

NON-METALLIC CHAMP® HID LIGHTING FIXTURES

N2MV SERIES ~ 50 - 175 WATTS

Installation & Maintenance Information

IF 1341

SAVE THESE INSTRUCTIONS FOR FUTURE REFERENCE

APPLICATION

CHAMP® N2MV Series fixtures may be used in areas that are classified as Class I, Division 2; Class II, Division 1 & 2, Groups F, G; Class III and simultaneous presence in hazardous (classified) locations as defined by the National Electrical Code®. The T-rating of the fixture must not exceed the ignition temperature of the atmosphere in which it is to be operated. Refer to the fixture nameplate for specific classification information and appropriate operating temperature (T) rating.

N2MV Series fixtures are designed for use in wet locations, outdoor marine and all industrial locations, indoors and outdoors, where moisture, dirt, corrosion, vibration and rough usage may be a problem.

N2MV Series lighting fixtures are supplied with a choice of voltage and light sources. Mercury Vapor (MV), Metal Halide (MH) or High-Pressure Sodium (HPS), in ratings of 50 through 175 watts.

FIXTURE INSTALLATION

⚠ WARNING

To avoid electrical shock electrical power must be **OFF** before and during installation and maintenance.

1. Loosen the captive screw holding the cover module to the ballast housing. See Figure 1.

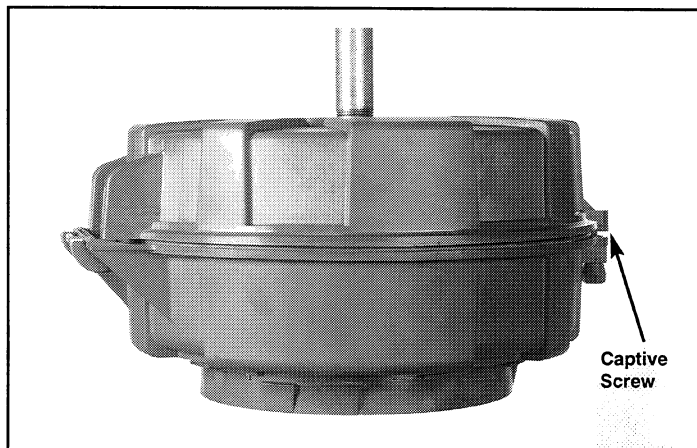


Figure 1

2. Carefully separate cover module and ballast housing.

⚠ WARNING

CHAMP HID Lighting Fixtures are designed for operation only with the lamp base **UP** within 25° of the vertical position. To limit fixture temperature do not install in any classified location where the marked operating temperatures exceed ignition temperatures of hazardous atmospheres. Do not install fixtures in a location where ambient temperature exceeds maximum ambient temperature indicated on fixture nameplate. To sustain fixture integrity keep tightly closed when in operation.

3. Mount the cover module in its support position - pendant, ceiling, or stanchion following methods that comply with NEC and any local codes. If pendant or stanchion mount, tighten set screw located in the conduit hub. See Figure 2.

If you have purchased a wall mount fixture (suffix WM1), please follow the instructions below:

- Drill four appropriate holes into your wall or structure to accommodate the pre-drilled 3/8" holes in the stainless steel arm. Securely mount the wall arm to your wall structure.
- Mount the cover module to the wall arm by tightening the two (5/16") bolts that are provided.

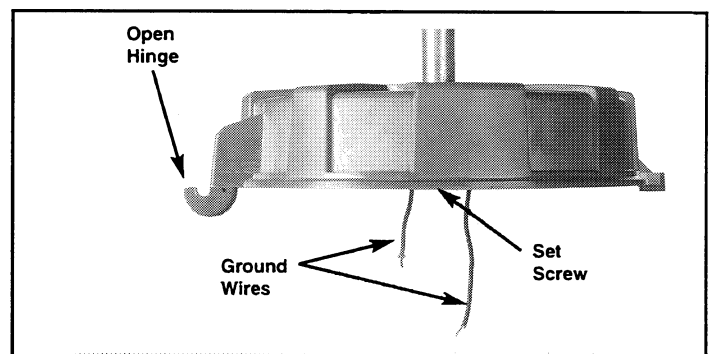


Figure 2

4. Hang ballast housing on cover module hinge hook by nesting hinge pin fully into hinge hooks. Squeeze pin and hooks with thumb and fingers rather than merely pulling down on housing. See Figure 3.
5. Connect fixture leads to field wiring leads using methods that comply with NEC and any local codes. Use proper temperature wire as indicated on fixture nameplate. Attach grounding connection - one to ballast housing and one to field ground.

⚠ CAUTION

To avoid electrical shock, all unused leads must be capped with non-removable closed end wire connectors.

⚠ WARNING

To reduce the risk of injury, use fixture only on grounded systems. Make sure that supply voltage is the same as fixture voltage.

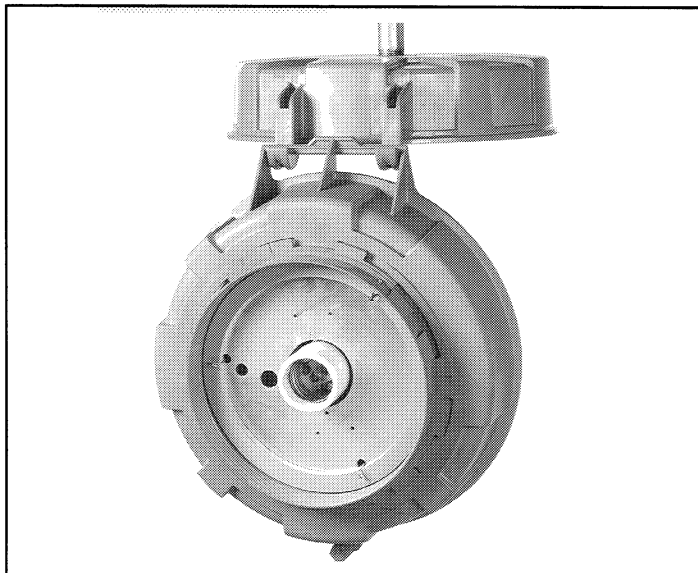


Figure 3 (Pendant Mount Shown)

6. Swing housing into closed position ensuring cover module hinge remains fully seated on the ballast housing hinge pin and that all wires are safely inside and positioned away from the ballast area.
7. Tighten captive screw with a slotted screw driver.
8. Install lamp as specified on nameplate.

CAUTION

To avoid injury use only lamp size, type and wattage specified on nameplate of fixture.

9. Install globe or refractor and optional guard and/or reflector. See following instructions.

GLOBE AND GUARD INSTALLATION

Install globe on fixture by placing over lamp and hand tighten onto ballast housing. Push guard in place around ballast housing.

REFRACTOR INSTALLATION

Install refractor on fixture by placing over lamp and hand tighten onto ballast housing. Follow instructions furnished with refractor for complete installation and adjustment information. R/GR and PR/PGR type refractors are not marine listed.

REFLECTOR INSTALLATION

Install dome or 30° angle reflector by placing the reflector tabs at locations on the ballast housing and rotating clockwise until it "snaps" into position.

RELAMPING

CAUTION

When high pressure sodium or 70 and 100 watt metal halide lamps burn out, replace as soon as possible to prevent damage to the ballast.

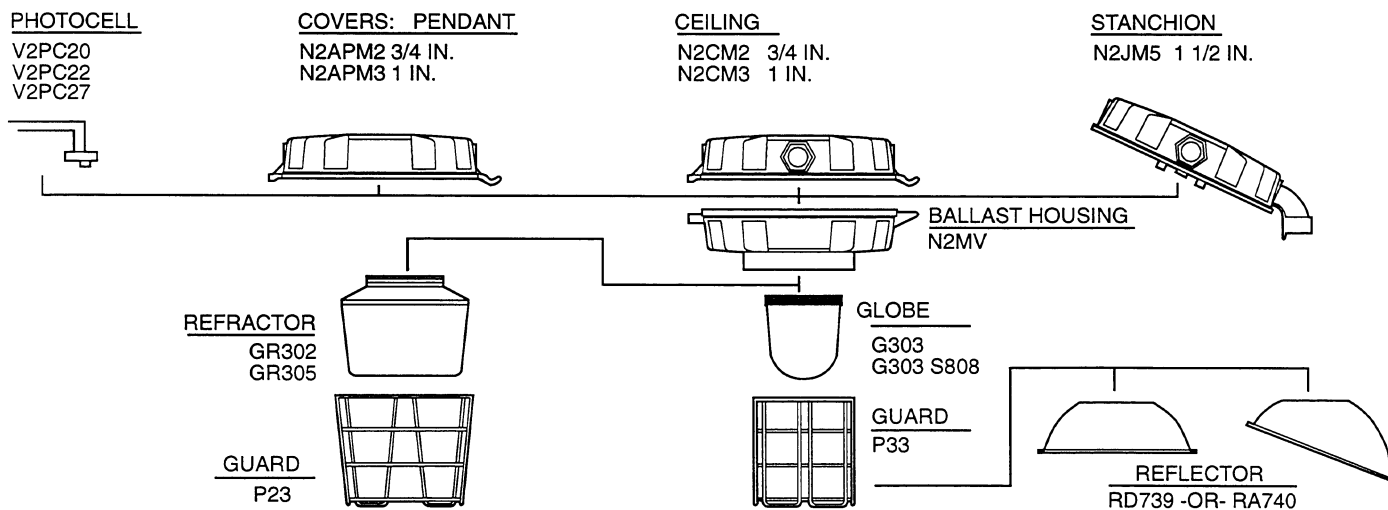
1. Shut off power to the fixture.
2. Remove globe for access to the lamp.
3. Replace lamp with an identical type lamp as marked on the fixture nameplate.
4. Replace globe.

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FIELD ASSEMBLED FIXTURES

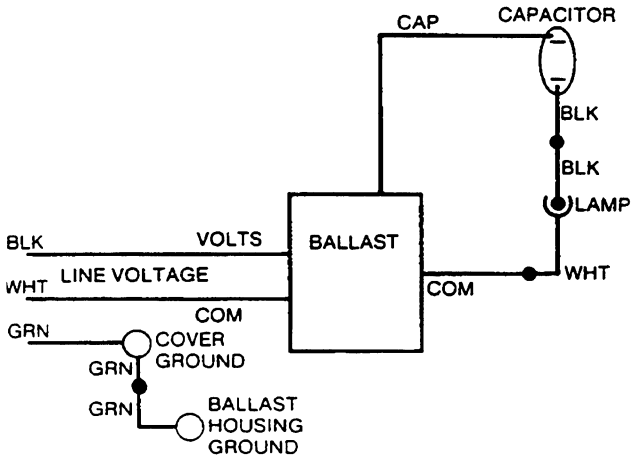
CHAMP® N2MV Series lighting fixtures, 50 - 175 watts.

Complete lighting fixture consists of cover, ballast enclosure and globe refractor, with or without guard or reflector.



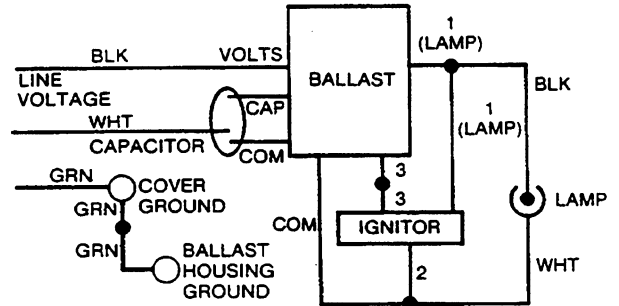
WIRING DIAGRAMS

Mercury Vapor - 100 and 175 Watts
 All voltages
 Metal Halide - 175 Watts
 All voltages



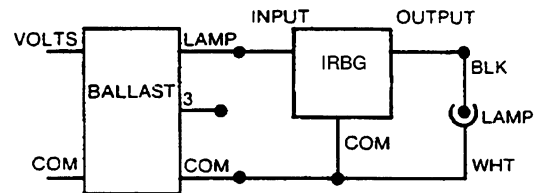
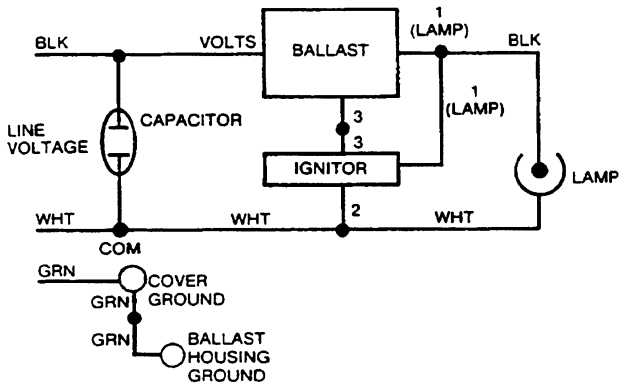
High Pressure Sodium (HPS) - 50, 70, 100 and 150 watts
 120, 208, 240, 277 (MT)
 or 480 volts

Metal Halide (MH) - 70 and 100 watts
 120, 208, 240 277 (MT)
 or 480 volts



High Pressure Sodium (HPS) - 50, 70 100 and 150 watts
 120V only

Instant Restrike/Ballast Gard
 70, 100 and 150 watts HPS Only
 (Catalog Suffix IRBG)



MAINTENANCE

⚠ WARNING

To avoid electrical shock, always disconnect Primary Power Source before opening fixture for inspection or service.

Always disconnect Primary Power Source before opening fixture for inspection or service. Perform visual, electrical and mechanical inspections on a regular basis. This should be determined by the environment and frequency of use. However, it is recommended that check should be made at least once a year. We recommend an Electrical Preventive Maintenance Program as described in the National Fire Protection Association Bulletin NFPA No. 70B. The globe and reflector should be cleaned periodically to insure continued lighting performance. To clean, wipe the reflector, then the globe with a clean, damp, soft cloth. If this is not sufficient, use a mild soap or liquid cleaner such as Collinite NCF or Duco #7. Do not use an abrasive, strong alkaline or acid cleaner. Damage to the reflector may result.

- Relamp high pressure sodium and 70 and 100 watt metal halide fixtures as soon as possible after the lamp burns out to prevent damage to the ballast.
- Visually check for undue heating evidenced by discoloration of wires or other components, damaged parts, or leakage evidenced by water or corrosion in the interior.
- Electrically check to make sure that all connections are clean and tight.
- Mechanically check that all parts are properly assembled.

All statements, technical information and recommendations contained herein are based on information and tests we believe to be reliable. The accuracy or completeness thereof are not guaranteed. In accordance with Crouse-Hinds "Terms and Conditions of Sale", and since conditions of use are outside our control, the purchaser should determine the suitability of the product for his intended use and assumes all risk and liability whatsoever in connection therewith.
