

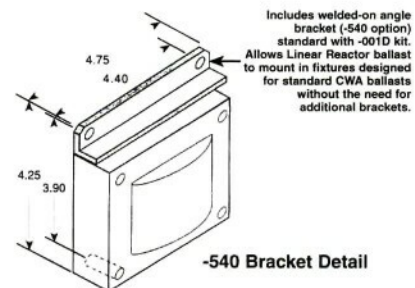
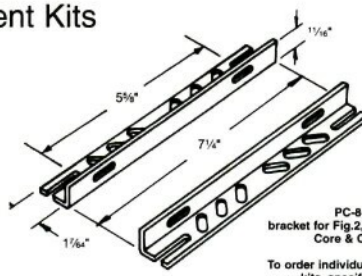
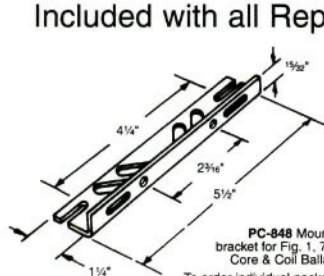
HID REPLACEMENT KITS

METAL HALIDE					
Input Volts	Catalog Number	Circuit Type	Total Weight (Lbs)	Certifications	
70 Watt Lamp, ANSI Code M98					
120/208/240/277	71A5292-001D	HX-HPF	5.2	✓	✓
100 Watt Lamp, ANSI Code M90/M140					
120/208/240/277	71A5390-001D	HX-HPF	6.0	✓	✓
175/150 Watt Lamp, ANSI Code M57/M107 or H39					
120/208/240/277	71A5570-001D	CWA	8.5	✓	✓
480	71A5540-001D	CWA	8.5	✓	✓
200 Watt Lamp, ANSI Code M136					
277	71A5637-001D*	Linear Reactor HPF	6.0	✓	
120/208/240/277	71A5692-001D	Super CWA	8.0	✓	✓
250 Watt Lamp, ANSI Code M58 or H37					
120/208/240/277	71A5770-001D	CWA 4 1/4 x 4 3/4 Core	13.0	✓	✓
480	71A5740-001D	Core	12.0	✓	✓
120/208/240/277	71A5771-001D	CWA 3x4 Core	11.0	✓	✓
480	71A5741-001D	Core	10.0	✓	✓
250 Watt Lamp, ANSI Code M138					
277	71A5737-001D	Linear Reactor HPF	7.0	✓	✓
120/208/240/277	71A5793-001D	Super CWA	9.0	✓	✓
320 Watt Lamp, ANSI Code M132					
277	71A5837-001D*	Linear Reactor HPF	9.5	✓	
120/208/240/277	71A5892-001D	Super CWA	11.0	✓	✓
350 Watt Lamp, ANSI Code M131					
277	71A5937-001D*	Linear Reactor HPF	10.0	✓	
120/208/240/277	71A5993-001D	Super CWA	11.0	✓	✓

* Includes -540 bracket. See drawing below for details.

CORE & COIL MOUNTING BRACKETS

Included with all Replacement Kits



METAL HALIDE					
Input Volts	Catalog Number	Circuit Type	Total Weight (Lbs)	Certifications	
400 Watt Lamp, ANSI Code M59 or H33					
277	71A6037-001D*	Linear Reactor HPF	9.0	✓	
120/208/240/277	71A6071-001D	CWA	11.5	✓	✓
480	71A6041-001D	CWA	12.0	✓	✓
400 Watt Lamp, ANSI Code M135					
277	71A6137-001D*	Linear Reactor HPF	9.0	✓	
120/208/240/277	71A6092-001D	Super CWA	11.0	✓	✓
Two 400 Watt Lamps, ANSI Code M59 or H33					
120/277	71A6382-001D	CWA Independent Lamp Operation	31.0	✓	✓
480	71A6342-001D	Operation	31.0	✓	✓
450 Watt Lamp, ANSI Code M144					
277	71A6337-001D	Linear Reactor HPF	9.0	✓	
120/208/240/277	71A6393-001D	Super CWA	11.0	✓	✓
1000 Watt Lamp, ANSI Code M47 or H36					
120/208/240/277	71A6572-001	CWA	28.0	✓	✓
480	71A6542-001	CWA	28.0	✓	✓
1500 Watt Lamp, ANSI Code M48					
120/208/240/277	71A6772-001	CWA	31.0	✓	✓
480	71A6742-001	CWA	31.0	✓	✓

* Includes -540 bracket. See drawing below for details.

Note:

175, 250, and 400-watt metal halide kits now include dry capacitors!

(see page 117 for a full explanation of the features and benefits of dry capacitors)



HIGH INTENSITY DISCHARGE BALLASTS

Encapsulated Core & Coil

Where quiet performance is required, the standard open core & coil ballasts are encapsulated (potted) in a cube-shaped steel can utilizing Class H (180°C) polyester compound. These ballasts carry a Class A noise rating up through 175 watts and Class B for 250 and 400 watts. As with the open core & coil, the capacitor (and ignitor where included) are mounted separately within the fixture.

Fluorescent Can (F-Can)

For indoor commercial applications of HID lighting such as offices, schools and retail stores, ballast noise must be minimized. Ballasts for these fixtures are most often encased and potted in fluorescent ballast type cans and utilize Class A (90°C) asphalt insulating materials (the same as used in fluorescent lamp ballasts).

The Advance line of F-can ballasts comes in two dual-voltage configurations: 120/277 volt for the US market, and 120/347 volt for the Canadian market. Each unit has built-in, automatically resetting, thermal protectors which disconnect the ballast from the power line in the event of overheating. All units are high power factor and include the capacitor within the can. All models for high pressure sodium and low-wattage metal halide lamps also include the ignitor in the can.

Indoor Enclosed

These units are designed for use indoors where the ballast must be mounted remotely from the luminaire. They are most typically used in factories where the luminaire may be mounted in a high-bay where very high ambient temperatures may be experienced. In these instances, the remotely-mounted ballast operates cooler, subsequently providing longer life because it is away from both the heat of the ceiling ambient and lamp heat within the fixture.

The case contains the core & coil potted in a Class H (180°C) heat-dissipating resin. The capacitor(s) and ignitor are contained within a separate compartment. Knockouts in both ends of the case facilitate hook-up in the most convenient manner. Wall mounting is accomplished through flanges on the top and bottom of the case. The ballast is a UL Listed product.

Outdoor Weatherproof

Weatherproof ballasts are designed for remote, pole-mounting outdoor applications under all weather conditions. They may also be placed inside of a transformer pole base, but care must be taken to avoid areas prone to flooding because weatherproof ballasts are not water-submersible.

The core & coil with its capacitor and ignitor (where required) are firmly mounted to the heat-sink base. An aluminum cover is placed over the core-&-coil assembly and is bolted with a weather-tight gasket to the base. An integral 1" threaded nipple with locknut facilities hook-up to electrical conduit or to the mounting bracket when used on a pole. The weatherproof ballast may also be placed nipple-up, with a drip loop in the leads, inside a pole base.

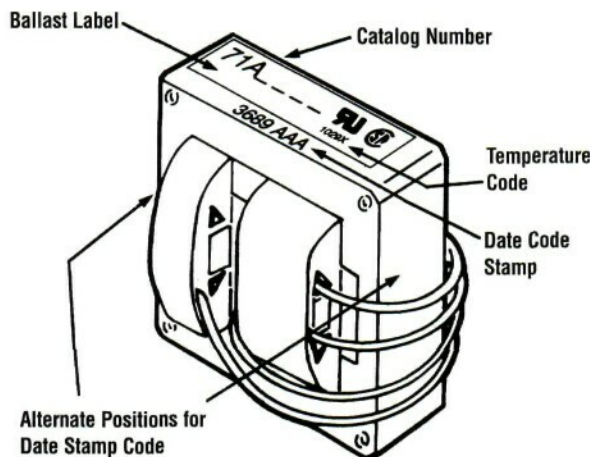
Postline

Lantern-type fixtures mounted on slender poles often require ballasts which will fit into these poles. Special, elongated core & coil ballasts are potted in resin in cylindrical cans having a 2.55" outside diameter. All include leads necessary for direct connection to a photocell.

The capacitor and ignitor (where required) are included within this can. A ½" threaded nipple is used for vertical mounting, and leads extend from both ends of the can for ease of installation. The input leads to the ballast also provide for proper connection to the photocell if such is included within the fixture.

To help prevent overheating, one to three feet of air space should be allowed in the pole above the ballast, and the ballast should be positioned against the post interior wall to provide a heat-sink. All units rated 100W and above now include a mounting kit consisting of an 18" chain to hang the ballast within the pole and a spring clip to force the ballast's cylindrical can to make line contact with the pole's interior surface to maximize heat transfer, thus prolonging the ballast life.

BALLAST DATE AND TEMPERATURE CODES



ADVANCE® HID Core & Coil ballasts are date stamped on either the top surface or the side surface of the ballast core. The four-digit number represents the *week* and *year* of manufacture. The first two numbers indicate the week and the last two indicate the year the ballast was manufactured. The example shows a ballast manufactured during the 36th week of 1989. The three letters are an Advance factory code.

The ballast's UL Bench Top Rise Temperature Code is shown on the label (see below).

UL BENCH TOP RISE TEMPERATURE CODE

To facilitate UL inspection, each ballast's UL Bench Top Rise Temperature Code is shown on the Advance Core & Coil ballast label as 1029X, where 1029 is the UL Standard for HID Ballasts, and the X is the temperature code: A, B, C, etc. If a fixture is UL listed for 1029C, then automatically, all ballasts with an A, B, or C temperature classification are acceptable for use within that same fixture.

UL Bench Top Rise Letter Code	Temperature Range for Class H (180°C) Ballasts
A	less than 75°C
B	75°C < 80°C
C	80°C < 85°C
D	85°C < 90°C
E	90°C < 95°C
F	95°C < 100°C
etc.	etc.

CERTIFICATIONS



Indicates ballast is listed by Underwriters Laboratories, Inc. in accordance with UL 1029 Standard for HID Ballasts. Each ballast is marked appropriately.



Indicates ballast is component recognized by Underwriters Laboratories, Inc. in accordance with UL 1029 Standard for HID Ballasts. Each ballast is marked appropriately.



Indicates ballast is certified by Canadian Standards Association in accordance with CAN/CSA-22.2 No. 74-92. Each ballast is marked appropriately.



All HID Ballasts are designed and manufactured in accordance with the American National Standards Institute Standard for HID Ballasts, ANSI C82.4.



ORDERING INFORMATION

How to Order

Advance Transformer has developed the industry's broadest selection of HID ballasts. More than 3000 stocking distributors nationwide. For information on the distributor best able to serve your needs, please call 800-372-3331.

Advance HID Ballast Part Number Explanation

71A	60	9	1	-500D						
<p>Suffix Code* (as applicable)</p> <ul style="list-style-type: none"> -001D ballast replacement kit with dry film capacitor -001 ballast replacement kit with oil filled capacitor -500D core & coil ballast with dry film capacitor -500 core & coil ballast with oil filled capacitor -510D core & coil ballast with welded bracket and dry film capacitor -510 core & coil ballast with welded bracket and oil filled capacitor -540D core & coil ballast with welded angle bracket and dry film capacitor -600 core & coil ballast (no capacitor) -610 core & coil ballast with welded bracket (no capacitor) <p>* Add additional feature codes to the end of suffix where applicable. i.e. -B = Integral Ignitor, -P = Thermally Protected, -J = J-Box Mounting</p>										
Design Code										
<table style="width: 100%; border: none;"> <tr> <td style="width: 20%;"></td> <td style="width: 40%; text-align: center;">60 Hz Voltages</td> <td style="width: 40%; text-align: center;">50 Hz Voltages</td> </tr> <tr> <td style="vertical-align: top;">INPUT VOLTAGE CODE</td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> 0 = 120V 1 = 208V 2 = 240V 3 = 277V 4 = 480V 5 = 120/240V 6 = 240/480V 7 = 120/208/240/277V 8 = 120/277V 9 = 120/208/240/277V </td> <td style="vertical-align: top;"> <ul style="list-style-type: none"> A = 102/277/347V B = 347V C = 120/347V D = 120/240/347V E = 120/208/240V or 208/240V F = 277/480V, 277/347V, 277/347/480V or 347/480V H = 127/220V J = 220V or 220/240V Y = 100/200V </td> </tr> </table>						60 Hz Voltages	50 Hz Voltages	INPUT VOLTAGE CODE	<ul style="list-style-type: none"> 0 = 120V 1 = 208V 2 = 240V 3 = 277V 4 = 480V 5 = 120/240V 6 = 240/480V 7 = 120/208/240/277V 8 = 120/277V 9 = 120/208/240/277V 	<ul style="list-style-type: none"> A = 102/277/347V B = 347V C = 120/347V D = 120/240/347V E = 120/208/240V or 208/240V F = 277/480V, 277/347V, 277/347/480V or 347/480V H = 127/220V J = 220V or 220/240V Y = 100/200V
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Lamp Type/Wattage/Ballast Circuit Code										
Ballast Type	<ul style="list-style-type: none"> 71A = Core and Coil Ballast 72C = F-Can Ballast 73B = Encapsulated Core and Coil Ballast 74P = Postline Ballast 77K = Val-U-Pak Replacement Ballast Kit 78E = Indoor Enclosed Ballast 79W = Outdoor Weatherproof Ballast 									

