



INSTALLATION AND MAINTENANCE INSTRUCTIONS

HMX/HMXC/HMXA HIGH MOUNT LARGE AREA LUMINAIRES

HMX high mount luminaires are specifically designed for lighting large areas from mounting heights of 70 to 150 feet. They are normally mounted in multiple combinations on HMP poles equipped with lowering devices.

GENERAL

Read this material carefully before attempting any installation or maintenance procedures.

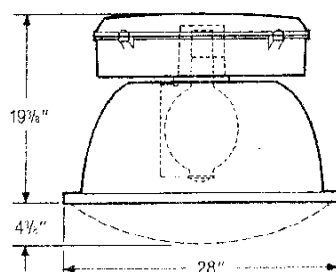
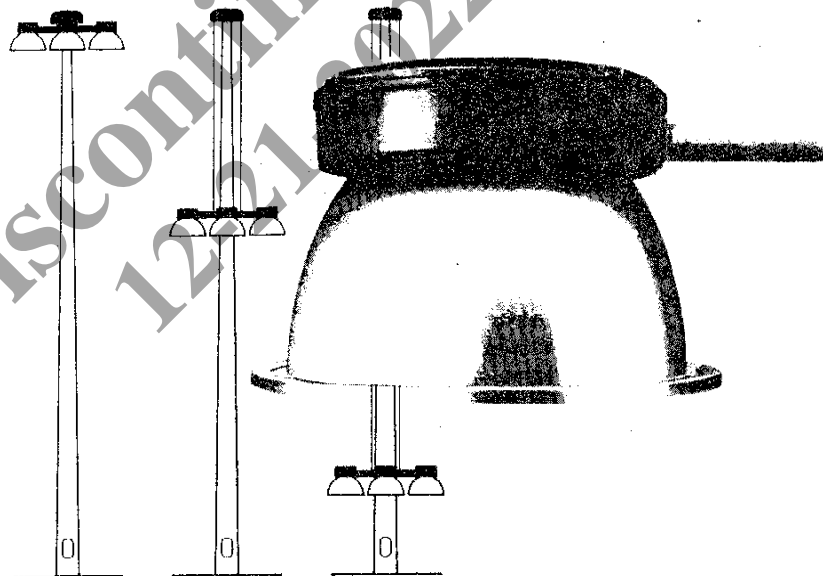
All HMX series luminaires are factory-wired for specified voltages. Groundings must be done in a manner that will comply with the National Electric Code® and any applicable local code requirements for the types of installation used. Do not use pole as ground.

Luminaires are packed and shipped as complete assemblies. Individual units are heavy, weighing 42 to 75 pounds, and bulky (see dimensions). Some installation operations will probably require at least two persons.

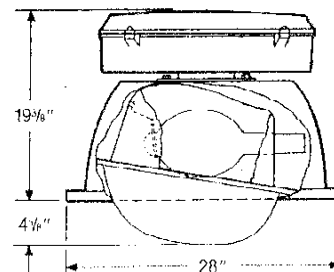
WARNING

Make certain power is OFF before starting installation or attempting any maintenance.

NOTE: If at any time during installation, use or maintenance, a defect in this equipment is suspected, a Crouse-Hinds representative must be immediately contacted. Any action to use, modify or correct such equipment prior to approval by Crouse-Hinds shall void all warranties, implied or expressed.



Models HMX and HMXC



Model HMXA

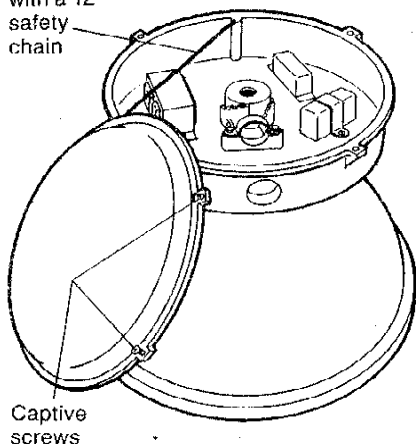
HOW TO INSTALL

- 1 Use lowering device to bring luminaire mounting ring down to working height. Make a visual check of pole and anchor bolts. Determine placement of luminaires on mounting ring.

WARNING
Make certain power is OFF
before starting installation.

- 2 Loosen four captive screws to remove ballast cover.

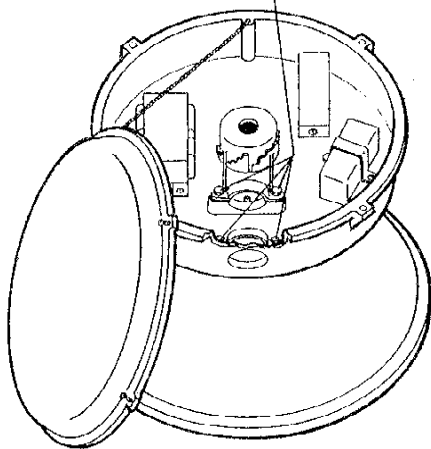
Cover is tethered
with a 12"
safety
chain



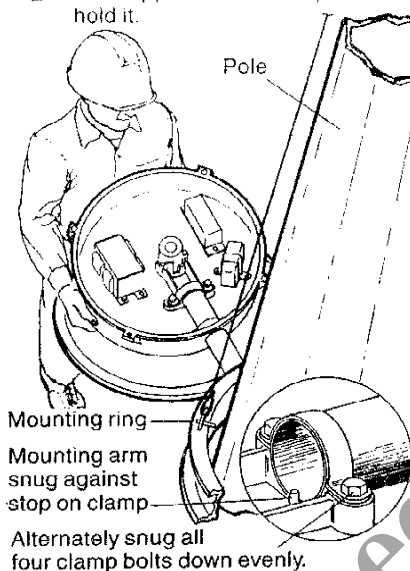
Captive
screws

- 3 Loosen clamping straps enough to allow clearance for mounting arm.

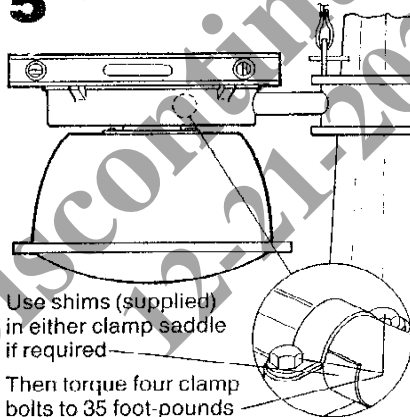
Loosen four 1/2" hex
head clamp bolts



- 4 Slide luminaire onto mounting arm and support it until clamps can hold it.



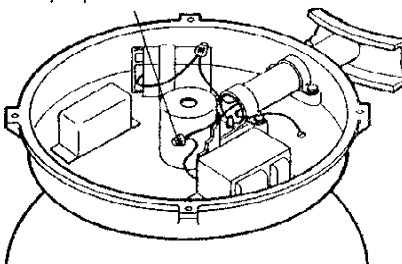
- 5 Check that luminaire is level.



**NOTE: Rereck level of luminaire
after bolts are torqued to assure
alignment was not affected.**

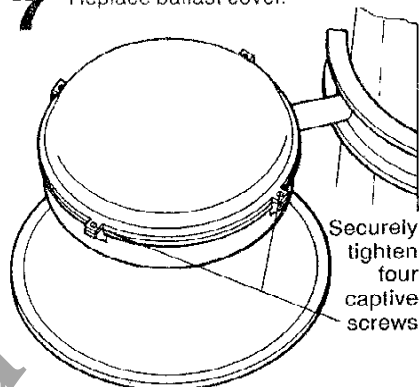
- 6 Pull supply wires out of mounting arm. Connect luminaire leads to supply wires in accordance with all applicable codes.

Use proper connectors

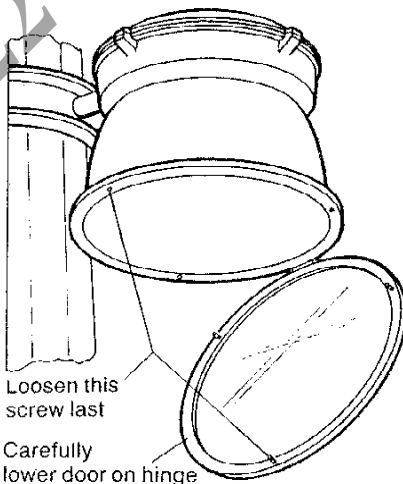


**NOTE: Check to be sure that supply
wires are connected within the
junction box on the mounting ring of
the lowering device.**

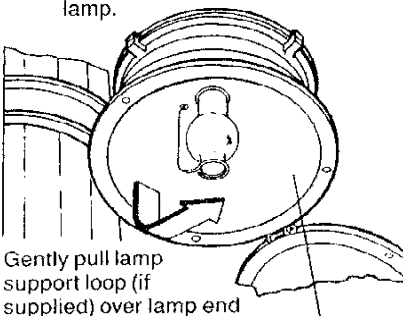
- 7 Replace ballast cover.



- 8 For luminaire with lens, loosen three captive screws to open lens door.

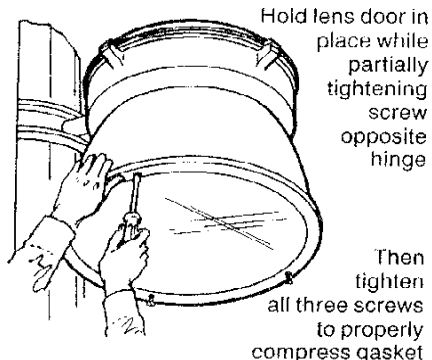


- 9 Install proper lamp — see LAMPING AND RELAMPING or nameplate. Push lamp support (if supplied) aside while tightening lamp.



Wipe inside of reflector with a soft,
clean, dry cloth to remove dust and dirt

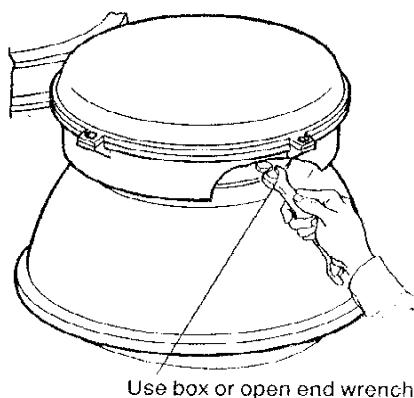
- 10** For luminaire with lens, wipe both sides of lens with a soft, clean, dry cloth to remove all dust and dirt. Then close lens door.



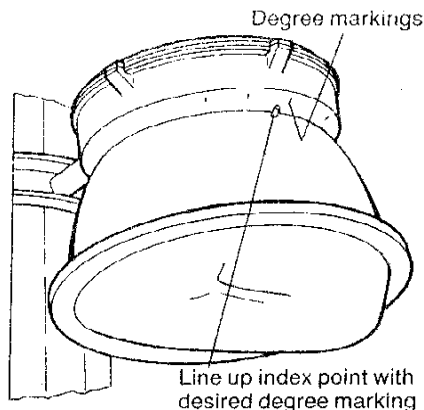
- 11** After all luminaires are installed, turn power on. Lighting should be tested before lowering device is raised back into place.

HOW TO AIM HMXA ROTATING BEAM PATTERN

- 1** Loosen four $\frac{7}{16}$ " hex head screws just enough to turn reflector.



desired beam position.



- 3** Securely tighten four $\frac{7}{16}$ " hex head screws to hold reflector in position.

Turn power on

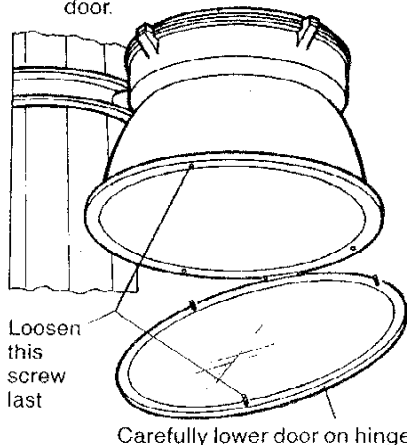
MAINTENANCE

Periodic cleaning will ensure continued light level and fixture appearance. Local conditions will dictate the cleaning cycle.

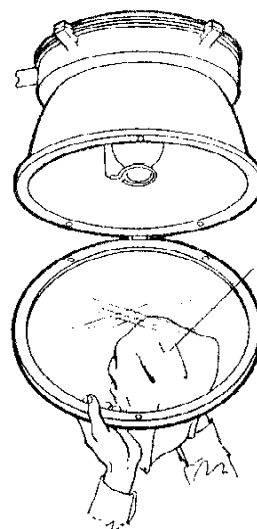
- 1** Use lowering device to bring luminaire mounting ring down to working height. Make a visual check of pole, anchor bolts, mounting ring and all luminaire hardware.

WARNING
Make certain power is OFF before attempting any maintenance.

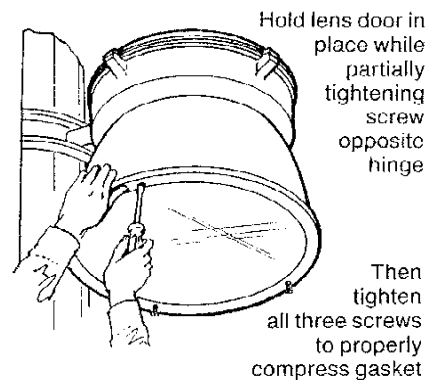
- 2** For luminaire with lens, loosen three captive screws to open lens door.



sides of lens (if present).



- 4** Check that lamp is tightened. For luminaire with lens, close lens door.



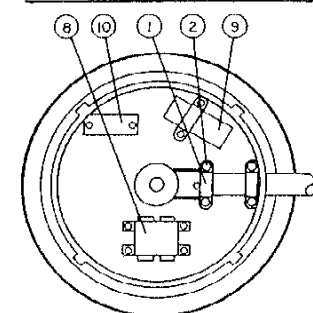
- 5** After all luminaires are serviced, turn power on. Lighting should be tested before lowering device is raised back into place.

LAMPING AND RELAMPING

Lamps are **not** supplied. Replace High Pressure Sodium lamps within one month of lamp failure to prevent damage to ballast.

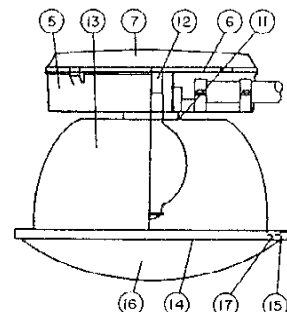
Luminaire Cat. No.	Lamp Description	Lamp Wattage	ANSI No.
HMX-400-LEC HMXC-400-LEC HMXA-400-LEC	High Pressure Sodium	400	S51WA-400
HMX-1000-LEC HMXC-1000-LEC HMXA-1000-LEC	High Pressure Sodium	1000	S52XB-1000
HMX-1000-MHP HMXC-1000-MHP HMXA-1000-MHP	Metal Halide Mercury Vapor	1000 1000	H36GW-R1000/DX M47PA-R1000/U

REPLACEMENT PARTS

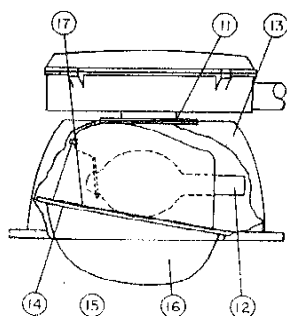


Item Description	Part No.
HMX and HMXA	
1 Tenon Clamps (2)	0507164-1
2 Tenon Clamp Bolts (4)	10H69-050C40
3 Leveling Shims (3)	0507668-1
4 Tenon Gasket	0507168-1
5 Ballast Housing	0506991-1
6 Ballast Housing Gasket	0507220-3
7 Ballast Housing Access Door	0506990-1
8 Ballast	See Note
9 Capacitor	See Note
10 Starter (furnished with high pressure sodium units only)	See Note
11 Reflector Gasket	0507177-1

NOTE: For ballast, capacitor or starter replacement, contact local Crouse-Hinds Company representative, specifying luminaire catalog number. (See LAMPING AND RELAMPING or nameplate for catalog numbers.)



HMX Only	
12 Lampholder — 400W HPS, 1000W MV and MH	20V09-002
1000W HPS	20V16-001
13 Reflector — Specular, 1000-LEC	0506989-2
Diffuse, 400-LEC/1000-MHP	0506989-1
14 Lens Door	0506992-1
15 Lens Door Gasket	0506073-4
16 Lens — Flat	0506998-1
Convex	0506999-1
17 Lens Gasket	13G03-1627



HMXA Only	
12 Lampholder — 400W HPS, 1000W MV and MH	20V09-003
1000W HPS	20V16-003
13 Reflector — IL, IIIL	0507553-1
IIM, IIIM	0506989-4
14 Lens Door — IL, IIIL	0502579-1
IIM, IIIM	0506992-1
15 Lens Door Gasket — IL, IIIL	0506073-4
IIM, IIIM	0502568-1
16 Lens — Refractor IL, IIIL	0506998-1
Flat IIM, IIIM	13G03-1524
17 Lens Gasket — IL, IIIL	13G03-1627
IIM, IIIM	

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 herewith.

THIS INSTRUCTION SHEET SHOULD BE GIVEN TO PERSON RESPONSIBLE FOR SUPERVISING MAINTENANCE OF THIS SYSTEM AND SHOULD BE FILED FOR FUTURE USE.

COOPER CROUSE-HINDS LIGHTING
Lighting Solutions

CROUSE-HINDS COMPANY • LIGHTING PRODUCTS DIVISION • SYRACUSE, NY 13201