

PHOENIX[®]

INSTALLATION INSTRUCTIONS AND REPAIR PARTS LIST FOR MRSE 400 WATT SERIES FLOODLIGHTS

Hazardous Location Models MRSE400***A (Narrow Beam), MRSE400***B (Wide Beam), MRSE400***C (Very Narrow Beam) & MRSE400***D (Bat Wing Beam)

MOUNTING

Fasten fixture with three or more 1/2" bolts through hole and slots in harp assembly. Use mounting dimensions shown in Figure 1. Do not mount on unsupported cab or house roof. Attach near corner supports or use adequate subbase. Avoid boom mounting on light weight cross members which will vibrate or flex excessively. In addition to normal mounting (base down), fixture may be attached in a pendant or cantilever manner.

LAMPING (See "CAUTION" on page 5)

These fixtures are designed for 400W BT-37 Pulse Start Metal Halide and 250 or 400W E-18 High Pressure Sodium lamps. Suitable remotely mounted ballasts* are required for the various lamp types. Removal of the socket housing provides easy access to the lamp compartment.

The top end of the lamp must seat securely in the spring loaded retainer when the lamp base is screwed tightly into the socket. This is to prevent lamp breakage. When re-lamping, it is recommended that cover glass and reflector be cleaned to maintain fixture efficiency (see CLEANING, page 5).

LAMP RECOMMENDATIONS

Description	Wattage	Lamp Type	Phoenix Part No.	ANSI Code
High Pressure Sodium	250	E-18	4209300	S50
	400	E-18	4208500	S51
Pulse Start/Metal Halide†	400	BT-37	4211420	M155/E
BALLAST REQUIRED	REFER TO LITERATURE #N5610012 (UL Listed and CSA certified ballasts)			
SPECIFY VOLTAGE (Write for information on other than 60HZ)	Available in following voltages: Quad Volt 120/208/240/277 Or Single Voltage 480V			

* Phoenix Heavy Duty voltage stabilized ballasts are recommended for optimum service and performance.

** Lamps carried in stock.

***Insert Lamp Type

† Metal Halide is sometimes referred to as "Multi-Vapor."



CAUTION

Most ballasts are NOT interchangeable between lamp types (PSMH / HPS).

SPECIAL HPS NOTE: As a general rule, the maximum recommended distances for remote mounting High Pressure Sodium ballasts is 50 feet for voltage stabilized types and 5 feet for lag types. Refer to the particular ballast manufacturer's recommendation when installing ballasts.

(See page 5 for additional instructions)

MOUNTING DIMENSIONS FOR N5475500

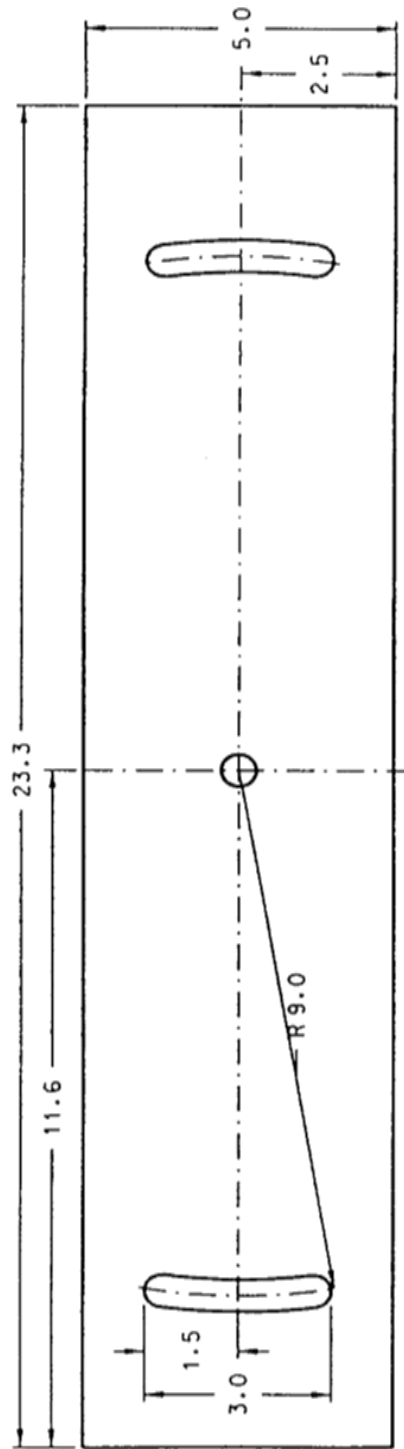


Figure 1

REPAIR PARTS LIST

ITEM	QTY	DESCRIPTION	PART NO.
1	1	Shell	
		MRSE400***A, MRSE400***B & MRSE400***D	1403003
		MRSE400***C	1403006
2	1	Socket Housing Assembly	Consult Factory
4	1	Harp	2401700
5	2	Reflector Half MRSE400***A	2654601
		MRSE400***B	2654602
7	1	Port Gasket	5003200
8	1	Cover Glass Gasket	5003300
9	1	Splice Box Cover	5002900
10	1	Splice Box Cover	2648600
11	8	Pan Head Machine Screw 8-32 x 3/8, Sems	6002000
12	1	Plain Cover Glass	4602500
13	1	Heat Shield	2654800
14	1	Lamp Socket	4502300
15	1	Socket Support Assembly (Including Diaphragm)	1630700
16	1	Socket Support Bracket (BT-37 PSMH Lamps)	2648700
17	2	Washer	2646000
18	4	Groove Pin, 1/4 Dia. x 3/4, S.S.	6510500
19	2	S.S. Hex Head Cap Screw, 1/2-13 x 1-1/2	6034100
20	1	Lamp Retainer Assembly	1611100
21	1	Socket Support Bracket (E-18 HPS Lamps)	2654300
22	4	S.S. Slotted Pan Head Machine Screw, 1/4-20x1	6003700
23	2	S.S. Split Lock Washer, 1/2	6311900
24	18	S.S. Hex Washer Head Type 25 Screw, No. 10 x 1	6020800
25	1	Cover Glass Retaining Strip Set	1055700
26	1	Diaphragm Ring	2040801
27	1	Reflector (MRSE400***C Only)	2672300
28	6	Sems Phillips Pan Head Machine Screw, 8-32 x 3/8 (MRSE400***C Only)	6002000
29	2	Backup Plate Assembly (MRSE400***C Only)	1832100
30	4	U-Type Nut for No. 8 Screw (MRSE400***C Only)	6241500
31	2	Bracket (MRSE400***D Only)	2307600
32	4	Type B, Phillips Pan Head Screw, 8-3/8 (MRSE400***C Only)	6021000
33	2	Bracket (MRSE400***C Only)	2307800
34	1	Reflector Assembly (MRSE400***D Only)	1838200
35	1	Bracket (MRSE400***D Only)	2309800
36	6	Pan Head Machine Screw (MRSE400***D Only)	6002000
37	2	Round Head Machine Screw (MRSE400***D Only)	6006800
38	2	Lock Washer (MRSE400***D Only)	6312800

WHEN ORDERING:

SPECIFY PART NUMBER, DESCRIPTION, QUANTITY AND MODEL NUMBER.

PRICES: F.O.B. PHOENIX DOCK TERMS: NET 30 DAYS MINIMUM ORDER: \$50.00

N5475500O-4

WIRING: SUPER-MARINE FIXTURES

The MRSE400 fixtures are furnished with a splice box supplied with a ½ inch NPT tapped hole for connecting the fixture to a suitable ballast. The green conductor is grounded to the fixture and must be connected to a positive ground. The other conductors are connected to the lamp holder and must be connected to the ballast according to the ballast wiring diagram.

DO NOT CONNECT GREEN (Ground) WIRE TO THE POWER SOURCE.

CAUTION

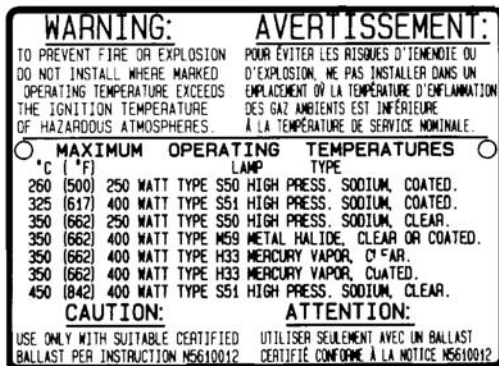
All wiring should be done by licensed electricians in accordance with state & Local Codes as well as the NEC (National Electrical Code) Standards.

When fixture is installed in a Class 1, Div. 2 Hazardous Location, strict compliance to the fixture warning label instructions must be met.

WIRING

Wiring connections must be made with metal conduit, or flexible cord in compliance with Class 1, Div. 2 Wiring Methods defined in the National Electrical Code.

FIXTURE WARNING LABEL INSTRUCTIONS



ONE YEAR PRODUCTS WARRANTY - (Limited Type)

Phoenix Products Company, Inc., warrants its products against defects in material and workmanship. Without charge, Phoenix Products Company will either repair or replace (Phoenix Products Company reserves the right to decide between repair or replacement) any properly installed Phoenix Products Company manufactured product which fails under normal operating conditions within one year from date of installation, provided it is returned to the factory (after authorization), transportation prepaid, and our inspection determines it to be defective under terms of this warranty.

The warranty covers only equipment manufactured by Phoenix Products Company and does not extend to transportation, installation, or replacement charges at buyer's facility; nor does it apply to any other equipment of another manufacturer used in conjunction with Phoenix Products Company equipment. No other warranty, expressed or implied, exists beyond that included in this statement.

CLEANING

If the interior surface of the cover glass or reflector surface becomes dirty it is recommended that they be cleaned to maintain maximum output. Ample access into the fixture exists when the socket housing is removed. The glass may be cleaned with a soft cloth using soapy water or special reflector cleaners.

To prevent gaskets from sticking at sealing surfaces it is recommended that a liquid silicone release agent be lightly applied to gaskets when replacing any of the access covers. Best results are achieved when one application is wiped dry (to clean the gasket surface) and then a second application remains wet.

LAMPING

CAUTION

1. Operate lamps ONLY with proper ballast.
2. In event of lamp failure, replace lamp or disconnect primary power to ballast within two weeks at the very most. This will prevent damage to electrical components from dielectric stresses may result from the high voltage starting pulses unique to High Pressure Sodium and Pulse Start Metal Halide circuits.
3. Use protective gloves when replacing lamps plus protective eye equipment.
4. If outer glass lamp bulb is broken, turn off lamp and replace it promptly to avoid exposure to ultraviolet energy. Even with lamp outer glass enclosure broken, the arc tube may continue to fire.
5. The arc tubes contain mercury and/or sodium. Use appropriate care in desposal of failed or broken lamps.