



Fig. 0883 Series Installation and Spare Parts Manual

Deck Control Solar-Ray® Searchlights 10", 12" & 14"

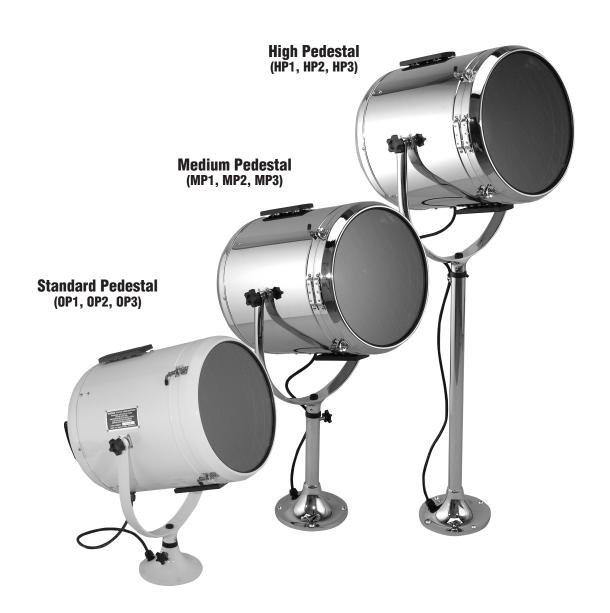




Fig. 0883 Deck Control Solar-Ray® Series Installation Manual

Table of Contents

	Page
Fig 0883 Installation Instructions	3
Fig. 0883 10" Searchlight (OP1, MP1 & HP1) Spare Parts Diagram	4
Fig. 0883 12" Searchlight (OP2, MP2 & HP2) Spare Parts Diagram	5
Fig. 0883 14" Searchlight (OP3, MP3 & HP3) Spare Parts Diagram	6
7" Base Mounting Template (for Standard Pedestal OP)	7
8" Base Mounting Template (for Medium & High Pedestals MP & HP)	8
Spare Parts, Bulbs and Socket Ordering Information	9-10
Solar-Ray® Searchlight Limited Warranty	11

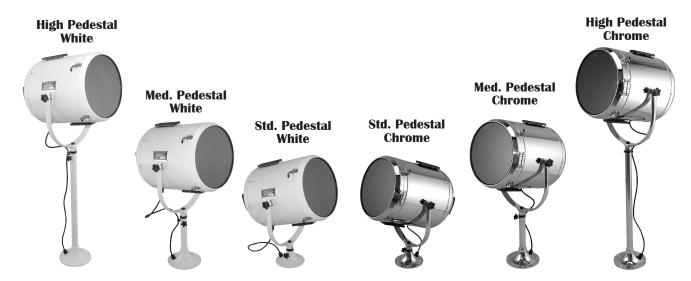




Fig. 0883 Searchlight Deck Control Solar-Ray® Searchlight Installation Instructions

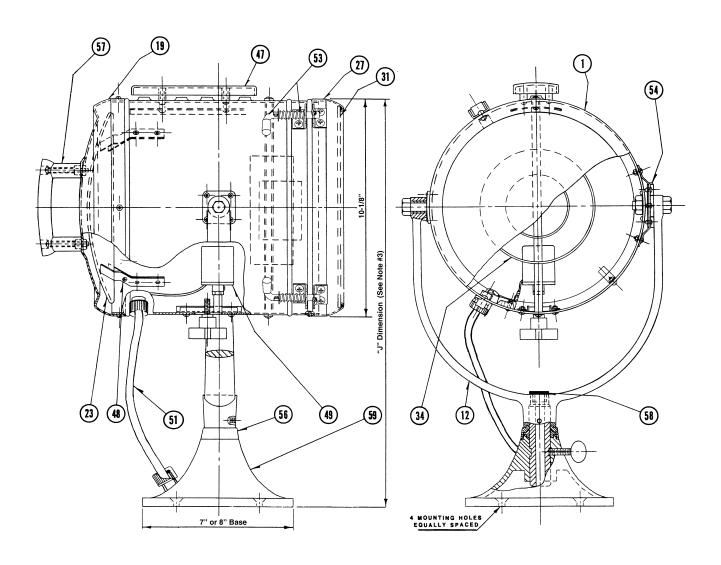
ASSEMBLY AND INSTALLATION INSTRUCTIONS

- 1. Place Head Assembly on flat area with lens down.
- 2. Insert electric wire through searchlight base and tighten gland nut.
- 3. Select proper base mounting template for either 7" or 8" base. Drill holes in deck, per template.
- 4. Place searchlight assembly onto mounting surface in proper position, and thru-bolt with 5/16 inch machine screws (not supplied).
- 5. Wiring must be according to applicable standards and performed by a qualified marine electrician.
- 6. Yoke knob locks the vertical positioning and base knob locks the horizontal rotation.





PERKO[®] Fig. 08830P1, 0883MP1, & 0883HP1 10" Solar-Ray[®] Searchlights Spare Parts and Notes



Notes

All Bulbs using the same socket and stand Fig. No. are field interchangeable Note 1 w/o modification, otherwise a change in bulb typemust be accompanied by a new corresponding socket and stand. (See page 9).

Note 2	Inclination 90°	<u>Declination</u> 48°			
Note 3	0883OP1 0883MP1 0883HP1	"J" Dimensions 20-1/8" 27-1/2" 44"	Base Template 7" 8" 8"		
Note 4	· ·	dimensions above the no. 59) instead of sta	e standard (20-1/8") utilize an 8" andard 7" base.		
Note 5	Searchlights with special pedestal heights can be made to order. The special "J" dimension must accompany the inquiry.				

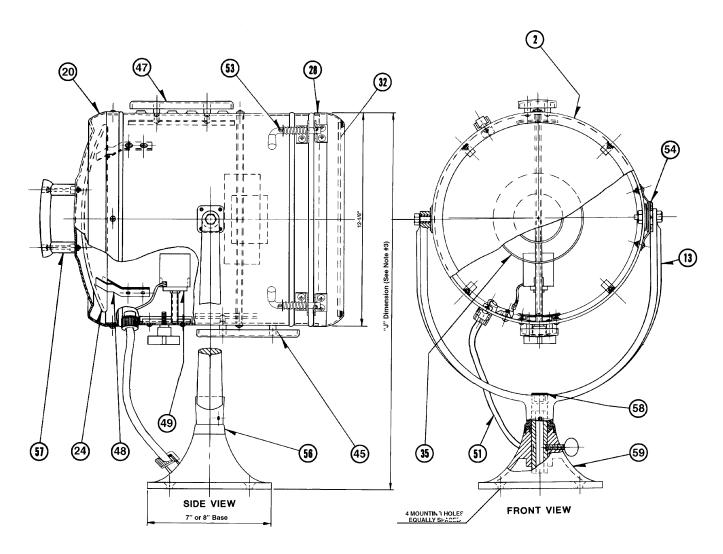
Bill of Material

Item	Spare Part	Description	Qty.
1		Drum Assembly Complete	1
12		Fork Assembly Complete	1
19	0908001	Rear Cover with Screws	1
23	0890001	Reflector	1
27	0891001	Front Door with Glass Assembly	1
31	0889001	Front Glass	1
34	0883SPR034	Anti-Halo Ring Assembly	1
47		Upper Vent Cover	1
48	0910	Reflector Clips	4
49		Focus Device Ass. W/Socket & Stand See Note #1	1
51	0883SPR051	Electrical Cord Assembly	1
53	088300099A	Latch, Front Door	2
54		Hinge Assembly, Front Door	1
56	0884SPR056	Base Seal	1
57		Control Handle	1
58	0884SPR055	Shaft Seal	1
59	0850*	Base Assembly	1

^{*}Specify Pedestal (000, M00 or H00) and Finish (CHR/WHT) when ordering base assembly.



PERKO[®] Fig. 08830P2, 0883MP2, & 0883HP2 12" Solar-Ray[®] Searchlights Spare Parts and Notes



Notes

Note 1	All Bulbs using the same socket and stand Fig. No. are field interchangeable
	w/o modification, otherwise a change in bulb typemust be accompanied by a
	new corresponding socket and stand. (See page 9).

Note 2	Inclination De 90°	clination 49°	
Note 3	0883OP2 0883MP2 0883HP2	"J" Dimensions 22-1/8" 29-1/2" 46"	Base Template 7" 8" 8"
Note 4		'J" dimensions abov em no. 59) instead o	e the standard (22-1/8") utilize an 8" f standard 7" base.
Note 5		special pedestal hei at accompany the in	ghts can be made to order. The special quiry.

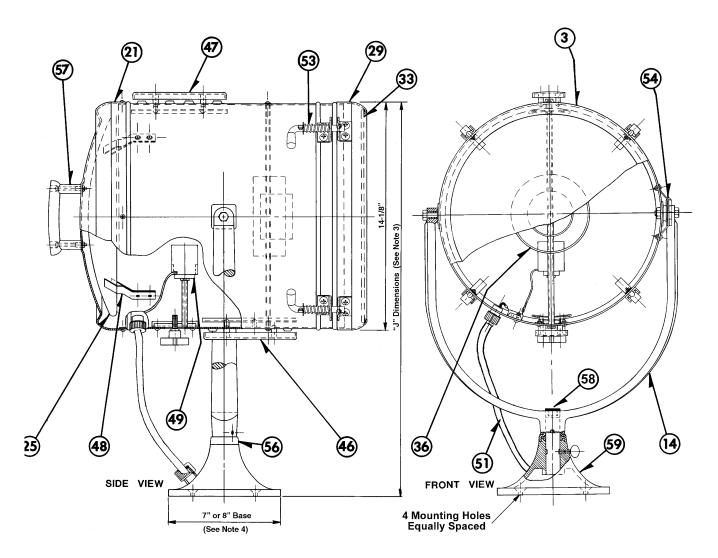
Bill of Material

Item	Spare Part	Description	Qty.
2		Drum Assembly Complete	1
13		Fork Assembly Complete	1
20	0908002	Rear Cover with Screws	1
24	0890002	Reflector	1
28	0891002	Front Door with Glass Assembly	1
32	0889002	Front Glass	1
35	0883SPR035	Anti-Halo Ring Assembly	1
45		Lower Vent Cover	1
47		Upper Vent Cover	1
48	0910	Reflector Clips	4
49		Focus Device Assy. w/Socket &	1
		Stand. (See Note 1)	
51	0883SPR051	Electrical Cord Assembly	1
53	088300099A	Latch, Front Door	2
54		Hinge Assembly, Front Door	1
56	0884SPR056	Base Seal	1
57		Control Handles	1
58	0884SPR055	Shaft Seal	1
59	0850*	Base Assembly	1

 $^{\star}\text{Specify Pedestal}$ (000, M00 or H00) and Finish (CHR/WHT) when ordering base assembly.



PERKO[®] Fig. 08830P3, 0883MP3, & 0883HP3 14" Solar-Ray[®] Searchlights Spare Parts and Notes



Notes

All Bulbs using the same socket and stand Fig. No. are field interchangeable Note 1 w/o modification, otherwise a change in bulb type must be accompanied by a new corresponding socket and stand. (See page 9).

Declination

"J" dimension must accompany the inquiry.

Note 2

Note 5

Inclination

Note 3	0883OP3 0883MP3 0883HP3	"J" Dimensions 25-1/8" 32-1/2" 49"	Base Template 7" 8" 8"	
Note 4			above the standard (25-1/8") utilize an 8" ad of standard 7" base.	

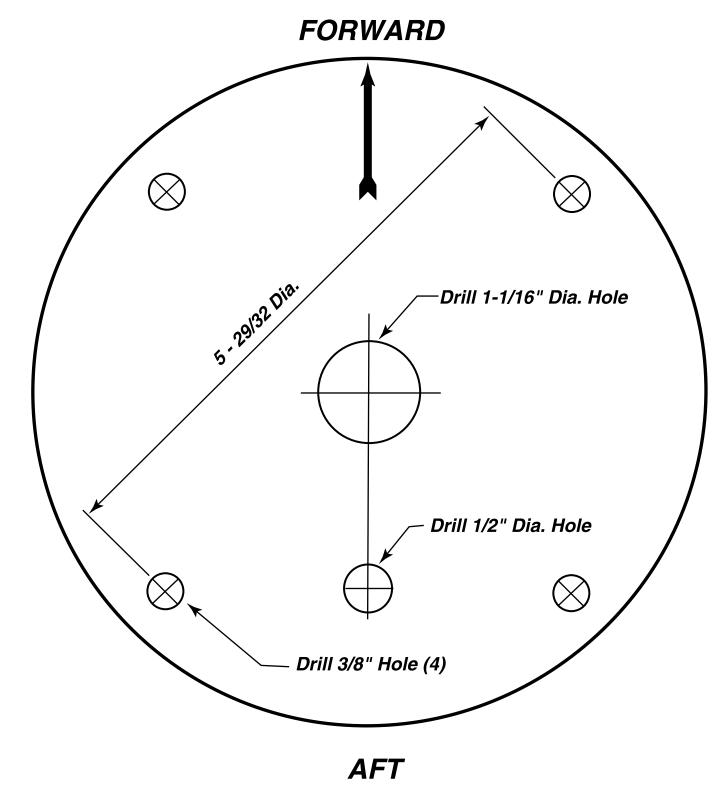
Searchlights with special pedestal heights can be made to order. The special

Bill of Material

Item	Spare Part	Description	Qty.
3		Drum Assembly Complete	1
14		Fork Assembly Complete	1
21	0908003	Rear Cover with Screws	1
25	0890003	Reflector	1
29	0891003	Front Door with Glass Assembly	1
33	0889003	Front Glass	1
36	0883SPR036	Anti-Halo Ring Assembly	1
46		Lower Vent Cover	1
47		Upper Vent Cover	1
48	0910	Reflector Clips	4
49		Focus Device Ass. W/Socket & Stand See Note #1	1
51	0883SPR051	Electrical Cord Assembly	1
53	088300099A	Latch, Front Assembly	4
54		Hinge Assembly, Front Door	1
56	0884SPR056	Base Seal	1
57		Control Handle	2
58	0884SPR055	Shaft Seal	1
59	0850*	Base Assembly	1

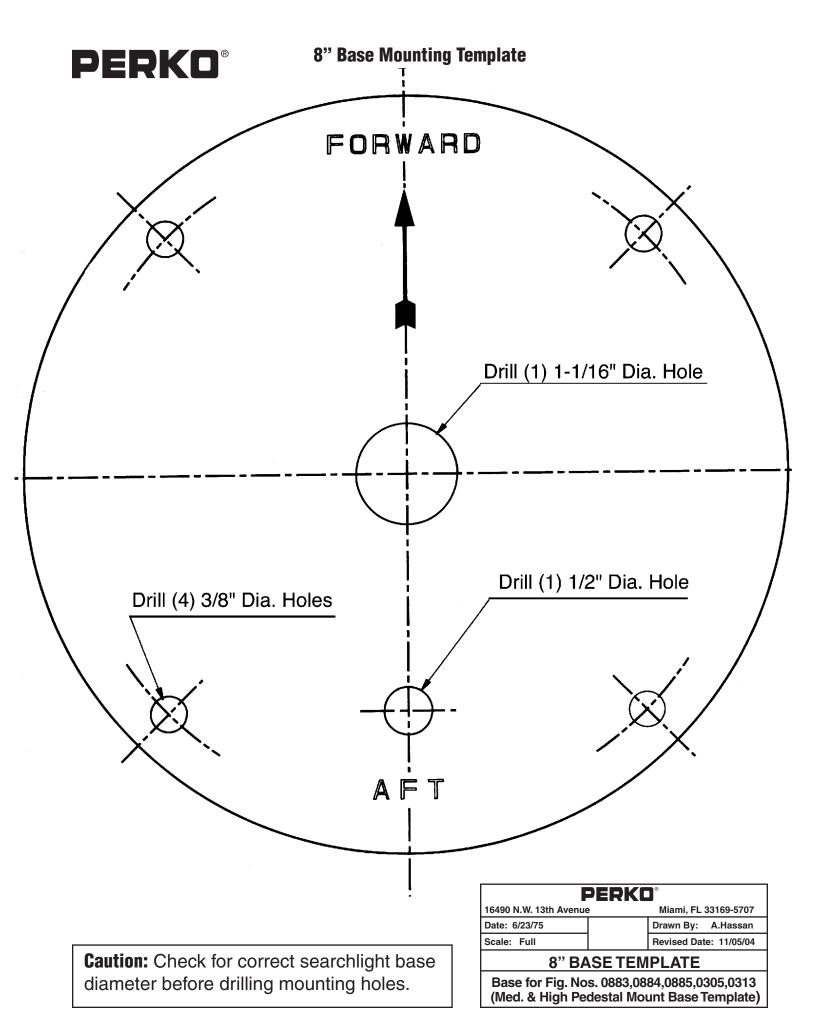
^{*}Specify Pedestal (000, M00 or H00) and Finish (CHR/WHT) when ordering base assembly.





Caution: Check for correct searchlight base diameter before drilling mounting holes.

PERKO°						
16490 N.W. 13th Avenue	Э	Miami, FL 33	169-5707			
Date: 4/11/95	Drawn By: A	\.Hassan				
Scale: Full	Checked By:					
7" BASE TEMPLATE						
Base for Fig. Nos. 0883, 0884, 0885, 0305, 0313						
(Standa	ard Pedes	tal Only)				





Solar-Ray® Bulb Ordering Information

0800 Series Bulbs

Bulbs Are Not Included in Lights and Must Be Ordered Separately.

For best results, the bulb and reflector must be perfectly compatible; therefore, be sure to specify the catalog number of the bulb desired. Peak candlepower is exceedingly sensitive to many factors, (i.e., a light source out of focus by 1/32 inch, under-voltage of only 4%, or differences between bulb manufacturers) which can cause a variation in range of up to 20%.

Incandescent Bulb Ordering Info									
Bulb Catalog Number	Voltage	Wattage	Socket Type	Socket Code Letter	For Searchlight Sizes Inches	Rated* Life Hours	Mfg. Bulb Code		
0806	32	500	Medium Screw	В	10, 12, 14	50	DLT		
0807	120	500	Medium Prefocus	E	10, 12, 14	25	CZX/DAB		
0809	120	750	Medium Prefocus	E	12, 14	25	DDB		
0837	120	750	Medium Prefocus	E	12, 14	200	DGH		
0810	120	1000	Medium Prefocus	E	12, 14	25	DRS		
0811	120	1000	Mogul Screw	D	12, 14	50	DPT		

For a More Concentrated Beam, Longer Range, Brighter Light and a Longer Life, We Recommend the Following Bulbs:

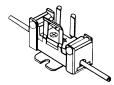
	"Quartz" Tungsten-Halogen Bulb Ordering Info									
Bulb Catalog Number	Voltage	Wattage	Socket Type	Socket Code Letter	For Searchlight Sizes Inches	Rated* Life Hours	Mfg. Bulb Code			
0816	12	100	2-Pin Prefocus	F	10, 12, 14	50	FDT			
0836	24	150	2-Pin Prefocus	G	10, 12, 14	50	DZE-FDS			
0817	32	200	2-Pin Prefocus	Н	10, 12, 14	200	1945			
0844	120	500	Medium Prefocus	E	10, 12, 14	500	BTL			
0820	120	600	2-Pin Prefocus	1	10, 12, 14	75	DYS			
0845	120	750	Medium Prefocus	E	12, 14	200	BTP			
0839	120	900	2-Pin Prefocus	K	12, 14	75	BVA			
0846	120	1000	Medium Prefocus	E	12, 14	200	BTR			
0860	230	1000	Medium Prefocus	Е	12, 14	950	FKD			

Please Order Carefully, Bulbs are Not Returnable.

*NOTE: These are the "Rated Average Laboratory Life in Hours" of the Bulb Manufacturer obtained in closely controlled laboratory life testing groups of lamps at their design voltage. It is not necessarily the same as the service life where conditions such as shock, vibration, voltage fluctuation and environment may result in a shorter average attained life.

Electric Socket and Support Stand Assemblies

Ordering Info								
		For 10" Searchlights		For 12" Searchlights		For 14" Searchlights		
Socket Type	Socket Code	Catalog Number	Height Stand Inches	Catalog Number	Height Stand Inches	Catalog Number	Height Stand Inches	
Medium Screw Medium Prefocus Mogul Screw 2-Pin Prefocus (12 Volt) 2-Pin Prefocus (24 Volt) 2-Pin Prefocus (32 Volt) 2-Pin Prefocus (600 Watt)	BEDFGH-	0872001 0873001 0875001 0876001 0878001 0879001	1-1/4 1-5/16 3-1/2 3-1/4 3-1/4 3-1/8	0872002 0873002 0874002 0875002 0876002 0878002 0879002	2-1/4 1-15/16 7/16 4-1/2 4-1/4 4-1/4 4-1/8	0872003 0873003 0874003 0875003 0876003 0878003 0879003	3-1/4 2-15/16 1-1/4 5-1/2 5-1/4 5-1/4 5-1/8	



2-Pin Prefocus Socket (Code "F, G, H, I & K") Catalog No. 0899



Medium Screw Socket (Code "B") Catalog No. 0894



Mogul Screw Socket (Code "D") Catalog No. 0897



Medium Prefocus Socket (Code "E") Catalog No. 0895



Solar-Ray® Spare Parts and Bulb Ordering Information

Spare Parts Ordering Info for 0883 Series Solar-Ray® Searchlights										
Fig.	Size	Front Glass Cat. No.	Front Door with Glass Cat. No. *	Rear Cover Cat. No. *	Reflector** Cat. No.	Pinion Gear Cat. No.				
0883	10" 12" 14"	0889001CLR 0889002CLR 0889003CLR	0891001CHR 0891002CHR 0891003CHR	0902001CHR 0902002CHR 0902003CHR	0890001 0890002 0890003					

^{*} NOTE: The Spare Part catalog numbers listed above are for the polished chrome (CHR) finish. To order white finish, replace the "CHR" in the catalog number with the "WHT" finish code.

0800 Series Bulbs The Following Chart is Provided to Aid in Proper Bulb Selection:

Searchlight Size Inches	Voltage	Approximate Range Miles*	Bulb Catalog Number	Bulb Wattage	Rated Life Hours**	Maximum Candlepower Output	Horizontal Beam Spread Degrees	Vertical Beam Spread Degrees
10"	12 24 32 32 120 120 120	1 1 3/4 1 1 1-1/8 1-1/8	0816 0836 0817 0806 0820 0807 0844	100 150 200 500 600 500 500	50 50 200 50 75 25 500	1,168,000 891,000 571,000 943,000 908,000 1,332,000 1,260,000	1.7 2.6 2.6 3.4 4.4 3.5 3.1	1.4 1.5 1.7 3.9 2.2 2.8 3.4
12"	12 24 32 32 120 120 120 120 120 120 120 120 120 12	1-1/4 1-1/8 7/8 1-1/8 1 1 1-1-1/8 1-1/4 1-1/4 1-1/4 1-1/4 1-3/8 1-3/8 1-1/2 7/8	0816 0836 0817 0806 0837 0845 0820 0809 0844 0807 0811 0810 0846 0839 0860	100 150 200 500 750 750 600 750 500 500 1000 1000 1000 1000	50 50 200 50 200 200 75 25 500 25 50 25 200 75 950	1,617,000 1,349,000 865,000 1,496,000 977,000 1,185,000 1,410,000 1,792,000 1,641,000 1,799,000 1,816,000 1,894,000 1,911,000 2,482,000 865,000	1.5 2.2 2.4 3.4 4.1 3.7 4.3 3.6 3.2 3.3 4.0 4.0 3.9 4.5 6.9	1.2 1.5 1.6 3.5 3.7 5.2 1.9 3.4 3.1 4.9 3.8 5.0 5.5 5.9
14"	12 24 32 32 120 120 120 120 120 120 120 120 120 12	1-1/4 1-1/8 1 1-1/8 1-1/8 1-1/8 1-1/4 1-3/8 1-3/8 1-1/2 1-1/2 1-1/2 1-1/2 1-5/8	0816 0836 0817 0806 0837 0845 0820 0844 0811 0807 0809 0846 0810 0839 0860	100 150 200 500 750 750 600 500 1000 500 750 1000 1000 900 1000	50 50 200 50 200 200 75 500 50 25 25 200 25 75 950	1,756,000 1,367,000 943,000 1,591,000 1,254,000 1,531,000 1,626,000 1,840,000 2,249,000 2,353,000 2,422,000 2,586,000 2,889,000 1,021,000	1.5 2.3 2.2 4.0 3.9 3.6 4.5 2.9 4.0 3.2 3.7 3.8 4.0 4.5 7.7	1.0 1.2 1.5 3.7 4.5 5.1 1.9 3.2 5.1 3.2 4.0 5.0 4.5 5.2 6.2

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

^{**}NOTE: These are the "Rated Average Laboratory Life in Hours" of the Bulb Manufacturer obtained in closely controlled laboratory life testing of groups of lamps at their design voltage. It is not necessarily the same as the service life where conditions such as shock, vibration, voltage fluctuation and environment may result in a shorter average attained life.



2-Pin Prefocus



Mogul Screw



MEDIUM PREFOCUS



MEDIUM SCREW

^{**}Replacement Retaining Clips (Cat. No. 0910) For The Reflector Should Also Be Ordered When Ordering a Replacement Reflector To Assure a Proper Fit.

PERKO® SOLAR-RAY® SEARCHLIGHT ONE YEAR LIMITED WARRANTY

PERKO, INC. (PERKO) warrants to the original commercial-purchaser that PERKO'S commercial products will be free from defective materials or workmanship, and that the PERKOPLATE/PERKO•KOTE Finish will remain corrosion-free under normal use and service, for a period of one (1) year from the original purchase date.

ALL IMPLIED WARRANTIES, INCLUDING MERCHANTABILITY, ARE ALSO LIMITED IN DURATION TO THE ONE YEAR PERIOD FROM THE ORIGINAL PURCHASE DATE.

PERKO SHALL NOT BE LIABLE FOR LOSS OF USE OF ANY OF ITS COMMERCIAL PRODUCTS, NOR FOR OTHER INCIDENTAL OR CONSEQUENTIAL COSTS, EXPENSES, OR DAMAGES INCURRED BY THE ORIGINAL COMMERCIAL-PURCHASER OR BY ANY OTHER PERSON.

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

This warranty is void if the commercial product warranted has been damaged by accident or unreasonable use, neglect, improper service or other cause not arising out of defects in material or workmanship. Excluded from this warranty are Electric Light Bulbs (lamps), Sealed Beam Units and Fuses.

During the warranty period, your PERKO product will either be repaired or it will be replaced with a like product (at PERKO's option) without charge to the original commercial-purchaser, when returned prepaid and insured, with proof-of-purchase date to PERKO at the address shown below. In the event of replacement, the replacement product will continue the warranty of the original product, or ninety (90) days, whichever is longer.

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

Serial Number			
Date of Purchase			
(Retain with Proof-of-Purchase Documentation)			

PERKO, Inc. • 16490 N.W. 13th Avenue • Miami, FL 33169-5707

9901 019 FRM