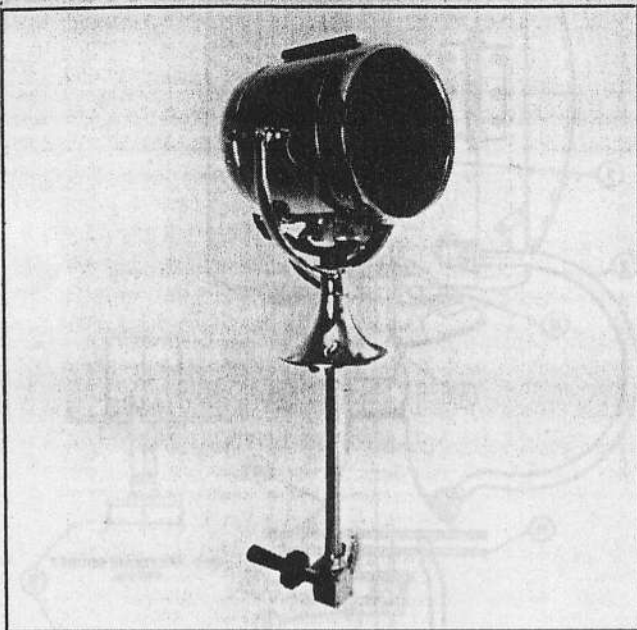


RAY-LINE

Model 43650-SERIES



10" DIAMETER REFLECTOR BEAM SEARCHLIGHT
MARINE SEARCHLIGHT FEATURES

- Lever-Gear control for smooth, easy operation.
- Full 10" silver plated parabolic mirror.
- Available vented or non-vented.
- Water resistant design.
- Hinged rear door for easy relamping and mirror cleaning.
- All brass construction with stainless steel fittings.
- Clamping screw locks horizontal movement.
- External focusing device for lamp.
- Sturdy construction tested to MIL STD - 167 - 1, Type I.
- Escutcheon plate acts as integral stabilizing device.
- Three wire grounding system.
- Shipping weight 35 lbs (15,9 kg).
- Deck mount models available.
 (consult factory for model numbers and availability)

Model 43650-SERIES

BULB SELECTION*

STANDARD MODELS			
MODEL NUMBER		FINISH	VOLTAGE
VENTED	NON-VENTED		
43650-0010	43650-1010	Painted	12, 24, 32, Vdc
43650-0030	43650-1030	Painted†	115 Vac
43650-0040	43650-1040	Painted**	115 Vac
43650-0110	43650-1110	Chrome	12, 24, 32, Vdc
43650-0130	43650-1130	Chromet	115 Vac
43650-0140	43650-1140	Chrome**	115 Vac
43650-0210	43650-1210	Plain Brass	12, 24, 32, Vdc
43650-0230	43650-1320	Plain Brass†	115 Vac
43650-0240	43650-1240	Plain Brass**	115 Vac

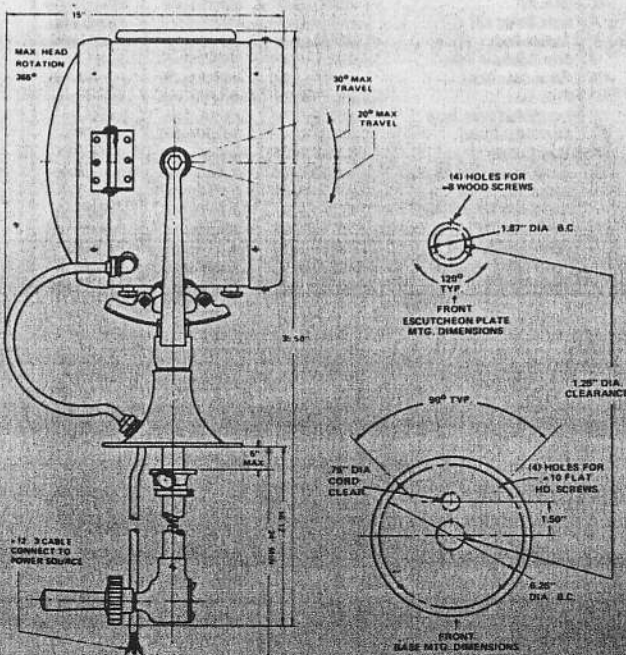
JABSCO P/N	BULB CODE	BASE TYPE	WATTS	VOLTS	AMPS	BEAM CANDLE POWER
98039-0616	FDT	2-pin pref.	100	12 Vdc	8.3	813,000
98039-0617	DZE	2-pin pref.	150	24 Vdc	6.3	745,000
98039-0618	G.E. 1945	2-pin pref.	200	32 Vdc	6.3	686,000
98039-0606	BTM	Med. pref.	500	120 Vac	4.2	617,000
98039-0619	DYS	2-pin pref.	600	120 Vac	5.0	711,000

* Light is supplied less bulb. Please order bulb from above.

** 2 Pin Prefocus socketed † Med. Prefocus socketed
 Consult factory for Deck Mount model numbers

INSTALLATION INSTRUCTIONS -

Determine mounting location and drill 1 1/2" dia. hole for searchlight control rod. Also drill 3/4" dia. hole for cord per the mounting diagram. With control rod connected to light head, remove gear box by removing two (2) mounting screws. Remove escutcheon plate, stop collar, and plastic collar (items 12, 13) from control rod. Insert searchlight control rod through hole, and locate mounting holes. Remove searchlight and drill mounting holes for #10 flat or oval head stainless steel screws. Use bolts if your installation requires them. (Fasteners not supplied with searchlight.) Place base gasket (item 14) on mounting surface. Additional caulking material may be required if mounting surface is not smooth. Install searchlight and secure with mounting screws. From inside the cabin, install the escutcheon plate (item 12) with the mounting hole between the bosses toward the stern. Locate and drill mounting holes, and secure escutcheon plate using #8 flat or oval head stainless steel screws (not supplied with searchlight). Install plastic collar on the control rod with the boss on top toward the stern, and install the brass stop collar on the control rod with the boss on top toward the bow. Press the collars tight against the escutcheon plate and secure the collar to the control rod by tightening the clamping screw. Replace the gear box and secure to control rod using the mounting screws.



WIRING INSTRUCTIONS -

Use 12 gauge stranded copper wire for up to 35' (10, 6 m). For greater distances, use 10 gauge stranded copper wire. Use a switch with an amperage rating of no less than the amperage of the bulb (see chart). The green lead in the cable is intended for bonding (grounding) of the searchlight. Install a standard 10 amp fuse with correct voltage rating in positive dc lead or in switched ac lead for 120 Vac models.

WARNING: BEFORE CHANGING BULB MAKE SURE POWER HAS BEEN TURNED OFF AND BULB HAS BEEN ALLOWED TO COOL. BULB IS EXTREMELY HOT FOR SEVERAL MINUTES AFTER OPERATION AND CAN BURN HANDS. NEVER LOOK DIRECTLY AT THE BULB OR DIRECTLY INTO THE SEARCHLIGHT WHEN IN OPERATION. DAMAGE TO THE EYES MAY RESULT.

CAUTION: THESE SEARCHLIGHTS ARE DESIGNED FOR THE MORE EFFICIENT, LONGER LASTING TUNGSTEN-HALOGEN BULBS. THE QUARTZ GLASS ENVELOPE OF THE TUNGSTEN-HALOGEN BULB SHOULD NOT BE TOUCHED AT ANY TIME. THE QUARTZ ENVELOPE CAN BE ETCHED AND SHATTER ONCE TOUCHED. IF TOUCHED BY MISTAKE, CLEAN AT ONCE WITH ALCOHOL. ALWAYS HANDLE THE BULBS BY THE CERAMIC BASE. WHEN REPLACING A BULB, READ THE INSTRUCTIONS ON THE BULB CARTON BEFORE INSTALLING.

WARNING - HOUSING IS HOT WHEN SEARCHLIGHT IS IN OPERATION.

SERIOUS BURNS COULD RESULT FROM TOUCHING HOUSING WHILE SEARCHLIGHT IS OPERATING. CARE SHOULD BE TAKEN TO NOT TOUCH THE HOUSING WHEN FOCUSING THE BULB. LET SEARCHLIGHT COOL BEFORE TOUCHING HOUSING OR CHANGING THE BULB.

OPERATION AND MAINTENANCE -

To focus bulb, loosen two (2) adjusting knobs under housing and slide adjusting knobs forward or back until desired beam is obtained.

Optimum candlepower is obtained when smallest and brightest spot is projected.

When installing the bulb, be sure the flat side of the filament is facing the mirror. Bulbs may vary slightly in their construction so alignment may be required. To adjust alignment, loosen lock nut at the bottom of the socket support tube. Rotate socket support until correct alignment is obtained and retighten lock nut.

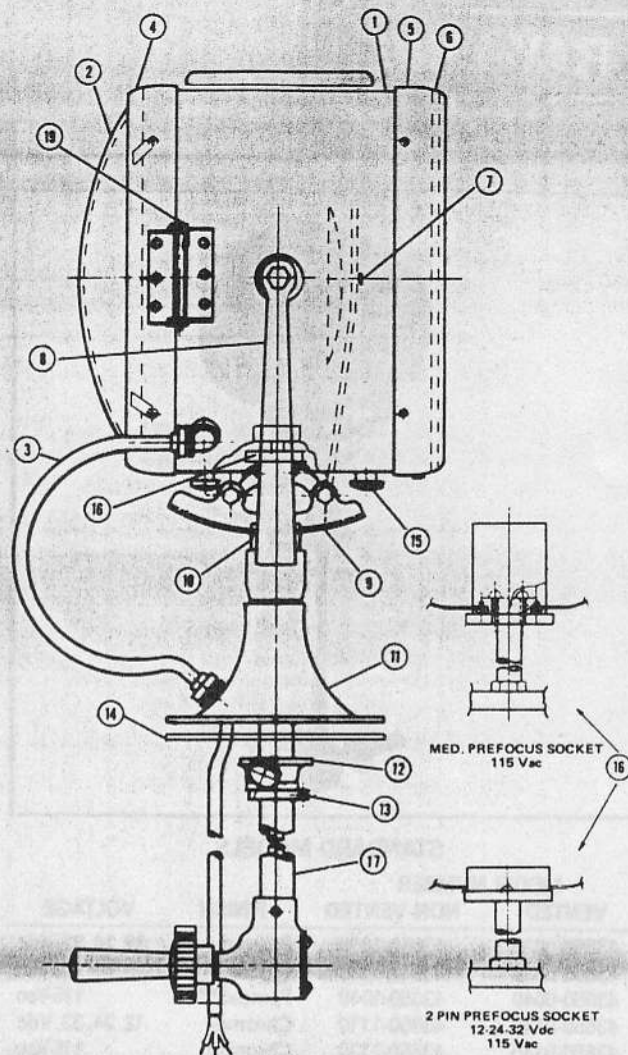
Horizontal motion dampening and locking is obtained by tightening the clamping screw in the escutcheon plate. Vertical motion dampening and locking is obtained by tightening the locking knob on the control handle.

For best light performance, the mirror and lens should be cleaned each time the bulb is changed or more often as required. Apply a coat of all-weather grease to all moving parts as needed. Periodically check bolts and set screws for tightness.

HOW TO ORDER SEARCHLIGHTS:

Specify model number, vented or not vented, type finish, voltage, bulb number, and bulb code. Specify control rod length if different than standard dimensions shown on dimensional drawing.

EXAMPLE: 43650-0230 vented, plain brass, 120 Vac, Med. Prefocus, 98039-0606, BTM, standard rod length.



DRAW #	DESCRIPTION	PAINTED	CHROME	BRASS
1	Housing Assy. Vented	43750-1010	43750-1000	43750-1020
	Housing Assy. Non-Vented	43775-1010	43775-1000	43775-1020
2	End Cap Assy.	43774-1010	43774-1000	43774-1020
3	Cord Assy. dc	43769-1001	43769-1001	43769-1001
	Cord Assy. ac	43769-1000	43769-1000	43769-1000
4	Parabolic Mirror Kit	43778-1002	43778-1002	43778-1002
5	Lens Ring Kit	43776-1010	43776-1000	43776-1020
6	Lens Kit	43791-1002	43791-1002	43791-1002
7	Light Shield Kit	41639-1001	41639-1001	41639-1001
8	Trunion Assy.	43745-1010	43745-1000	43745-1020
9	Gear Quadrant Assy.	40529-1000	40529-1010	40529-1000
10	Pinion Gear Assy.	43757-1000	43757-1000	43757-1000
11	Base Assy.	40513-1070	40513-1060	40513-1080
12	Escutcheon Plate Assy.	40534-1010	40534-1000	40534-1010
13	Stop Collar Assy.	40520-1010	40520-1000	40520-1010
14	Base Gasket	43746-1000	43746-1000	43746-1000
15	Focus Adjusting Knob Kit	43639-0000	43639-0000	43639-0000
16	Lampholder Kit dc	43796-1002	43796-1002	43796-1002
	Lampholder Kit ac - Med. Pref.	43796-1001	43796-1001	43796-1001
	Lampholder Kit ac - 2 Pin Pref.	43796-1004	43796-1004	43796-1004
17	Cont. Rods Assy.	43793-1010	43793-1000	43793-1010
18	Bearing Kit*	43639-0001	43639-0001	43639-0001
19	Hinge Pin Kit	43748-1000	43748-1000	43748-1000

*NOT SHOWN
Bulbs - See front of Data Sheet

THE PRODUCT DESCRIBED HEREIN IS SUBJECT TO THE JABSCO® ONE YEAR LIMITED WARRANTY, WHICH IS AVAILABLE FOR YOUR INSPECTION UPON REQUEST.

Jabsco
ITT Fluid Technology Corporation
1485 Dale Way, P.O. Box 2156
Costa Mesa, California 92626-2156
Telephone: (714) 545-5251