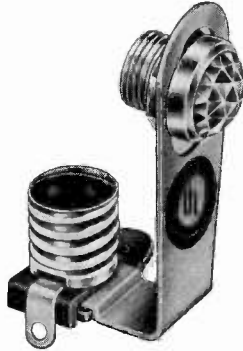


FIG. 22

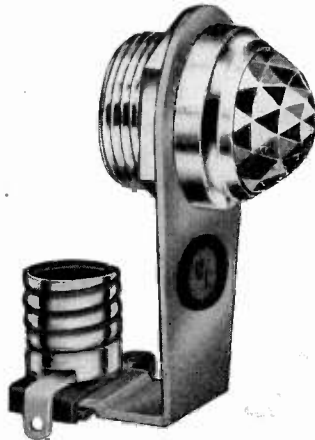


FIG. 23

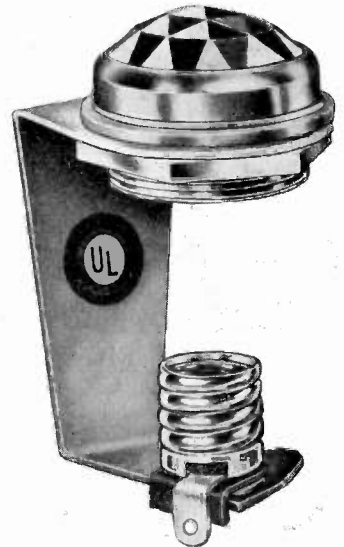


FIG. 24



For S-6 Incandescent Lamps, candelabra screw base

- No. 10-18-14-431 Faceted  $\frac{1}{2}$ " Lens (for  $\frac{7}{16}$ " mounting hole) (Fig. 22)
- No. 25-18-15-431 Faceted  $\frac{5}{8}$ " Lens (for  $\frac{13}{16}$ " mounting hole) (Fig. 23)
- No. 31-18-16-431 Faceted 1" Lens (for 1" mounting hole) (Fig. 24)

All of the above assemblies are listed by Underwriters' Laboratories, Inc.



G-6

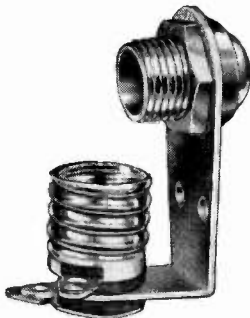
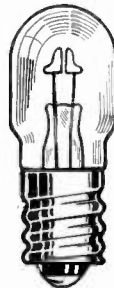


FIG. 25



NE-45

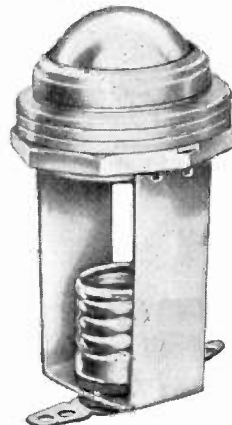


FIG. 26

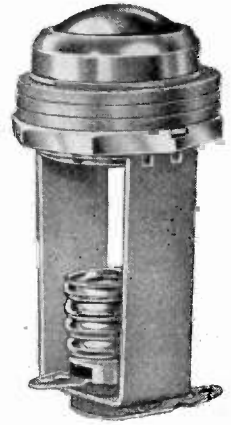


FIG. 27

Octagon lock nut and bracket on these two units welded into one-piece construction.

For G-6 Low voltage lamps,  
candelabra screw base

- No. 610-121 Convex  $\frac{1}{2}$ " lens  
(for  $\frac{7}{16}$  mounting hole)

**COLOR**—The final figure 1 in the listed numbers indicates RED LENS COLOR. If other color is desired, change final figure to one from table below:  
Green-2, Amber-3, Blue-4, White-5, Yellow-6, Clear-7

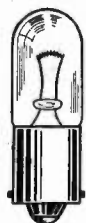
For NE-45 Neon Glow Lamps,  
candelabra screw base

- No. 67BN-831 Dome Plastic Lens ( $\frac{3}{4}$ " diam.)
- No. 66N-131 Convex Glass Lens ( $\frac{3}{4}$ " diam.)  
(Both mount in  $\frac{13}{16}$ " hole. Cap removable)

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## OPEN PILOT LIGHT ASSEMBLIES For T-3 $\frac{1}{4}$ Low voltage Incandescent Lamps



T-3 $\frac{1}{4}$

Miniature Bayonet Base

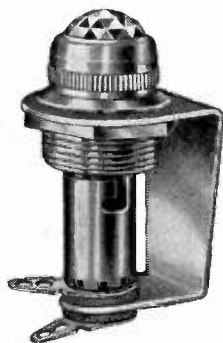
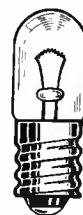


FIG. 29



T-3 $\frac{1}{4}$

Miniature Screw Base

Typical assembly for bayonet base lamp.  
Available also for screw type, see listing below.

### Assemblies for T-3 $\frac{1}{4}$ miniature bayonet base lamps

No. 810B-431	Faceted	$\frac{1}{2}$ " lens.	For $\frac{1}{16}$ " mounting hole.	Fig. 29
No. 755-621	Convex	$\frac{1}{32}$ " lens.	For $\frac{9}{32}$ " mounting hole.	Fig. 30
No. 710-121	Convex	$\frac{1}{2}$ " lens.	For $\frac{7}{16}$ " mounting hole.	Fig. 31
No. 857B-431	Faceted	$\frac{1}{2}$ " lens.	For $\frac{1}{16}$ " mounting hole.	Fig. 32
No. 67B-111	Convex	$\frac{3}{4}$ " lens.	For $\frac{13}{16}$ " mounting hole.	Fig. 33

### Assemblies for T-3 $\frac{1}{4}$ miniature screw base lamps

No. 810M-431	Faceted	$\frac{1}{2}$ " lens.	For $\frac{1}{16}$ " mounting hole.	Similar to Fig. 29
No. 555-621	Convex	$\frac{1}{32}$ " lens.	For $\frac{9}{32}$ " mounting hole.	Similar to Fig. 30
No. 510-121	Convex	$\frac{1}{2}$ " lens.	For $\frac{7}{16}$ " mounting hole.	Similar to Fig. 31
No. 855-431	Faceted	$\frac{1}{2}$ " lens.	For $\frac{1}{16}$ " mounting hole.	Similar to Fig. 32
No. 66M-111	Convex	$\frac{3}{4}$ " lens.	For $\frac{13}{16}$ " mounting hole.	Similar to Fig. 33

**COLOR**—The final figure 1 in the listed numbers indicates RED LENS COLOR. If other color is desired, change final figure to one from table below:

Green-2, Amber-3, Blue-4, White-5, Yellow-6, Clear-7

Octagon lock nut and bracket on these two units welded into one-piece construction.

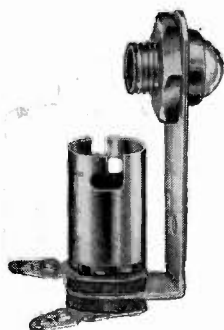


FIG. 30



FIG. 31



FIG. 32



FIG. 33

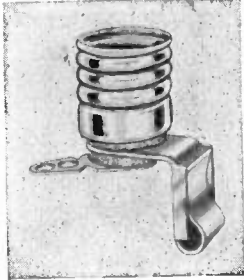


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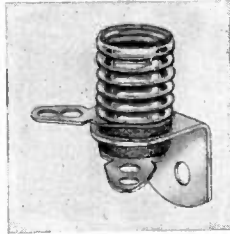
## LAMP SOCKETS

Four series with choice of mounting bracket  
(Add suffix number for bracket desired)



No. 604

**600 SERIES**  
Candelabra screw



No. 508

**500 SERIES**  
Miniature screw

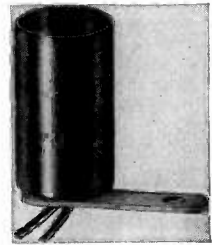


No. 706

**700 SERIES**  
Miniature bayonet

### Socket suffix

No.	Bracket Description
-01.....	Plain clip, upturned
-02.....	Plain clip, downturned
-03.....	Clip with ears, upturned
-04.....	Clip with ears, downturned
-05.....	Right angle, upturned, slotted. Slot..... $\frac{7}{8}$ " x $\frac{3}{16}$ "
-06.....	Right angle, downturned, slotted. Slot..... $\frac{7}{8}$ " x $\frac{3}{16}$ "
-07.....	Plain socket, no bracket
-08.....	Right angle, downturned, short. Hole Size..... $\frac{5}{32}$ "
-09.....	Right angle, upturned, short. Hole Size..... $\frac{5}{32}$ "
-11.....	Square U-shaped. Hole Size..... $\frac{5}{32}$ "
-12.....	Horizontal (no bend), short. Hole Size..... $\frac{5}{32}$ "
-13.....	Horizontal (no bend), slotted. Slot..... $\frac{7}{8}$ " x $\frac{3}{16}$ "
-19.....	Right angle, upturned, long. Hole Size..... $\frac{9}{64}$ "
-20.....	Right angle, downturned, long. Hole Size..... $\frac{9}{64}$ "



No. 312

**300 SERIES**  
Miniature bayonet  
Bakelite insulated-wire leads

## Heavy Bakelite Sockets

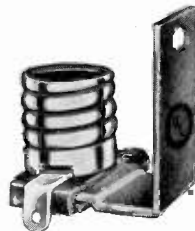
NAVY SPECIFICATIONS



Miniature bayonet—No. 9S4931  
(illustrated)  
Double Contact bayonet 9S4634  
Candelabra screw 9S5038  
Candelabra screw 9S2036  
(side spring lock)

## Candelabra Screw Sockets

Underwriters' Listed  
Rated 75W. 125V.

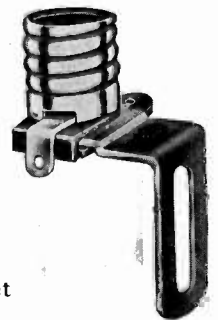


No. 18-73 Upturned bracket  
(illustrated)

No. 18-74 Downturned bracket

No. 18-75 Horizontal bracket

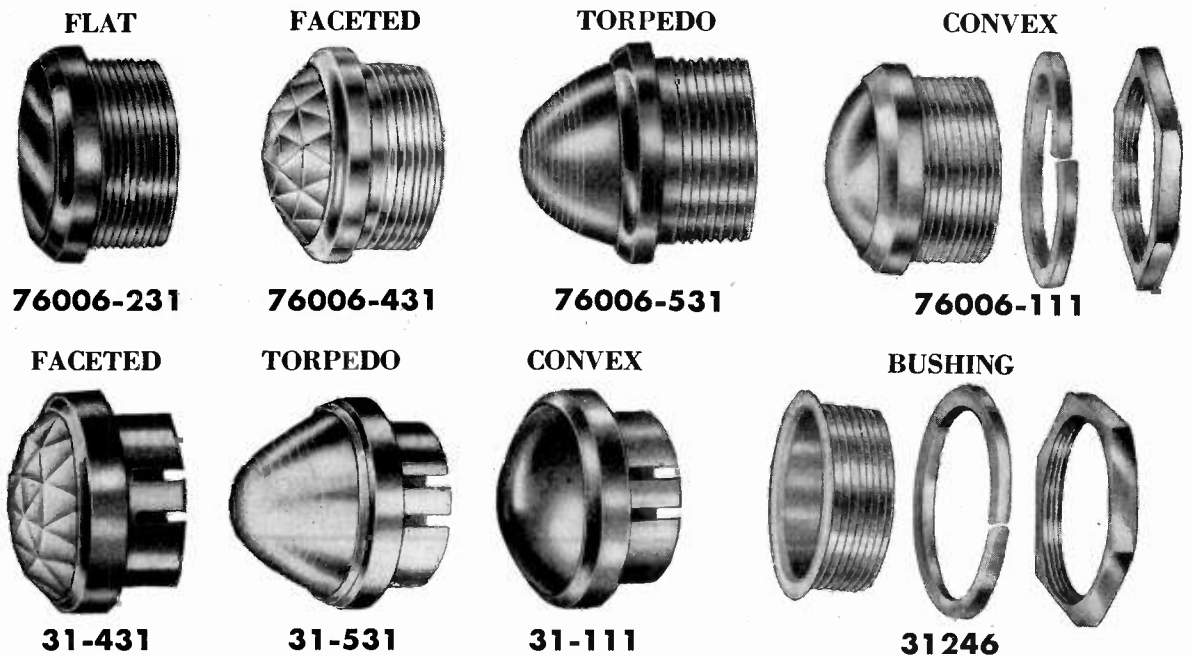
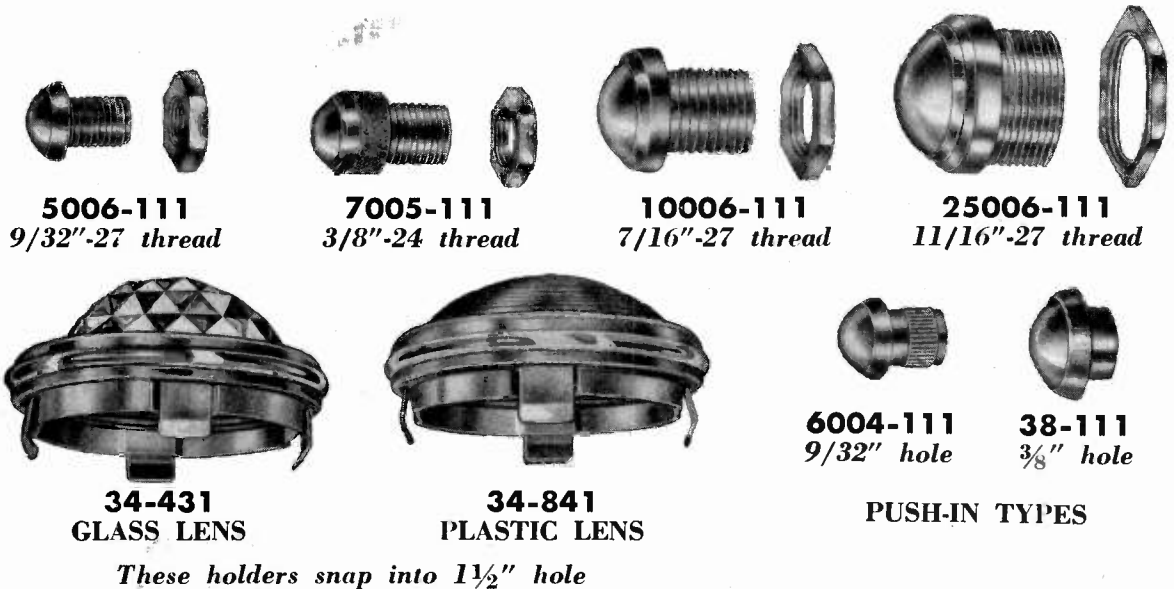
No. 18-76 Downturned and slotted bracket  
(illustrated)



# The DIAL LIGHT COMPANY of AMERICA

Foremost Manufacturer of Pilot Lights  
NEW YORK 3, N. Y.

## Lens Holders with Lenses for Panel Mounting Screw Types Are Complete With Nut for Shank



The above two groups mount in 1" clearance hole. The upper series lock to the panel and are tamper proof. The lower series permit lamp replacement from the front of the panel.

**LENS COLOR**—The final figure 1 in the listed numbers indicates RED LENS COLOR. If other color is desired, change final figure to one from table below:

Green-2, Amber-3, Blue-4, White-5, Yellow-6, Clear-7

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# The DIAL LIGHT COMPANY of AMERICA

Foremost Manufacturer of Pilot Lights  
NEW YORK 3, N. Y.

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## CONNECTORS FOR STANDARD SINGLE CONDUCTOR SHIELDED CABLE—FOR MICROPHONES, SPEAKERS, PICK-UPS, JACKS



No. 100 CABLE CONNECTOR (*Female*)



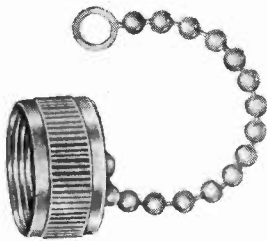
No. 51 CIRCUIT GROUNDING  
MALE CHASSIS CONNECTOR



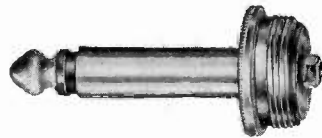
No. 101 CABLE CONNECTOR (*Male*)



No. 50 CHASSIS CONNECTOR  
No. 50P Similar but drive fit  
*into hole in chassis.*



No. 103 CAP AND CHAIN



No. 102 PLUG WITH MALE THREAD  
*Fits standard jacks*

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## LAMP INSTALLER



*For most lamps — L-73 (illustrated) For T4½ lamps — L-45*

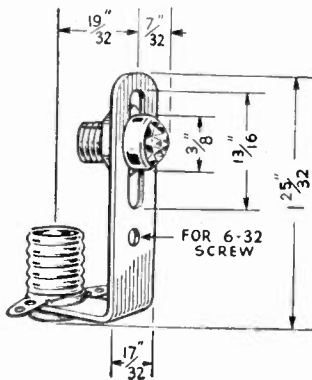


# Dial and Jewel PILOT LIGHT ASSEMBLIES

## JEWEL LIGHT ASSEMBLIES

11/32" Jewel... Vertical Mounting

### No. 5 TYPE



The No. 5 type is unique in its field because it can be adapted to the focal lengths of any miniature screw or bayonet lamp. The opening in the shank of this jewel is so small, it is necessary to have the filament of the lamp directly behind the jewel. The slotted jewel mounting on the No. 5 makes this feature possible. This is an inexpensive unit, and it presents a neat appearance on small instrument panels.

#### STANDARD TYPES

Type Number	Style Socket
5	Miniature Screw
5B	Miniature Bayonet

#### SPECIFICATIONS

- MOUNTING:** Mounts in 9/32" diameter hole on panels up to 1/4" thick.
- RATING:** Tested on 110 volts. Can be supplied to withstand 1000 volts AC for a period of one minute.
- LAMPS:** Designed to house any filament type miniature screw or miniature bayonet lamp.
- COLORS:** Amber, blue, colorless, green, ruby, white or yellow.
- FINISHES OF GLASS:** Standard unit is equipped with faceted glass. Smooth glass may be obtained upon request.
- PLATING:** Panel hardware is bright nickel, other parts cadmium.
- SPECIAL PLATING:** Panel hardware can be supplied with staturary bronze or chrome plating for small extra charge.
- PACKING:** Packed in bulk unassembled.

#### PARTS

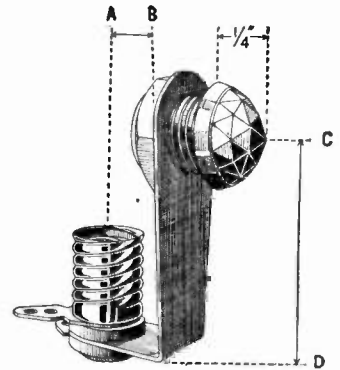
Part No.	Description
14	Jewel Assembly with Nut
15	Nut
123H	Socket Assembly for No. 5
223H	Socket Assembly for No. 5B

1/2" Jewel... Vertical Mounting

### No. 10 TYPE

NOTE:

Dimension A to B is from center of socket to outside of bracket. C to D from center of jewel to bottom of bracket. The No. 10B and 10H have brackets with oblong hole permitting adjustment to obtain best position for lamp filament back of jewel.



#### STANDARD TYPES

Type Number	Style Socket	A to B	C to D
10	Min. Screw	1/2"	1 1/4"
10B	Min. Bayonet	3/4" }	Adj. from 1 1/8" to 1 3/8"
10H	SC Cand. Bay.	3/4" }	
10G	Min. Bayonet	1/2"	1 1/4"

#### SPECIFICATIONS

- LAMPS REQUIRED:** For No. 10 and 10B, miniature screw or bayonet base of any voltage (tubular preferred). For No. 10G, miniature bayonet, type G3 1/2 bulb. For No. 10H any SC candelabra bayonet base lamp may be used. Mounts in 7/16" hole on panels up to 1/4" thick. • **JEWEL:** Diamond cut (faceted); Amber, Blue, Crystal, Green, Ruby, White (Milk White), and Yellow. • **SPECIAL FINISHES:** Chrome, Black Nickel, Statuary Bronze. • **PACKED** in bulk with jewels and nuts in bags. • **SPECIAL JEWELS:** SP—Smooth, plain; SFA—Smooth, frosted all over; SFB—Smooth, frosted on back.

#### PARTS

Part No.	Description
115	Socket Assembly for No. 10
215BC	Socket Assembly for No. 10B
215	Socket Assembly for No. 10G
615BC	Socket Assembly for No. 10H
16	Jewel and Nut
17	Nut



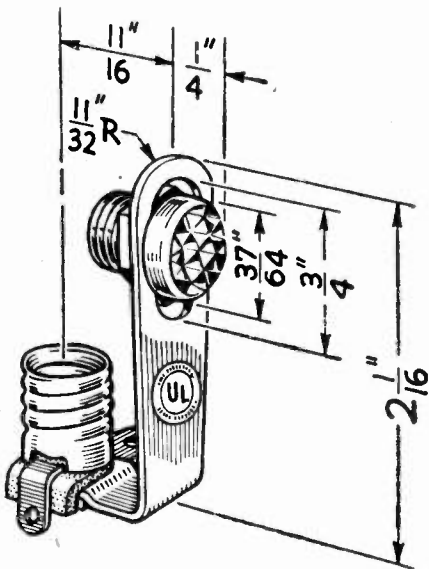
# Dial and Jewel PILOT LIGHT ASSEMBLIES

## JEWEL LIGHT ASSEMBLIES

1/2" Jewel ... Vertical Mounting

### No. 10C TYPE

UNDERWRITERS' APPROVED



The No. 10C is an inexpensive candelabra screw base jewel light assembly that is Underwriters' Approved for 75 watt-125 volt service. It is particularly suited to applications where there is a minimum of depth behind the panel, and lamp replacement from the front of the panel is not necessary. The mounting bracket has a slotted hole to facilitate adjustment for placing the lamp filament directly behind the jewel giving maximum illumination of the jewel.

### SPECIFICATIONS

**MOUNTING:** Mounts in 7/16" hole on panels up to 1/4" thick. For panels between 1/4" and 3/8" specify No. 16L jewel.  
**RATING:** 75 watts, 125 volts.  
**LAMPS:** Will house any candelabra screw base lamp.  
**COLORS:** Amber, blue, colorless, green, ruby, white and yellow.

FINISHES OF GLASS	SYMBOL
Faceted (Diamond Cut)	Standard Finish
Smooth Plain (Smooth face no frosting)	SP
Smooth, Frosted All Over	SFA
Smooth, Frosted on Back Only	SFB

**PLATING:** Jewel assembly is burnished nickel. All other parts are cadmium. Statuary bronze, chrome, and black nickel plating can be applied to jewels for a small extra charge.  
**PACKED:** Packed in bulk unassembled.

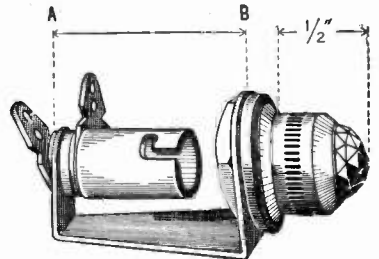
### PARTS

Part No.	Description
16	Jewel Assembly and Nut
17	Nut
415BC	Socket Assembly

1/2" Jewel ... Horizontal Mounting

### No. 20 TYPE

The original Drake Horizontal Mounting Lamp Assembly, and still a fast seller. When ordering, please be sure to select the correct part number for the thickness of panel on which to be installed; otherwise lamp may not extend far enough forward for easy removal, or if too far, prevent bezel screwing all the way on collar.



PATENT NO. 2220515  
Net Wt. 0.036 lb.

### STANDARD TYPES

Type Number	Style Socket	Length A to B	Panel Thickness
20	Min. Bayonet	1-13/32"	0" to 7/64"
30	Min. Bayonet	1-7/32"	1/4"
40	Min. Bayonet	1-11/32"	1/8 to 15/64"
20S	Min. Screw	1-1/16"	0" to 15/64"
30S	Min. Screw	15/16"	1/4"

**NOTE:** Dimension A to B is overall length of socket assembly with lamp installed. Can be furnished with same plastic caps as No. 51 and 51N. Specify by using Nos. 31C or 31SC.

### SPECIFICATIONS

**LAMPS REQUIRED:** Miniature T3/4 tubular, G3 1/2 globular or other lamps of same over-all length. Lamp removable from front of panel. • Mounts in 11/16" hole. • **JEWEL:** Diamond cut (faceted); Amber, Blue, Crystal, Green, Ruby, White (Milk White) and Yellow. • **SPECIAL FINISHES:** Chrome, Black Nickel, Statuary Bronze. • **PACKED** in bulk with jewel, collar and nuts in bag. • **SPECIAL JEWELS:** SP—Smooth, plain; SFA—Smooth, frosted all over; SFB—Smooth, frosted back.

### PARTS

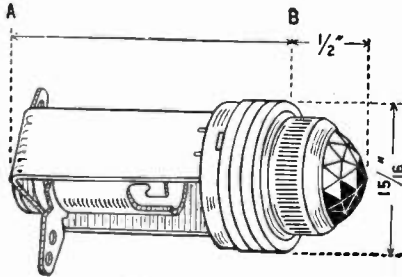
Part No.	Description
220A	Socket Assembly for No. 20
221F	Socket Assembly for No. 30
221V	Socket Assembly for No. 40
122V	Socket Assembly for No. 20-S
122G	Socket Assembly for No. 30-S
25	Jewel
27	Nut
28	Collar for 0"-1/4" panels, 3/8" long
30	Collar for 3/8" panel, 1/2" long



# Dial and Jewel PILOT LIGHT ASSEMBLIES

## JEWEL LIGHT ASSEMBLIES

1/2" Jewel... Horizontal Mounting  
**No. 50 TYPE**



Net Wt. 0.056 lb.  
PATENT NO. 2220516

This patented Drake Assembly is ideal for various applications. Specially designed for use on more than one thickness of panel. Supplied with two fibre washers which compensate for panel thicknesses. It is of sturdy construction, easy to mount, and requires little space.

### STANDARD TYPES

Type Number	Style Socket	Length A to B	Panel Thickness
50	Min. Bayonet	1-9/16"	0" to 1/4"
50.5	Min. Bayonet	1 1/2"	17/64" to 3/8"
50S	Min. Screw	1 1/8"	0" to 1/4"
50.5S	Min. Screw	1 1/8" to 1 1/4"	17/64" to 3/8"

NOTE: Dimension A to B is overall length from front of panel with lamp installed.

No spacing washers are furnished with part No. 50.5S.

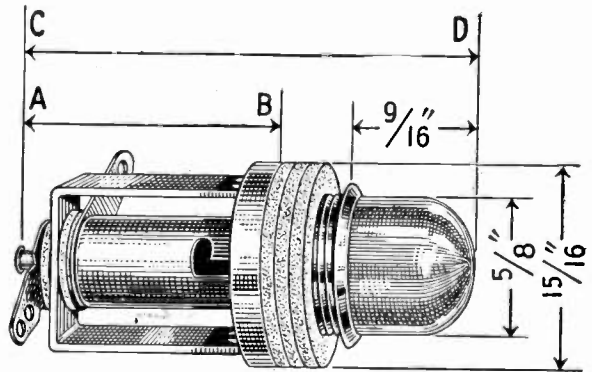
### SPECIFICATIONS

LAMPS REQUIRED: Miniature T3 1/4 tubular, G3 1/2 globular or other lamps of same over-all length. • Lamp removable from front of panel. • Mounts in 11/16" hole. • JEWEL: (Diamond cut faceted); Amber, Blue, Crystal, Green, Ruby, White, (Milk White) and Yellow. • SPECIAL FINISHES: Chrome, Black Nickel, Statuary Bronze. • PACKED in individual boxes for jobbing trade; in bulk and fully assembled for manufacturing trade. • SPECIAL JEWELS: SP—Smooth, plain; SFA—Smooth, frosted all over; SFB—Smooth, frosted on back.

### PARTS

Part No.	Description
25	Jewel
28	Collar 3/8" long for No. 50 & 50S
30	Collar 1/2" long for No. 50.5 & 50.5S
50A	Round Nut
50B	Fibre Washer, 11/16" I.D. x 15/16" O.D. x 1/16" thick
225A	Min. Bay. Socket Assembly for No. 50
225C	Min. Bay. Socket Assembly for No. 50.5
125B	Min. Screw Socket Assembly for Nos. 50S & 50.5S

Plastic Dome... Horizontal Mounting  
Lamp Replaceable from Front of Panel  
**No. 51 TYPE**



NET WEIGHT 0.045 lbs.

PATENT NO. 2220516

The No. 51 is a patented Drake assembly featuring a plastic dome indicator which fosters wide angle observation. The whole dome is illuminated, therefore it can be easily seen from the side. It is a good eye-catcher because of its brilliant glow, and for this reason, it makes a wonderful warning light. The unit is supplied with three 1/16" thick fibre spacing washers, so that when the unit is mounted on a thick panel, these washers can be removed making the lamps as accessible for replacement as when mounted on a thin panel.

Part No.	Length			Style Socket	Number of Spacing Washers Required			
	A to B	C to D	D		Panel thickness	Washers	Washers	Washers
51	1 1/8"	1 1/8"	1 1/8"	Min.	3/8"	1/8"	1/8"	1/4"
				Bay.	3	2	1	0
51.5	1"	1 1/8"	1 1/8"	Min.	1/4"	1/8"	3/8"	
				Bay.	2	1	0	
51S	7/8"	1 1/8"	1 1/8"	Min.	3/8"	1/8"	1/8"	1/4"
				Screw	2	1	0	0

Length A to B is overall length of socket assembly with lamp installed.

### SPECIFICATIONS

MOUNTING: Mounts in 11/16" diameter hole. RATING: Tested on 110 volts. Can be supplied to withstand 1,000 volts AC for a period of one minute. LAMPS: Designed to house the miniature bayonet or miniature screw base T3 1/4 lamp. Will also house G3 1/2 bulb, but lamp is not quite as accessible for replacement. COLORS: Amber, colorless, green and red. PLATING: Regularly supplied with nickel plated panel hardware, all other parts cadmium plated. SPECIAL PLATING: Panel hardware can be supplied with chromium, statuary bronze, or black nickel plating. Extra charge for these finishes. PACKING: The units are packed in bulk and fully assembled.

### PARTS

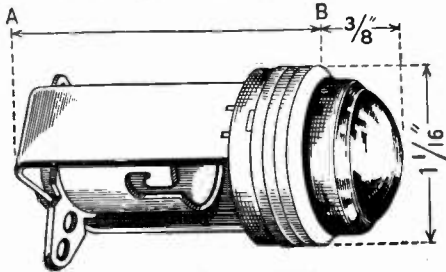
Part No.	Description
25P	Plastic Dome
28	Collar 3/8" long for 51 and 51S
30	Collar 1/2" long for 51.5
50A	Round Nut
50B	Fibre Spacing Washer
125B	Socket Assembly for 51S
225C	Socket Assembly for 51
225B	Socket Assembly for 51.5



# Dial and Jewel PILOT LIGHT ASSEMBLIES

## MECHANICALLY SECURE TERMINALS USED ON 110 VOLT CANDELABRA ASSEMBLIES

### 3/4" Jewel... Horizontal Mounting **No. 60 TYPE**



PATENT NO. 2220516  
Net Wt. 0.068 lb.

This patented item is similar to the No. 50, but has a 3/4" jewel in a polished chrome "slip-fit" bezel. Supplied with three fibre washers which compensate for panel thickness. Its sturdy construction, ease of mounting, and small size make it an ideal assembly.

Part Number	Style Socket	Length A to B
60	Min. Bayonet	1- 9/16"
60N	Cand. Screw for NE45 lamp	1-13/16"
60S	Min. Screw	1- 5/16"
60T	Cand. Screw for 115v, 6W, T4 1/2 lamp	2"

NOTE: Dimension A to B is overall length from front of panel with lamp installed.

### SPECIFICATIONS

**MOUNTING:** Mounts in 13/16" diameter hole on panels 0" to 1/4" thick. For panels 17/64" to 3/8" thick use parts 60.75, 60.75N, 60.75S, or 60.75T.

**RATING:** Miniature bayonet and screw types are tested on 110 volts. Candelabra screw types will withstand a voltage breakdown of 1,000 volts.

**COLORED DISCS:** The No. 60 types are regularly supplied with colorless, smooth glass frosted on back behind which is placed a colored disc. The advantage of this method is that the glass appears white until the lamp is lighted.

**COLORS:** Amber, blue, colorless, green, red, white, or yellow.

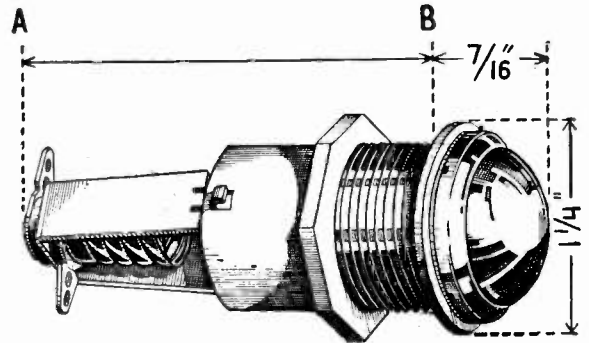
OTHER FINISHES OF GLASS	SYMBOL
Faceted (Diamond Cut)	FAC
Smooth Plain (Smooth face and no frosting)	SP
Smooth, frosted on back (Smooth face frosted on back only)	SFB

Colored glass is furnished when any of the above types are specified. We recommend smooth plain glass for use with neon glow lamps.

### PARTS

Part Number	Description
60A	Jewel
60B	Collar 25/32" long for Nos. 60.75, N, S, and T
60C	Collar 13/32" long for Nos. 60, N, S, and T
60D	Round Nut
60E	Color Disc
60G	Retaining Ring for Color Disc
60I	Fibre Washers, 13/16" I.D. x 1 1/8" O.D. x 1/16" thick
128V	Min. Screw Socket Assembly for Nos. 60S & 60.75S
228U	Min. Bay. Socket Assembly for No. 60
228V	Min. Bay. Socket Assembly for No. 60.75
428U	Cand. Screw Socket Assembly for No. 60.75N
428W	Cand. Screw Socket Assembly for Nos. 60N and 60.75T
437P	Cand. Screw Socket Assembly for No. 60T

### 1" Jewel... Horizontal Mounting **No. 75 TYPE**



Net Wt. 0.107 lb.

PATENT NO. 2192345

The patented No. 75 type has a "slip-fit" bezel. It is exceedingly neat in appearance. Very substantial and easy to install. All parts are burnished cadmium plated except the bezel which has a highly polished chrome finish.

Type Number	Style Socket	Length A to B
75	Candelabra	2 1/8"
175	Min. Screw	1 3/4"
275	Min. Bayonet	1 1/8"
375	S.C. Cand. Bayonet	2-1/32"

NOTE: Dimension A to B is over-all length. Overall diameter of mounting nut 1 3/8".

### SPECIFICATIONS

**MOUNTING:** Mounts in 1" diameter hole on panels up to 1/2" thick.

**RATING:** Nos. 175 and 275 are tested on 110 volts.

Nos. 75 and 375 will withstand a voltage breakdown of 1,000 volts.

**LAMPS:** The No. 75 is designed to house Mazda 115 volt 6 watt, S6 or C7 candelabra screw base lamps. Will house any other candelabra screw base lamp up to 1 1/8" long and 7/8" diameter.

The Nos. 175 and 275 are designed to house any miniature lamp up to 1-3/16" long and 7/8" diameter.

The No. 375 is designed to house any single contact candelabra bayonet base lamp up to 1 1/2" long and 7/8" diameter.

**COLORS:** Amber, Blue, Colorless, Green, Red, White, or Yellow.

**COLORED DISCS:** The No. 75 types are regularly supplied with colorless, smooth glass frosted on back behind which is placed a colored disc. The advantage of this method is that the glass appears white until the lamp is lighted.

OTHER FINISHES OF GLASS	SYMBOL
Faceted (Diamond Cut)	FAC
Smooth Plain (Smooth face and no frosting)	SP
Smooth, frosted on back (Smooth face frosted on back only)	SFB

Colored glass is furnished when any of the above types are specified. We recommend smooth plain glass for use with neon glow lamps.

### PARTS

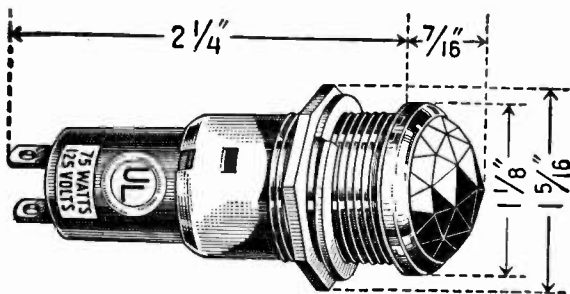
Part Number	Description
419V	Socket Assembly for No. 75
224H	Socket Assembly for No. 275
124I	Socket Assembly for No. 175
624J	Socket Assembly for No. 375
75A	Jewel
75B	Tube
75C	Nut
75E	Color Disc
75F	Retaining ring for Color Disc
75G	Fibre washer—1/4" O.D.
75L	Lock washer
75N	Spring clip to lock socket in place



# Dial and Jewel PILOT LIGHT ASSEMBLIES

## 1" JEWEL LIGHT ASSEMBLIES LAMPS REPLACEABLE FROM FRONT OF PANEL

### No. 75AP TYPE UNDERWRITERS' APPROVED



Net Weight 0.110 lbs.

The No. 75AP is a heavy duty candelabra screw base assembly designed to be used on rugged equipment. The panel hardware (jewel holder) is attractively finished with a highly polished chrome plate. All other parts are cadmium plated. The No. 75AP is Underwriters' approved for 125 volt, 75 watt service. The socket assembly and mounting tube are one piece and so constructed that they need never be replaced. Electrical connections are made to solder terminals. No danger of vibration loosening the connections as with screw terminals.

### SPECIFICATIONS

**MOUNTING:** Mounts in 1" diameter holes on panels up to 1/2" thick.

**RATING:** 125 volts, 75 watts. Can be operated on 220 volt circuits if connected in series with a 2000 ohm, 10 watt wire wound resistor. In this case a 115 volt, 6 watt lamp must be used.

**LAMPS:** Designed to house the Mazda 115 volt, 6 watt, S6, candelabra screw base lamp.

Will house any other candelabra screw base lamp which has an overall length of less than 1 7/8" and a diameter of less than 7/8".

**NOTE:** Will not house a C7 bulb.

**COLORS:** Amber, blue, colorless, green, ruby, white or yellow.

FINISHES OF GLASS	SYMBOL
Faceted (Diamond Cut)	FAC
Smooth Plain (Smooth face and no frosting)	SP
Smooth, frosted on back (Smooth face frosted on back only)	SFB

For Mazda lamps we recommend faceted or smooth glass frosted on back. For neon glow lamps, we recommend smooth plain glass.

**NOTE:** If no other finish is specified, faceted glass will be furnished.

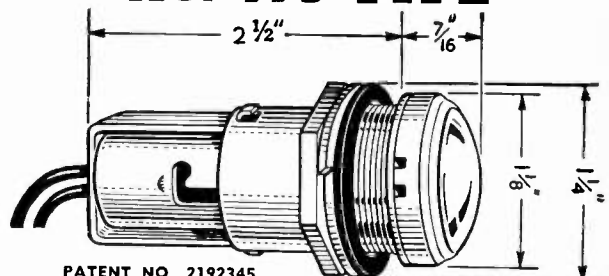
**PACKING:** The units are packed in individual boxes for the jobbing trade; in bulk, and fully assembled for the manufacturing trade.

### PARTS

Part No.	Description
475M	Socket Assembly
75A	Jewel & Jewel Holder
75C	Nut
75L	Lock Washer

### Double Contact Candelabra Bayonet UNDERWRITERS' APPROVED

### No. 975 TYPE



PATENT NO. 2192345

The No. 975 is a heavy duty double contact, candelabra, bayonet base assembly designed to be used in rugged equipment. The panel hardware (jewel holder) is attractively finished with a highly polished chrome plate. All other parts are cadmium plated. The No. 975 is Underwriters' approved for 125 volt, 75 watt service. The mounting tube and socket are detachable; therefore the wire leads of the socket assembly can be connected to the terminal block before the socket assembly is clipped into the mounting tube which is already installed in the panel. This feature facilitates quicker assembly of panels. The built in lead wires can be attached directly to screw or solder terminal blocks; thereby eliminating two soldering operations. Units are carried in stock with both 10 inch and 20 inch leads. On orders of 500 or more units the wires can be cut to your specifications. See wire table.

Part Numbers	Length of Leads
975-10	10 inches
975-20	20 inches

### SPECIFICATIONS

**MOUNTING:** Mounts in 1" diameter holes on panels up to 1/2" thick.

**RATING:** 125 volts, 75 watts.

**LAMPS:** Designed to house the double contact, candelabra, bayonet base, C7, S6 or T6 1/2, 110 volt lamp. Will house any other D C, candelabra based lamp which is no larger than 7/8" in diameter and no longer than 2 1/8". Lamps can be purchased from Drake Manufacturing Co.

**LEADS:** No. 18 gauge (16 strands No. 30) with 1/32" of black Synthinol plastic insulation.

**COLORS:** Amber, blue, colorless, green, red, white or yellow.

**COLOR DISCS:** The No. 975 is regularly supplied with colorless, smooth glass frosted on back behind which is placed a colored disc. The advantage of this method is that the glass appears white until the lamp is lighted.

OTHER FINISHES OF GLASS	SYMBOL
Faceted (Diamond Cut)	FAC
Smooth Plain (Smooth face and no frosting)	SP
Smooth, frosted on back (Smooth face frosted on back only)	SFB

Colored glass is furnished when any of the above types is specified. We recommend smooth plain glass for use with neon glow lamps.

**PACKING:** Packed in bulk fully assembled.

### PARTS

Part Numbers	Description
75A	Jewel
75B	Tube
75C	Nut
75E	Color Disc
75F	Retaining ring for Color Disc
75G	Fiber washer 1/16" thick
75L	Lock Washer
950E-10	Socket Assembly for No. 975-10
950E-20	Socket Assembly for No. 975-20





# Dial and Jewel PILOT LIGHT ASSEMBLIES

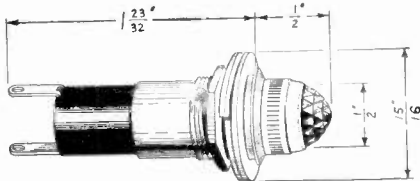
TOTALLY ENCLOSED, MINIATURE BAYONET

## PILOT LIGHT ASSEMBLIES

BUILT-IN RESISTORS FOR NEON GLOW-LAMPS OPTIONAL

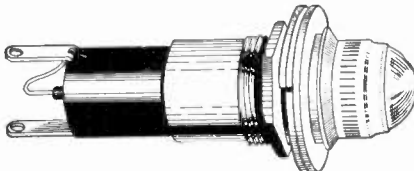
These totally enclosed pilot lights meet Underwriters' Specifications. They are very rugged and particularly adapted to use in equipment subjected to extreme vibration and atmospheric conditions. The 100N and 101N assemblies are designed specifically for use with the NE51 neon glow lamp. With proper current limiting resistors (built into the socket of either the 100N or 101N), the neon glow lamps can be operated on any voltage over 65 volts AC and 90 volts DC. You merely specify the operation voltage and we furnish the correct unit. Stock units have 100,000 ohm resistors for 115 volt operation. The primary advantages of the glow lamp are its long life (3000 hrs.), resistance to vibration (unaffected), low initial cost, low operating cost (1/25 watt), and small size.

### WITH 1/2" JEWEL No. 100



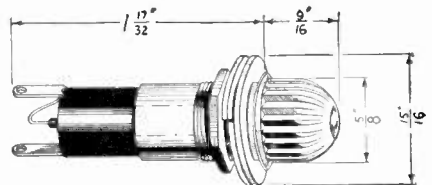
PATENT NO. 2220515

### No. 100N



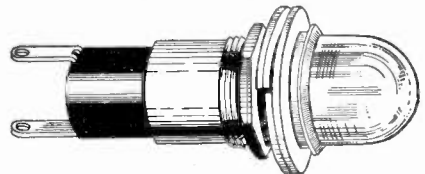
HAS BUILT-IN RESISTOR FOR NEON LAMP

### WITH PLASTIC DOME No. 101N



WITH BUILT-IN RESISTOR FOR NEON LAMP

### No. 101



PATENT NO. 2220515

The jewel or bull's-eye indicators are recommended for use with incandescent lamps of over one watt; in temperature ambients of over 200° F; or, in the case of neon, where a concentration of light is required directly in front of the observer.

### SPECIFICATIONS

**MOUNTING:** Mounts in 11/16" dia. hole on panels up to 3/8" thick.

**RATING:** Breakdown voltage 2000 volts AC.

**LAMPS:** No. 100 is designed to house any miniature bayonet, T3/4 lamp.

**COLORS:** Amber, Blue, Colorless, Green, Ruby, White, and Yellow.

**NOTE:** Blue, Green, and White not recommended for use with neon lamp.

FINISHES OF GLASS	SYMBOL
Faceted (Diamond Cut)	FAC Standard Finish on No. 100
Smooth Plain (Smooth face, no frosting)	SP Standard Finish on No. 100N
Smooth, Frosted All Over	SFA
Smooth, Frosted on Back Only	SFB

**NOTE:** SFA and SFB finishes not recommended for neon lamps.

**PLATING:** Regularly supplied with burnished nickel plated panel hardware.

**SPECIAL PLATING:** Extra charge for chromium, statuary bronze, etc.

**PACKING:** To jobbers: individually packed in boxes, 25 boxes to a unit package. To manufacturers: packed in bulk, fully assembled. Net wt. 0.057 lbs.

### PARTS

Part No.	Description
25	Jewel
27	Nut
36L	Lock Washer
50B	Fibre Washer
2100A	Socket Assembly for No. 100
2100AN	Socket Assembly for No. 100N

The transparent plastic cap is fluted on the inside to multiply the images of the glowing electrodes of the neon lamp. It actually has three times the visibility of the ordinary plain cap. Because of the small amount of illumination emitted by the neon lamp, it is advisable to use the dome with 180° visibility to utilize the greatest amount of available light.

Unless otherwise specified, No. 101 (designed for incandescent lamps) is equipped with a translucent cap that affords a beautiful even glow over the whole area of the dome.

### SPECIFICATIONS

**MOUNTING:** Mounts in 11/16" dia. hole on panels up to 3/8" thick.

**RATING:** Breakdown voltage 2000 volts AC.

**LAMPS:** No. 101 is designed to house No. 47 incandescent lamp or any other miniature bayonet T3/4 lamp of less than 1 watt power consumption.

**TRANSPARENT COLORS:** Amber, Colorless, Red, and Milky White.

**NOTE:** Since the neon glow does not effectively penetrate the transparent Green and Blue caps, they are not carried in stock.

**TRANSLUCENT COLORS:** Blue, Green, Red, Milky White, and Yellow.

**PLATING:** Regularly supplied with burnished nickel plated panel hardware.

**SPECIAL PLATING:** Extra charge for chromium, statuary bronze, etc.

**PACKING:** To jobbers: individually packed in boxes, 25 boxes to a unit package. To manufacturers: packed in bulk, fully assembled. Net wt. 0.047 lbs.

### PARTS

Part No.	Description
25P	Plastic Cap
27	Nut
36L	Lock Washer
50B	Fibre Washer
2101A	Socket Assembly for No. 101
2101AN	Socket Assembly for No. 101N



# Dial and Jewel PILOT LIGHT ASSEMBLIES

## DOUBLE CONTACT CANDELABRA BAYONET

Underwriters' Approved for General Purpose

### No. A900 SERIES

UL File No. E17786

### MOUNTING BRACKETS FOR 900, A900, 1000 SERIES ASSEMBLIES

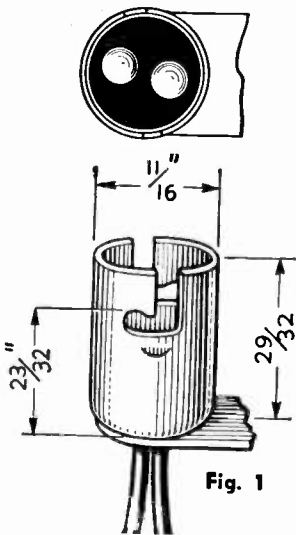


Fig. 1

This socket assembly is a 110 volt unit designed specifically for use in Underwriters' approved equipment. It has built in lead wires and is sturdily constructed befitting 110 volt application. In spite of its ruggedness it requires less space with lamp installed than does the candelabra screw type. In addition the bayonet type lamps will not loosen from vibration.

This socket can be supplied mounted to any one of the brackets shown on this page and the next. If they do not meet your requirements, we have the facilities to build them to your specifications.

The A900 type assembly is equipped with No. 18 (16 strands No. 30) tinned copper wire insulated with 1/32" of plastic insulation. See wire table. Units can be wired in series.

The Underwriter's Laboratories have approved the use of this socket with No. 22 gauge wire leads for application in radio only. With the lighter gauge wire the assembly is designated as the No. 900 Series. It can be wired in series or parallel. See wire table.

NOTE: On orders for less than 500 assemblies, no choice of leads is given. Assemblies will be supplied with 10" of black wire stripped 1/2".

LAMPS: 110 volt, 10 watt can be purchased from Drake Manufacturing Co.

### FORMULATION OF PART NUMBERS

The part number is composed of three parts, the series number, the bracket number, and the bracket position. The series number is expressed in hundreds plus the letter prefix if there is one. For example: The part number of an A900 Series Socket (fig. 1) with a No. 50H bracket (fig. 4) in the "A" position (fig. 2) would be No. A950H-A. Similarly a unit with No. 22 wire (900 series) and a No. 50J bracket (fig. 5) in the "C" position (fig. 3) would be 950J-C. Part numbers of sockets without brackets are designated as 917, A917, and 1017 respectively.

NOTE: Please do not fail to specify length of lead wire and stripping when ordering more than 500 units.

#### "A" BRACKET POSITION

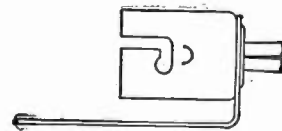


Fig. 2

#### "C" BRACKET POSITION

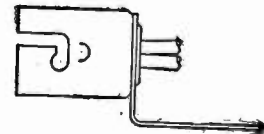
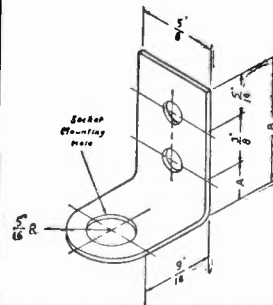


Fig. 3



No. 50G { "A" dim. 5/16"  
"B" dim. 1"

No. 50H { "A" dim. 1-1/16"  
"B" dim. 1 3/4"

No. 50H is recommended for "A" bracket position.

Fig. 4

#### No. 50J

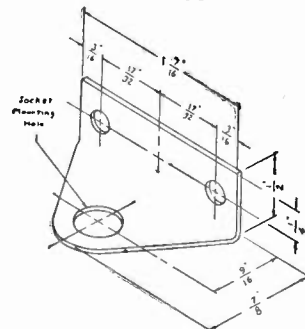


Fig. 5

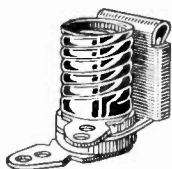


*Dial and Jewel*  
**PILOT LIGHT ASSEMBLIES**

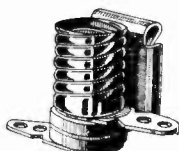
# SOCKET ASSEMBLIES

FOR ALL STANDARD OR SPECIAL NEEDS

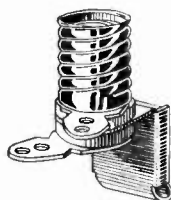
## Clip Bracket Types With FLANGE Brackets



103 AE



103 AH

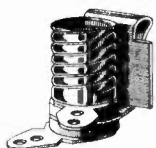


103 CE



103 CH

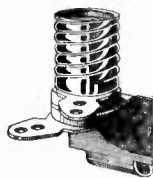
## Clip Bracket Types With FLAT Brackets



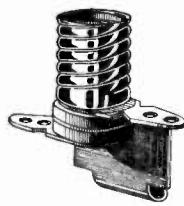
104 AE



104 AH

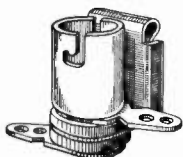


104 CE

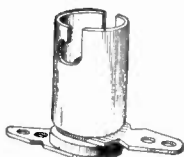


104 CH

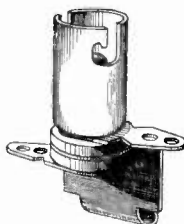
## Bayonet Type Socket Assemblies



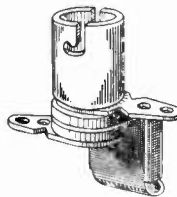
203 AH



217 H



204 CH



203 CH



204 AH

## Miscellaneous Types . . . Special Sizes



117 H



108 AH



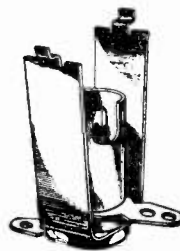
108 CH



109 CH



109 AH



219

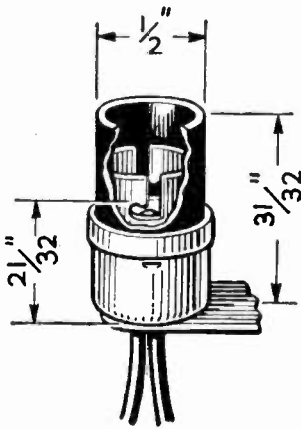


# Dial and Jewel PILOT LIGHT ASSEMBLIES

## MINIATURE BAYONET LIGHT SOCKET ASSEMBLIES

### No. 500 SERIES

For Underwriters' Approved AC-DC  
Radio Receivers



In this socket assembly the bayonet shell is protected from outside contact by a sturdy fishpaper insulating shield. The lead wires are an integral part of the unit and both are secured within the socket so that they will withstand a tension over 25 pounds.

Rounded edges on the opening at the base prevent cut and frayed lead wire insulation.

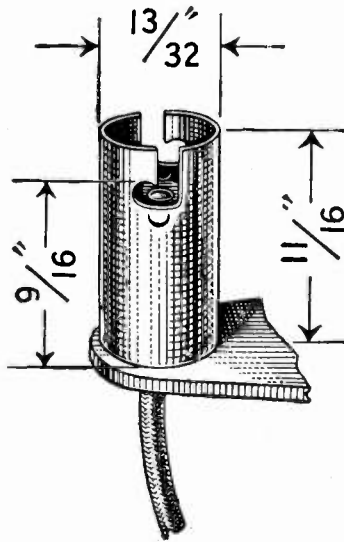
The assembly will withstand a minimum breakdown voltage of 1000 volts between contacts and to ground.

All parts are fitted so that there can be no rotation of one part with respect to another. This means that there is absolute rigidity from the mounting bracket to the bayonet shell which supports the lamp. The center contact cannot protrude from the socket when the lamp is removed.

The standard assembly is equipped with No. 22 gauge wire, however No. 20 wire can be used.

### No. 700 SERIES

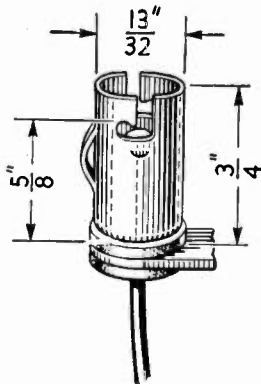
For Underwriters' Approved AC  
Radio Receivers



In this socket assembly the bayonet shell is electrically connected to the mounting bracket. It is secured in such a way that it cannot rotate. The lead wire is an integral part of the unit and is secured tightly enough to withstand a tension of over 25 pounds. The center contact cannot protrude when the lamp is removed.

The assembly will withstand a minimum breakdown voltage of 1,000 volts between the center contact and ground.

The assembly is customarily built with No. 22 gauge wire; however any other gauge up to and including No. 16 wire can be used.



### No. 800 Series

In this socket assembly the bayonet shell is insulated from the bracket. The shell is bridged to provide a good solder connection for one lead wire. The center lead wire is built-in, and the center contact cannot protrude when the lamp is removed. Upon request the assembly can be furnished with two lead wires or no lead wires.

### COMMENTS ON ALL ASSEMBLIES ILLUSTRATED HERE

The 500 and 700 types can be wired in series or parallel, but the 800 type can only be wired in series. See wire table for various lengths, color and insulation of lead wires.

NOTE: On orders for less than 500 assemblies, no choice of leads is given. All assemblies will be supplied with 10" of No. 22 plastic insulated wire stripped 1/2" long.

The assemblies can be attached to any of the mounting brackets shown in the listing of dial light assemblies. We also have approximately 900 other mounting brackets that are not listed. If you will submit your lighting problem to us, we are certain that we can offer you a satisfactory solution.

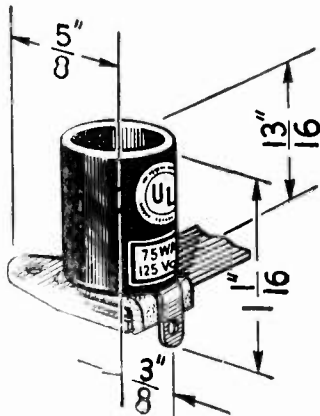


# Dial and Jewel PILOT LIGHT ASSEMBLIES

## SOCKET ASSEMBLIES AND JEWELS

### No. 300 SERIES

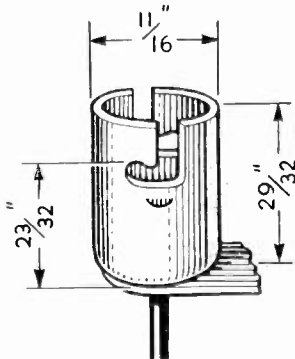
Candelabra Screw Base  
Underwriters' Approved for General Use



The No. 300 socket assembly is a candelabra screw socket, Underwriters' approved for 75 watt, 125 volt service. It can be attached to any of the brackets shown in the listing of dial light assemblies. We also have approximately 900 other mounting brackets that are not listed. If you will submit your lighting problem to us, we are certain that we can offer you a satisfactory solution.

### No. 1000 Series

Single Contact Candelabra Bayonet  
Automotive Type



This unit is an inexpensive assembly suitably adapted for use in 6 to 115 volt circuits. It has a built in center lead wire and the socket and bracket form the ground connection. The unit is sturdily constructed and designed so that the center contact cannot protrude when the lamp is removed.

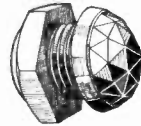
This socket can be supplied mounted to any one of the brackets illustrated with the 900 and A900 socket assemblies. If they do not meet your requirements, we have the facilities to build them to your specifications.

The standard Number 1000 type Assembly is equipped with 10 inches of No. 18 (16 strands No. 30) tinned copper wire insulated with 1/32" of plastic insulation. See wire table. Assemblies can be wired in parallel.

On orders of more than 500 units No. 22 to No. 16 gauge wire is available.

NOTE: Can be sold knocked down into extruded shell, spring, and pigtail with center contact and washer attached.

### 1/2" Jewels



THREADED TYPE



SLOTTED TYPE

### THREAD TYPE WITH NUTS

16CSP	Shank 3/8" long, 1 1/8" O.D.
16 1/2CSP	Shank 1/2" long, 1 1/8" O.D.

### SLOTTED TYPES

22CSP	Shank 1/8" long, 3/8" O.D.
23CSP	Shank 1 1/8" long, 3/8" O.D.
31CSP	Shank .085" long, 3/8" O.D.

JEWELS: Diamond cut (faceted), Amber, Blue, Crystal, Green, Ruby, White (Milk White) and Yellow.

SPECIAL JEWELS: SP—Smooth, plain; SFA—Smooth, frosted all over; SFB—Smooth, frosted back

SPECIAL FINISHES: Chrome, Black Nickel, Statuary Bronze.

### 11/32" Jewels . . . Slotted Types Only

JEWELS: Diamond cut (faceted), Amber, Crystal, Green, Ruby, White (Milk White). Also supplied with smooth plain glass (specify "SP") at same price.



FINISHES: Regular finish Statuary Bronze. Also supplied in nickel finish if so ordered, at same price.

21CSP, slotted type, Shank 1 1/8" long, 3/2" O.D.
24CSP, slotted type, Shank 1/4" long, 3 3/8" O.D.

### 1" Threaded Jewel Assembly

#### No. 75A3



Mounts in 1" diameter hole on panels up to 1/4" thick by removing washers. The assembly is supplied complete with fibre washer, lock washer, and hex nut. The unit is water tight when mounted to the panel with a rubber gasket.



# E. F. JOHNSON Company

WASECA,  
MINNESOTA

## LIGHT ASSEMBLIES



A



B



C



D



E



F



G

JOHNSON Indicator Light Assemblies are outstanding examples of sound engineering design, excellent material and careful workmanship. Their use is your assurance of complete satisfaction.

The listings on these two pages include only those standard units in greatest demand but many other types are readily available. Special assemblies can be furnished in production quantities.

Cat. No.	List Price	Illus.	Mounting Hole Size	Length Behind Panel <sup>7</sup>	Bulb Shape	Lamp Base	Jewels			Terminals		Insulation	Underwriter Approved	Color
							Type	Size	Holder	No.	Type			
147-800	\$1.05	B	1"	2 3/8"	G3 1/2, T3 1/4	Min. Screw	Faceted	1"	Friction	2	Solder	Fiber		
147-801	1.05	B	1"	2 3/8"	G3 1/2, T3 1/4	Min. Screw	Smooth	1"	Friction	2	Solder	Fiber		
147-802	1.10	B	1"	2 3/8"	S6	Cand. Screw	Faceted	1"	Friction	2	Solder	Fiber		
147-803	1.10	B	1"	2 3/8"	S6	Cand. Screw	Smooth	1"	Friction	2	Solder	Fiber		
147-804	1.10	B	1"	2 3/8"	G3 1/2, T3 1/4	Min. Bay.	Faceted	1"	Friction	2	Solder	Fiber		
147-805	1.10	B	1"	2 3/8"	G3 1/2, T3 1/4	Min. Bay.	Smooth	1"	Friction	2	Solder	Fiber		
147-1000	1.40	A	1"	2 1/8"	S6	Cand. Screw	Faceted	1"	Friction	2	Solder	Porcelain	Yes	
147-1001	1.40	A	1"	2 1/8"	S6	Cand. Screw	Smooth	1"	Friction	2	Solder	Porcelain	Yes	
147-1002	1.50	A	1"	2 1/8"	S6	Cand. Screw	Colored Disc <sup>6</sup>	1"	Friction	2	Solder	Porcelain	Yes	
147-1003	1.40	A	1"	2 1/8"	T4 1/2, NE45	Cand. Screw	Faceted	1"	Friction	2	Solder	Porcelain	Yes	
147-1004	1.40	A	1"	2 1/8"	T4 1/2, NE45	Cand. Screw	Smooth	1"	Friction	2	Solder	Porcelain	Yes	
147-1005	1.50	A	1"	2 1/8"	T4 1/2, NE45	Cand. Screw	Colored Disc <sup>6</sup>	1"	Friction	2	Solder	Porcelain	Yes	
147-1032	1.65	A	1"	2 3/4"	S6	Cand. Screw	Faceted	1"	Friction	2	Screw	Phenolic	Yes	
147-1033	1.65	A	1"	2 3/4"	S6	Cand. Screw	Smooth	1"	Friction	2	Screw	Phenolic	Yes	
147-1034	1.75	A	1"	2 3/4"	S6	Cand. Screw	Colored Disc <sup>6</sup>	1"	Friction	2	Screw	Phenolic	Yes	
147-1035	1.65	A	1"	2 1/8"	T4 1/2, NE45	Cand. Screw	Faceted	1"	Friction	2	Screw	Phenolic	Yes	
147-1036	1.65	A	1"	2 1/8"	T4 1/2, NE45	Cand. Screw	Smooth	1"	Friction	2	Screw	Phenolic	Yes	
147-1037	1.75	A	1"	2 1/8"	T4 1/2, NE45	Cand. Screw	Colored Disc <sup>6</sup>	1"	Friction	2	Screw	Phenolic	Yes	
147-1050	1.75	A	1"	2 1/2"	G6	S. C. Cand. Bay.	Faceted	1"	Friction	1	Screw	H. Rubber		
147-1081	1.75	A	1"	2 1/2"	G6	S. C. Cand. Bay.	Smooth	1"	Friction	1	Screw	H. Rubber		
147-1082	1.85	A	1"	2 1/2"	G6	S. C. Cand. Bay.	Colored Disc <sup>6</sup>	1"	Friction	1	Screw	H. Rubber		
147-1083	1.75	A	1"	2 1/2"	G6	D. C. Cand. Bay.	Faceted	1"	Friction	2	Screw	H. Rubber	Yes	
147-1084	1.75	A	1"	2 1/2"	G6	D. C. Cand. Bay.	Smooth	1"	Friction	2	Screw	H. Rubber	Yes	
147-1085	1.85	A	1"	2 1/2"	G6	D. C. Cand. Bay.	Colored Disc <sup>6</sup>	1"	Friction	2	Screw	H. Rubber	Yes	
147-1086	1.75	A	1"	2 3/8"	G6, NE48	D. C. Cand. Bay. <sup>1</sup>	Faceted	1"	Friction	2	Screw	H. Rubber	Yes	
147-1087	1.75	A	1"	2 3/8"	G6, NE48	D. C. Cand. Bay. <sup>1</sup>	Smooth	1"	Friction	2	Screw	H. Rubber	Yes	
147-1088	1.85	A	1"	2 3/8"	G6, NE48	D. C. Cand. Bay. <sup>1</sup>	Colored Disc <sup>6</sup>	1"	Friction	2	Screw	H. Rubber	Yes	
147-1076	2.00	A	1"	2 3/8"	G6, NE48	D. C. Cand. Bay. <sup>2</sup>	Faceted	1"	Friction	2	Screw	H. Rubber	Yes	
147-1077	2.00	A	1"	2 3/8"	G6, NE48	D. C. Cand. Bay. <sup>2</sup>	Smooth	1"	Friction	2	Screw	H. Rubber	Yes	
147-1078	2.10	A	1"	2 3/8"	G6, NE48	D. C. Cand. Bay. <sup>2</sup>	Colored Disc <sup>6</sup>	1"	Friction	2	Screw	H. Rubber	Yes	
147-1110	1.15	E	1 1/8"	1 3/8"	T3 1/4	Min. Bay.	Faceted	3/8"	Threaded	2	Solder	Phenolic		
147-1111	1.15	E	1 1/8"	1 3/8"	T3 1/4	Min. Bay.	Smooth	3/8"	Threaded	2	Solder	Phenolic		
147-1112	1.15	E	1 1/8"	1 3/8"	G3 1/2	Min. Bay.	Faceted	1 1/2"	Threaded	2	Solder	Phenolic		
147-1113	1.15	E	1 1/8"	1 3/8"	G3 1/2	Min. Bay.	Smooth	1 1/2"	Threaded	2	Solder	Phenolic		
147-1142	1.10	F	1 1/8"	1 3/8"	T3 1/4	Min. Bay.	Lucite	5/8"	Threaded	2	Solder	Phenolic	Yes	
147-1143	1.25	F	1 1/8"	1 3/8"	T3 1/4, NES1	Min. Bay. <sup>3</sup>	Lucite	5/8"	Threaded	2	Solder	Phenolic	Yes	
147-1144	1.25	F	1 1/8"	1 3/8"	T3 1/4, NES1	Min. Bay. <sup>4</sup>	Lucite	5/8"	Threaded	2	Solder	Phenolic	Yes	
147-1200	1.65	C	1"	2 3/8"	S6	Cand. Screw	Faceted	1"	Threaded	2	Solder	Porcelain	Yes	
147-1201	1.65	C	1"	2 3/8"	S6	Cand. Screw	Smooth	1"	Threaded	2	Solder	Porcelain	Yes	
147-1202	1.75	C	1"	2 3/8"	S6	Cand. Screw	Colored Disc <sup>6</sup>	1"	Threaded	2	Solder	Porcelain	Yes	
147-1209	1.90	C	1"	2 3/8"	S6	Cand. Screw	Faceted	1"	Threaded	2	Screw	Phenolic	Yes	
147-1210	1.90	C	1"	2 3/8"	S6	Cand. Screw	Smooth	1"	Threaded	2	Screw	Phenolic	Yes	
147-1211	2.00	C	1"	2 3/8"	S6	Cand. Screw	Colored Disc <sup>6</sup>	1"	Threaded	2	Screw	Phenolic	Yes	
147-1212	1.90	C	1"	2 1/8"	T4 1/2, NE45	Cand. Screw	Faceted	1"	Threaded	2	Screw	Phenolic	Yes	
147-1213	1.90	C	1"	2 1/8"	T4 1/2, NE45	Cand. Screw	Smooth	1"	Threaded	2	Screw	Phenolic	Yes	
147-1214	2.00	C	1"	2 1/8"	T4 1/2, NE45	Cand. Screw	Colored Disc <sup>6</sup>	1"	Threaded	2	Screw	Phenolic	Yes	
147-1217	1.90	G	1"	1 1/2"	T4 1/2, NE45	Cand. Screw	Lucite	1"	Threaded	2	Screw	Phenolic	Yes	
147-1218	1.60	G	1"	1 1/2"	T3 1/4, NES1	Min. Bay. <sup>5</sup>	Lucite	1"	Threaded	2	Solder	Phenolic	Yes	
147-1219	2.10	G	1"	2 1/8"	T4 1/2 G6, NE48	D. C. Cand. Bay. <sup>1</sup>	Lucite	1"	Threaded	2	Screw	H. Rubber	Yes	
147-1220	2.25	G	1"	2 1/8"	T4 1/2 G6, NE48	D. C. Cand. Bay. <sup>2</sup>	Lucite	1"	Threaded	2	Screw	H. Rubber	Yes	
147-1600	2.00	D	1"	2 1/8"	S6	Cand. Screw	Glass	1 1/8"	Threaded	2	Screw	Phenolic	Yes	
147-1604	2.00	D	1"	1 3/8"	G6	S. C. Cand. Bay.	Glass	1 1/8"	Threaded	1	Screw	H. Rubber		
147-1605	2.00	D	1"	1 3/8"	G6	D. C. Cand. Bay.	Glass	1 1/8"	Threaded	2	Screw	H. Rubber	Yes	

(1) Requires 30,000 ohm external resistor with NE48.  
 (2) Has built in 30,000 ohm resistor for NE48.  
 (3) Has built in 200,000 ohm resistor for NE51.  
 (4) Has built in 100,000 ohm resistor for NE51, brighter glow but decreased life.  
 (5) Requires 200,000 ohm external resistor for NE51.  
 (6) See "Colored Disc" explanation at right.  
 (7) Max. length from front of panel.

\* **COLORED DISCS**—Where this designation (\*) appears, a colored plastic disc is placed behind a clear sandblasted (frosted) smooth jewel, to conceal color until lighted. Also prevents external light from giving appearance of bulb being lighted.

In addition, lettering, numerals, or insignia may be printed on a plastic disc back of the jewel, and arranged to be visible either continuously or only after lamp is lighted.

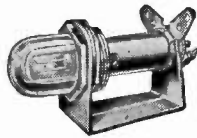
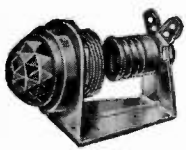
SPECIFY COLOR: RED, GREEN, AMBER, BLUE, OPAL, CLEAR. FOR NEON DO NOT USE BLUE, GREEN, OPAL



# E. F. JOHNSON Company

WASECA, MINNESOTA

## BRACKET TYPE PILOT LIGHTS AND JEWEL ASSEMBLIES



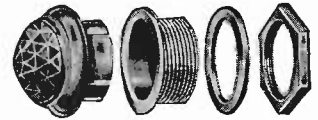
H

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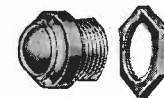
### JEWEL ASSEMBLIES



Colors, all types: Red, Green, Amber, Blue, Opal, Clear.

One-inch jewel, polished chrome bezel, with mounting sleeve to fit 1-inch hole, fiber washer and nut.

Cat. No.	List Price
147-110—Faceted Jewel	\$.70
147-111—Smooth Jewel	.70
147-112—Colored Disc*	.80



5/8-inch jewel in polished chrome holder, fits 1/2-inch mounting hole.

147-210—Faceted Jewel	\$.40
147-211—Smooth Jewel	.40

1/2-inch jewel, nickel-plated holder and nut, fits 3/8-inch mounting hole.

147-310—Faceted Jewel	\$.25
147-311—Smooth Jewel	.25

3/8-inch jewel, nickel-plated holder and nut, fits 3/8-inch mounting hole.

147-510—Faceted Jewel	\$.20
147-511—Smooth Jewel	.20



1/2-inch jewel, nickel-plated, threaded holder and mounting sleeve to fit 1/2-inch hole.

147-410—Faceted Jewel	\$.40
147-411—Smooth Jewel	.40

### SPECIAL TYPES

JOHNSON manufactures a complete line of bracket-type pilot lights and jewel assemblies. Illustrated are only a few of the more popular types. JOHNSON can readily fill your requirements for any type, regardless of specifications.

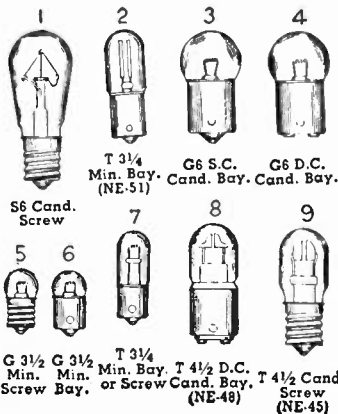
Cat. No.	List Price	Illustration	Mounting		Bulb (1)	Jewel			
			Hole Behind	Lgh. Panel		Shape	Base	Type	Size
147-100	\$0.80	H	1"	1 1/2"	G3 1/2, T3 1/4	Min. Scr.	Faceted (4)	1"	S
147-101	.80	H	1"	1 1/2"	G3 1/2, T3 1/4	Min. Scr.	Smooth (4)	1"	P
147-103	.85	H	1"	2 1/8"	S6	Cand. Scr.	Faceted (4)	1"	E
147-104	.85	H	1"	2 1/8"	S6	Cand. Scr.	Smooth (4)	1"	C
147-106	.85	H	1"	1 1/2"	G3 1/2, T3 1/4	Min. Bay.	Faceted (4)	1"	I
147-107	.85	H	1"	1 1/2"	G3 1/2, T3 1/4	Min. Bay.	Smooth (4)	1"	F
147-200	.60	I	1 1/8"	1 1/4"	G3 1/2	Min. Scr.	Faceted	5/8"	Y
147-201	.60	I	1 1/8"	1 1/4"	G3 1/2	Min. Scr.	Smooth	5/8"	
147-203	.65	I	1 1/8"	1 1/4"	S6	Cand. Scr.	Faceted	5/8"	C
147-204	.65	I	1 1/8"	1 1/4"	S6	Cand. Scr.	Smooth	5/8"	O
147-206	.65	I	1 1/8"	1"	G3 1/2	Min. Bay.	Faceted	5/8"	L
147-207	.65	I	1 1/8"	1"	G3 1/2	Min. Bay.	Smooth	5/8"	O
147-300	.40	I	7/8"	1 1/4"	G3 1/2	Min. Scr.	Faceted	1/2"	R
147-301	.40	I	7/8"	1 1/4"	G3 1/2	Min. Scr.	Smooth	1/2"	
147-303	.45	I	7/8"	1 1/4"	S6	Cand. Scr.	Faceted	1/2"	Clear
147-304	.45	I	7/8"	1 1/4"	S6	Cand. Scr.	Smooth	1/2"	Red
147-306	.45	I	7/8"	1"	G3 1/2	Min. Bay.	Faceted	1/2"	Green
147-307	.45	I	7/8"	1"	G3 1/2	Min. Bay.	Smooth	1/2"	Amber
147-400	.55	J	1 1/8"	1 1/4"	G3 1/2, T3 1/4	Min. Scr.	Faceted (4)	1/2"	Blue
147-401	.55	J	1 1/8"	1 1/4"	G3 1/2, T3 1/4	Min. Scr.	Smooth (4)	1/2"	Opal
147-403	.60	J	1 1/8"	1 1/2"	G3 1/2, T3 1/4	Min. Bay.	Faceted (4)	1/2"	
147-404	.60	J	1 1/8"	1 1/2"	G3 1/2, T3 1/4	Min. Bay.	Smooth (4)	1/2"	
147-406	.55	K	1 1/8"	1 1/4"	T3 1/4	Min. Bay.	Lucite (4)	5/8"	For
147-407	.70	K	1 1/8"	1 1/4"	T3 1/4, NE51	Min. Bay. (2)	Lucite (4)	5/8"	Neon
147-408	.70	K	1 1/8"	1 1/4"	T3 1/4, NE51	Min. Bay. (3)	Lucite (4)	5/8"	DO NOT
147-700	.60	H	1 1/8"	1 1/4"	G-3 1/2	Min. Scr.	Faceted	5/8"	Use:
147-701	.60	H	1 1/8"	1 1/4"	G-3 1/2	Min. Scr.	Smooth	5/8"	Blue
147-703	.65	H	1 1/8"	1 1/2"	G-3 1/2	Min. Bay.	Faceted	5/8"	Green
147-704	.65	H	1 1/8"	1 1/2"	G-3 1/2	Min. Bay.	Smooth	5/8"	Opal

- (1) See bulb and base illustrations below.
- (2) With 200,000-ohm built-in resistor for NE51.
- (3) With 100,000-ohm resistor. Brighter glow reduced lamp life.
- (4) Bulb removable from front of panel.

\* See page G-21 for explanation.

### BULB SPECIFICATIONS

Bulbs used on all pilot lights may be identified from these illustrations, but are not included in prices.



S6 Cand. Screw

T 3/4 Min. Bay. (NE-51)

G6 S.C. Cand. Bay.

G6 D.C. Cand. Bay.

G 3 1/2 Min. Screw

G 3 1/2 Min. Screw

T 3/4 Min. Bay. or Screw

T 4 1/2 D.C. Cand. Bay. (NE-48)

T 4 1/2 Cand. Screw (NE-45)

### PANEL LIGHT

For front panel illumination. Has polished nickel hood, easily removable for lamp replacement; can be rotated to any position. Fits 1/2" mounting hole. Made for miniature bayonet or screw base, T 3/4 or G 3 1/2, bulbs.



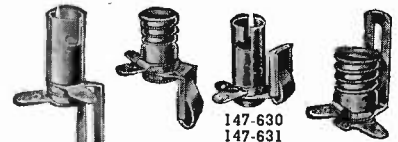
Cat. No.	List Price
147-330—Miniature Screw Base	\$.80
147-329—Miniature Bayonet Base	.90

### VARIABLE LIGHT INTENSITY

Pilot lights similar to 147-400, -800, -1110, -1200 can be furnished with either polarized or shutter type variable light intensity jewel holders. Information on request.

### DIAL LIGHT BRACKETS

Brackets insulated on all types. Many other styles and combinations can be furnished from available tools, also with wire leads.



147-610  
147-611

147-640  
147-641

147-630  
147-631

147-600  
147-620  
147-601  
147-621

Cat. No.	Socket	List Price
147-600	Min. Screw (Bracket Down)	\$.13
147-601	Min. Screw (Bracket Up)	.13
147-610	Min. Bay. (Bracket Down)	.16
147-611	Min. Bay. (Bracket Up)	.16
147-620	Cand. Screw (Bracket Down)	.16
147-621	Cand. Screw (Bracket Up)	.16
147-630	Min. Bay. (Bracket Down)	.17
147-631	Min. Bay. (Bracket Up)	.17
147-640	Min. Screw (Bracket Down)	.14
147-641	Min. Screw (Bracket Up)	.14

DO NOT FAIL TO SPECIFY COLOR OF JEWELS. PRICES DO NOT INCLUDE BULBS.

# GENERAL ELECTRIC

## RADIO DIAL LAMPS

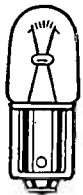
Designed and engineered for the job

**B**ECAUSE of the vibration conditions under which G-E radio dial lights must operate, General Electric devotes special care to their design and manufacture. Filaments are designed to vibrate without damage and are secured by a shake-proof joint.

General Electric research is constantly at work to assure the quality and serviceability of G-E radio dial lamps. Shock tests, vibration tests and base torsion tests are used in the laboratory to make certain your customers will get good service from the G-E bulbs you install.

Features like these make it worthwhile for you to sell and install G-E miniature lamps:

1. Dependable, trouble-free performance.
2. High level of maintained light output.
3. Low current consumption.
4. Long life.
5. Profitable to handle.
6. Preferred by both dealers and customers.



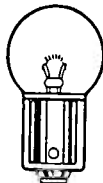
T-3/4  
Miniature  
Bayonet



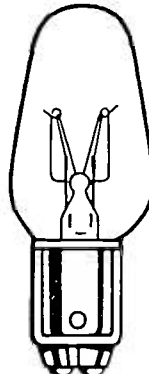
T-3/4  
Miniature  
Screw



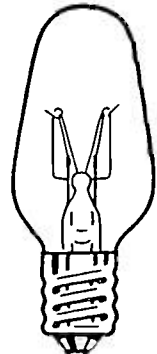
G-3 1/2  
Miniature  
Bayonet



G-4 1/2  
Miniature  
Bayonet



C-7  
Double-Contact  
Bayonet



C-7  
Candelabra  
Screw

### SPECIFICATIONS AND PRICES

Lamp Number	40	41	42	43	*44	45	*46	*47	48	49	51	55	*1490	10C7	10C7DC
Volts	6-8	2.5	3.2	2.5	6-8	3.2	6-8	6-8	2	2	7.5	7.0	3.2	115-25	115-25
Amps	0.15	0.50	0.35	0.50	0.25	0.35	0.25	0.15	0.06	0.06	Max.0.25	Max.0.45	0.16	10 watts	10 watts
#Bulb	T-3/4	T-3/4	T-3/4	T-3/4	T-3/4	T-3/4	T-3/4	T-3/4	T-3/4	T-3/4	G-3 1/2	G-4 1/2	T-3/4	C-7	C-7
Base	Min. Screw	Min. Screw	Min. Screw	Min. Bay.	Min. Bay.	Min. Bay.	Min. Screw	Min. Bay.	Min. Screw	Min. Bay.	Min. Bay.	Min. Bay.	Min. Bay.	Cand. Screw	D.C. Bay.
Bead Color	Brown	White		White	Blue		Blue	Brown	Pink						
Price	\$0.10T	\$0.10T	\$0.12T	\$0.10T	\$0.10T	\$0.12T	\$0.10T	\$0.10T	\$0.15T	\$0.15T	\$0.09V	\$0.09V	\$0.11T	\$0.15T	\$0.22T

# Bulbs are designated by a letter to indicate shape and a figure to indicate the approximate diameter in eighths of an inch.

\* Most popular types.

T After price indicates Federal Excise Tax will be billed as a separate item at 6.3% of list price.

V After price indicates Federal Excise Tax will be billed as a separate item at 1.6% of list price.

## GENERAL ELECTRIC

### LAMP DEPARTMENT DISTRICT OFFICES

Atlanta 3, Ga.	187 Spring St., N. W.	WAlnut 9767	N. Kansas City 16, Mo.	200-210 E. 16th Ave.	NOrcley 3568
Boston 10, Mass.	50 High St.	HANcock 1680	Los Angeles 13, Cal.	601 W. Fifth St.	MIchigan 8851
Buffalo 2, N. Y.	1 West Genesee St.	Cleveland 3400	Minneapolis 13, Minn.	500 Stinson Blvd.	GRanville 7286
Charlotte 2, N. C.	516 Johnston Bldg.	4-8614	New York 22, N. Y.	570 Lexington Ave.	Wickersham 2-6300
Chicago 4, Illinois	230 So. Clark St.	DEArborn 2-4712	Oakland 7, Cal.	1614 Campbell St.	HIghgate 7340
Cincinnati 2, Ohio	738-9 Union Trust Bldg.	DUNbar 2460	Philadelphia 2, Pa.	1405 Locust Street	Kingsley 5-3336
Cleveland 14, Ohio	1320 Williamson Bldg.	CHerry 1010	Pittsburgh 22, Pa.	535 Smithfield St.	GRant 3272
Dallas 2, Texas	1801 N. Lamar St.	CEntral 7711	Portland 9, Oregon	1238 N.W. Gilson St.	BEacon 2101
Denver 2, Colorado	1863 Wazee St.	MAin 6141	St. Louis 1, Mo.	710 N. Twelfth Blvd.	CHestnut 8920
Detroit 26, Michigan	1400 Book Tower	WOodward 3-6910	General Office: Nela Park, Cleveland 12, Ohio.	Glenville 6600	



# BUSS Fuses

## FUSETRON DUAL-ELEMENT Fuses and Fuse Holders

*for Protection of Radios, Instruments and Electronic Equipment*

### FAST ACTING FUSES for PROTECTION OF INSTRUMENTS, Etc.



Formerly called 8AG.  
Dimension  $\frac{1}{4}$  x 1 inch, Glass tube.

Provide high speed action necessary to protect sensitive instruments.

Test specification—carry 100%, open at 200% in 5 seconds.

Listed as approved by Underwriters' Laboratories.

Voltage	Symbol	Amperes	List Price
250 or less	<b>MJB</b>	$\frac{1}{5}00$	\$0.70
"	<b>MJB</b>	$\frac{1}{2}00$	.30
"	<b>MJB</b>	$\frac{1}{1}00$ or $\frac{1}{3}2$	.20
"	<b>MJB</b>	$\frac{1}{16}$	.15



Formerly called 8AG  
Dimension  $\frac{1}{4}$  x 1 inch, Glass tube.

Provide high speed action necessary to protect instruments.

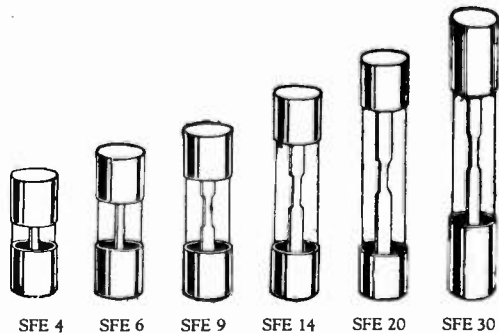
Test specification—carry 100%, open at 200% in 5 seconds.

Listed as approved by Underwriters' Laboratories.

Voltage	Symbol	Amperes	List Price
250 or less	<b>AGX</b>	$\frac{1}{8}$	\$0.15
"	<b>AGX</b>	$\frac{1}{4}$ , $\frac{3}{8}$ or $\frac{1}{2}$	.12
125 or less	<b>AGX</b>	$\frac{3}{4}$	.12
"	<b>AGX</b>	1, $1\frac{1}{2}$ or 2	.10

### BUSS FUSES — SFE STANDARD

All cuts actual size. Fuses of different amperages are of different lengths — to make it impossible to insert too large a size — thereby preventing over-fuseing.



Glass tube — diameter  $\frac{1}{4}$  inch. Length as per table below.

Test specification—carry 100%, open at 125% in  $\frac{1}{2}$  hour.

Listed as approved by Underwriters' Laboratories.

Made according to specifications of Society of Automotive Engineers.

Voltage	Symbol & Amperes	Length Inches	Pounds per 100	List Price
32 or less	<b>SFE 4</b>	$\frac{5}{8}$	.70	\$0.05
"	<b>SFE 6</b>	$\frac{3}{4}$	.71	.05
"	<b>SFE 9</b>	$\frac{7}{8}$	.72	.04
"	<b>SFE 14</b>	$1\frac{1}{16}$	.77	.04
"	<b>SFE 20</b>	$1\frac{1}{4}$	.83	.035
"	<b>SFE 30</b>	$1\frac{1}{8}$	1.05	.06

### BUSS GLASS TUBE FUSES, $\frac{1}{4}$ x $1\frac{1}{4}$ inch



AGC and MTH 4, 5 and 6



MTH 8

Formerly called 3AG

Test specification—carry 110%, open at 135% in 1 hour.

Listed as approved by Underwriters' Laboratories.

Shipping weight 0.8 lbs. per 100.

Voltage	Symbol	Amperes	List Price
250 or less	<b>AGC</b>	$\frac{1}{8}$ , $\frac{1}{4}$ , $\frac{3}{8}$ , $\frac{1}{2}$ or $\frac{3}{4}$	\$0.15
"	<b>AGC</b>	1, $1\frac{1}{2}$ , 2 or 3	.07
"	<b>MTH</b>	4, 5 or 6	.10
"	<b>MTH</b>	8	.15



Formerly called 3AG

Test specification—carry 110%, open at 135% in 1 hour.

Shipping weight 0.8 lbs. per 100.

Voltage	Symbol	Amperes	List Price
32 or less	<b>AGC</b>	5, 6 or $7\frac{1}{2}$	\$0.05
"	<b>AGC</b>	10 or 15,	.04
"	<b>AGC</b>	25 or 30,	.05

20 ampere size is an SFE 20 fuse. Sizes larger than 30 ampere are not recommended as clips or fuse holders would not permit fuse to carry such high currents. If surges or starting currents make heavier fuse necessary, use MDL Fuse-tron dual-element fuses.

### BUSS BAKELITE TUBE FUSES, $\frac{1}{4}$ x $1\frac{1}{4}$ inch



Formerly called 3AB

Test specification—carry 110%, open at 135% in 1 hour.

Shipping weight 1 lb. per 100.

Voltage	Symbol	Amperes	List Price
250 or less	<b>ABC</b>	10, 12 or 15	\$0.15

### FUSETRON FUSES, $\frac{1}{4}$ x $1\frac{1}{4}$ inch

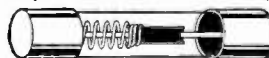
Glass tube — Dual-Element type



$\frac{1}{100}$  and  $\frac{1}{32}$  amp.



$\frac{1}{16}$  to 2 amp.



$2\frac{1}{2}$  to 30 amp.

#### A FUSE WITH A LONG TIME-LAG

These fuses avoid needless blows from starting currents or surges. They have a fuse link which operates only on very high overloads or short-circuits — they have a thermal cutout which functions on low overloads — the thermal cutout cannot operate quickly at any load, hence long time-lag is obtained. Yet protection is afforded against short-circuits or continued overloads.

Test specification—carry 110%, open at 135% in 1 hour.

Approximate blowing time: at 200% load 25 seconds  
at 300% " 8 "  
at 500% " 3 "

125 and 250 volt sizes listed as approved by Underwriters' Laboratories.

Shipping weight 0.9 lbs. per 100.

Voltage	Symbol	Amperes	List Price
250 or less	<b>MDL</b>	$\frac{1}{100}$ , $\frac{1}{32}$ , $\frac{1}{16}$ , $\frac{1}{10}$ , $1\frac{1}{100}$ , $\frac{2}{10}$ , $\frac{3}{10}$ , $\frac{4}{10}$ , $\frac{1}{2}$ , $\frac{3}{10}$ , $\frac{4}{10}$ or 1	\$0.25
125 or less	<b>MDL</b>	$1\frac{1}{4}$ , $1\frac{1}{10}$ , 2, $2\frac{1}{2}$	.20
32 or less	<b>MDL</b>	$3\frac{1}{10}$ , 4, 5, $6\frac{1}{4}$ , 8, 10, 15, 20, 25 or 30	.20

# BUSS Fuses

## FUSETRON DUAL-ELEMENT Fuses and Fuse Holders

*for Protection of Radios, Instruments and Electronic Equipment*

### BUSS FUSE CLIPS for 1/4 inch Fuses

(SFE4, 6, 9, 14, 20, AGX, AGC, ABC, MDL, MJB, MTH fuses)



Spring bronze clips are made of Herculoy — a bronze of distinctly superior quality for spring clips. This metal gives clips great gripping strength and ability to retain spring under adverse conditions.

Beryllium copper clips combine low electrical resistance with great gripping strength. This means maximum electrical conductivity and results in cooler operation of clips and fuse.

Size of mounting hole; .130 to .135 inch.  
Center of hole to back-stop; .125 to .135 inch.  
Min. length of contact surface; 5/32 inch  
Maximum height; 1 1/32 inch  
Maximum width; 1 1/32 inch  
Shipping weight; 3 lbs. per 100

4548 Spring bronze clip, Nickel plated. List Price \$0.02  
4592 Beryllium copper clip, Silver plated. .05

### BUSS CLIP ASSEMBLIES for 1/4 inch Fuses

(SFE4, 6, 9, 14, 20, AGX, AGC, ABC, MDL, MJB, MTH fuses)

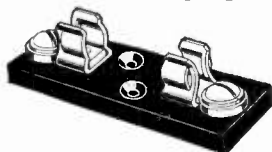


Clips as described above. Brass terminal. 3/16 inch 6-32 washer head terminal screw. 1/4 inch 4-40 flat head iron mounting screw. Shipping weight; 1 lb. per 100

4431 includes No. 4548 spring bronze clip, terminal screw, terminal and mounting screw. List Price \$0.40  
4432 includes No. 4592 beryllium copper clip, terminal screw, terminal and mounting screw. List Price \$0.40

### BUSS FUSE BLOCKS

Bakelite base blocks 3/16 inch thick. Countersunk mounting holes for No. 6 flat head screws. Brass No. 6 terminal screws. No. 4548 spring bronze clips.



**Full base, Screw terminal Blocks**

For Fuses	One Pole	List Price	Two Pole	List Price	Three Pole	List Price
SFE4	4511	\$0.35	4521	\$0.70	4531	\$1.00
SFE6	4516	.35	4526	.70	4536	1.00
SFE9	4517	.35	4527	.70	4537	1.00
SFE14, AGX, MJB	4514	.35	4524	.70	4534	1.00
SFE20, ABC, AGC, MDL, MTH	4512	.35	4522	.70	4532	1.00



**Small base, Solder Terminal Blocks**

For Fuses	One Pole	List Price	Two Pole	List Price	Three Pole	List Price
SFE14, AGX, MJB	4520	\$0.15	4485	\$0.30	4403	\$0.45
SFE20, ABC, AGC, MDL, MTH	4405	.15	4408	.30	4411	.45

### Other standard fuse blocks and special fuse blocks

If blocks shown do not fit your requirements ask for information on other standard types and sizes.

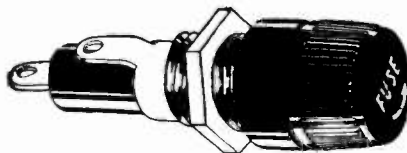
If special fuse block is required, send description or sketch, showing type of fuse to be used, number of circuits, type of terminals, etc. We welcome such inquiries.

### BUSS FUSE HOLDERS

Make it convenient to mount fuse on any equipment. Changing or inspection of fuse is easy and quick. Holder has removable knob. Fuse projects beyond body of holder and is not held tight on other end when knob is removed.

Fuse and contacts are protected from dirt and fumes. Good contact on fuse is made certain by strong coil spring pressure. Poor contact heating that often causes fuse to burn needlessly is eliminated.

Holder bodies are made of black bakelite. All current carrying parts are of brass or copper. Terminals and all contact parts are bright alloy plated.



### Panel Mounted Holders for 1/4 inch Fuses

Holders are inserted through hole in panel and are locked in place by nut on holder. They can be used on panels up to 5/16 inch thick.

Bayonet type knob requires only quarter turn to remove fuse. No screw driver is needed.

Side terminal is held mechanically as well as by solder. Heat of soldering wire to it will not cause it to loosen or come off.

Vibration will not cause failure of terminals as they are designed to stand severe service.

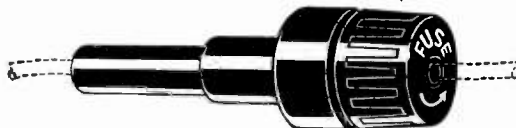
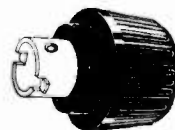
Neoprene washer and steel locking nut (zinc plated, chromate dipped) furnished with each holder.

Wire hole in terminals; .115 inch.

Normal current carrying capacity; 15 amperes.

Listed as Approved by Underwriters' Laboratories.

Shipping weight; 4 lbs. per 100 List Price  
HJM for 1/4 x 1 inch fuses (AGX, MJB, SFE 14) \$0.40  
HKP for 1/4 x 1 1/4 inch fuses (ABC, AGC, SFE20, MDL, MTH) .40



### IN-THE-LINE HOLDERS for 1/4 inch fuses

These holders are for mounting fuse in wire. Holders consist of body and bayonet type knob — two terminal contacts ready to be crimped on ends of wire — a pressure spring that is used under contact in base of holder.

Holders can also be mounted in panel up to 5/16 inch thick by means of a No. C-1437-018-27 Tinnerman nut (Nut not furnished). Flat spot on holder permits it to be locked against rotation.

Normal current carrying capacity: 15 amperes.

Shipping weight, holders: 4 lbs. per 100.

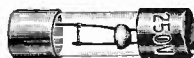
Type	List Price
HDI for 1/4 x 1 inch fuses (AGX, MJB, SFE 14) Takes No. 18 or smaller wires.	\$0.20
HDI-A for 1/4 x 1 1/4 inch fuses (ABC, AGC, MDL, MTH, SFE 20) Takes No. 18 or smaller wires.	.20
HDI-B for 1/4 x 1 1/4 inch fuses (as above) Takes No. 14 or 16 wires.	.20

# LITTELFUSE

"Quicker than a Short Circuit"

## 3AG INSTRUMENT high speed LITTELFUSES

Locked Cap Assembly and other exclusive Littelfuse features for protection of delicate test equipment, galvanometers, microammeters, milliammeters, voltmeters, etc. Glass-enclosed: 1 x 1/4" dia., accurately rated, high speed action, short time lag. Voltage ratings up to 250 V., AC or DC. For higher voltages use fuses in series.



Catalog No.	Former No.	Amp. Rating	Max. Volt.	Ohms Res. @ 5 m.a.	APPLICATIONS			List Price Ea.
					Volt-meters Ohms P.V.	All Magnetic Movement Milliammeters	Thermo-couples	
361.005	1000	1/200	250	480.	Over 1000	Galvanometers	Up to 0-5	\$0.30
361.010	1001	1/100	250	160.0	1000	Up to 0-1	0-5 to 0-10	.20
361.031	1002	1/50	250	40.0	500-100	0-1 to 0-10	0-10 to 0-25	.20
361.062	1003	1/25	250	5.0	100-500	0-10 to 0-25	0-25 to 0-60	.15
361.125	1004	1/10	250	2.0	20-100	0-25 to 0-75	0-75 to 0-150	.15
361.250	1005	1/5	250	3.5	10-20	0-75 to 0-150	0-115 to 0-200	.15
361.375	1006	3/8	250	3.0	5-10	0-150 to 0-250	0-200 to 0-300	.15
361.500	1007	1/2	250	2.0	3-5	0-250 to 0-350	0-300 to 0-400	.15
361.750	1007-A	3/4	250	2.0		0-350 to 0-500	0-400 to 0-600	.15
361001.	1008	1	250	.24		0-500 to 0-750	0-600 to 0-1000	.10
36101.5	1008-A	1 1/2	250	.13		0-750 to 0-1000	0-1000 to 0-1500	.10
361002.	1009	2	250	.10		0-1000 to 0-1500	0-1500 to 0-2000	.10
361003.		3	32	.043		0-1500 to 0-2000	0-2000 to 0-3000	.10
361005.		5	32	.030		0-2000 to 0-4000	0-3000 to 0-6000	.10

## UNDERWRITERS' APPROVED 3 AG "LITTELFUSES"—250 Volts



"SLO-BLO"—thru 1/4 Amp. STANDARD—1/2 to 3 Amp. SLEEVE TYPE—4 to 8 Amp.

Littelfuse is the first manufacturer to receive Underwriters' approval of 3 AG fuses (1/4" x 1/4" dia.) in current ratings over 3 amps. at 250 volts. Following list gives standard approved ratings carried in stock. However, the Underwriters' approval to Littelfuse is a blanket approval from 1/4 to 6 amps. Intermediate ratings can be furnished without separate approval, at a small extra charge. Littelfuse name, the amperage and

voltage rating must appear on the fuse caps of approved-fuses. Many new fields are opened up by the extension of approval from 3 to 6 amps., where formerly bulky cartridges or plug fuses and their mountings were used. This applies specially to electrical appliances, heavy duty power supplies, amplifiers, radios, communication equipment, electronic devices, motors, etc.

Cat. No.	Former No.	Amp. Rating	Ohms Res.	List Price, Each
313.010*	1259	1/100	33.50	\$0.25
313.032*	1261	1/50	3.90	.25
313.062	1262	1/25	90	.25
313.125	1263	1/10	29	.25
313.187	1263-A	1/5	20	.25
313.250	1264	3/4	9.6	.25

### Ratings thru 1/4 Ampere—250 Volts

"Slo-Blo" fuses with high time lag—for circuits with equipment having high inductive or capacitive surges, heavy starting currents and intermittent-duty circuits. Anti-fatigue construction—compound element with spring and resistor.

Cat. No.	Former No.	Amp. Rating	Ohms Res.	List Price, Each
312.500	1046	1/2	3.1	\$0.15
312.750	1047	3/4	1.9	.15
312001.	1040	1	.24	.07
31201.5	1041	1 1/2	.15	.07
312002.	1042	2	.10	.07
312003.	1043	3	.06	.07

### Ratings 1/2 thru 3 Amp.—250 Volts

Quick-acting Standard Littelfuses with low time lag. Protective-coated elements prevent oxidation, promote clean fusion break. Diagonal element for accurate alignment, calibration.

Cat. No.	Former No.	Amp. Rating	Ohms Res.	List Price, Each
312004.	1357	4	.046	\$0.10
312005.	1358	5	.034	.10
312006.	1359	6	.030	.10

Std. Pkg. 100, wt., 1 1/2 lbs.

### 3 AB "LITTELFUSES"—250 Volts



Smallest, highest rated Underwriters' Laboratory approved fuses made. Bakelite-enclosed, arc-quenching, powder-filled fuses. Medium time lag.

### Ratings 4 thru 6 Amp.—250 Volts

Standard, quick-acting Littelfuses with diagonal elements. Low time lag—quick-acting.

Std. Pkg. 100—wt., 1 1/2 lbs.

\*Not Und. Approved.

Catalog No.	Former No.	Amp. Rating	List Price, Each
314008		8	\$0.15
314010	32155	10	.15
314012	32156	12	.15
314015	32159	15	.15
314020	32160	20	.15

## METER BACK MOUNTING



Cat. No. 383002 (1059)—Mounts directly on meter binding post. Will not touch other posts on smallest standard meter. Linen bakelite base, 1" x 1 1/8". Length over screw terminal, 1 1/4". Std. Pkg. 20. Wgt. 1/2 lb. List Price Each.....\$0.20

## FUSE MOUNTINGS (3AG)

### Hinged Cover Type

(Meets Underwriters' Requirements)

Cover fibre-lined. Metal shielded cover hinged to bakelite base. Terminal mounting extends through insulated base. Nut lightly staked to cover to prevent loss. Requires 1 5/8" x 1 1/8" knockout hole in panel.



Two 0-32" x 3/16" mounting studs at 2 1/8" centers. Base 2 1/2" x 1 1/4". 3/4" high above panel. Std. Pkg. 20.

Cat. No. List Price Each  
351009 (1237A)—Double Pole .....\$0.75  
351005 (1379)—Single Pole ..... .50

## NEON TESTERS

Low Voltage tester (illustrated) for 5 to 50 V AC or DC. For automotive, heating and vent., telephone, aircraft, battery service, radio service (low volt. filament circuits, "A" batteries), for testing polarity. Ten-inch leads with alligator clips. Full directions.



No. 202002 Low Volt. Tattelite tester (5420).

List Price, Each \$1.50



High Voltage "Tattelite" tester (not shown) 60-500V AC, 90-500V DC. Molded casings, insulated test prods—unusually sensitive. For testing live lines, polarity, for detecting blown fuses, open circuits, grounded wires, approximate voltage (110, 220, 440, etc.). Detailed instructions.

No. 201002 High Volt. Tattelite tester (5076)

List Price, Each \$1.00

## "POST-LITE"



Neon indicating light for radio, television, radar control panels and other electrical equipment. For 65-130V AC, 90-130V DC. For 230V, 100,000 Ohm resistor may be added. Molded, clear plastic—head, 5/8" square, overall length 2 1/4". Under panel length 1 1/2" — 1/2" clearance hole. Wt. 11 gms. Std. pkg.—100.

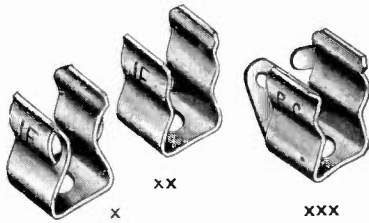
No. 201005 Post-Lite—

List Price, Each \$0.80

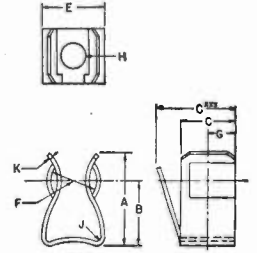


# LITTELFUSE "Quicker than a Short Circuit"

## LITTELFUSE BERYLLIUM COPPER AND PHOSPHOR BRONZE FUSE CLIPS



Littelfuse fuse clips are available in three standard styles: "X," with "ears" or fuse stops; "XX," earless; and "XXX," "Lug-Clips," a new Littelfuse clip having a lug or solder terminal made as an integral part of the clip. All styles are furnished in either Phosphor-Bronze or Beryllium Copper.



Catalog Number	Former Number	Fuse Adaptation	Type	DIMENSIONS								Unit Wt. grams	Std. Pkg. 100 Wt.—lbs.	List Price Each
				A	B	C	E	F	G	H				

### BERYLLIUM COPPER CLIPS SILVER PLATED—WITH FUSE STOP "EARS"

121001	1216B	SFE, 3AG & 8AG Fuses	X	29/64	1/4	5/16	11/32	1/4	5/32	.131	1	1	\$0.05
123001	1217B	4AG & 4AB Fuses	X	9/16	3/8	15/32	.385	7/32	3/16	.171	1.6	1	.08
125001	1218B	5AG, Hi-Voltage-Midget	X	3/4	1/2	7/16	15/32	15/32	7/32	.196	3	2	.15
127001	1219	N.E.C.-30 Fuses	X	13/16	9/16	19/32	5/8	9/16	1/4	.203	5.5	2	.18
129001	1221	Standard Hi-Voltage	X	1 1/32	15/16	7/8	.750	15/16	5/16	.265	14.5	4	.40

### SILVER PLATED—EARLESS TYPE

121002	1417	SFE, 3AG & AB, & 8AG	XX	29/64	1/4	5/16	11/32	1/4	5/32	.131	1	1	.05
123002	1437	4AG & 4AB	XX	9/16	3/8	15/32	.385	7/32	3/16	.171	1.6	1	.08
125002		5AG, Hi-Voltage-Midget	XX	3/4	1/2	7/16	15/32	15/32	7/32	.196	3	2	.15
127002	1475	N.E.C.-30 Fuses	XX	13/16	9/16	19/32	5/8	9/16	1/4	.203	5.5	2	.18
129002	1476	Standard Hi-Voltage	XX	1 1/32	15/16	7/8	.750	15/16	5/16	.265	14.5	4	.40

### SILVER PLATED—"LUG-CLIP"—SOLDER TERMINAL ATTACHED

121004	New	SFE, 3AG, AB, & 8AG	XXX	29/64	1/4	37/64	11/32	1/4	5/32	.131	1.2	1	.08
123004	New	4AG Fuses	XXX	9/16	3/8	19/32	.385	7/32	3/16	.171	1.7	1	.12
125004	New	5AG & Midget Fuse	XXX	3/4	1/2	15/32	15/32	15/32	7/32	.196	3.5	2	.20

### PHOSPHOR BRONZE CLIPS

#### BURNISHED NICKEL PLATE—WITH FUSE STOP "EARS"

101001	1011B	SFE, 3AG & AB, & 8AG	X	29/64	1/4	5/16	11/32	1/4	5/32	.131	1	1	.02
103001	1319	4AG & 4AB	X	9/16	3/8	15/32	.385	7/32	3/16	.173	1.7	1	.04
105001	2048	5AG, Hi-Voltage-Midget	X	3/4	1/2	7/16	15/32	15/32	7/32	.196	3.2	2	.05
107001	5048	N.E.C.-30 Fuses	X	13/16	9/16	19/32	5/8	9/16	1/4	.203	5.8	2	.06
109001	1463	Standard Hi-Voltage	X	1 1/32	15/16	7/8	.750	15/16	5/16	.265	15.6	4	.16

#### BURNISHED NICKEL PLATE—EARLESS TYPE

101002	125-2	1AG, 3AG & AB, 7AG & 8 AG	XX	29/64	1/4	5/16	11/32	1/4	5/32	.131	1	1	.02
104002		4AG & 4AB	XX	9/16	3/8	15/32	.385	7/32	3/16	.173	1.7	1	.04
105002	2049B	5AG, Hi-Voltage-Midget	XX	3/4	1/2	7/16	15/32	15/32	7/32	.196	3.2	2	.05
107002	SP-178	N.E.C. Bantam Fuses	XX	13/16	9/16	19/32	5/8	9/16	1/4	.203	5.8	2	.06

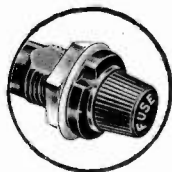
#### BRIGHT-DIP PHOSPHOR BRONZE—"LUG CLIP" SOLDER TERMINAL ATTACHED

101003		1AG, 3AG & AB, 7AG & 8AG	XXX	29/64	1/4	37/64	11/32	1/4	5/32	.131	1.2	1	.03
103003		4AG & 4AB	XXX	9/16	3/8	19/32	.385	7/32	3/16	.171	1.7	1	.05
105003		5AG, Hi-Voltage-Midget	XXX	3/4	1/2	15/32	15/32	15/32	7/32	.196	3.5	2	.08

## "LITTELFUSE"

### FUSE EXTRACTOR POSTS

Quicker, safer method for mounting and changing fuses. Held in end of removable knob, fuse is easily replaced by unscrewing knob. Available with finger-operated knob, screw driver slot knob, and finger operated with keep chain.



Finger Operated Knob



341001

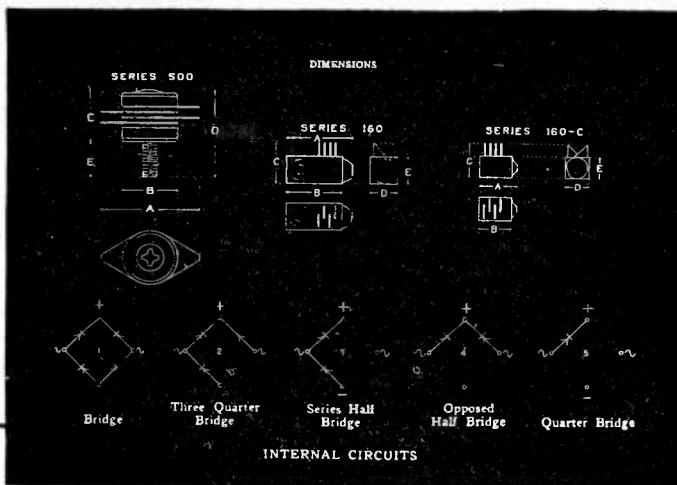
Catalog No.	Former No.	Descr.—Knob, How Operated	Mtg. Hole	Length Under Panel	Wt. Grams	List Price Each
341001	1075S	3AG—Screw Driver	.495" dia.*	2 3/8	15.0	\$0.45
342001	1075F	3AG—Finger	.495" dia.*	2 1/2	14.3	.45
371001	1087S	8AG—Screw Driver	.495" dia.*	2 3/8	15.3	.45
372001	1087F	8AG—Finger	.495" dia.*	2 1/2	14.3	.45
442002	1212D	4AG—Finger, Pressurized	5/8" dia.—Rd.	2 1/4	45.3	3.00
442001	1212B	4AG—Finger	.623 dia.†	2 13/16	24	.70

\*With flat .224" from C.L.

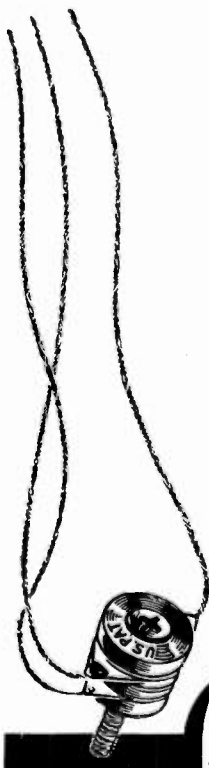
†With flat .250" from C.L.

# Conant Instrument Rectifiers

"STANDARD SINCE 1933"



Series	Type	Body Color	Internal Circuit	Mounting	Number of Terminals	Weight (Grams)	Dimensions (Inches)					Net Price
							A	B	C	D	E	
SERIES 500	M	YELLOW	1	6-32 STUD	4	12.718	.890	.500	.485	.800	.315	\$2.10
	TH	BROWN	2	6-32 STUD	4	11.833	.890	.500	.470	.800	.321	1.86
	HS	BLACK	3	6-32 STUD	3	10.631	.890	.500	.445	.800	.355	1.53
	T	RED	4	6-32 STUD	3	10.631	.890	.500	.445	.800	.355	1.53
	H	GREEN	5	6-32 STUD	2	9.072	.890	.500	.400	.675	.275	1.20
SERIES 160	B	YELLOW	1	#2 SCREW	4	2.531	.690	.590	.375	.250	.250	2.10
	BTH	BROWN	2	#2 SCREW	4	2.183	.690	.590	.375	.250	.250	1.86
	BHS	BLACK	3	#2 SCREW	3	1.824	.690	.590	.375	.250	.250	1.53
	BT	RED	4	#2 SCREW	3	1.824	.690	.590	.375	.250	.250	1.53
	BH	GREEN	5	#2 SCREW	2	1.477	.690	.590	.375	.250	.250	1.20
SERIES 160-C	B-C	YELLOW	1	FUSE CLIP	4	1.743	.345	.297	.310	.220	.200	2.10
	BTH-C	BROWN	2	FUSE CLIP	4	1.650	.345	.297	.310	.220	.200	1.86
	BHS-C	BLACK	3	FUSE CLIP	3	1.385	.345	.297	.310	.220	.200	1.53
	BT-C	RED	4	FUSE CLIP	3	1.385	.345	.297	.310	.220	.200	1.53
	BH-C	GREEN	5	FUSE CLIP	2	1.293	.315	.297	.310	.220	.200	1.20



- ★ Highest rectification efficiency for greatest instrument sensitivity.
- ★ Exceptional stability insures permanent instrument calibration.
- ★ Exclusive Conant Complete Color Code simplifies identification of type and terminal polarity.
- ★ Lead wires WELDED to terminals.
- ★ Sealed against moisture to insure permanent characteristics.
- ★ The only rectifiers with a NO-TIME LIMIT guarantee.
- ★ Manufactured by the exclusive Conant process from domestically produced materials only.
- ★ Life tests in continuous operation since June 1, 1934 prove Conant rectifiers do not deteriorate with age or continued normal service.
- ★ Sold by leading radio jobbers everywhere. Consult your local jobber, or your nearest Conant Representative.

**SERIES 500 UNITS** are for general applications requiring greater output current for meters, relays or other apparatus requiring more than 1 milliamper. Recommended for all such applications at commercial and the lower audio frequencies. Will also operate up to 1,000,000 c.p.s. in special applications wherein accuracy of readings is not essential.

**SERIES 160 and 160-C** are for applications requiring good frequency response over the entire commercial and audio range and especially when the meter, relay or other apparatus requires less than 1 milliamper for operation. In some special applications these units may be operated at frequencies up to 75,000,000 c.p.s. with special circuit treatment.

**SPECIAL TYPES** are available in both series 500 and 160-C. When requesting a quotation on a special type include a sketch of the rectifier required or a circuit dia-

gram showing source and frequency of the input voltage, resistance and kind of load, required load current and the ambient temperatures.

**SERIES 500** Disc diameter .500 inch. Area each disc .15 square inch. Furnished with 3" braided, tinned copper leads. Finished in synthetic lacquer-enamel.

**SERIES 160** Disc diameter .160 inch. Area each disc .02 square inch. Furnished with 3" stranded, tinned thermoplastic covered copper leads. Molded phenolic case. Assembly sealed with specially developed moisture-proof compound.

**SERIES 160-C** Disc diameter .160 inch. Disc area, lead wire and length and moisture-proof seal are identical with Series 160. Dimensions of the case have been reduced to the most compact size. These units may be mounted in a standard midjet fuse clip.



*Instrument Rectifiers*

**LABORATORIES**

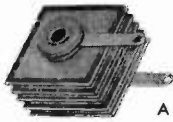
20 Vesey St., New York 7, New York  
 1836 Euclid Ave., Cleveland 15, Ohio  
 600 S. Michigan Ave., Chicago 5, Ill.  
 518 City Bk. Bldg., Kansas City 8, Mo.  
 P. O. Box 201, Crosstwn. Sta., Memphis 4, Tenn.  
 1212 Camp St., Dallas 2, Texas  
 4018 Greer Ave., St. Louis 7, Mo.  
 711 Colorado Bldg., Denver 7, Colo.  
 Bendix Bldg., 1206 Maple Ave.,  
 Los Angeles 15, Calif.  
 Export Div., 75 West St., New York 6, N. Y.  
 Canadian: 50 Yarmouth Rd., Toronto, Ont.

THE

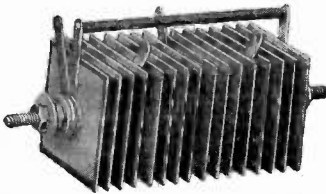
BRADLEY

LINE

## SELENIUM RECTIFIERS



A



B

Above (A) Model RS-100. Designed for radio and low power applications. Rated at 115 volts A.C., 100 milliamperes D.C., but also made for higher voltages and current.

Above (B) SE-11 Series. Power rectifier stacks rated from 0.100 amperes up. Plate size from 1" x 1" up to 5" x 6".

Bradley selenium rectifiers for medium voltage applications are processed to allow good efficiency and stability at D. C. rating up to 24 volts per plate. For power applications, square plates allow a maximum of rating to space factor.

For high voltage applications, Bradley selenium rectifiers are rated up to 70 volts peak inverse per plate.

Bradley manufactures selenium rectifiers for operation from a few microamperes to many thousands of amperes and from fractions of a volt to thousands of volts. On any rectification problem, consult Bradley. With their long application experience, Bradley engineers can quickly specify the right rectifier for your requirements.

## COPPER OXIDE RECTIFIERS



In above Universal Instrument Rectifier, you have a single answer to a wide range of measurement rectifier requirements — one rectifier for all circuits with A.C. voltages and D.C. currents within the unit's rating. Rated up to 12 volts A.C., 5 ma. D.C.

BRADLEY "COPROX" INSTRUMENT RECTIFIERS have vacuum processed pellets with gold contacts.

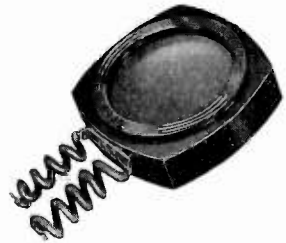
Exhaustive laboratory and field tests have proved our process produces rectifiers with maximum efficiency and minimum temperature errors. Even under severe conditions of use, aging is practically eliminated.

Electrical instruments with better accuracy are being built with "Coprox" rectifiers.

BRADLEY "COPROX" POWER RECTIFIERS, designed for low voltage applications, are rugged, compact and conservatively rated. Long service life is combined with low operating cost.

Bradley manufactures copper oxide rectifiers for operation from a few microamperes up to one ampere, and from microvolts up to hundreds of volts. All "Coprox" rectifiers are matched and balanced over a wide temperature range.

## PHOTO ELECTRIC CELLS



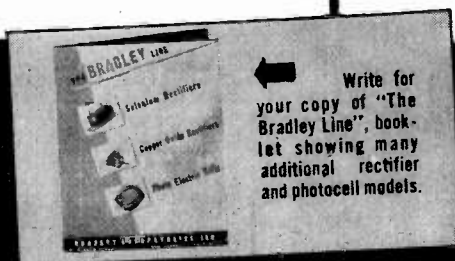
The pigtail contact model 3-1A shown above is only one of a series of standard mountings. Others include housed models with plug-in contacts, for tube socket and nut-and-bolt types. Shapes of Bradley Luxtron® photocells vary from circles to squares, with every in-between shape desired. In size they range from the diminutive to the largest sizes required. Dimensions of the standard model illustrated are 2-3/16" x 2-5/16" x 27/64".

LUXTRON PHOTOCELLS EFFICIENTLY CONVERT LIGHT INTO ELECTRIC ENERGY WITHOUT ANY EXTERNAL POWER SOURCE. The energy developed is sufficient to operate meters and sensitive relays.

Light-weight, rugged and true to rating, these photocells give long life under the most strenuous operating conditions. As far as we have been able to determine, they are the finest on the market, although among the lowest in price.

For precision control of light with electric energy, specify Luxtron photocells. Write Bradley for samples and engineering assistance on any photocell problem you have in mind.

\*T.M. Reg. U. S. Pat. Off.



Write for your copy of "The Bradley Line", booklet showing many additional rectifier and photocell models.

# BRADLEY LABORATORIES, INC.

82 MEADOW STREET, NEW HAVEN 10, CONN.

# ELECTROX<sup>®</sup>

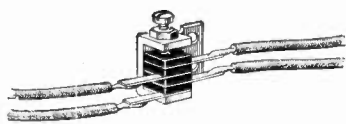
## Low-Capacity

# RECTIFIER UNITS

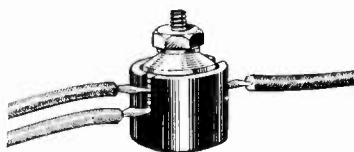
Used by most leading test set manufacturers as original components in their equipment.

\*Trade Mark Reg. U. S. Pat. Off.

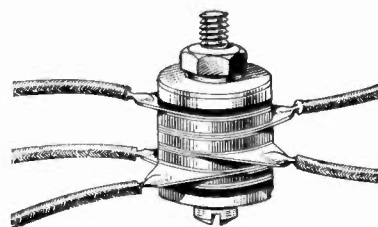
Full and half wave, low-capacity copper oxide rectifiers for instruments, test sets and similar applications. ElectroX Rectifiers are made by a pioneer manufacturer of high-quality, dry disc rectifiers. Each type is specially adapted to meet the individual requirements of the user; each unit is individually inspected, tested, and guaranteed right. For dependability, get genuine ElectroX Rectifiers!



TYPE A-4  
CAT. NO. 5020



TYPE B-2  
CAT. NO. 5047  
CAT. NO. 5049

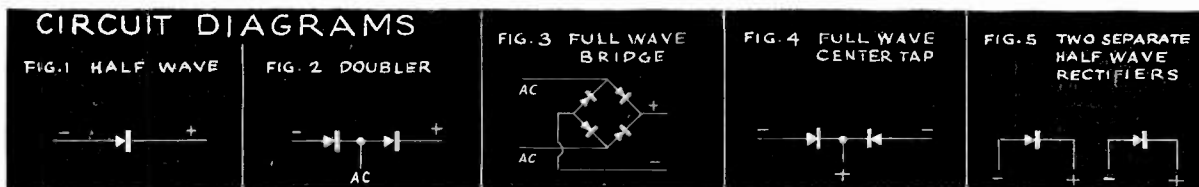


TYPE C-4  
CAT. NO. 5017

Max. Continuous Rating			Circuit Diagram Fig.	Element Diam. Inches	No. of Elements	Connections	Lead Length Inches	Type	Cat. No.
D.C. M.A.	D.C. Volts	A.C. Rms. Volts							
1	1	1.5	3	1/8	4	4 leads	4	AA-4	5064
5	3	4	3	3/16†	4	4 leads	3	A-4	5020
13		3	1	1/8	1	2 leads	3	B-1	5018
13		4	4	1/16	2	3 leads	3	B-2	5047
13		3*	2	1/16	2	3 leads	3	B-2	5049
20	3	4	3	1/8	4	5 leads	3	B-4	5016
32		3	1	3/8	1	2 lugs		C-1	5011
32		3*	2	3/8	2	3 leads		C-2	5057
32		3*	5	3/8	2	4 lugs		C-2	5010
64	3	4.1	3	3/8	4	5 lugs		C-4	5014
64	3	4.1	3	3/8	4	5 leads	3	C-4	5017

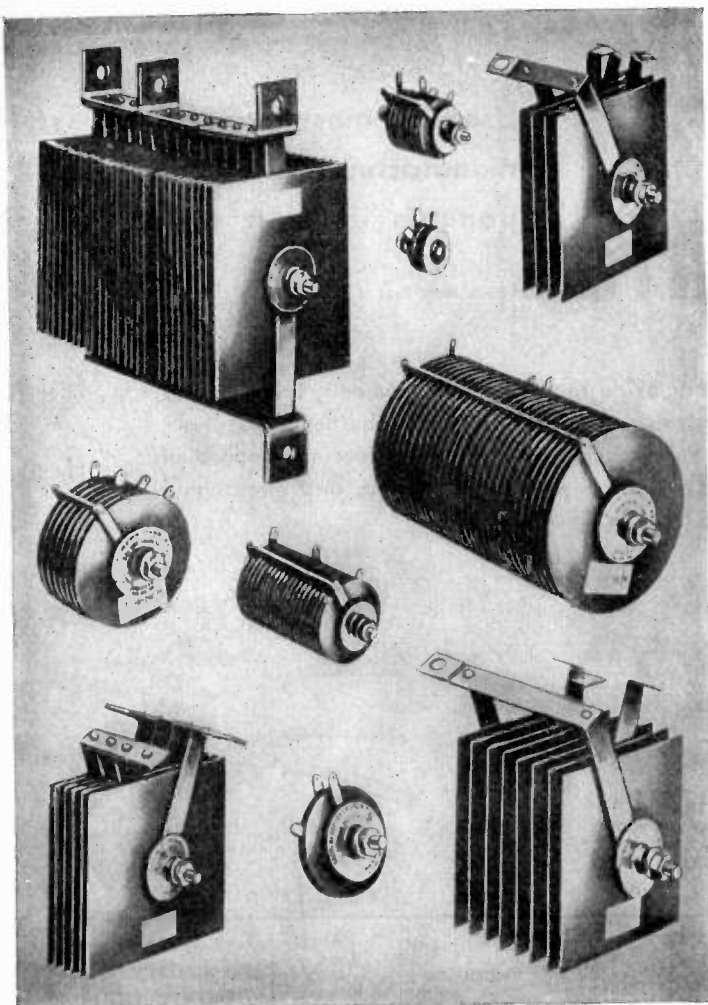
\*3 volts A.C. per element.

†3/16" square.



RECTIFIER DIVISION  
**THE SCHAUER MACHINE CO.** • Cincinnati, Ohio  
*Makers, since 1930, of high-quality, dry disc rectifiers.*





# Seletron

## SELENIUM RECTIFIERS

**Built on Aluminum**

THE high standards of performance established by Seletron Selenium Rectifiers have won for them nationwide acceptance by electrical manufacturers, purchasing agents and electrical engineers in the power and radio fields.

In every type of AC to DC conversion, from the large power stacks to the small units applicable to the radio and television fields, Seletron Rectifiers assure dependable, trouble-free service and long life under severest operating conditions.

These precision-built rectifiers are engineered for compactness and maximum heat dissipation. Although light in weight they are strongly constructed.

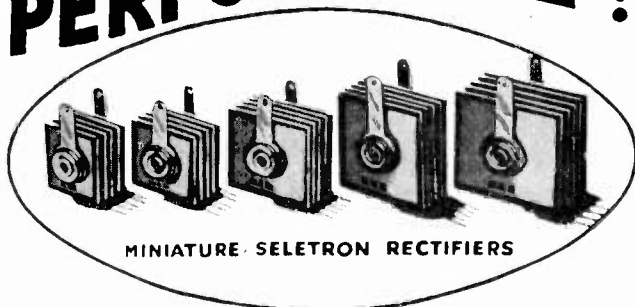
Furnished in eight standard plate sizes in assemblies that provide outputs ranging from a few milliamperes to thousands of amperes. Stacks to meet specific voltage and current requirements are available in an infinite number of combinations.

# \* UNBEATABLE PERFORMANCE !

### STOCK JOBBER SIZES

D.C. Output Max. Amps.	at 35° C. Approx. Volts	Max. Input R.M.S. Volts	Seletron Code Number
0.9	17	24	Q1B1S1B
1.6	18	24	D1B1S1B
3.1	17	24	E1B1S1B
5.2	17	24	F1B1S1B
10.0	17	24	H1B1S1B
16.0	18	24	H1B2S1B
24.0	18	24	H1B3S1B
1.2	36	48	D2B1S1B
3.1	35	48	WE2B1S1B
5.2	34	48	WF2B1S1B
10.0	34	48	WH2B1S1B
16.0	35	48	H2B2S1B
24.0	35	48	H2B3S1B
0.9	105	144	WQ6B1S1B
1.2	108	144	D6B1S1B
2.4	106	144	E6B1S1B
5.2	103	144	WF6B1S1B
0.9	122	168	WQ7B1S1B
1.2	126	168	D7B1S1B
2.4	123	168	E7B1S1B
5.2	120	168	WF7B1S1B

\* According to our Audit Department, replacement under warranty is only 0.2%.



MINIATURE SELETRON RECTIFIERS

### SPECIFY SELETRON MINIATURE SELENIUM RECTIFIERS FOR RADIO AND TELEVISION APPLICATIONS

Code Number	5M4	5M1	5P1	5R1	5Q1	5S1	1M1
Current Rating	75 ma.	100 ma.	150 ma.	200 ma.	250 ma.	500 ma.	100 ma.
Plate Length	1"	1"	1-3/16"	1-1/2"	1-1/2"	2"	1"
Plate Width	1"	1"	1-3/16"	1-1/4"	1-1/2"	2"	1"
Stack Thickness	11/16"	7/8"	7/8"	7/8"	1-1/8"	1-1/8"	3/8"
A.C. Volts	130 V	130 V	130 V	130 V	130 V	130 V	25 V

Our Engineering Department will be glad to aid you in the solution of your RECTIFIER problems, without obligation. Write for booklet on SELETRON RECTIFIERS. Address Department: US2.

SELETRON DIVISION



**RADIO RECEPTOR COMPANY, INC.**



Since 1922 in Radio and Electronics

# Selenium Rectifiers by Federal



THE REVOLUTIONARY RECTIFIER WITH UNLIMITED USES IN RADIO AND ELECTRONICS



402D3150A



403D2625A



404D2795A



438D3428A



403D3240A

FTR Number	Output MA-DC	Input (RMS)		Inverse Volts	Peak MA	Application	Sugg'd Retail Price, Each	FTR Number	Output MA-DC	Input (RMS)		Inverse Volts	Peak MA	Application	Sugg'd Retail Price, Each
		Volts	MA							Volts	MA				
402D3452A	65	130	160	380	750	B+ AC-DC (5 tube)	\$ .85	403D2889A	100	160	325	440	1200	Vibrator	\$2.25
402D3150A	75	130	220	380	900	B+ 3-way Radios	1.04	402D3239A*	75	160	220	440	900	Vibrator Doubler	2.55
403D2625A	100	130	325	380	1200	B+ Radios, Television	1.30	403D3240A*	100	160	325	440	1200	Vibrator Doubler	3.45
403D2787A	150	130	425	380	1200	B+ Radio-Television	1.50	404D3241A*	200	160	550	440	2000	Vibrator Doubler	5.10
404D2795A	200	130	550	380	2000	B+ Television	1.80	4D2814AS†	1000	8				Battery Charger	.70
404D3450A	250	130	625	380	2000	B+ Television	2.00	104D2943S‡	2000	15				Battery Charger	2.55
438D3427A	400	130	1000	380	3500	B+ Television	3.50	402D3550	150	25	270	35	1800	Bridge Rectifier	1.40
438D3428A	500	130	1250	380	3500	B+ Television	3.65	403D3551	300	25	540	35	2400	Bridge Rectifier	1.70
								404D3552	600	25	1080	35	4000	Bridge Rectifier	2.10
								402D3151	75	20	220	55	900	Bias Rectifier	.50

\* These rectifiers have two sections—characteristics given apply to one section only; if both sections are used half-wave, voltage input is 320 volts.  
 † The characteristics given for this rectifier are based on its use in a half-wave rectifier circuit with a 3 cell battery load.  
 ‡ The characteristics given for this rectifier are based on its use in a full-wave rectifier circuit with a 3 cell battery load.



# HF Cables by Federal



QUALITY CABLES AND TRANSMISSION LINES BY AMERICA'S  
 LARGEST MANUFACTURER OF SOLID DIELECTRIC COAXIAL CABLES



K-111



TV-59



K-109



TV-300

FTR Type Number	Nominal Impedance	Nominal MMF/Ft	Attenuation DB/100 ft	Nominal Jacket OD in inches	APPLICATION	Sugg'd Retail Price, Per Foot
K-111	300		2.4 at 50 Mc 3.4 at 100 Mc 4.6 at 200 Mc	0.480 x 0.290	Television lead-in where 300 ohm shielded cable is advantageous.	\$ .125
TV-59	72	22.04 at 1 kc	2.6 at 50 Mc 3.9 at 100 Mc 5.8 at 200 Mc	0.230	FM and Television where 72 ohm lead-in is required.	.05
K-109	160	8.3 at 1 kc	2.6 at 3.85 Mc 3.7 at 11.8 Mc 4.6 at 19.5 Mc	0.275	Automobile antenna lead-in.	.073
TV-300	300		1.15 at 50 Mc 2.00 at 100 Mc 3.01 at 200 Mc	0.360 x 0.070 no jacket	FM and Television antenna lead-in.	.0295

\* Trade Mark.

## Federal Rectifier Equipment

Federal Selenium Rectifiers Provide Dependable and Economical DC Power

FTR Type	OUTPUT (DC)		INPUT	Application	Sugg'd Retail Price, Each
	Volts	Amps			
FTR 3246-BS	6	10	115 volts, 60 cycle, single phase	"A" Eliminator Battery Charge	\$74.50
FTR 1342-AS	6	6 to 3	115 volts, 60 cycle, single phase		16.65