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**COOPER** Crouse-Hinds

# Instruction Manual



*AIRSIDE™ GUIDANCE SIGN*

*ICAO*

*SERIES 814XX*

**Cooper Industries  
Crouse-Hinds Division  
Airport Lighting Products  
1200 Kennedy Road  
Windsor, CT 06095**

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**For Parts or Technical Service Call (860) 683-4300**

Instruction Manual  
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ICAO SERIES 814XX**1.0 REVISIONS**

<b>Revision</b>	<b>Issue/Reissue Letter Number</b>	<b>Description</b>	<b>Checked</b>	<b>Approved</b>
A	A205-126	Released to Production	GFR 3/31/05	JMM 3/31/05
B	A207-294	Revised figures 3-1 & 3-3 to agree with actual product and sales datasheet; title page, added copyright and deleted from interior pages	10/5/07	PG
C	A208-004	Revised copyright to 2008, Figure 3-6, deleted alternate method (used Rawl P/N 7324 or equal)	1/23/08	PG
D	A210-014	Revised copyright to 2010, Figure 3-1 & 3-3, 3 module, (400) was (366) and 4 module, 14.4" was 15.7"	1/29/10	PG

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ICAO SERIES 814XX**2.0 LIMITED PRODUCT WARRANTY**

THE FOLLOWING WARRANTY IS EXCLUSIVE AND IN LIEU OF ALL OTHER WARRANTIES, WHETHER EXPRESS, IMPLIED OR STATUTORY, INCLUDING, BUT NOT BY WAY OF LIMITATION, ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE.

Crouse-Hinds Airport Lighting Products (the “Company”) warrants to each original Buyer of Products manufactured by the Company that such Products are, at the time of delivery to the Buyer, free of material and workmanship defects, provided that no warranty is made with respect to:

- (a) any Product which has been repaired or altered in such a way, in the Company’s judgment, as to affect the Product adversely;
- (b) any Product which has, in the Company’s judgment, been subject to negligence, accident or improper storage;
- (c) any Product which has not been operated and maintained in accordance with normal practice and in conformity with recommendations and published specification of the Company; and;
- (d) any Products, component parts or accessories manufactured by others, but supplied by the Company (any claims should be submitted directly to the manufacturer thereof).

Crouse-Hinds Airport Lighting Products’ obligation under this warranty is limited to use of reasonable efforts to repair or, at its’ option, replace, during normal business hours, at any authorized service facility of the Company, any Products, which in its judgment, proved not to be as warranted within the applicable warranty period. All costs of transportation of Products, claimed not to be as warranted and of repaired or replacement Products to or from such service facility, shall be borne by Purchaser. The Company may require the return of any Product claimed not to be as warranted to one of its facilities as designed by the Company, transportation prepaid by Purchaser, to establish a claim under this warranty. The cost of labor for installing a repaired or replacement product shall be borne by Purchaser. Replacement parts provided under the terms of this warranty are warranted for the remainder of the warranty period of the Products upon which they are installed to the same extent as if such parts were original components thereof.

Warranty services provided under the Agreement does not assure uninterrupted operations of Products; The Company does not assume any liability for damages caused by any delays involving warranty service. The warranty period for the Products is 24 months from date of shipment or 12 months from date of first use whichever occurs first.

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**3.0 SAFETY SYMBOLS**



**DANGER**

***DANGER:***

*The hazard or unsafe practice will result in severe injury or death.*



**WARNING**

***WARNING:***

*The hazard or unsafe practice could result in severe injury or death.*



**CAUTION**

***CAUTION:***

*The hazard or unsafe practice could will result in severe injury or death.*



**NOTICE**

***NOTICE:***

*Possibly dangerous situation, goods might be damaged.*



**IMPORTANT**

***IMPORTANT:***

*Helpful information.*

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**3.1 Lamps Warning**



**DANGER**

***DANGER:***

When changing lamps, the switch on the exterior end of the sign must be in the **OFF** position. **DO NOT ATTEMPT TO CHANGE LAMPS WHILE THE POWER IS ON.**

**3.2 Ballast Warning**



**DANGER**

***DANGER:***

If a ballast or other electrical component is to be changed, turn the entire circuit **OFF** and use lockout procedures. Then completely disconnect the sign before doing any work.

**3.3 Keep Away from Live Circuits**



**DANGER**

***DANGER:***

Operating and maintenance personnel must at all times observe all safety regulations. **DO NOT PERFORM MAINTENANCE ON INTERNAL COMPONENTS OR RE-LAMP WITH POWER ON.**

**3.4 Circuit Warning**



**CAUTION**

***CAUTION:***

These signs are designed for use on 2.8 to 6.6 ampere constant current series circuits normally found at airports. **DO NOT USE ON ANY OTHER TYPE OF CIRCUIT.** If there are questions, contact Crouse-Hinds for technical help.

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**3.5 Regulations Warning**



**NOTICE**

***NOTICE:***

Operating and maintenance personnel must, at all times, observe all applicable safety regulations.

**3.6 Safety Notices**



**NOTICE**

***NOTICE:***

This equipment is normally used or connected to circuits that may employ voltages that are dangerous and may be fatal if accidentally contacted by operating or maintenance personnel. Extreme caution should be exercised when working with this equipment. While practical safety precautions have been incorporated in this equipment, the following rules must be strictly observed.

**3.7 Resuscitation**



**IMPORTANT**

***IMPORTANT:***

Maintenance personnel should familiarize themselves with the technique for resuscitation found in widely published manuals of first aid instructions.

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There is a wide variety of tools and equipment needed to safely and correctly perform airfield lighting equipment installation and maintenance. In addition to the obvious tools (screwdrivers, wrenches, etc.), there is specialized equipment needed to do the job.

**4.1 Multimeter**

Refer to the equipment manufacturer's manuals for the proper use, maintenance and calibration (if necessary) of all meters.

One of the most important pieces of test equipment is the Multimeter. It is used to measure voltages, currents, and resistances. Almost every single maintenance task requires the use of a multimeter at one point or another. A quality meter in good repair and calibration is a must because airfield lighting power distribution equipment produces non-sinusoidal waveforms, traditional average reading meters are inaccurate and have very limited use. Checking or adjusting equipment based upon incorrect current readings may dramatically reduce lamp life and adversely affect power equipment performance. A meter with TRUE RMS measuring capability and a current clamp-on probe is needed to accurately measure distorted or chopped waveforms. All meter manufacturers offer TRUE RMS measuring meters. The following is a short list of TRUE RMS Multimeters from Fluke:

<b>Manufacturer</b>	<b>Model Number</b>
Fluke	85III, 87III, 187, 189, 335, 336, 337

Our recommended meter is the Fluke 87III with the Fluke 80I-600A current clamp.

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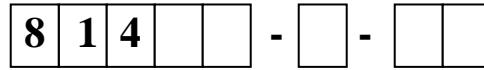
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**6.0 PART NUMBER EXPLANATION**



**TYPE:** \_\_\_\_\_

**SIZE** \_\_\_\_\_

3 = Taxiway Sign, 300mm Legend Height

4 = Taxiway Sign, 400mm Legend Height

**Number of Faces:** \_\_\_\_\_

1 = Single Face

2 = Double Face

**Number of Lamp Modules:** 1 to 4\* \_\_\_\_\_

**OPTIONS:** \_\_\_\_\_

10 = Unenclosed Power Cable: 3 Ft. (0.9m) with Plug

11 = Flexible Liquidtight Conduit Enclosed 3 Ft. (0.9m) Power Cable

12 = Sign Face Sealant (Silicone Rubber)

13 = Tethers (2)

\* Maximum of (4) modules for sign. If more modules are required, two signs may be co-located.

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ICAO SERIES 814XX**7.0 GENERAL INFORMATION****7.1 General Description**

Crouse-Hinds Airport Lighting Products, "AIRSIDE™" Guidance Sign ICAO, (Model AGSI) internally illuminated Taxiway and Runway Signs provide outstanding message visibility, day or night. The Model AGSI is designed to meet the latest version of the International Civil Aviation Organization (ICAO), Annex 14. White on Red, Yellow on Black, and Black on Yellow color combinations may be ordered with any desired message. Signs are available as single or double faced. For further information on Taxiway Signs and their use, consult International Standards (Aerodrome Design Manual, Part 4 and ANNEX 14).

**8.0 CLASSIFICATION OF SIGNS**

The signs covered in this manual are designed and manufactured in accordance with the requirements of ICAO ANNEX 14 and conform to the following classifications:

**TYPES**

Information Sign - black legend on a yellow background.

Mandatory Instruction Sign - white legend on a red background.

Taxiway and Runway Location Sign - yellow legend and border on a black background.

A sign may consist of multiple arrays of the above messages.

**SIZES**

Mid-size -300mm legend height

Large size -400mm legend height

**STYLE**

For operation from a 1 (5.5 Amperes), 3 (4.8 to 6.6 Amperes) or 5 (2.8 to 6.6 Amperes) step series lighting circuit

**CLASS**

For operation down to -20°C.

NOTE: If signs are installed on a dedicated sign only circuit, the calculated VA (volt ampere) load for the circuit should be between 60% to 90% of the rating of the constant current regulator. If this recommendation is not followed, contact Crouse-Hinds Airport Lighting Products Engineering Department for instructions.

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## 9.0 SPECIFICATIONS

### 9.1 Environmental Data

Temperature: -4°F to +131°F (-20°C to +55°C)  
 Weather: All normal outdoor conditions  
 Wind: 200 MPH continuous (322 Kilometers Per Hour)  
 Radio and Navigation Interference: None

### 9.2 Power Consumption Data

Typical Load (VA) & Power Factor (PF)

LAMP MODULES	ISOLATION TRANSFORMER (WATTAGE)	VA	SMALL* PF - SERIES STYLE CCR	LARGE* PF - CCR FERRORESONANT STYLE
1	150 W 150 W	150 140	.68 ---	--- .87
2	300 W 300 W	335 295	.71 ---	--- .87
3	400W ** 400W**	460 426	.72 ---	--- .87
4	2 X 300W 2 X 300W	600 575	.78 ---	--- .87

Power Factor (PF) may vary depending on type and manufacturer of the constant current regulator (CCR).

\* Select appropriate data depending on whether a circuit is powered by Crouse-Hinds Series Style CCR (4, 7.5 & 10 KW) or Ferroresonant Style CCR.

\*\* Use 400W transformer (33154) or two 200W transformers (33006) with consolidating harness (26811-27).

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**9.3 Illumination Data \***

<u>SIZE</u>	<u>COLOR</u>		
	<u>RED</u>	<u>YELLOW</u>	<u>WHITE</u>
300mm	32.4 (111)	170 (582)	272.3 (931)
400mm	30.8 (106)	135 (465)	195.6 (668)

Foot-Lamperts (CD/M<sup>2</sup>)

<u>Average Sign Illuminance At Various Intensity Steps (Field Circuit Current)</u>	
6.6 amperes (CCR Top Step)	100% (full brightness)
5.5 amperes	84%
5.2 amperes	80%
4.8 amperes	75%
4.1 amperes	62%
3.4 amperes	48%
2.8 amperes	35%

NOTE:  
Data may vary depending on the type of constant current regulator (CCR) and circuit loading.

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PLEASE READ ALL OF THIS SECTION CAREFULLY BEFORE DOING ANYTHING!

- (a) Refer to Figures 1-1 through 3-6 for the sign mounting pad layout and power feed location.
- (b) Remove sign from the shipping container.
- (c) Signs are usually installed so that the power connections are located toward the Taxiway or Runway. See Figure 3-3 Notice the POWER LEG location in relation to sign SIDE "B".
- (d) The concrete foundation for the sign should be flat and level (See Concrete Pad Dimensions - Figures 3-1 and 3-3). The overall length of the pad will depend on the number of sign modules and the location of the transformer base. If the transformer base is to be located directly under a sign leg, the transformer base must be steel. If the transformer base is to be located at the end of the sign (using a 90° elbow to get the power cord into the sign), a plastic base may be used.
- (e) It is recommended that the contractor who is to install the concrete pad use cast in place anchor bolts. This requires that the anchor bolts be **installed accurately** as shown in the concrete pad dimensions Figure 3-6. **Be sure** to locate the floor flanges so that the ribs are parallel to the sign centerline as indicated on the floor flange.
- (f) Remove the frangible coupling/floor flange from the bottom of the sign by loosening the two square head set screws in each leg.
- (g) Leveling the floor flanges is important for ease of installation of the sign. A long carpenter's level can be placed across the top of the floor flanges to be sure they are all in line and level. Do not tighten the anchor nuts tight (only finger-tight) until the frangible couplings are installed. The frangible couplings can be removed from the sign and the sign lowered onto the couplings after they have been screwed into the floor flanges. An alternative is to lower the sign with the legs and flanges into place. Check the sign itself with a long carpenter's level to be sure it is level. An alternative is to lower the sign with the legs and flanges into place. Check the sign to be sure it is level

**Note:** Some vertical adjustments can be obtained by rotating the floor flanges a turn or two on the frangible coupling.

- (h) Make sure all flanges are in full contact and sit flush on the pad before tightening the anchor bolts. (NOTE: Anchor hardware is not supplied with the sign.) Anchor hardware should be corrosion resistant. The sign body must not be bent or distorted due to an uneven installation procedure.
- (i) Install the power cord input lead to the output of isolation transformer.
- (j) Electrical connections are shown in Figures 2-1 through 2-4, as applicable.

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After the signs have been installed, turn the circuit on to the lowest step and check to see that all the signs are lighted. Repeat for each available step on that circuit.

If there is any indication of improper sign operation, see Section 12.3 for troubleshooting procedures.

NOTE: See page vi for a list of multimeters.

**12.0 MAINTENANCE - ELECTRICAL****12.1 Lamp Replacement**

- (a) The fluorescent lamp used in the signs has an average rated life of 9,000 hours. Repeated on-off operation will decrease the life expectancy somewhat. When replacement becomes necessary, follow the procedure below.
- (b) **BE SURE POWER TO SIGN HAS BEEN TURNED OFF.**

***DANGER:***

If it is necessary to re-lamp the sign without removing regulator power to the sign loop, an **ON-OFF** switch on the exterior end of the sign must be in the **OFF** position. This removes power to the tube sockets only. **DO NOT ATTEMPT TO CHANGE LAMPS WHILE THE POWER IS ON.**

- (c) Remove the bolts that secure the cover and remove the cover.
- (d) Push the old lamp toward the spring loaded socket and then into place.
- (e) Replace the cover and bolts securely.
- (f) **Make sure toggle switch on the ballast housing is returned to the ON position for normal sign operation.**

**12.2 Electrical Package**

If electrical problems are suspected after replacing fluorescent tube(s), proceed as follows:

- (a) Turn Power OFF. Be sure the main circuit is also OFF.

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Fluorescent ballasts employ a high firing voltage and troubleshooting should be limited to visual inspection and continuity checking without power applied.

- (b) Remove cover from sign body
- (c) Inspect and check lead connections at terminal strip(s).
- (d) Refer to Figure 2-1 through 2-4 (as applicable). Lamp socket continuity can be checked by removing lead from terminal 1 and measuring resistance from this lead to the other lead remaining on terminal 2. Resistance should measure approximately 1 ohm. Repeat the above, disconnecting the lead to terminal 7 and measuring from this lead to terminal 6. If both pair of socket leads indicate continuity, fluorescent tube socket connections are satisfactory. Reconnect leads.
- (e) Making certain that the toggle switch is in the ON positions, check for operation.
- (f) If sign fails to operate, replace ballast.
- (g) Replace sign cover.

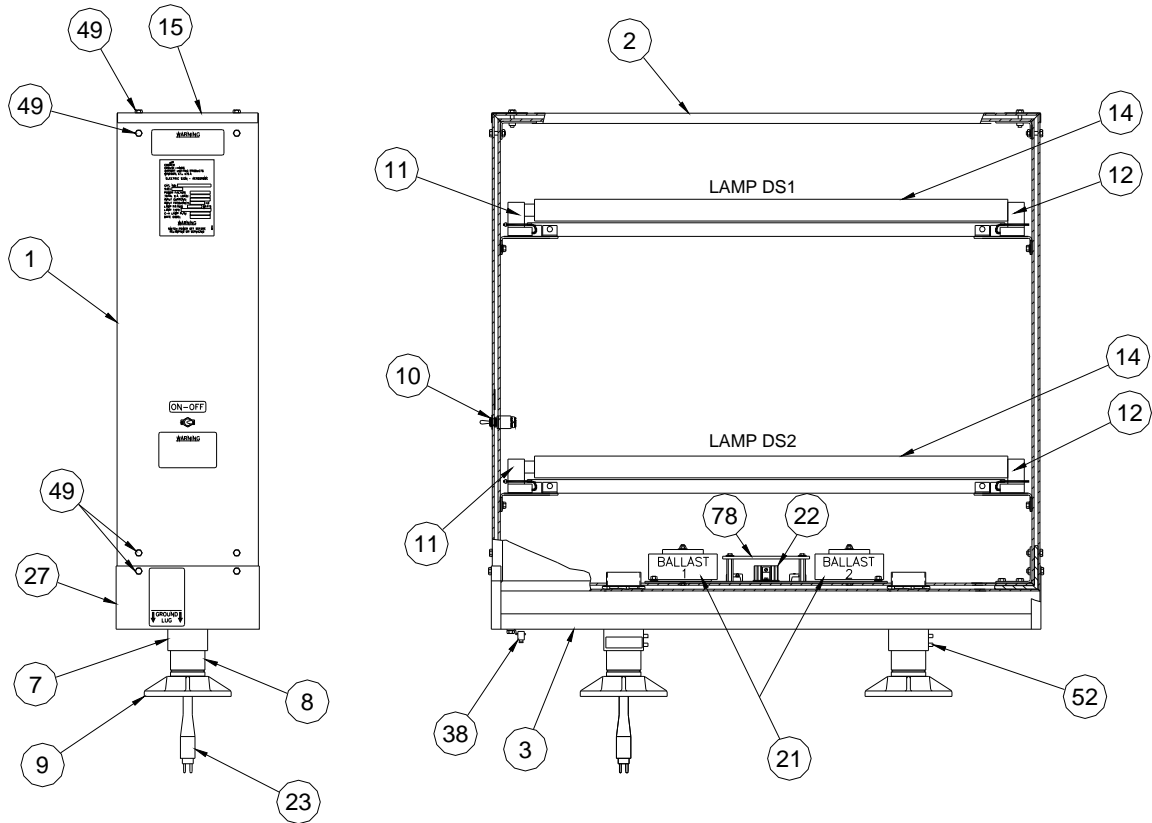
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**12.3 TROUBLESHOOTING GUIDE**

PROBLEM	PROBABLE CAUSE	SOLUTION
Unit fails to illuminate	1) Defective lamp 2) Defective isolation transformer 3) Defective ballast 4) Runway Circuit problem 5) ON-OFF re-lamping switch, S1, in OFF position 6) Bad Connection 7) Lamp bypass	1) Replace lamp 2) Replace transformer 3) Replace ballast 4) Check runway circuit and regulator for proper operation 5) Switch to ON 6) Check Wiring per Figures 6 through 10 (as applicable) 7) Check that the jumper is correctly located for the regulator
Unit flickers at turn on (cold temperature) fluorescent lamp	Lamp temperature is below lamp operation temperature	None required, allow unit to warm up.
Unit flickers continuously	1) Defective lamp 2) Defective lamp bypass board	1) Replace lamp 2) Replace board

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**13.0 FIGURES AND PARTS LISTS**



SEE FIGURE 2-1 FOR ELECTRICAL SCHEMATIC  
**SINGLE MODULE SIGN (SIDE B)**  
**FIGURE 1-1**

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Table 1-1 Single Module ICAO Sign Assembly Parts List for PL814XX-1

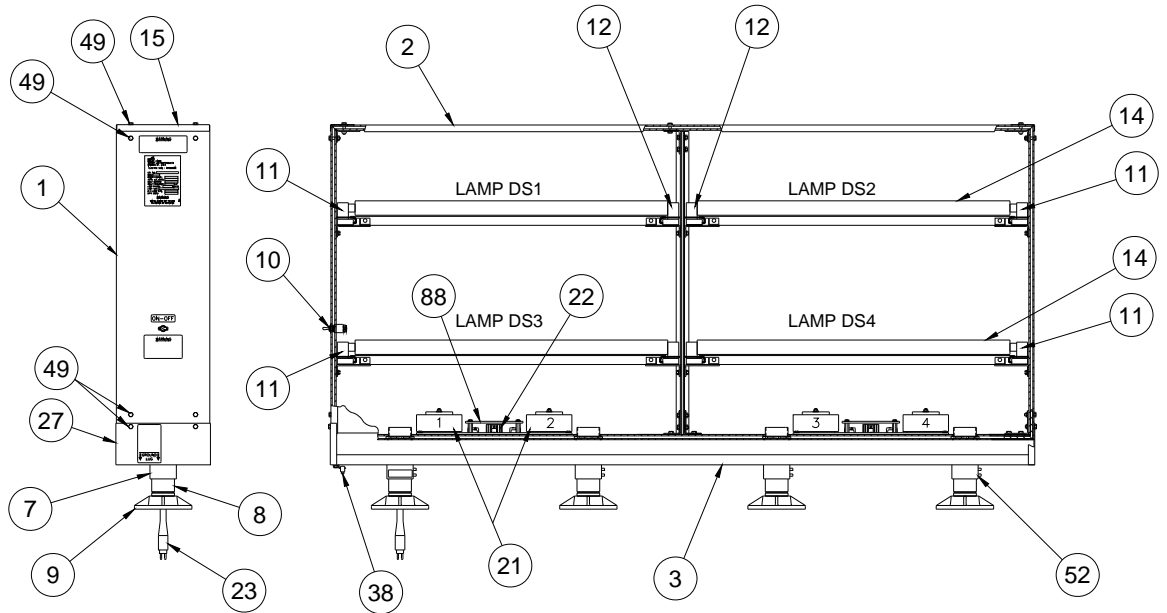
ITEM	PART NUMBER	DESCRIPTION	QTY PER SIZE	
			300mm	400mm
1	62121-2	SIDE	2	-
1	62121-1	SIDE	-	2
2	62123-1	COVER	1	1
3	62122-1	BOTTOM	1	1
4	62128	BRACKET, CORNER BOTTOM, ICAO SIGN	2	2
5	62127	BRACKET, COVER, ICAO SIGN	2	2
6	62124	ANGLE, CORNER, ICAO SIGN	4	4
7	60684	LEG	2	2
8	60683-3	FRANGIBLE COUPLING	-	2
8	60683-8	FRANGIBLE COUPLING	2	-
9	25684-1	FLOOR FLANGE	2	2
10	60730-1	SWITCH ASSEMBLY	1	1
11	10047-2391	SOCKET, FLUORESCENT, PLUNGER END	2	2
12	10047-2392	SOCKET, FLUORESCENT, STATIONARY END	2	2
13	10047-1573	FLUORESCENT LAMP, 36"	4	4
14	60997	INSULATOR, LAMP SOCKET	4	4
15	62137	RAIN CAP, END	2	2
16	62217-1	SIGN FACE PANEL (400 mm)	-	A/R
16	62217-2	SIGN FACE PANEL (300 mm)	A/R	-
17	62218-1	SIGN FACE PANEL, BLACK (400 mm)	-	A/R
17	62218-2	SIGN FACE PANEL, BLACK (300 mm)	A/R	-
19	62118-1	BRACKET, LAMP MOUNTING, ICAO SIGN	4	4
21	61164	BALLAST ASSY	1	1
22	61065-4	DUAL LAMP BYPASS CIRCUIT	1	1
23	CAS1M-P-B-.86	LEAD ASSY	1	1
24	60778	LABEL, POWER LEG	1	1
25	25003	CABLE CLAMP ASSY	1	1
26	40762	RETAINER	2	2
27	62135	CAP, JOINT, RAIN, ICAO SIGN	2	2
28	62141	NAMEPLATE	1	1
29	10053-166	TY-RAP W/MOUNTING HOLE	1	1
30	10047-1434	WIRE NUT	4	4
31	10047-589	2" LOCKNUT	2	2
34	10037-748M	WELDNUT, M6	12	12
35	10047-1222	TY-RAP	X	X
36	10037-578	HOLE PLUG, 1/2" DIA	1	1
37	10000-448M	SCREW, HEX HD W/TORQUE PATCH, M6x1x16mm, SS	1	1
38	10047-1933	SOLDERLESS LUG	1	1
39	10048-30	LOCTITE	A/R	A/R
40	62119	GROUND PLANE, ICAO SIGN	2	2

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Table 1-1 Single Module ICAO Sign Assembly Parts List for PL814XX-1 (cont'd)

ITEM	PART NUMBER	DESCRIPTION	QTY PER SIZE	
			300mm	400mm
42	10046-58	WIRE, #16 AWG, WHITE	A/R	A/R
43	10046-95	WIRE, #16 AWG, BLACK	A/R	A/R
44	10046-241-2	WIRE, #16 AWG, RED	A/R	A/R
45	10046-241-6	WIRE, #16 AWG, BLUE	A/R	A/R
46	10046-241-4	WIRE, #16 AWG, YELLOW	A/R	A/R
47	10046-241-3	WIRE, #16 AWG, ORANGE	A/R	A/R
48	10000-449M	SCREW, HEX HD W/TORQUE PATCH, M6x1x12mm	16	24
49	10000-450M	SCREW, HEX HD W/TORQUE PATCH, M6x1x25mm	16	16
50	10031-57M	HEX NUT, M6x1	8	8
52	10000-456	SCREW, SQ HD SET, CUP POINT, 1/4-20 x 5/8" LG	4	4
53	10000-453M	SCREW, HEX HD, M5x.8x10mm	2	2
54	10030-122M	FLAT WASHER, M5	2	2
55	10030-123M	LOCKWASHER, SPLIT, M4	2	2
56	10030-452M	SCREW, PAN HD, M4x.7x8mm	2	2
57	10030-124M	WASHER, PLAIN M4	2	2
58	10033-91	POP-RIVET, 3/16 DIA, .126 - .250 GRIP	7	7
59	62136	LABEL, GROUND WARNING	1	1
60	10L01-019D	NUT, #10-32, SS	4	4
61	10B10-019D20	SCREW, HEX HD, #10-32 x 5/8" LG, SS	4	4
62	10047-1569	TERMINAL, SPADE, #6 STUD, #16-14 AWG	8	8
63	10047-1170	TERMINAL, FORK, #22-16 AWG, #6 STUD	14	14
64	10046-93	WIRE, #16 AWG, VIOLET	A/R	A/R
65	10H29-025D20	SCREW, HEX HD, TYPE F, 1/4-20 x 5/8 LG.	1	1
66	62152	LABEL - WARNING, HAZARDOUS VOLTAGE	1	1
67	10047-2565-25	WIRE MARKER, 1/4" I.D., WHITE	A/R	A/R
68	10046-241-8	WIRE, #16 AWG, GRAY	A/R	A/R
69	2508	INSTRUCTION MANUAL	A/R	A/R
70	41222	LABEL - DANGER HIGH VOLTAGE	2	2
78	62151	PLATE, SHOCK PROTECTION	1	1
79	10037-756M	STANDOFF, M/F, M5 X .8 X 25MM LG	4	4
80	30844	LABEL - WARNING	1	1
81	62150	LABEL - WARNING, SWITCH INFO	1	1
82	61084	LABEL - ON/OFF	1	1
83	10048-123	TAPE, KAPTON, 2 1/4" WIDE	A/R	-
85	10047-771	TERMINAL, RING, #8 STUD, #22-16 AWG	3	3
86	10046-81	WIRE, BARE	A/R	A/R

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SEE FIGURE 2-2 FOR ELECTRICAL SCHEMATIC  
**DOUBLE MODULE SIGN (SIDE B)**  
**FIGURE 1-2**

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Table 1-2 Double Module ICAO Sign Assembly Parts List for PL814XX-2

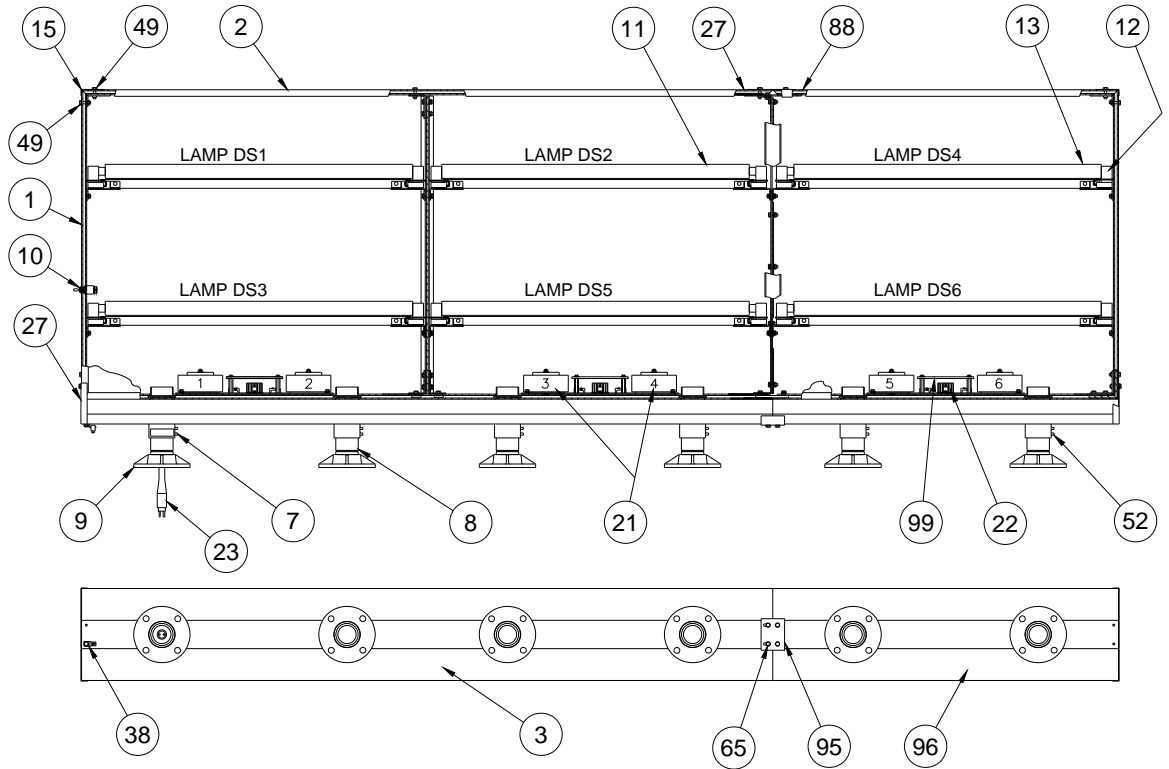
ITEM	PART NUMBER	DESCRIPTION	QTY PER SIZE	
			300mm	400mm
1	62121-2	SIDE	2	-
1	62121-1	SIDE	-	2
2	62123-2	COVER	1	1
3	62122-2	BOTTOM	1	1
4	62128	BRACKET, CORNER BOTTOM, ICAO SIGN	2	2
5	62127	BRACKET, COVER, ICAO SIGN	2	2
6	62124	ANGLE, CORNER, ICAO SIGN	4	4
7	60684	LEG	4	4
8	60683-3	FRANGIBLE COUPLING	-	4
8	60683-8	FRANGIBLE COUPLING	4	-
9	25684-1	FLOOR FLANGE	4	4
10	60730-1	SWITCH ASSEMBLY	1	1
11	10047-2391	SOCKET, FLUORESCENT, PLUNGER END	4	4
12	10047-2392	SOCKET, FLUORESCENT, STATIONARY END	4	4
13	10047-1573	FLUORESCENT LAMP, 36"	4	4
14	60997	INSULATOR, LAMP SOCKET	8	8
15	62137	RAIN CAP, END	2	2
16	62217-3	SIGN FACE PANEL (400 mm)	-	A/R
16	62217-4	SIGN FACE PANEL (300 mm)	A/R	-
17	62218-3	SIGN FACE PANEL, BLACK (400 mm)	-	A/R
17	62218-4	SIGN FACE PANEL, BLACK (300 mm)	A/R	-
18	62148	SPACER, LAMP MTG BRKT	4	4
19	62118	BRACKET, LAMP MOUNTING, ICAO SIGN	4	4
21	61164	BALLAST ASSY	4	4
22	61065-4	DUAL LAMP BYPASS CIRCUIT	2	2
23	CAS1M-P-B-.86	LEAD ASSY	1	1
24	60778	LABEL, POWER LEG	1	1
25	25003	CABLE CLAMP ASSY	1	1
26	40762	RETAINER	2	2
27	62135	CAP, JOINT, RAIN, ICAO SIGN	2	2
28	62141	NAMEPLATE	1	1
29	10053-166	TY-RAP W/MOUNTING HOLE	1	1
30	10047-1434	WIRE NUT	4	4
31	10047-589	2" LOCKNUT	4	4
34	10037-748M	WELDNUT, M6	20	20
35	10047-1222	TY-RAP	X	X
37	10000-448M	SCREW, HEX HD W/TORQUE PATCH, M6x1x16mm, SS	1	1
38	10047-1933	SOLDERLESS LUG	1	1
39	10048-30	LOCTITE	A/R	A/R
40	62119	GROUND PLANE, ICAO SIGN	4	4

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Table 1-2 Double Module ICAO Sign Assembly Parts List for PL814XX-2 (cont'd)

ITEM	PART NUMBER	DESCRIPTION	QTY PER SIZE	
			300mm	400mm
42	10046-58	WIRE, #16 AWG, WHITE	A/R	A/R
43	10046-95	WIRE, #16 AWG, BLACK	A/R	A/R
44	10046-241-2	WIRE, #16 AWG, RED	A/R	A/R
45	10046-241-6	WIRE, #16 AWG, BLUE	A/R	A/R
46	10046-241-4	WIRE, #16 AWG, YELLOW	A/R	A/R
47	10046-241-3	WIRE, #16 AWG, ORANGE	A/R	A/R
48	10000-449M	SCREW, HEX HD W/TORQUE PATCH, M6x1x12mm	16	16
49	10000-450M	SCREW, HEX HD W/TORQUE PATCH, M6x1x25mm	30	30
50	10031-57M	HEX NUT, M6x1	24	24
52	10000-456	SCREW, SQ HD SET, CUP POINT, 1/4-20 x 5/8" LG	8	8
53	10000-453M	SCREW, HEX HD, M5x.8x10mm	4	4
54	10030-122M	FLAT WASHER, M5	4	4
55	10030-123M	LOCKWASHER, SPLIT, M4	4	4
56	10030-452M	SCREW, PAN HD, M4x.7x8mm	4	4
57	10030-124M	WASHER, PLAIN M4	4	4
58	10033-91	POP-RIVET, 3/16 DIA, .126-.250 GRIP	14	14
59	62136	LABEL, GROUND WARNING	1	1
60	10L01-019D	NUT, #10-32, SS	8	8
61	10B10-019D20	SCREW, HEX HD, #10-32 x 5/8 LG	8	8
62	10047-1569	TERMINAL, SPADE, #6 STUD, #16-14 AWG	16	16
63	10047-1170	TERMINAL, FORK, #22-16 AWG, #6 STUD	28	28
64	10046-93	WIRE, #16 AWG, VIOLET	A/R	A/R
65	10H29-025D20	SCREW, HEX HD, TYPE F, 1/4-20 x 5/8 LG	1	1
66	62152	LABEL - WARNING, HAZARDOUS VOLTAGE	1	1
67	62117	BRACKET, LAMP MOUNTING, CENTER SUPPORT	4	4
76	62116-1	SUPPORT, CENTER, ICAO SIGN (400MM)	-	2
76	62116-2	SUPPORT, CENTER, ICAO SIGN (300MM)	2	-
82	2508	INSTRUCTION MANUAL	1	1
83	10046-241-8	WIRE, #16 AWG, GRAY	A/R	A/R
84	10046-241-1	WIRE, #16 AWG, BROWN	A/R	A/R
85	10047-2565-25	WIRE MARKER, 1/4" I.D., WHITE	A/R	A/R
87	41222	LABEL - DANGER HIGH VOLTAGE	3	3
88	62151	PLATE, SHOCK PROTECTION	2	2
89	10037-756M	STANDOFF, M/F, M5 X .8 X 25MM LG	8	8
90	30844	LABEL - WARNING	1	1
91	62150	LABEL - WARNING, SWITCH INFO	1	1
92	61084	LABEL - ON/OFF	1	1
94	62125	BRACKET, CENTER SUPPORT, BOTTOM, ICAO SIGN	2	2
95	62126	BRACKET, CENTER SUPPORT, TOP, ICAO SIGN	1	1
96	10047-771	TERMINAL, RING, #8 STUD, #22-16 AWG	6	6
97	10046-81	WIRE, BARE	A/R	A/R

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SEE FIGURE 2-3 FOR ELECTRICAL SCHEMATIC

**THREE MODULE SIGN (SIDE B)**

**FIGURE 1-3**

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Table 1-3 Three Module ICAO Sign Assembly Parts List for PL814XX-3

ITEM	PART NUMBER	DESCRIPTION	QTY PER SIZE	
			300mm	400mm
1	62121-2	SIDE	2	-
1	62121-1	SIDE	-	2
2	62123-2	COVER	1	1
3	62122-2	BOTTOM	1	1
4	62128	BRACKET, CORNER BOTTOM, ICAO SIGN	2	2
5	62127	BRACKET, COVER, ICAO SIGN	2	2
6	62124	ANGLE, CORNER, ICAO SIGN	4	4
7	60684	LEG	6	6
8	60683-3	FRANGIBLE COUPLING	-	6
8	60683-8	FRANGIBLE COUPLING	6	-
9	25684-1	FLOOR FLANGE	6	6
10	60730-1	SWITCH ASSEMBLY	1	1
11	10047-2391	SOCKET, FLUORESCENT, PLUNGER END	6	6
12	10047-2392	SOCKET, FLUORESCENT, STATIONARY END	6	6
13	10047-1573	FLUORESCENT LAMP, 36"	6	6
14	60997	INSULATOR, LAMP SOCKET	12	12
15	62137	RAIN CAP, END	2	2
16	62217-1	SIGN FACE PANEL (400 mm)	-	A/R
16	62217-2	SIGN FACE PANEL (300 mm)	A/R	-
16	62217-3	SIGN FACE PANEL, (400 mm)	-	A/R
16	62217-4	SIGN FACE PANEL, (300 mm)	A/R	-
17	62218-1	SIGN FACE PANEL, BLACK (400 mm)	-	A/R
17	62218-2	SIGN FACE PANEL, BLACK (300 mm)	A/R	-
17	62218-3	SIGN FACE PANEL, BLACK (400 mm)	-	A/R
17	62218-4	SIGN FACE PANEL, BLACK (300 mm)	A/R	-
18	62148	SPACER, LAMP MOUNTING BRACKET	2	2
19	62118	BRACKET, LAMP MOUNTING, ICAO SIGN	4	4
21	61164	BALLAST ASSY	6	6
22	61065-4	DUAL LAMP BYPASS CIRCUIT	3	3
23	CAS1M-P-B-.86	LEAD ASSY	1	1
24	60778	LABEL, POWER LEG	1	1
25	25003	CABLE CLAMP ASSY	1	1
26	40762	RETAINER	2	2
27	62135	CAP, JOINT, RAIN, ICAO SIGN	3	3
28	62141	NAMEPLATE	1	1
29	10053-166	TY-RAP W/MOUNTING HOLE	1	1
30	10047-1434	WIRE NUT	4	4
31	10047-589	2" LOCKNUT	6	6
34	10037-748M	WELDNUT, M6	24	24
35	10047-1222	TY-RAP	30	30

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Table 1-3 Three Module ICAO Sign Assembly Parts List for PL814XX-3 (cont'd)

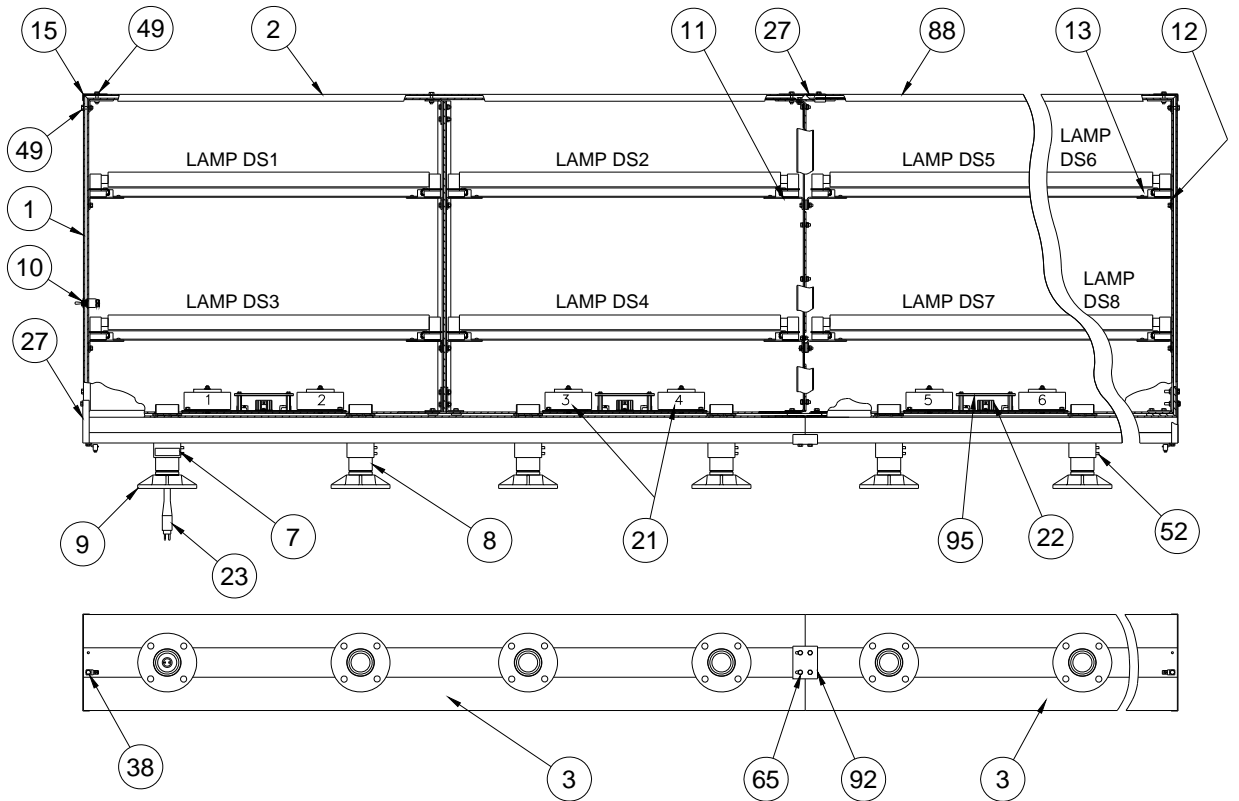
ITEM	PART NUMBER	DESCRIPTION	QTY PER SIZE	
			300mm	400mm
36	10037-578	HOLE PLUG, 1/2" DIA	1	1
37	10000-448M	SCREW, HEX HD W/TORQUE PATCH, M6x1x16mm, SS	1	1
38	10047-1933	SOLDERLESS LUG	1	1
39	10048-30	LOCTITE	A/R	A/R
40	62119	GROUND PLANE, ICAO SIGN	6	6
42	10046-58	WIRE, #16 AWG, WHITE	A/R	A/R
43	10046-95	WIRE, #16 AWG, BLACK	A/R	A/R
44	10046-241-2	WIRE, #16 AWG, RED	A/R	A/R
45	10046-241-6	WIRE, #16 AWG, BLUE	A/R	A/R
46	10046-241-4	WIRE, #16 AWG, YELLOW	A/R	A/R
47	10046-241-3	WIRE, #16 AWG, ORANGE	A/R	A/R
48	10000-449M	SCREW, HEX HD W/TORQUE PATCH, M6x1x12mm	34	34
49	10000-450M	SCREW, HEX HD W/TORQUE PATCH, M6x1x25mm	54	54
50	10031-57M	HEX NUT, M6x1	54	56
52	10000-456	SCREW, SQ HD SET, CUP POINT, 1/4-20 x 5/8" LG	12	12
53	10000-453M	SCREW, HEX HD, M5x.8x10mm	6	6
54	10030-122M	FLAT WASHER, M5	6	6
55	10030-123M	LOCKWASHER, SPLIT, M4	6	6
56	10030-452M	SCREW, PAN HD, M4x.7x8mm	6	6
57	10030-124M	WASHER, PLAIN M4	6	6
58	10033-91	POP-RIVET, 3/16 DIA, .126-.250 GRIP	21	21
59	62136	LABEL, GROUND WARNING	1	1
60	10L01-019D	NUT, #10-32, SS	12	12
61	10B10-019D20	SCREW, HEX HD, #10-32 x 5/8 LG	12	12
62	10047-1569	TERMINAL, SPADE, #6 STUD, #16-14 AWG	12	12
63	10047-1170	TERMINAL, FORK, #22-16 AWG, #6 STUD	36	36
64	10046-93	WIRE, #16 AWG, VIOLET	A/R	A/R
65	10H29-025D20	SCREW, HEX HD, TYPE F, 1/4-20 x 5/8 LG	5	5
66	62152	LABEL - WARNING, HAZARDOUS VOLTAGE	1	1
67	62117	BRACKET, LAMP MOUNTING, CENTER SUPPORT	4	4
76	62116-1	SUPPORT, CENTER, ICAO SIGN (400MM)	-	2
76	62116-2	SUPPORT, CENTER, ICAO SIGN (300MM)	2	-
82	2508	INSTRUCTION MANUAL	1	1
83	10046-241-8	WIRE, #16 AWG, GRAY	A/R	A/R
84	10046-241-1	WIRE, #16 AWG, BROWN	A/R	A/R
85	10047-2565-25	WIRE MARKER, 1/4" I.D., WHITE	A/R	A/R
86	10030-125M	FLATWASHER, M6, SS	20	24
87	26811-27	CONSOLIDATING HARNESS	1	1
88	62123-1	COVER (SINGLE MODULE)	1	1
89	62132-1	SIGN FACE PANEL (400mm)	-	A/R

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Table 1-3 Three Module ICAO Sign Assembly Parts List for PL814XX-3 (cont'd)

ITEM	PART NUMBER	DESCRIPTION	QTY PER SIZE	
			300mm	400mm
89	62132-2	SIGN FACE PANEL (300mm)	A/R	-
90	62133-1	SIGN FACE PANEL, BLACK (400mm)	-	A/R
90	62133-2	SIGN FACE PANEL, BLACK (300mm)	A/R	-
91	62144	CHANNEL BAR, JOINT	2	2
92	62145	BRACKET, COVER, JOINT	1	1
93	62142	EXTRUSION, MACHINED, (400mm)	-	2
93	62143	EXTRUSION, MACHINED (300mm)	2	-
94	62146	PANEL, JOINT (400mm)	-	1
94	62147	PANEL, JOINT (300mm)	1	-
95	62149	CHANNEL, SUPPORT	1	1
96	62122-1	BOTTOM (SINGLE MODULE)	1	1
98	41222	LABEL - DANGER HIGH VOLTAGE	4	4
99	62151	PLATE, SHOCK PROTECTION	3	3
100	10037-756M	STANDOFF, M/F, M5 X .8 X 25MM LG	12	12
101	30844	LABEL - WARNING	1	1
102	62150	LABEL - WARNING, SWITCH INFO	1	1
103	61084	LABEL - ON/OFF	1	1
105	62117-1	BRACKET, LAMP MOUNTING, CENTER SUPPORT	4	4
106	62125	BRACKET, CENTER SUPPORT, BOTTOM, ICAO	2	2
107	62126	BRACKET, CENTER SUPPORT, TOP, ICAO	2	2
108	10047-771	TERMINAL, RING, #8 STUD, #22-16 AWG	9	9
109	10046-81	WIRE, BARE	A/R	A/R

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SEE FIGURE 2-4 FOR ELECTRICAL SCHEMATIC  
**FOUR MODULE SIGN (SIDE B)**  
**FIGURE 1-4**

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Table 1-4 Four Module ICAO Sign Assembly Parts List for PL814XX-4

ITEM	PART NUMBER	DESCRIPTION	QTY PER SIZE	
			300mm	400mm
1	62121-2	SIDE	2	-
1	62121-1	SIDE	-	2
2	62123-2	COVER	2	2
3	62122-2	BOTTOM	2	2
4	62128	BRACKET, CORNER BOTTOM, ICAO SIGN	2	2
5	62127	BRACKET, COVER, ICAO SIGN	2	2
6	62124	ANGLE, CORNER, ICAO SIGN	4	4
7	60684	LEG	8	8
8	60683-3	FRANGIBLE COUPLING	-	8
8	60683-8	FRANGIBLE COUPLING	8	-
9	25684-1	FLOOR FLANGE	8	8
10	60730-1	SWITCH ASSEMBLY	1	1
11	10047-2391	SOCKET, FLUORESCENT, PLUNGER END	8	8
12	10047-2392	SOCKET, FLUORESCENT, STATIONARY END	8	8
13	10047-1573	FLUORESCENT LAMP, 36"	8	8
14	60997	INSULATOR, LAMP SOCKET	16	16
15	62137	RAIN CAP, END	2	2
16	62217-3	SIGN FACE PANEL (400 mm)	-	A/R
16	62217-4	SIGN FACE PANEL (300 mm)	A/R	-
17	62218-3	SIGN FACE PANEL, BLACK (400 mm)	-	A/R
17	62218-4	SIGN FACE PANEL, BLACK (300 mm)	A/R	-
18	62148	SPACER, LAMP MTG BRKT	4	4
19	62118	BRACKET, LAMP MOUNTING, ICAO SIGN	4	4
21	61164	BALLAST ASSY	8	8
22	61065-4	DUAL LAMP BYPASS CIRCUIT	4	4
23	CAS1M-P-B-.86	LEAD ASSY	1	1
24	60778	LABEL, POWER LEG	1	1
25	25003	CABLE CLAMP ASSY	1	1
26	40762	RETAINER	2	2
27	62135	CAP, JOINT, RAIN, ICAO SIGN	3	3
28	62141	NAMEPLATE	1	1
29	10053-166	TY-RAP W/MOUNTING HOLE	1	1
30	10047-1434	WIRE NUT	4	4
31	10047-589	2" LOCKNUT	8	8
32	10037-610	HOLE PLUG, 2" DIA	4	4
34	10037-748M	WELDNUT, M6	28	28
35	10047-1222	TY-RAP	30	30
36	10037-578	HOLE PLUG, 1/2" DIA	1	1
37	10000-448M	SCREW, HEX HD W/TORQUE PATCH, M6x1x16mm, SS	1	1
38	10047-1933	SOLDERLESS LUG	1	1

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Table 1-4 Four Module ICAO Sign Assembly Parts List for PL814XX-4 (cont'd)

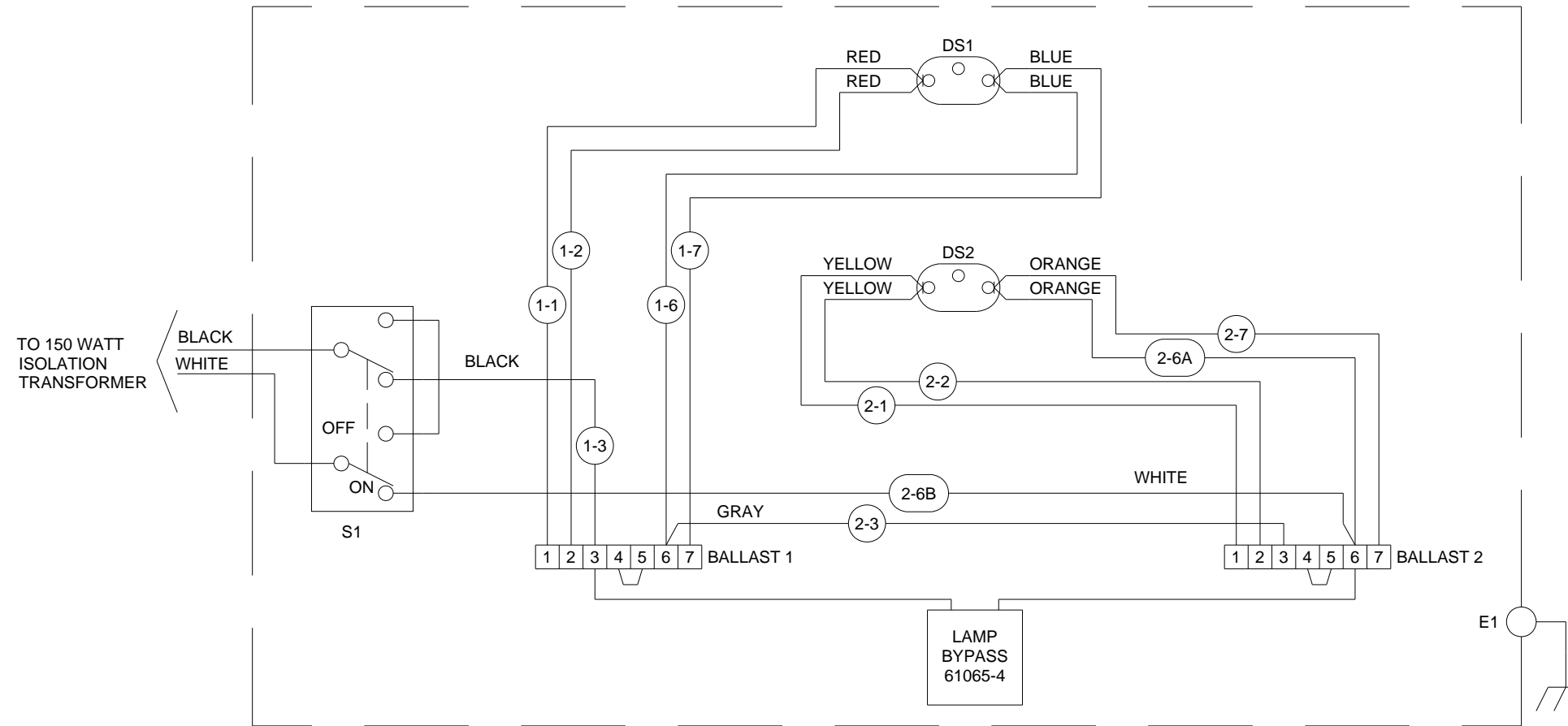
ITEM	PART NUMBER	DESCRIPTION	QTY PER SIZE	
			300mm	400mm
39	10048-30	LOCTITE	A/R	A/R
40	62119	GROUND PLANE, ICAO SIGN	8	8
42	10046-58	WIRE, #16 AWG, WHITE	A/R	A/R
43	10046-95	WIRE, #16 AWG, BLACK	A/R	A/R
44	10046-241-2	WIRE, #16 AWG, RED	A/R	A/R
45	10046-241-6	WIRE, #16 AWG, BLUE	A/R	A/R
46	10046-241-4	WIRE, #16 AWG, YELLOW	A/R	A/R
47	10046-241-3	WIRE, #16 AWG, ORANGE	A/R	A/R
48	10000-449M	SCREW, HEX HD W/TORQUE PATCH, M6x1x12mm	38	38
49	10000-450M	SCREW, HEX HD W/TORQUE PATCH, M6x1x25mm	64	64
50	10031-57M	HEX NUT, M6x1	66	68
52	10000-456	SCREW, SQ HD SET, CUP POINT, 1/4-20 x 5/8" LG	16	16
53	10000-453M	SCREW, HEX HD, M5x.8x10mm	8	8
54	10030-122M	FLAT WASHER, M5	8	8
55	10030-123M	LOCKWASHER, SPLIT, M4	8	8
56	10030-452M	SCREW, PAN HD, M4x.7x8mm	8	8
57	10030-124M	WASHER, PLAIN M4	8	8
58	10033-91	POP-RIVET, 3/16 DIA, .126-.250 GRIP	28	28
59	62136	LABEL, GROUND WARNING	1	1
60	10L01-019D	NUT, #10-32, SS	16	16
61	10B10-019D20	SCREW, HEX HD, #10-32 x 5/8 LG	16	16
62	10047-1569	TERMINAL, SPADE, #6 STUD, #16-14 AWG	16	16
63	10047-1170	TERMINAL, FORK, #22-16 AWG, #6 STUD	48	48
64	10046-93	WIRE, #16 AWG, VIOLET	A/R	A/R
65	10H29-025D20	SCREW, HEX HD, TYPE F, 1/4-20 x 5/8 LG	5	5
66	62152	LABEL - WARNING, HAZARDOUS VOLTAGE	1	1
67	62117	BRACKET, LAMP MOUNTING, CENTER SUPPORT	8	8
76	62116-1	SUPPORT, CENTER, ICAO SIGN (400MM)	-	4
76	62116-2	SUPPORT, CENTER, ICAO SIGN (300MM)	4	-
82	2508	INSTRUCTION MANUAL	1	1
83	10046-241-8	WIRE, #16 AWG, GRAY	A/R	A/R
84	10046-241-1	WIRE, #16 AWG, BROWN	A/R	A/R
85	10047-2565-25	WIRE MARKER, 1/4" I.D., WHITE	A/R	A/R
86	10030-125M	FLATWASHER, M6, SS	20	24
87	26811-27	CONSOLIDATING HARNESS	1	1
88	62144	CHANNEL BAR, JOINT	2	2
89	62145	BRACKET, COVER, JOINT	1	1
90	62142	EXTRUSION, MACHINED, (400mm)	-	2
90	62143	EXTRUSION, MACHINED (300mm)	2	-
91	62146	PANEL, JOINT (400mm)	-	1

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Table 1-4 Four Module ICAO Sign Assembly Parts List for PL814XX-4 (cont'd)

ITEM	PART NUMBER	DESCRIPTION	QTY PER SIZE	
			300mm	400mm
91	62147	PANEL, JOINT (300mm)	1	-
92	62149	CHANNEL, SUPPORT	1	1
94	41222	LABEL - DANGER HIGH VOLTAGE	5	5
95	62151	PLATE, SHOCK PROTECTION	4	4
96	10037-756M	STANDOFF, M/F, M5 X .8 X 25MM LG	16	16
97	30844	LABEL - WARNING	1	1
98	62150	LABEL - WARNING, SWITCH INFO	1	1
99	61084	LABEL - ON/OFF	1	1
101	62117-1	BRACKET, LAMP MOUNTING, CENTER SUPPORT	4	4
102	62126	BRACKET, CENTER SUPPORT, TOP	2	2
103	62125	BRACKET, CENTER SUPPORT, BOTTOM	3	3
104	10047-771	TERMINAL, RING, #8 STUD, #22-16 AWG	12	12
105	10046-81	WIRE, BARE	A/R	A/R

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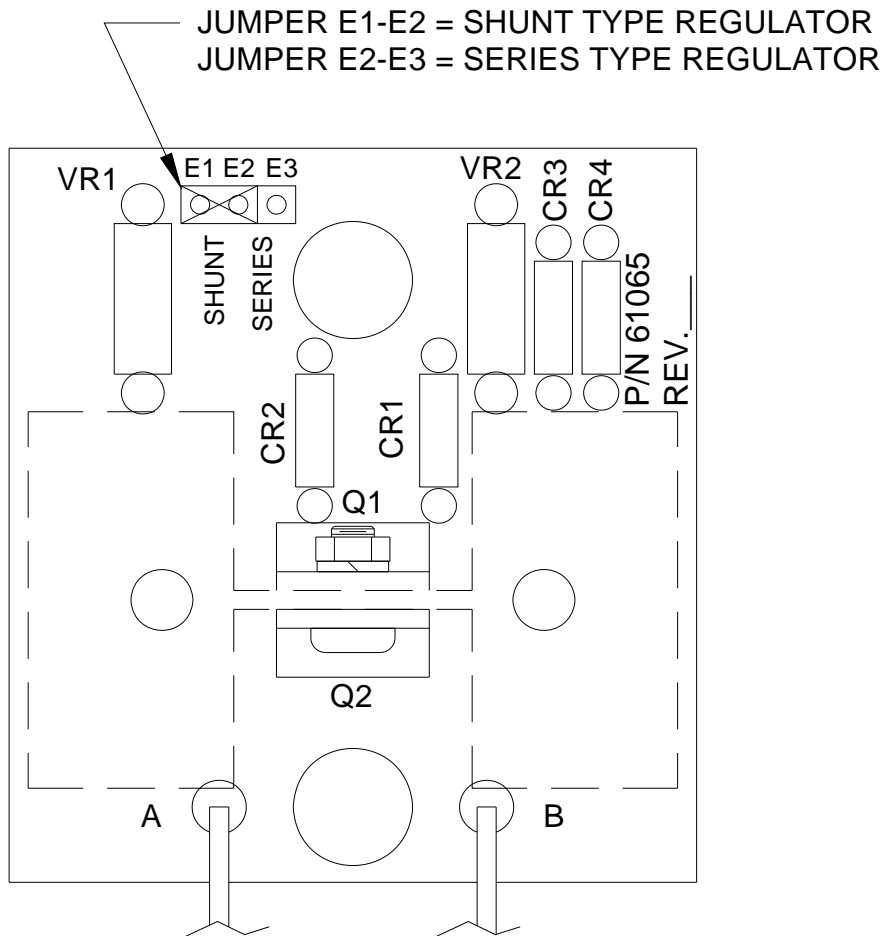


2 LAMPS, 55 TURN BALLAST

SEE FIGURE 2-1A FOR LAMP BYPASS CIRCUIT DETAILS

**WIRING SCHEMATIC, SINGLE MODULE SIGN (SIDE B)**  
**FIGURE 2-1**

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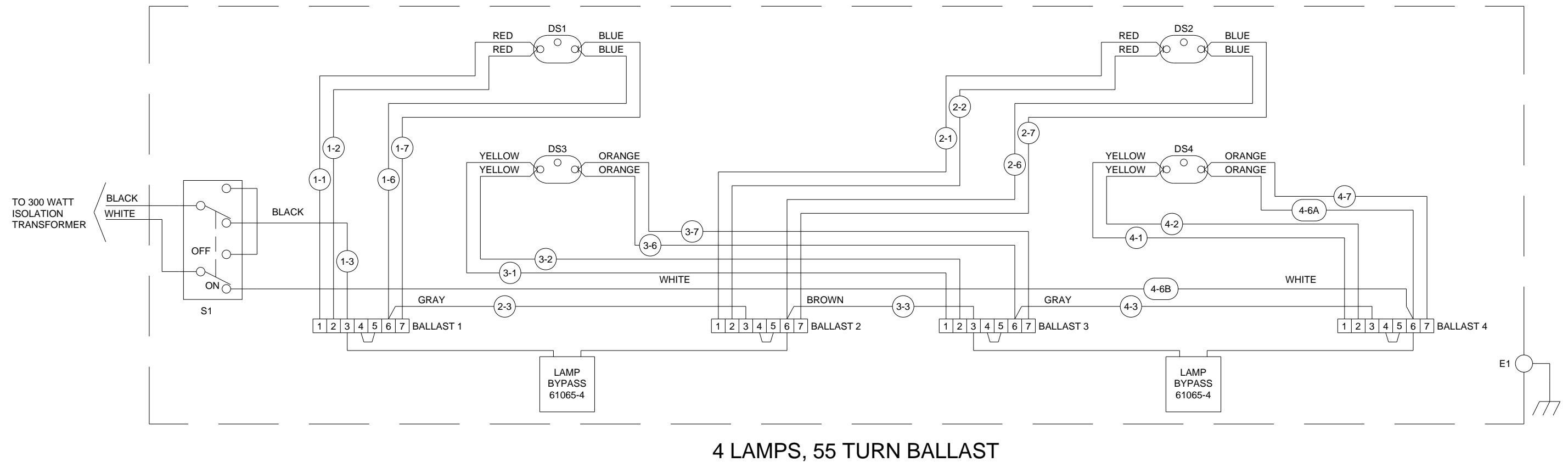
**NOTE:**

ALL SIGNS ARE SHIPPED WITH THE JUMPER IN THE SHUNT POSITION. IF THE SIGN FAILS TO START, CHECK ON-OFF SWITCH AND LAMPS BEFORE MOVING JUMPER.

**BE SURE POWER IS OFF!**

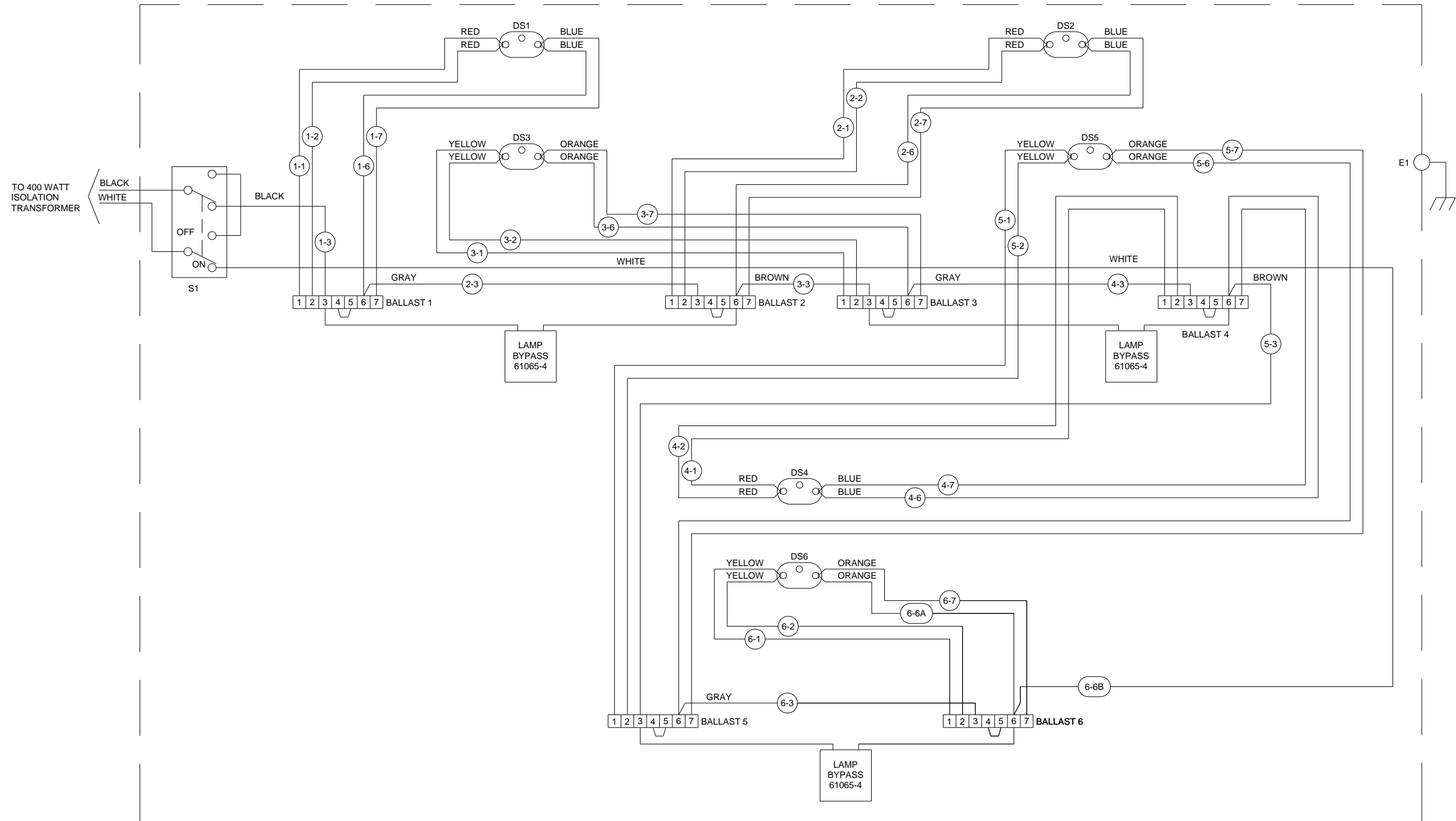
**LAMP BYPASS CIRCUIT**  
**FIGURE 2-1A**

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**4 LAMPS, 55 TURN BALLAST**  
**WIRING SCHEMATIC, DOUBLE MODULE SIGN (SIDE B)**  
**FIGURE 2-2**

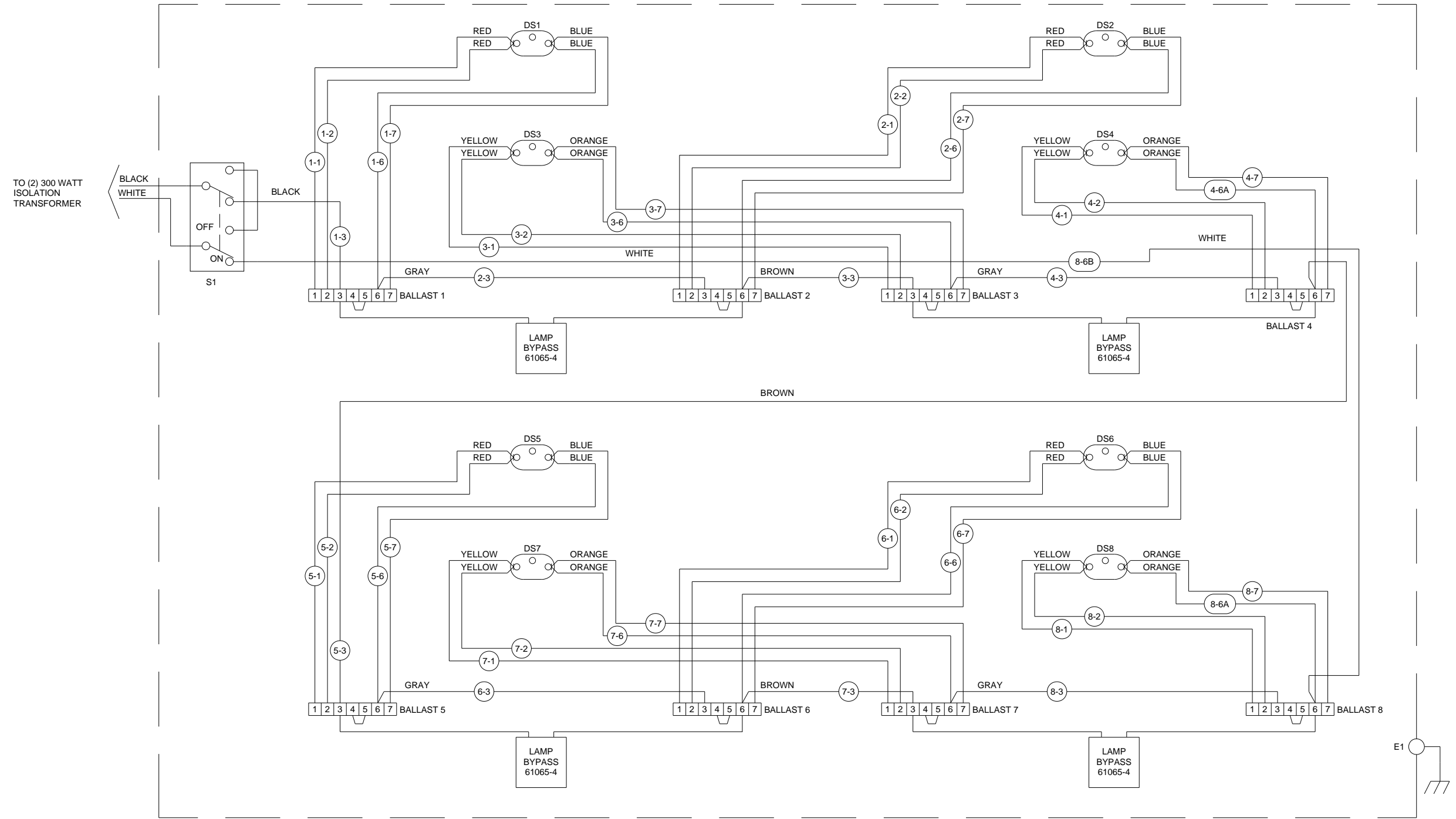
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6 LAMPS, 55 TURN BALLAST

**WIRING SCHEMATIC, THREE MODULE SIGN (SIDE B)  
FIGURE 2-3**

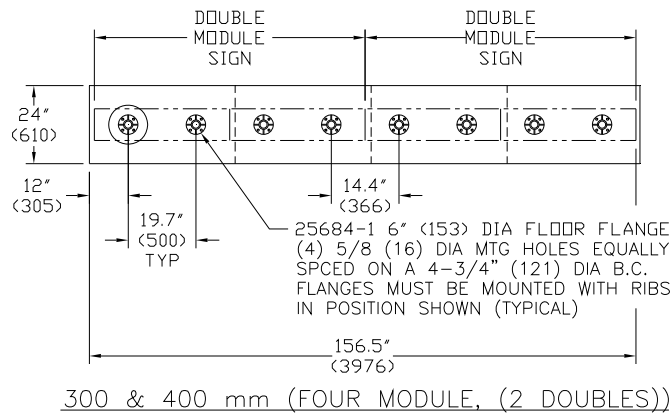
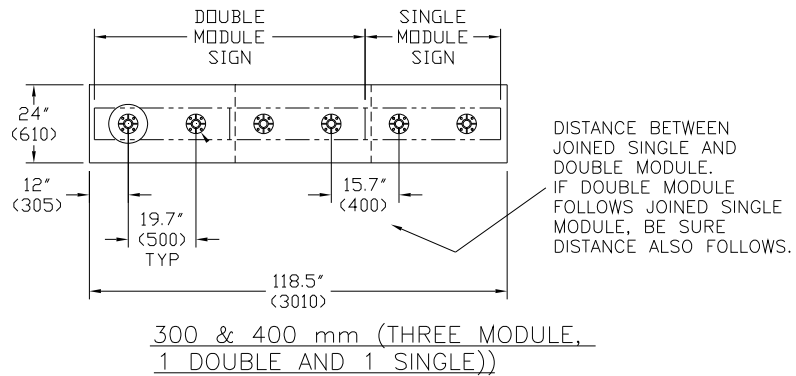
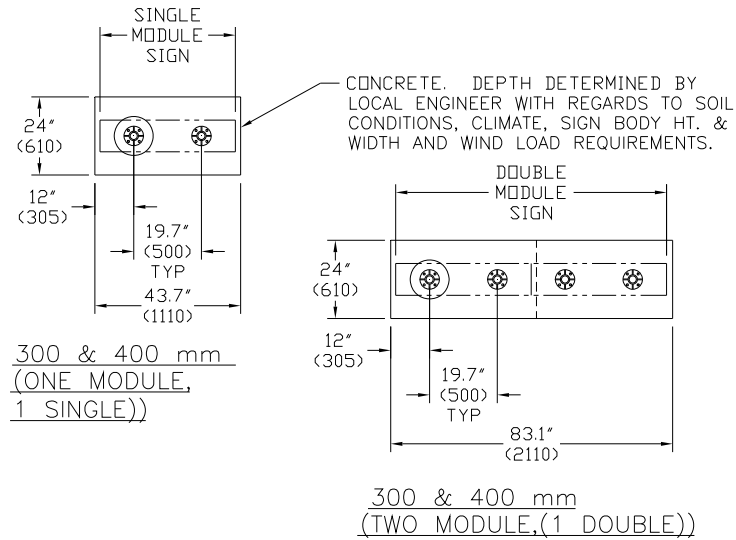
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8 LAMPS, 55 TURN BALLAST

**WIRING SCHEMATIC, FOUR MODULE SIGN (SIDE B)**  
**FIGURE 2-4**

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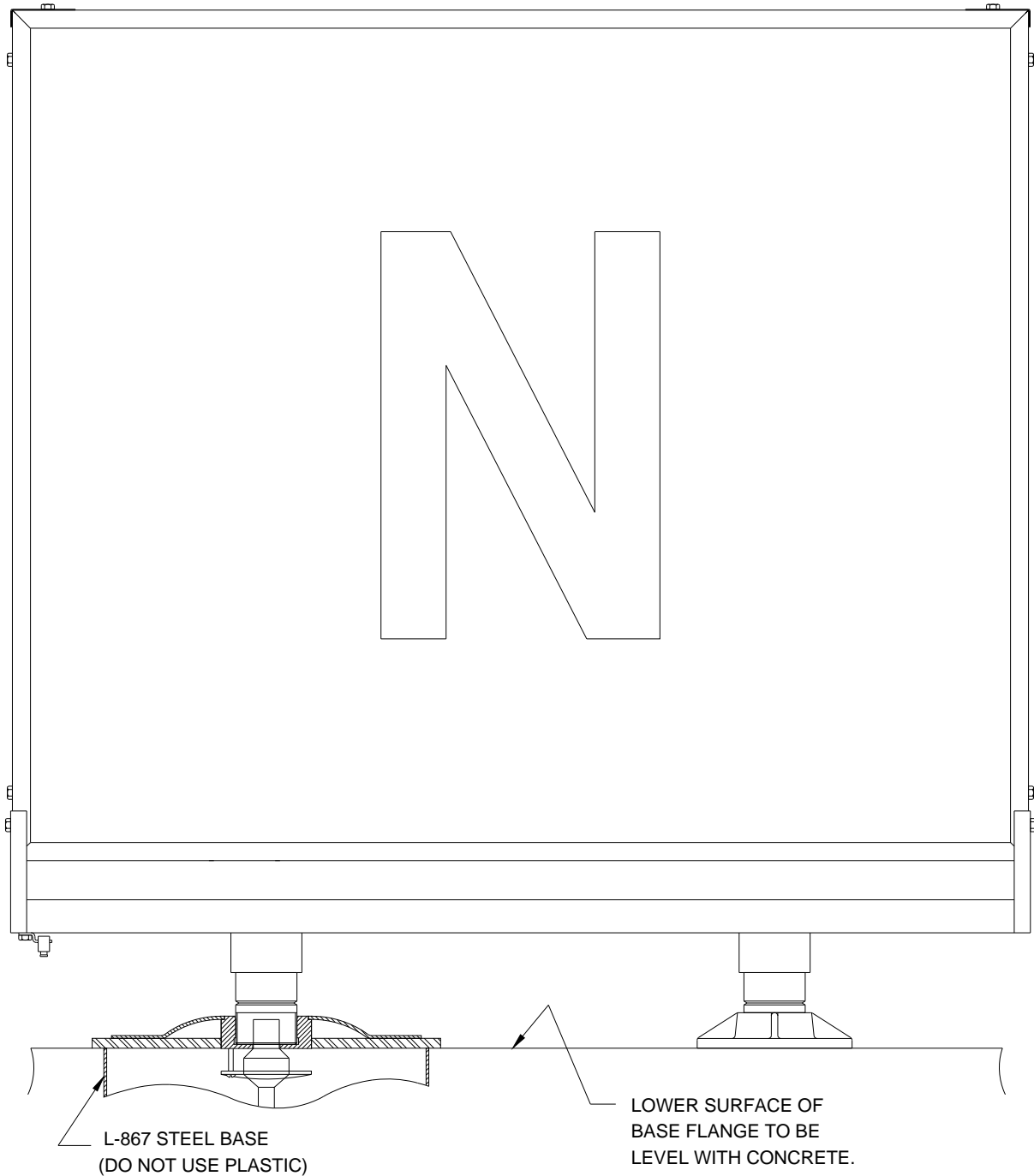


SEE FIGURE 3-2 FOR DETAILS

CONCRETE PAD DIMENSIONS

FIGURE 3-1

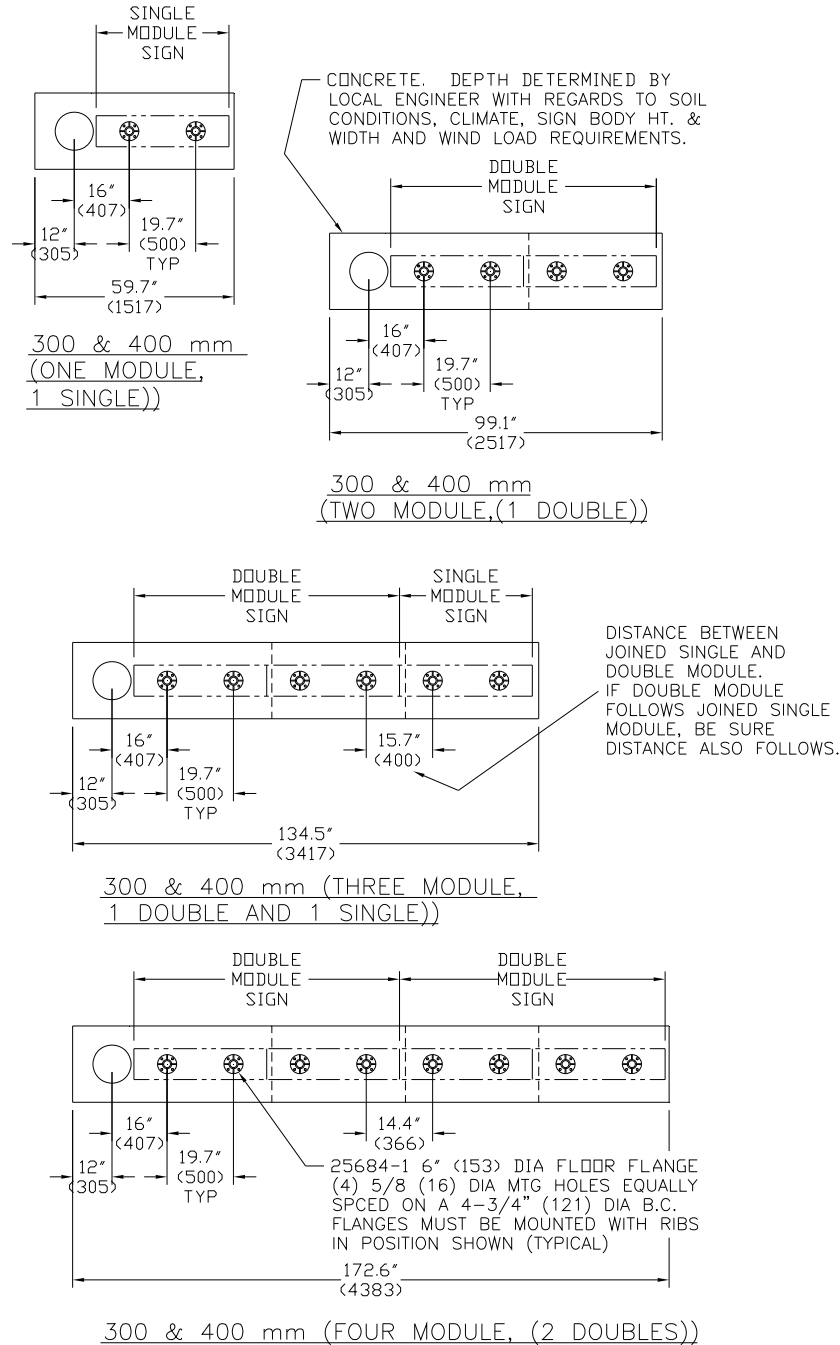
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**MOUNTING DETAIL, STEEL BASE**

**FIGURE 3-2**

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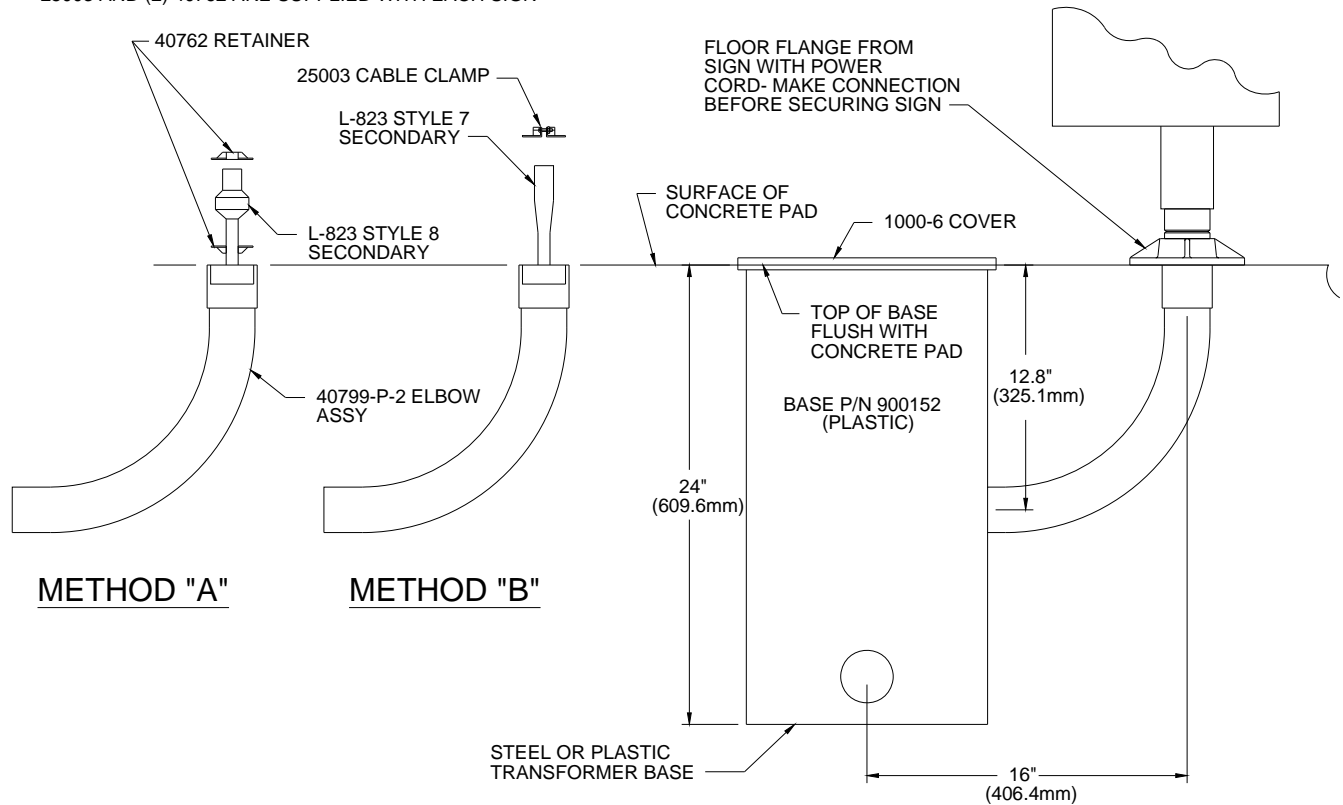
SEE FIGURE 3-4 FOR DETAILS

CONCRETE PAD DIMENSIONS, ELBOW TO BASE

FIGURE 3-3

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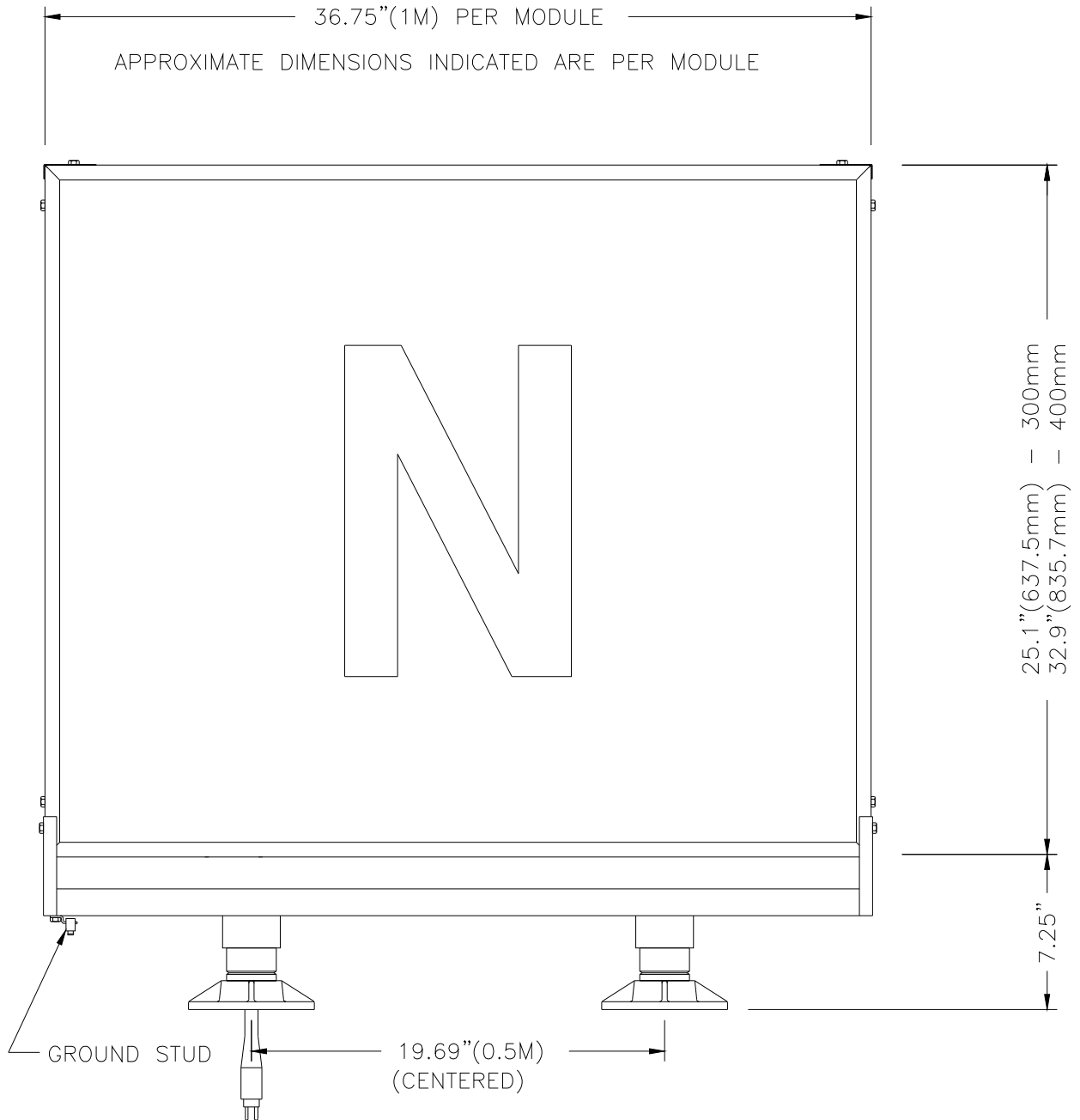
25003 AND (2) 40762 ARE SUPPLIED WITH EACH SIGN



**MOUNTING DETAIL, ELBOW ASSEMBLY**

**FIGURE 3-4**

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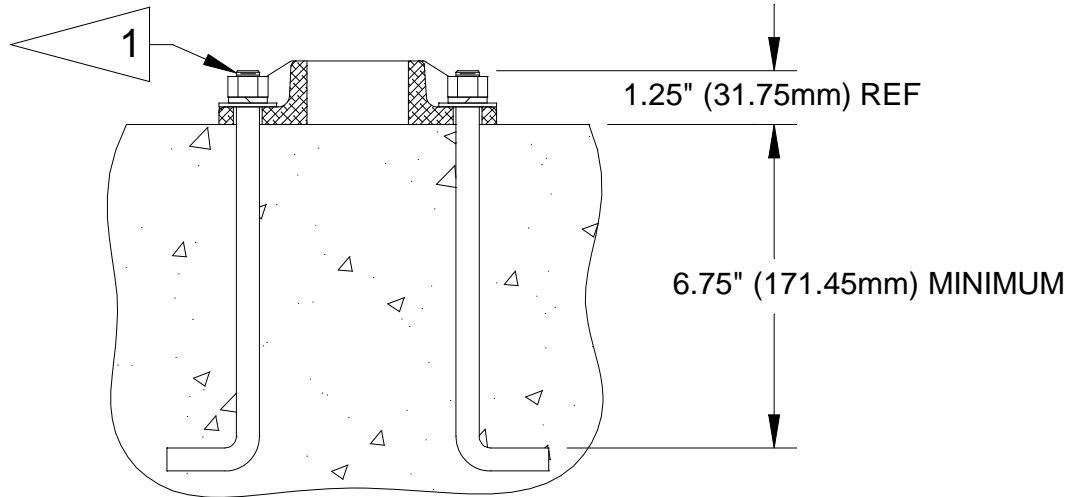


SIGN SIDE "B" SHOWN  
(POWER CORD ON LEFT)

**SIGN DIMENSIONS**

**FIGURE 3-5**

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## **FLANGE INSTALLATION WITH 'L' ANCHOR BOLTS**

USE FOUR (4) 'L' TYPE ANCHOR BOLTS PER FLANGE, #1/2-13 x 8" MINIMUM  
BOLT MATERIAL TO BE ZINC GALVANIZED STEEL OR STAINLESS STEEL

1 ANCHOR BOLTS MUST BE CAPABLE OF WITHSTANDING A MINIMUM  
PULL-OUT (TENSION) LOAD OF 8750 POUNDS.

**FIGURE 3-6**