MAINTENANCE

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.

NON-METALLIC CHAMP® HID LIGHTING FIXTURES
N2MV SERIES ~ 50 - 175 WATTS
Installation & Maintenance Information

COOPER Crouse-Hinds

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

![Figure 1](image1.png)

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

2. Carefully separate cover module and ballast housing.

![Figure 2](image2.png)

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.

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.

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Syracuse, New York 13221 • U.S.A.
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Cooper Crouse-Hinds

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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. RXGR and PRPGR 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.

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)
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. VRGR and PRGR 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.

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.

**PHOTOCELL**
V2PC20
V2PC22
V2PC27

**COVERS: PENDANT**
N2APM2 3/4 IN.
N2APM3 1 IN.

**CEILING**
N2CM2 3/4 IN.
N2CM3 1 IN.

**STANCHION**
N2UMS 1 1/2 IN.

**BALLAST HOUSING**
N2MV

**REFRACTOR**
G3002
G3005

**GUARD**
P33

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**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

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**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)

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**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.
MAINTENANCE

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.

NON-METALLIC CHAMP® HID LIGHTING FIXTURES
N2MV SERIES - 50 - 175 WATTS
Installation & Maintenance Information

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 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

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.

2. Carefully separate cover module and ballast housing.

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.

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.

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.

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