! 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.
- Disconnect power before relamping.
- Use only UL listed components suitable for Class I Division 1, Groups C & D and Class II Division 1, Groups F & G installation.
- All threaded connections must engage five full threads.
- In event of lamp failure, replace lamp or disconnect primary power to ballast within two weeks at the very most. Otherwise, permanent damage to electrical components from dielectric stresses may result from the high voltage starting pulses unique to high pressure sodium circuits.
- To avoid fire or explosion, maximum allowable temperatures have been established for various classes and groups defined as hazardous zones.

Wiring

The wire entrance to the light head is factory sealed and threaded to accept ½ inch threaded conduit or unions. Wiring must comply with Class I Division 1 and Class II Division 1 wiring methods defined in National Electric Code (NEC). Figure 1A and 1B shows suggested mounting configurations and wiring methods. Acceptable Components (below) identifies the Class I and Class II components used in these suggested installations. Flexible coupling, junction box and any other part(s) required to complete wiring are not furnished with the fixture. These items must be ordered separately through a local distributor.

Mounting

This fixture is designed for wall or ceiling mounting. It mounts to a flat surface with a single ½ inch (13 mm) bolt (not supplied). The fixture has 72.00 inches (1829 mm) of #16 gauge wire for connecting at the wall mounted switch or junction box through ½ inch flexible coupling or threaded, rigid conduit.

Acceptable Components

Item in Figure 1 - page 2	Acceptable Component*
A	½ inch male union
B	½ inch rigid conduit
C	½ inch 90° female elbow
D	½ inch diameter flexible coupling, 36.00 inch (914 mm) long with two removable close nipples

*UL Listed for Wiring Fixtures in Class I, Division 1 Groups C & D, and Class II, Division 1 Groups F & G Installations

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Installation

1. Mount fixture assembly to wall or ceiling. One ½ inch (13 mm) bolt is required.
2. Locate power supply junction box or switch close enough to fixture so that wire splices between the junction box and fixture are not required. See Figure 1A.
3. If flexible coupling is being used to connect to the fixture, make certain that all bends in the coupling have a radius of at least 10.00 inches (254 mm).

Figure 1A

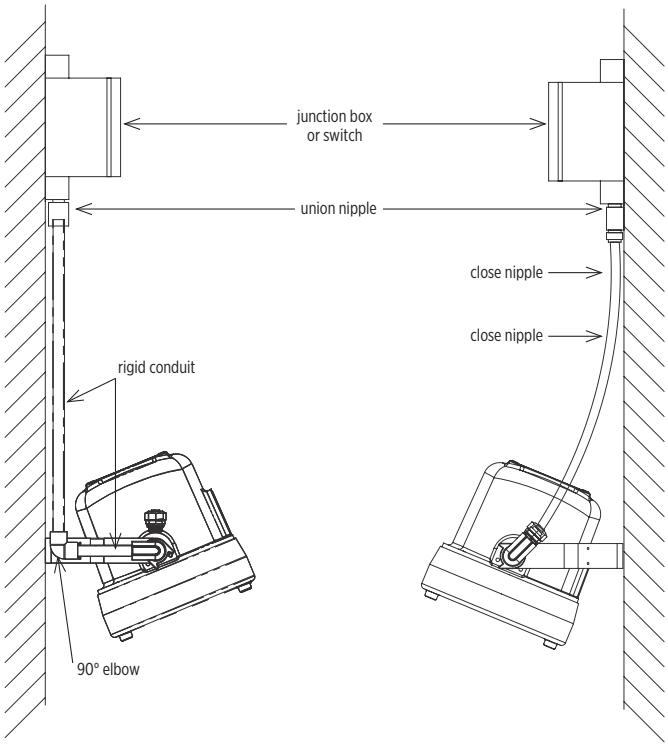
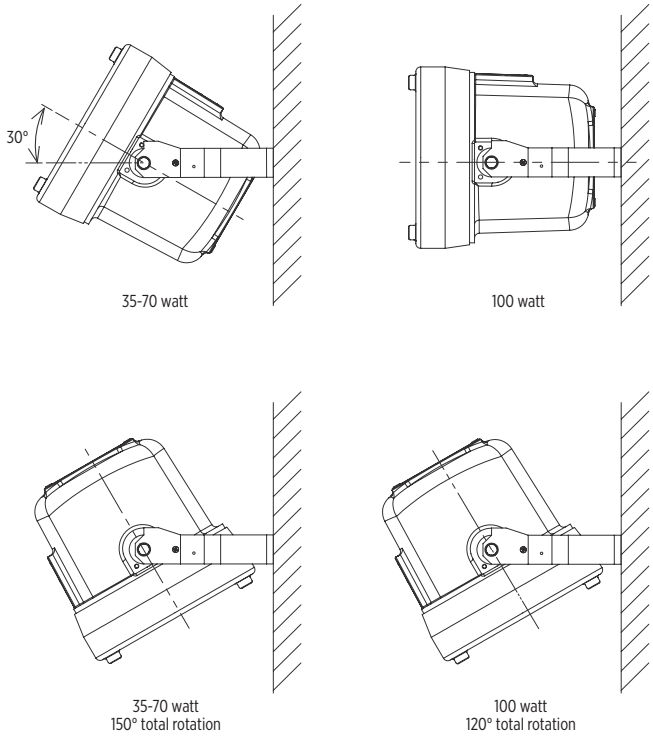


Figure 1B
Aiming Limits - Class II Group G



Aiming

The fixture should be aimed prior to wiring to your source of power. After the fixture is connected, positioning freedom will be limited by any rigid conduit used in the electrical hookup. Fixture elevation angle may be adjusted 61 degrees. It is limited by the position to the pin (Item 22 on repair parts illustration on page 5) and the ears on the sealed elbow assembly (Item 5). The elevation angle may be further adjusted if necessary by changing the position of the pin in the following manner (refer to Figure 2 on the next page):

1. Remove pin from hole A in boss of the shell (Item 1 on repair parts illustration on page 5).
2. Rotate shell 90° with respect to sealed elbow assembly as shown.
3. Drive pin in hole B in the shell boss.

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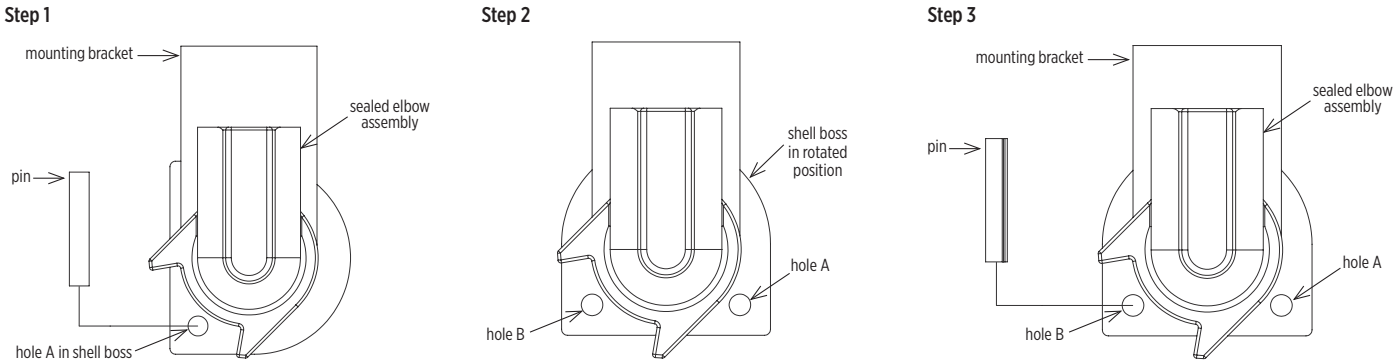
Figure 2



Lamping

Phoenix' explosion-proof fixtures are designed only for metal halide, high pressure sodium or incandescent lamps that are rated for a maximum of 150 watts. Use of higher wattage lamps will cause higher than allowable temperatures in hazardous zones. The fixtures designed for HPS lamps contain integral ballasts. Therefore, HPS lamps with a wattage different from the fixture nameplate rating can't be used in the fixture. See T Ratings below and on the next page to specify the appropriate lamp for a particular fixture model.

T Rating (Maximum Surface Temperature) - Metal Halide (MH) Models

			Class I Division 1		Class II Division 1		Class III	
Fixture Model No.	**120 Volt Lamp Type**	**Watts**	**Group**	**Max. Temp Code (F/C°)**	**Group**	**Max. Temp Code (F/C°)**	**Max. Temp Code (F/C°)**	**Max. Ambient Temp (F/C°)**
SLX70MHGN	M-85	70	C & D	T4 275/135	F & G	T4 275/135	T4 275/135	104/40

T Rating (Maximum Surface Temperature) - High Pressure Sodium (HPS) Models

			Class I Division 1		Class II Division 1		Class III	
Fixture Model No.	**Clear HPS Lamp ANSI Code No.**	**Watts**	**Group**	**Max. Temp Code (F/C°)**	**Group**	**Max. Temp Code (F/C°)**	**Max. Temp Code (F/C°)**	**Max. Ambient Temp (F/C°)**
SLX70GN	S62	70	C & D	T4A 248/120	F & G	T3C 320/160	T3C 320/160	104/40

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Cover Removal

To lamp or relamp, the cover must be unscrewed. In most cases, a rectangular steel bar about 0.75 inch (19 mm) x 0.50 inch (13 mm) x about 30.00 inch (762 mm), can be placed between the lugs provided on the face of the cover and rotated counter clockwise to accomplish the removal. See Figure 3. Excessive force must not be used as the bar may slip and cause injury.

Handle lamps with care when removing and replacing. The lamps are vacuum jacketed and may implode if broken. Wear safety glasses and gloves when removing and replacing a lamp.

When relamping, clean the reflector and cover glass to maintain efficiency. The glass may be cleaned with any non-abrasive conventional glass cleaner. The reflector should be cleaned with a soft cloth and soapy water.

Cover Replacement

Before replacing the cover, thoroughly clean the threads in both the cover and shell (Item 1 in repair parts illustration), then lubricate these threads liberally with a non-drying grease or petrolatum. This will enable the cover to be turned more easily and will facilitate its removal later for relamping.

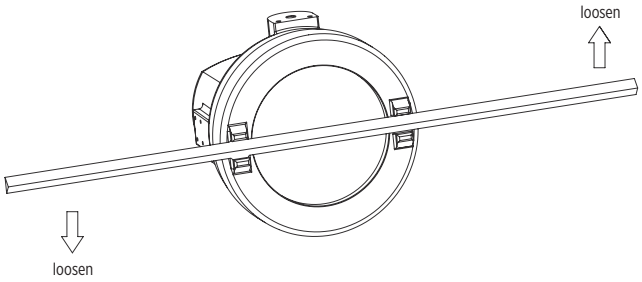
Thread the cover onto the shell by hand until the cover contacts the shell o-ring. Use the rectangular steel bar to rotate the cover another 1/12 to 1/10 of a turn or between 2.50 inches (64 mm) and 3.00 inches (76 mm) measured on the outside diameter.

Cover Glass Replacement

If the cover glass (Item 13 in repair parts illustration on page 5) is to be replaced, first loosen the retaining ring (Item 12) by turning it counterclockwise with a hammer and drift punch applied to the lugs on the ring. Once loose, it may be rotated out by hand. Remove the cover glass and cover o-ring (Item 16) which should also be replaced.

Threads in the cover, the retaining ring and the shell should be thoroughly cleaned and then lubricated liberally with a non-drying grease or petrolatum to facilitate assembly and disassembly and to inhibit corrosion. After replacement of the cover, o-ring and the cover glass, the retaining ring must be tightened against the glass with the hammer and the drift punch until the clearance between the cover glass and the cover is such that a 0.0015 inch (0.04 mm) feeler will not enter the joint more than 1/8 inch (3 mm) at any point.

Figure 3



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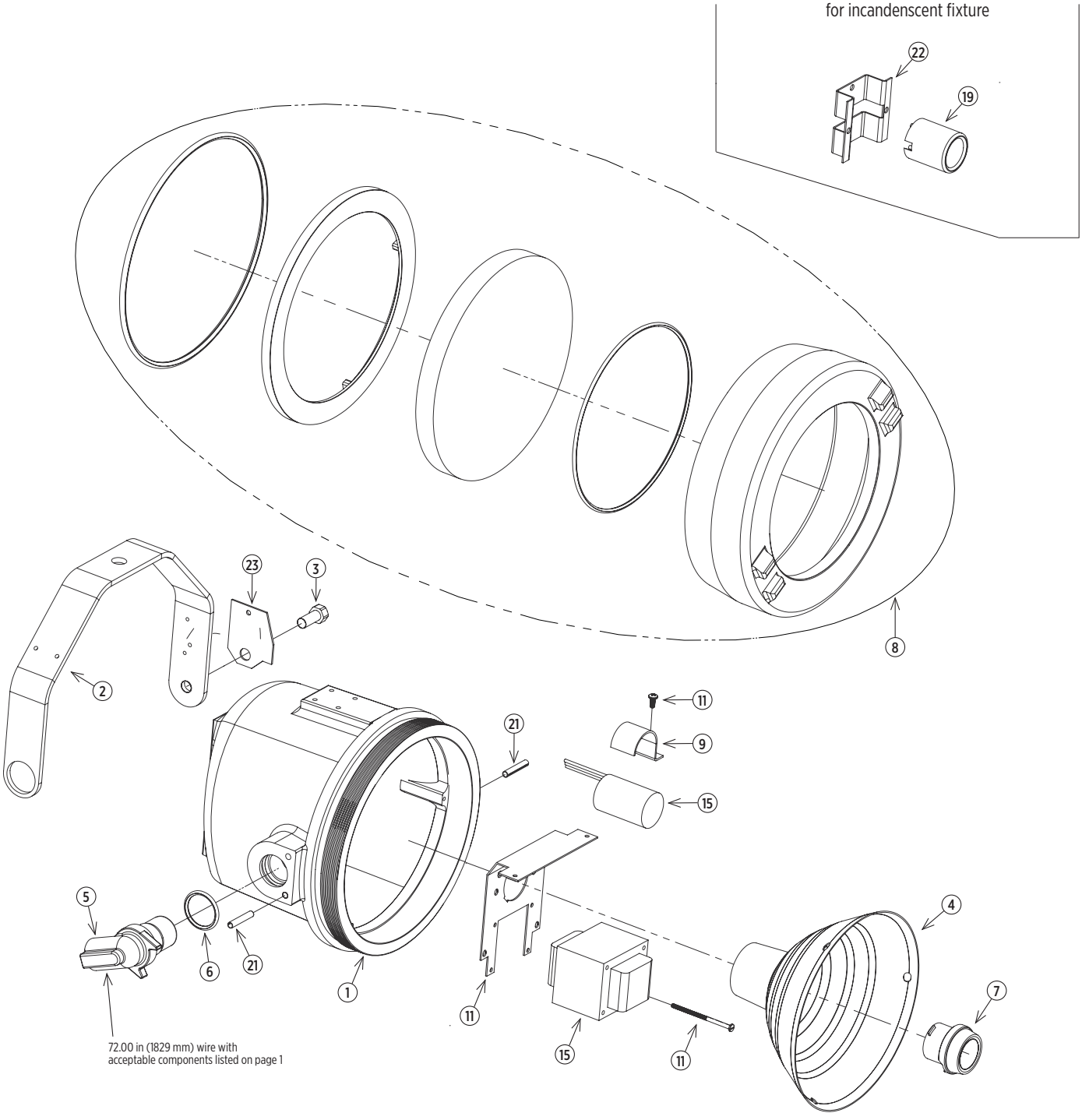
Repair Parts



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Repair Parts List

Item No.	Description	Part No.
1	shell	contact factory
2	mounting bracket	2308900
3	machine screw, ⅜-16 x ⅞ long	6030200
4	reflector (all HPS models)	2690200
5	elbow/wire assembly, sealed	1860011
6	o-ring	5010600
7*	socket only and wire nuts, no hardware special HID rated (all HPS models)	1155300
8	lens assembly	1863201
9	clamp (all HPS models)	2728000
11	bracket with hardware (all HPS models)	1160001
15	ballast with ignitor 70W HPS	4351600
18	lamp (HPS models) 70W HPS	4212600
21	spring pin, 7⁄32 x 1-¼ inch long	6510900
23	stop 35W through 70W model	2750098

*Use Phoenix' replacement sockets only

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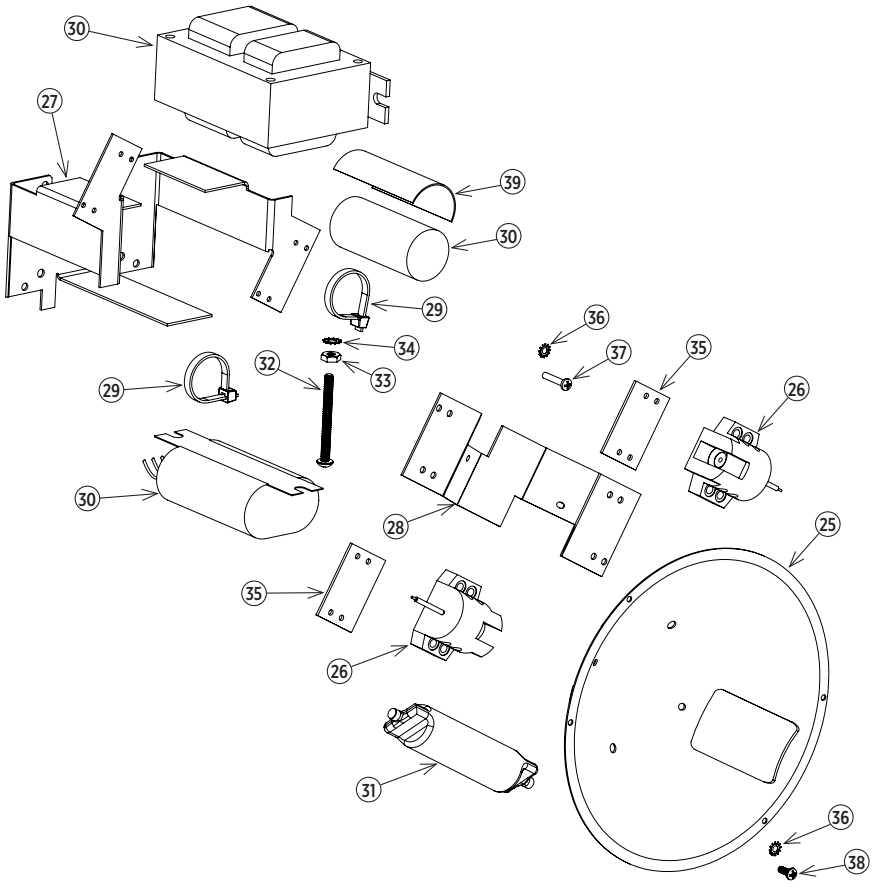
Repair Parts for SLX70MH-N and SLX70MH-GN Models

Refer to pages 5 and 6 for balance of parts



Item No.	Description	Part No.
25	reflector	2750290
26	socket (2)	4510000
27	ballast bracket	2320060
28	reflector bracket	2320050
29	wire ties (4)	4055004
30	ballast with ignitor & capacitator (120/277V)	4370024
31	lamp	4220012
32	screw, mach., rd hd, 10-24 x 1-⅞ (2)	6004800
33	nut, 10-24 (2)	6201800
34	washer, lock, external tooth #10 (2)	6310400
35	insulator (2)	5510000
36	washer, lock, external tooth #6 (6)	6313800
37	screw, machine, type F, rd hd, 6-32 x ¾ (4)	6018006
38	screw, machine, type F, rd hd, 6-32 x ⅜ (2)	6002900
39	insulation	2510020

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