

! CAUTION

- All wiring should be done by a licensed electrician in accordance with state codes, local codes and National Electric Code (NEC) standards.
- Improper installation may result in serious injury and void warranty.
- When fixture is installed in a Class I, Division 2 Hazardous Location, strict compliance to the fixture warning label instructions must be met.
- Wiring connections must be made with metal conduit or flexible cord in compliance with Class I, Division 2 wiring methods defined in the National Electric Code.
- Operate lamps ONLY with proper ballast.
- In event of lamp failure, replace lamp or disconnect primary power to the ballast within two weeks at the very most. This will prevent damage to electrical components from dielectric stresses, which may result from the high voltage starting pulses unique to High Pressure Sodium and Pulse Start Metal Halide circuits.
- Use protective gloves and eye equipment when replacing lamps.
- If outerlamp glass is broken, turn off lamp and replace it promptly to avoid exposure to ultraviolet energy. Even with the outer lamp glass broken, the arc tube may continue to fire.
- The arc tubes contain mercury and/or sodium. Use appropriate care in disposal of failed or broken lamps.

Wiring

MRSE 1000 Series fixtures are furnished with a splice box supplied with a ½ inch NPT tapped hole for connecting the fixture to a suitable ballast. When installing cord grip, a minimum of four (4) turns is required. Thread sealing tape or paste is also required. The green conductor is grounded to the fixture and must be connected to a physical earth. 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.

Maximum Operating Temperatures

| C° | F° | Lamp | Type |
|-----|-----|----------------|----------------------------------|
| 450 | 842 | 1000 watt type | M-47 Metal Halide, clear |
| 450 | 842 | 1000 watt type | S-52 High Pressure Sodium, clear |

Caution: use only with suitable certified ballast

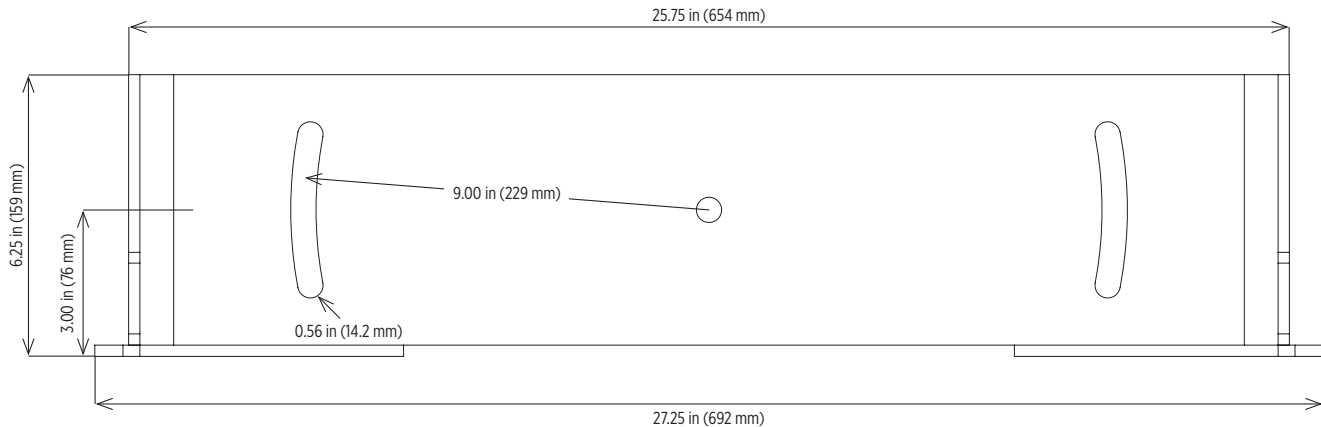


Mounting

Fasten fixture with three (3) or more ½ inch bolts through hole and slots in harp assembly. Use dimensions shown in Figure 1. Do not mount on unsupported cab or house roof. Attach near corner supports or use adequate sub-base. Avoid boom mounting on lightweight 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.

Special HPS note: As a general rule, the maximum recommended distance for remote mounting High Pressure Sodium ballasts is 35 feet for voltage stabilized types and 5 feet for lag types. Refer to the specific ballast manufacturer's recommendation when installing ballasts.

Figure 1: Mounting Dimensions for MRSE 1000 Harp



Lamping

These fixtures are designed for 1000W BT-56 Metal Halide and E-25 High Pressure Sodium lamps. Suitable remote mounted ballasts¹ are required for the various lamp types. Lamping may be accomplished by removing the bottom socket housing. Loosen the 1/4-20 x 1 inch screws which hold the socket housing in place. Rotate housing and pull away from fixture.

When re-lamping, it is recommended the cover glass and reflector be cleaned to maintain fixture efficiency (see Cleaning, below).

Lamp Recommendations

| | Lamp Source and Type | | High Pressure Sodium |
|--------------------------------------|--|---------------|----------------------|
| | Metal Halide (MH) ² | | |
| | Clear | Coated | |
| ANSI code no. ³ | M47PA-R1000/U | M47PB-R1000/U | S52XB-1000 |
| remote ballast required ¹ | Refer to BLST Spec Sheet | | |
| specify voltage | quad volt (120, 208, 240, 277) 60Hz; 480 volt 60Hz | | |

¹ Phoenix heavy duty voltage stabilized ballasts are recommended for optimum service and performance. Remote ballasts are sold separately.

² Metal Halide is sometimes referred to as "Multi-Vapor."

³ The ANSI code of the lamp must match the ANSI code of the ballast.

Cleaning

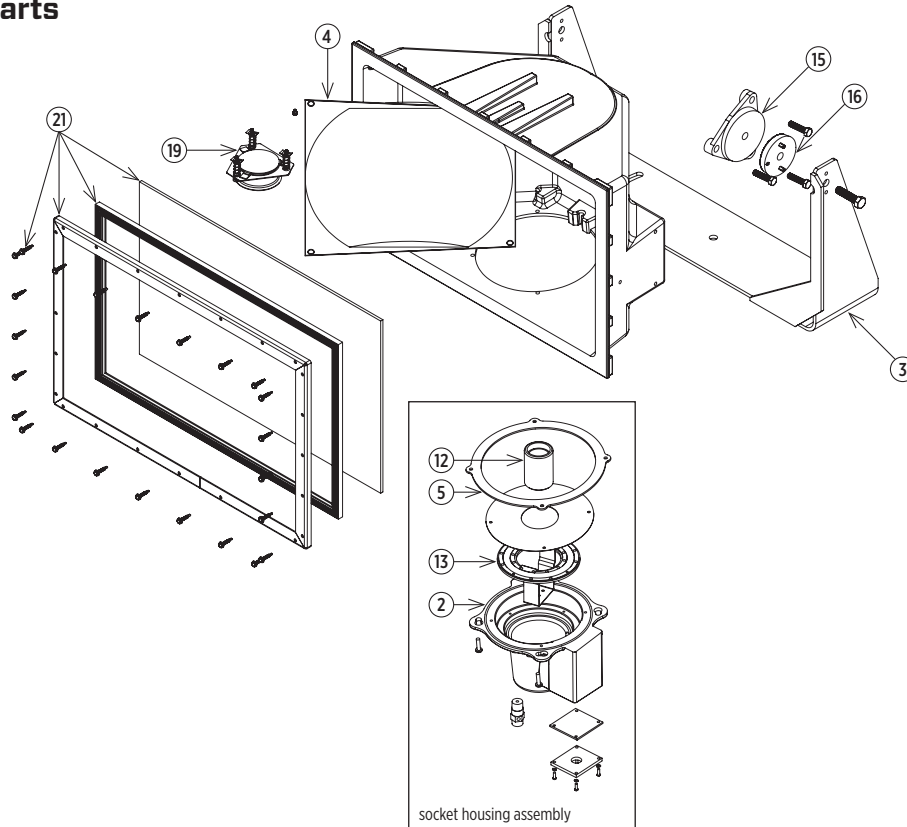
If the interior surface of the cover glass or reflector surface becomes dirty, it is recommended that they be cleaned to maintain maximum output. Remove the socket housing to gain access into the fixture. The glass may be cleaned with any non-abrasive conventional glass cleaner. The reflector should be cleaned with a soft cloth using soapy water or special reflector cleaners.

To prevent gaskets from sticking at sealing surfaces, lightly apply a liquid silicone release agent to gaskets when replacing any of the access covers. For best results, wipe first application until dry (to clean the gasket surface) and then apply a second application and allow to remain wet.

Aiming

Aiming adjustments are made by loosening the harp and base fastening bolts and rotating the fixture and harp to the desired aim point. The fixture may be adjusted 360° in elevation and 22° in azimuth. Mounting locations should be established to position the fixture close to the desired azimuth aiming angle at installation. A gauge is provided on the side of the harp to aid in setting the desired elevation.

Repair Parts



Repair Parts List

| Item | Qty | Description | Part No. |
|------|-----|--|--------------------|
| 2 | 1 | socket housing assembly | 1827501 |
| 3 | 1 | harp | 1862970 |
| 4 | 2 | MRSE1000A (narrow optic) reflector half MRSE1000B (wide optic) reflector half | 2647501 2647503 |
| 5 | 1 | port gasket | 5003000 |
| 12 | 1 | lamp socket | 4502300 |
| 13 | 1 | socket support assembly (including diaphragm) | 1630600 |
| 15 | 2 | hub assembly | 1821500 |
| 16 | 2 | aiming washer | 2646000 |
| 19 | 1 | lamp retainer assembly | 1610900 |
| 21 | 1 | lens replacement kit (includes lens, gasket, lens retainer and hardware) | contact factory |

Product design and specifications are subject to change without notice.

