

METAL HALIDE, PULSE START METAL HALIDE, HIGH PRESSURE SODIUM

CAUTION: These electrical checks should only be performed by qualified personnel familiar with the use of electrical test procedures and aware of potential shock hazards inherently present with electrical equipment.

QUICK CHECK

1. Replace lamp with a known good lamp from an operating fixture.
2. Check for proper line voltage at ballast input leads.
3. Visually check for loose connections, burned wiring or physical damage.
4. Replace obviously defective ballast.

VISUAL CHECK LIST

1. Does the lamp look good?
 - A. Is the Arc Tube black?
 - B. Is the Arc Tube or outer jacket cracked or broken?
 - C. Is the lamp broken where the glass envelope joins the metal base?
2. Is the correct lamp installed?
 - A. Is the lamp wattage correct?
 - B. Is the ANSI designation correct?
EXAMPLE: 150HPS Lamps are available in ANSI Types S55 (55v Arc Tube) and S56 (100v Arc Tube)
 - C. Is the lamp correct for burning position?
175-1500w Metal Halide lamps are available in two versions:
 - A. Type M57,M58,M59-Horizontal($\pm 15^\circ$)HOR only—uses a special yellow socket, (EXAMPLE:MS175/HOR)
 - B. Type M47,M48,M57,M59-VERTICAL or UNIVERSAL—(BU or BD) Separate version of base up or base down. Be sure base is correctly oriented. (EXAMPLE:M175/BU-Orient base up). Universal burn lamps will operate in all positions. (EXAMPLE: MVR175/U)

3. Does the ballast look good?
 - A. Are the core and coil charred?
 - B. Is the capacitor swollen?
 - C. Is the capacitor leaking fluid?
 - D. Are there any loose or charred leads?
4. Socket condition?
 - A. Is the socket shell broken?
 - B. Is there any sign of arcing?
 - C. Are there any loose or charred leads?
 - D. Is the lamp properly seated? (Screw the lamp in firmly)

ELECTRICAL TEST

1. Line Voltage:
 - A. Regulating type ballast (CWA)
Voltage should be $\pm 10\%$ of ballast nameplate rating. (EXAMPLE:120v Rating—Max. 132v, Min.108v).
 - B. Non-Regulating (HX-HPF)
Voltage should be $\pm 5\%$ of ballast nameplate rating. (EXAMPLE:120v Rating—Max. 126v, Min. 114v).
 2. Lamp Voltage:
 - A. Remove lamp from socket and measure voltage at socket.
 1. Metal Halide 175w-400w open circuit voltage should be 300v. 1000w M47 should be 420v.
 2. High Pressure Sodium:

CAUTION:To prevent damage to the voltmeter by the ignitor, disconnect the ignitor leads or connect a .068MFD 1000v DC capacitor across the voltmeter terminals.

 - A. 70w-150w open circuit voltage should be 114v minimum. 200w-400w should be 195v minimum. 1000w should be 445v minimum.
 - B. A mercury lamp of equal wattage may be temporarily substituted for the HPS lamps. If Mercury lamp operates, replace the ignitor.
- CAUTION:**Do not operate mercury lamp longer than 30 minutes.