

# Allmand™

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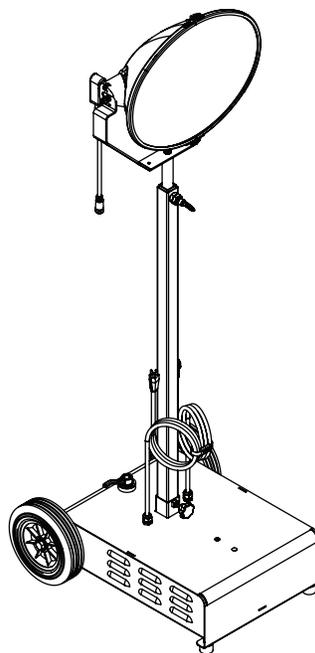
(en) **Parts & Wire Schematic Manual**  
**PORT-A-LITE®**  
**PAL1000 & PAL1250**

**Portable  
Industrial  
Heaters**

**Portable  
Light Towers**

**Portable  
Light Stands**

**Solar Flashing  
Arrow Boards**



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Part No.: 109001  
Revision: A

LIGHT TOWER APP



**Reliability, Performance, and Integrity Since 1938**

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# **PAL1000 & PAL1250**

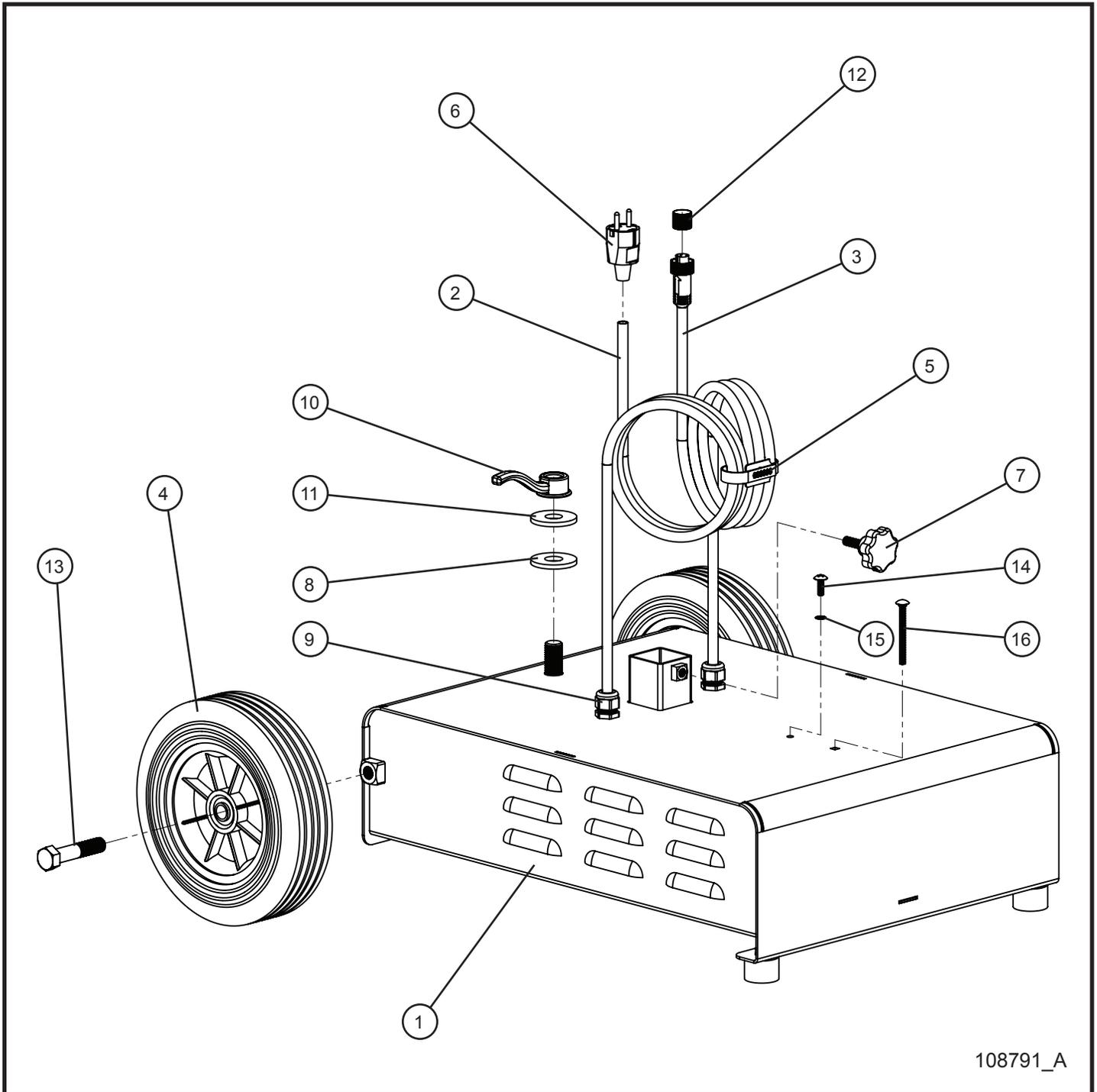
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## 1.1 - PAL 1000 Base Assembly Group (1 of 3)

SN 15-000001 and UP



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# PAL1000 & PAL1250

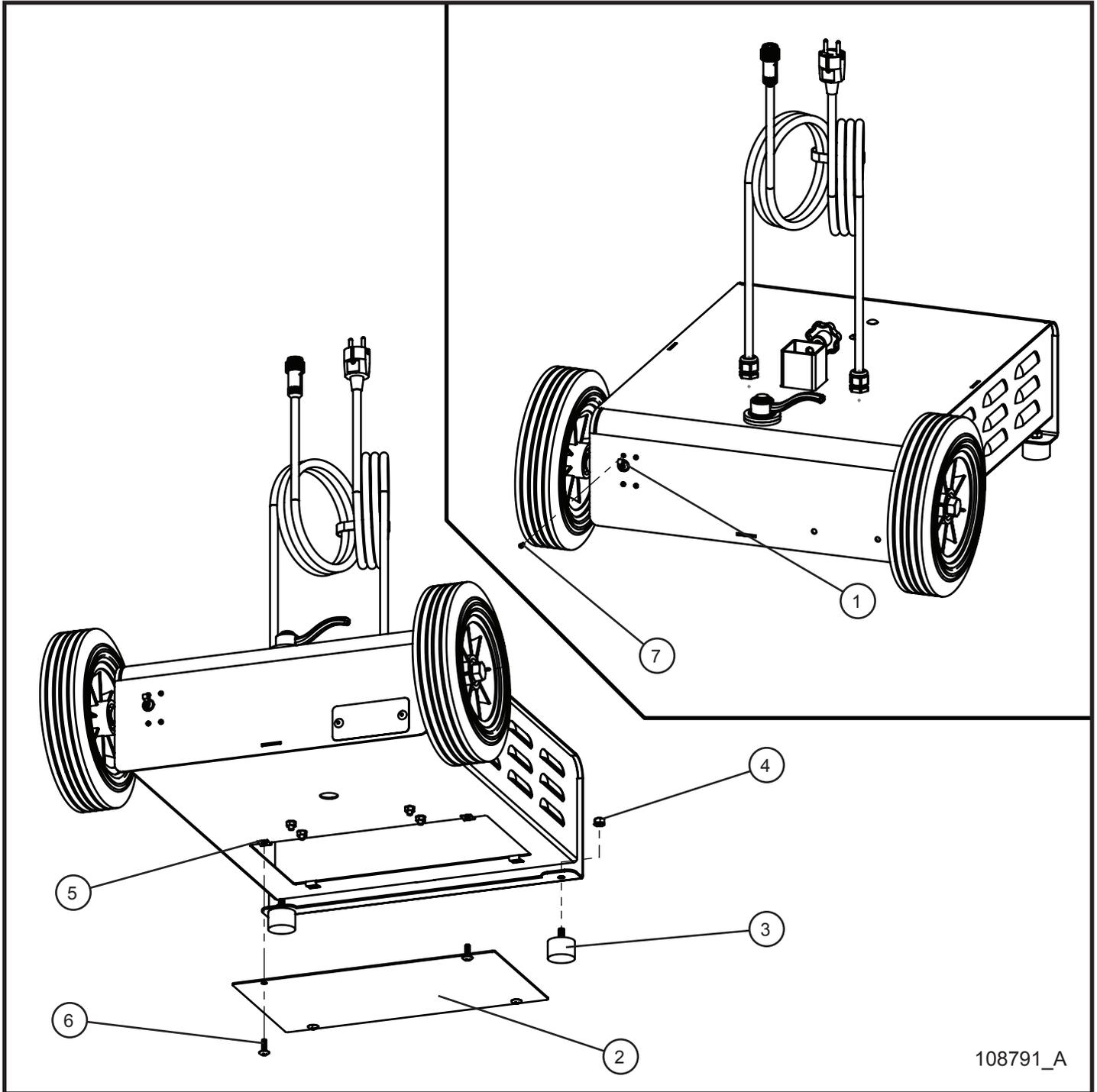
## 1.1 - PAL 1000 Base Assembly Group (1 of 3)

SN 15-000001 and UP

Item	Part No.	Part Description	Qty.
1	108790P	BASE WELDMENT 50Hz	1
	108975P	BASE WELDMENT 50Hz 1/2-13 LOCK KNOB	1
2	530126	PRIMARY 16/3 CORD	1
3	530127	FEMALE CONNECTOR CABLE MINI QUICK	1
4	530128	10" x 1 3/4 WHEEL	2
5	068098	VELCRO TIE CABLE	1
6	108840	PLUG SCHUKO 50Hz	1
7	100516	LOCKING KNOB	1
	620550	1/2-13 LOCKING KNOB	1
8	650550	.785" x 2" HDPE WASHER	1
9	105626	CORD GRIP 1/2" NYLON BLACK	2
10	630728	SHO HANDLE NUT	1
11	047035	3/4 FLAT WASHER PL	1
12	530136	ALUMINUM COUPLER	1
13	046244	5/8-11 x 3 HEX HEAD CS GR5 PL	2
14	041050	1/4-20 x 3/4 PH-TRUSS HEAD MS SS	1
15	043050	1/4 INTL TOOTH LOCK WASHER	1
16	100718	1/4-20 x 2 1/4 CARRIAGE BOLT	1
17	108064	SCHEMATIC BASE 50Hz PAL 1000	1

## 1.1 - PAL 1000 Base Assembly Group (2 of 3)

SN 15-000001 and UP



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# PAL1000 & PAL1250

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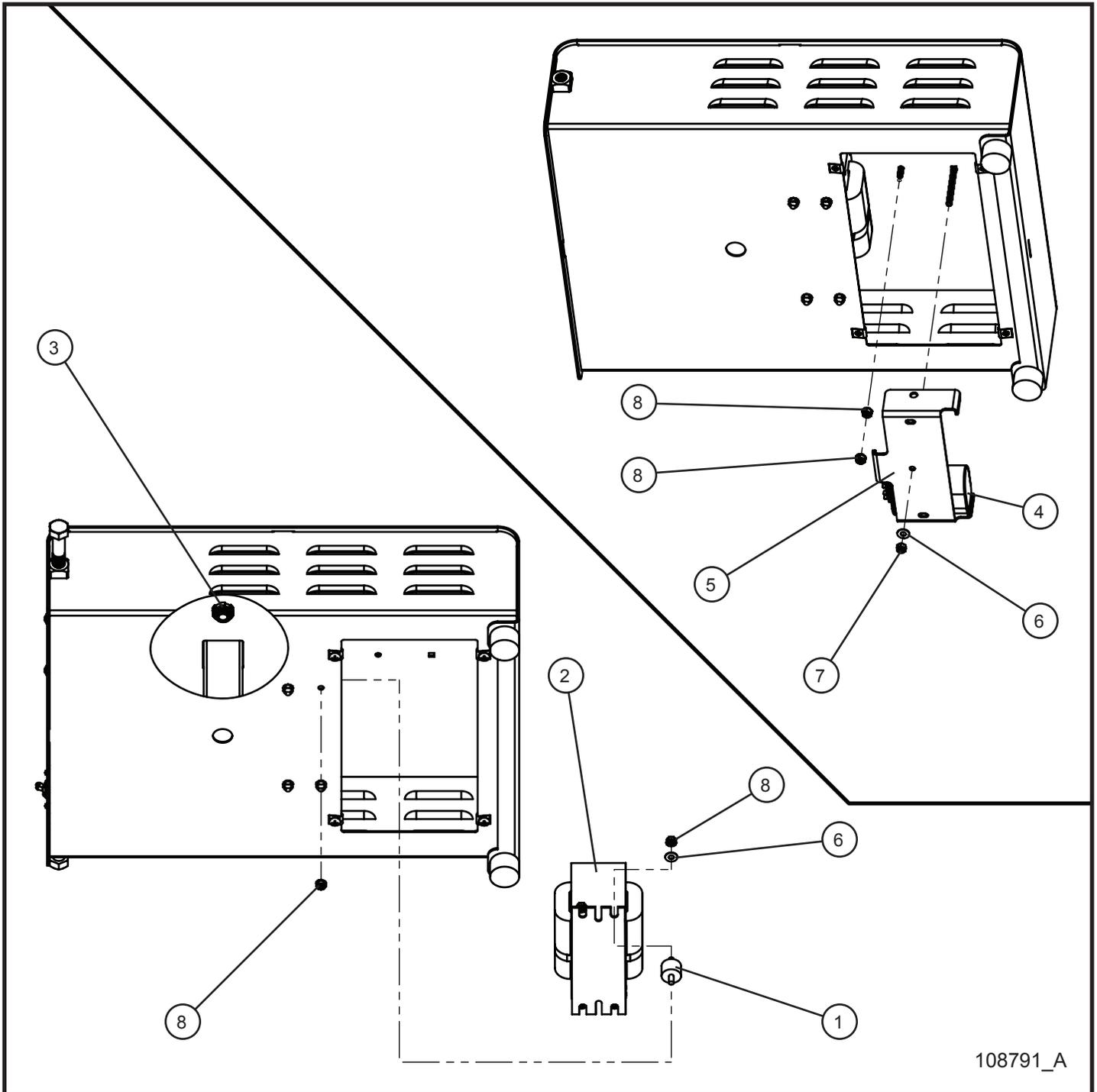
## 1.1 - PAL 1000 Base Assembly Group (2 of 3)

SN 15-000001 and UP

Item	Part No.	Part Description	Qty.
1	650530	15 AMP DPST BREAKER SWITCH 15AMP DPST	1
2	530404P	COVER BASE	1
3	713578	RUBBER BUMPER	2
4	044031	5/16-18 KEPS HEX NUT PL	2
5	045216	1/4-20 TINNEMAN NUT	4
6	041050	1/4-20 x 3/4 PH-TRUSS HEAD MS SS	4
7	041251	M3 x 0.5mm x 8mm PH-PAN HEAD MS ZC	4

## 1.1 - PAL 1000 Base Assembly Group (3 of 3)

SN 15-000001 and UP



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# PAL1000 & PAL1250

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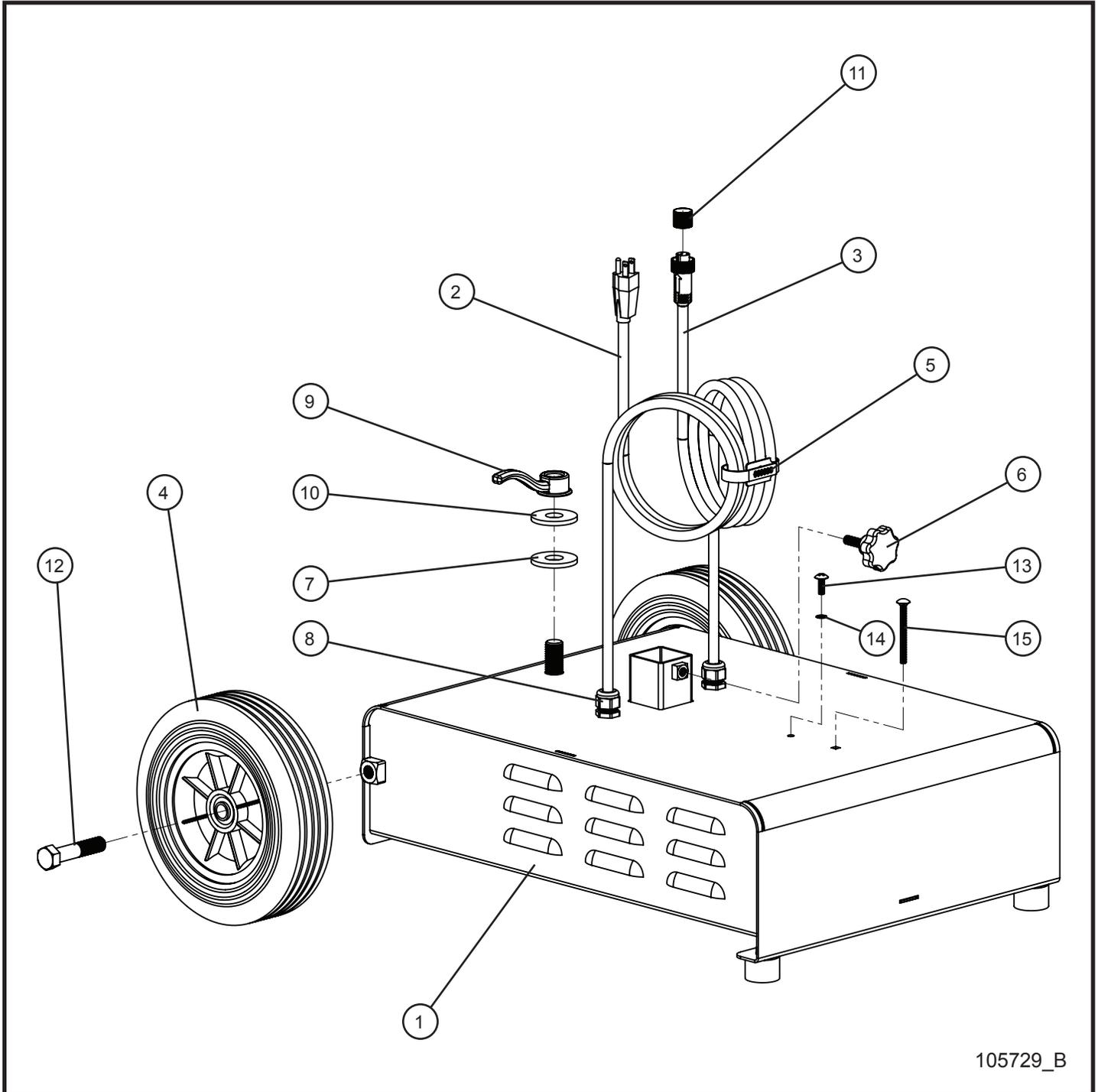
## 1.1 - PAL 1000 Base Assembly Group (3 of 3)

SN 15-000001 and UP

Item	Part No.	Part Description	Qty.
1	330057	BOX MOUNT RUBBER	4
2	310116A	BALLAST KIT 1000W 50Hz (INCLUDES 310115A)	1
3	022035	1/2 CORD GRIP NUT	2
4	310115A	CAPACITOR 26uF 60/50Hz 540V	1
5	100392P	TABBED CAPACITOR CLAMP	1
6	047009	1/4 FLAT WASHER SAE SS	5
7	044023	1/4-20 NYLOCK HEX NUT PL	1
8	044021	1/4-20 KEPS HEX NUT PL	10

## 1.2 - PAL 1250 Base Assembly Group (1 of 3)

SN 03-000001 and UP



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# PAL1000 & PAL1250

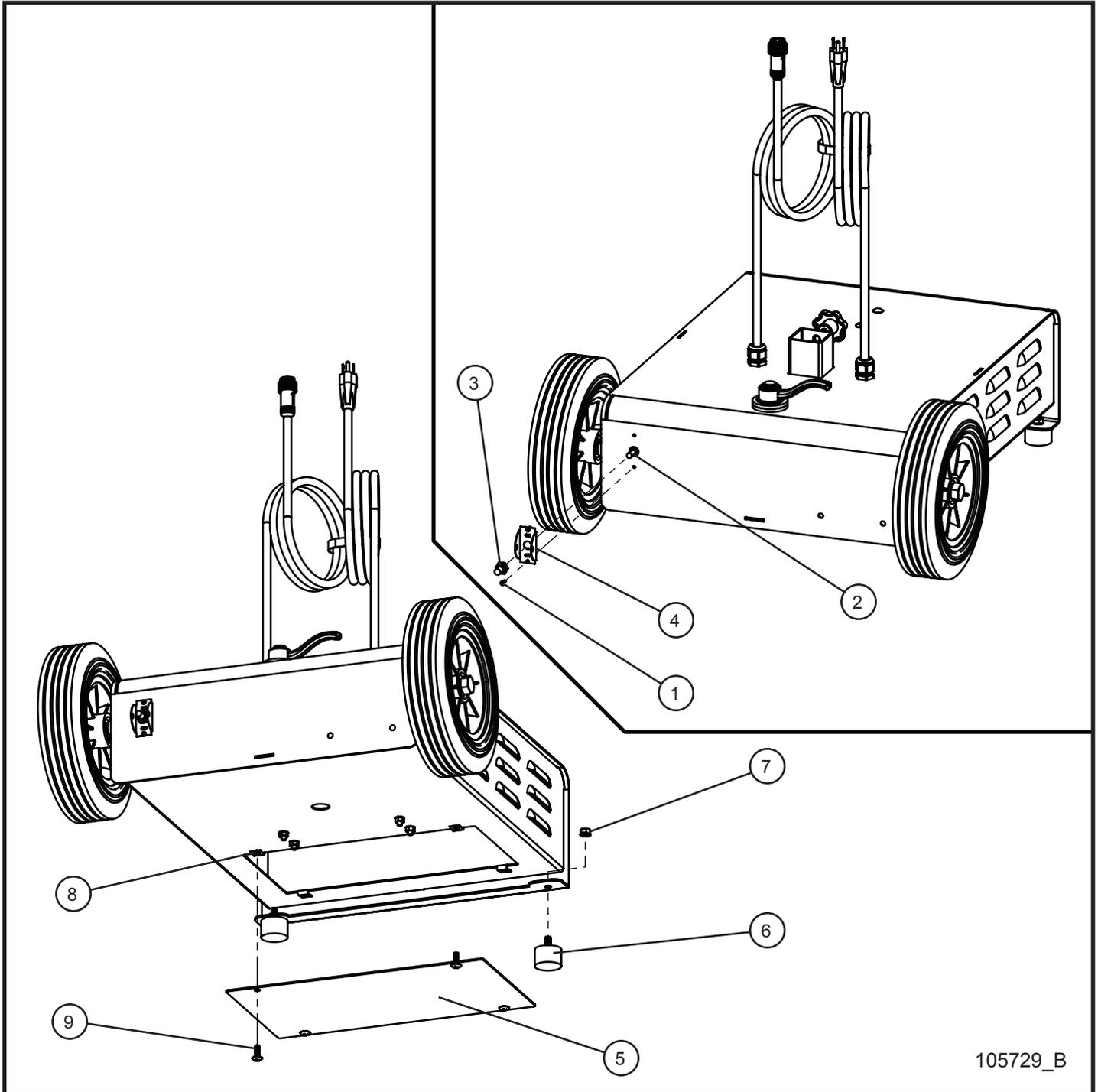
## 1.2 - PAL 1250 Base Assembly Group (1 of 3)

SN 03-000001 and UP

Item	Part No.	Part Description	Qty.
1	530360P	BASE WELDMENT 60Hz	1
	108976P	BASE WELDMENT 60Hz 1/2-13 LOCK KNOB	1
2	530126	PRIMARY 16/3 CORD	1
3	530127	FEMALE CONNECTOR CABLE MINI QUICK	1
4	530128	10" x 1 3/4 WHEEL	2
5	068098	VELCRO TIE CABLE	1
6	100516	LOCKING KNOB	1
	620550	1/2-13 LOCKING KNOB	1
7	650550	.785" x 2" HDPE WASHER	1
8	105626	CORD GRIP 1/2" NYLON BLACK	2
9	630728	SHO HANDLE NUT	1
10	047035	3/4 FLAT WASHER PL	1
11	530136	ALUMINUM COUPLER	1
12	046244	5/8-11 x 3 HEX HEAD CS GR5 PL	2
13	041050	1/4-20 x 3/4 PH-TRUSS HEAD MS SS	1
14	043050	1/4 INTL TOOTH LOCK WASHER	1
15	100718	1/4-20 x 2 1/4 CARRIAGE BOLT	1
16	106876	SCHEMATIC BASE PAL 1250	1

## 1.2 - PAL 1250 Base Assembly Group (2 of 3)

SN 03-000001 and UP



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# PAL1000 & PAL1250

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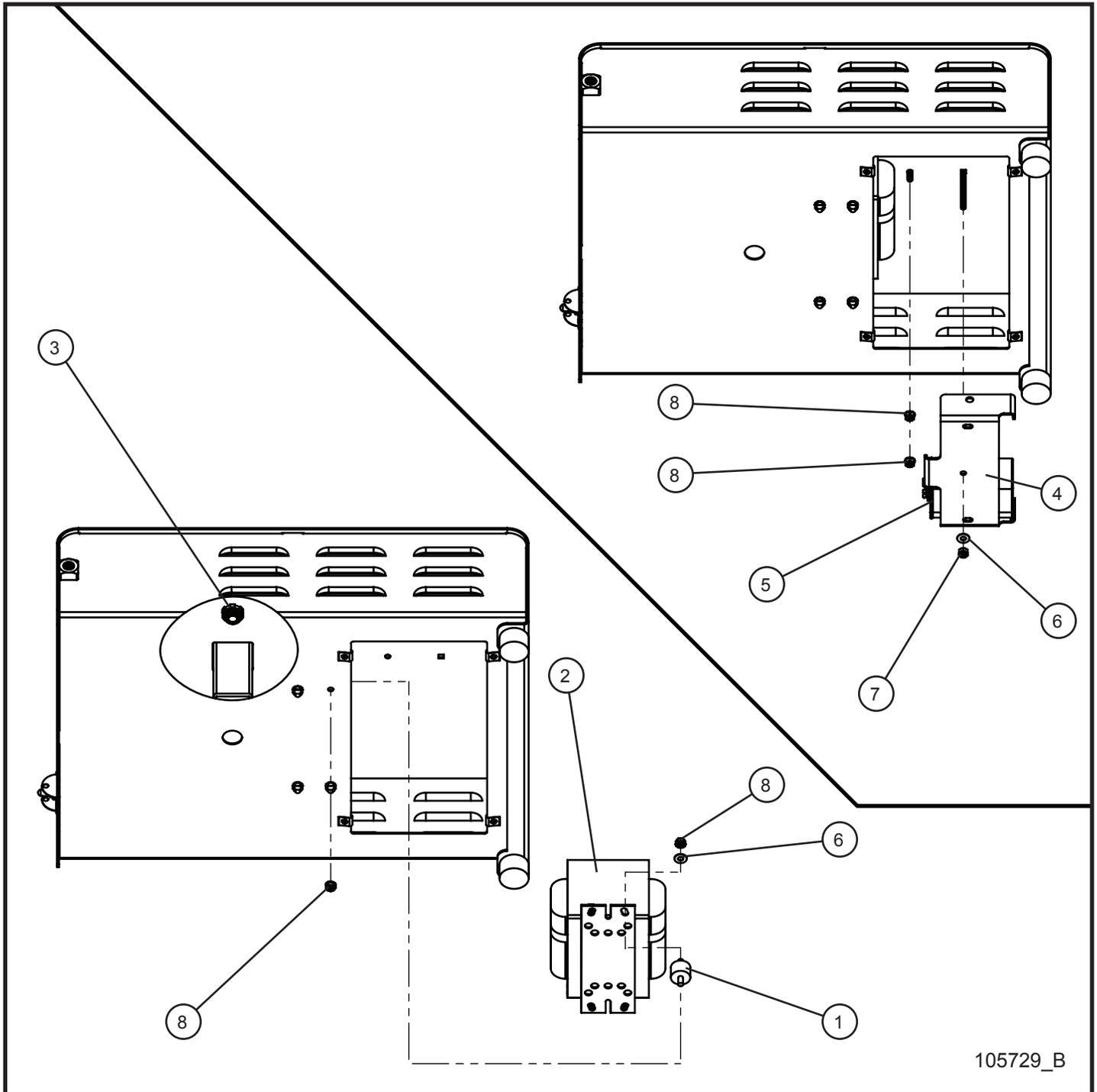
## 1.2 - PAL 1250 Base Assembly Group (2 of 3)

SN 03-000001 and UP

Item	Part No.	Part Description	Qty.
1	045116	1/8 x 1/4 BLIND RIVET	2
2	530123	20A SPST TOGGLE SWITCH	1
3	530124	BOOT SWITCH COVER	1
4	530125	SWITCH GUARD	1
5	530404P	COVER BASE	1
6	713578	RUBBER BUMPER	2
7	044031	5/16-18 KEPS HEX NUT PL	2
8	045216	1/4-20 TINNEMAN NUT	4
9	041050	1/4-20 x 3/4 PH-TRUSS HEAD MS SS	4

## 1.2 - PAL 1250 Base Assembly Group (3 of 3)

SN 03-000001 and UP



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# PAL1000 & PAL1250

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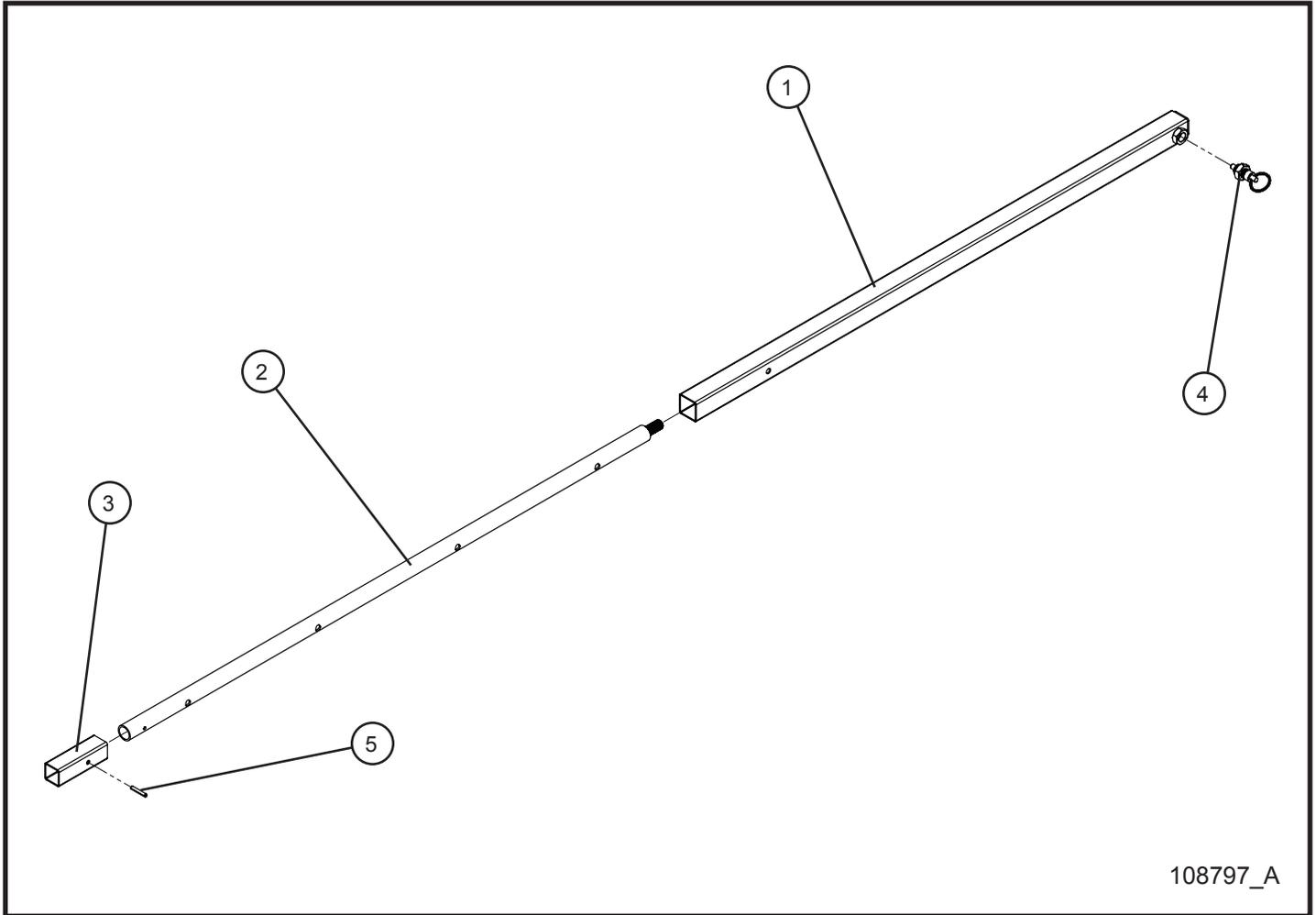
## 1.2 - PAL 1250 Base Assembly Group (3 of 3)

SN 03-000001 and UP

Item	Part No.	Part Description	Qty.
1	330057	BOX MOUNT RUBBER	4
2	109606	BALLAST KIT 1250W 60Hz (INCLUDES 100329)	1
3	022035	1/2 CORD GRIP NUT	2
4	100329	CAPACITOR 28uF 525V	1
5	100392P	TABBED CAPACITOR CLAMP	1
6	047009	1/4 FLAT WASHER SAE SS	5
7	044023	1/4-20 NYLOCK HEX NUT PL	1
8	044021	1/4-20 KEPS HEX NUT PL	10

## 1.3 - PAL Mast Assembly Group

SN 15-000001 and UP  
SN 03-000001 and UP



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# PAL1000 & PAL1250

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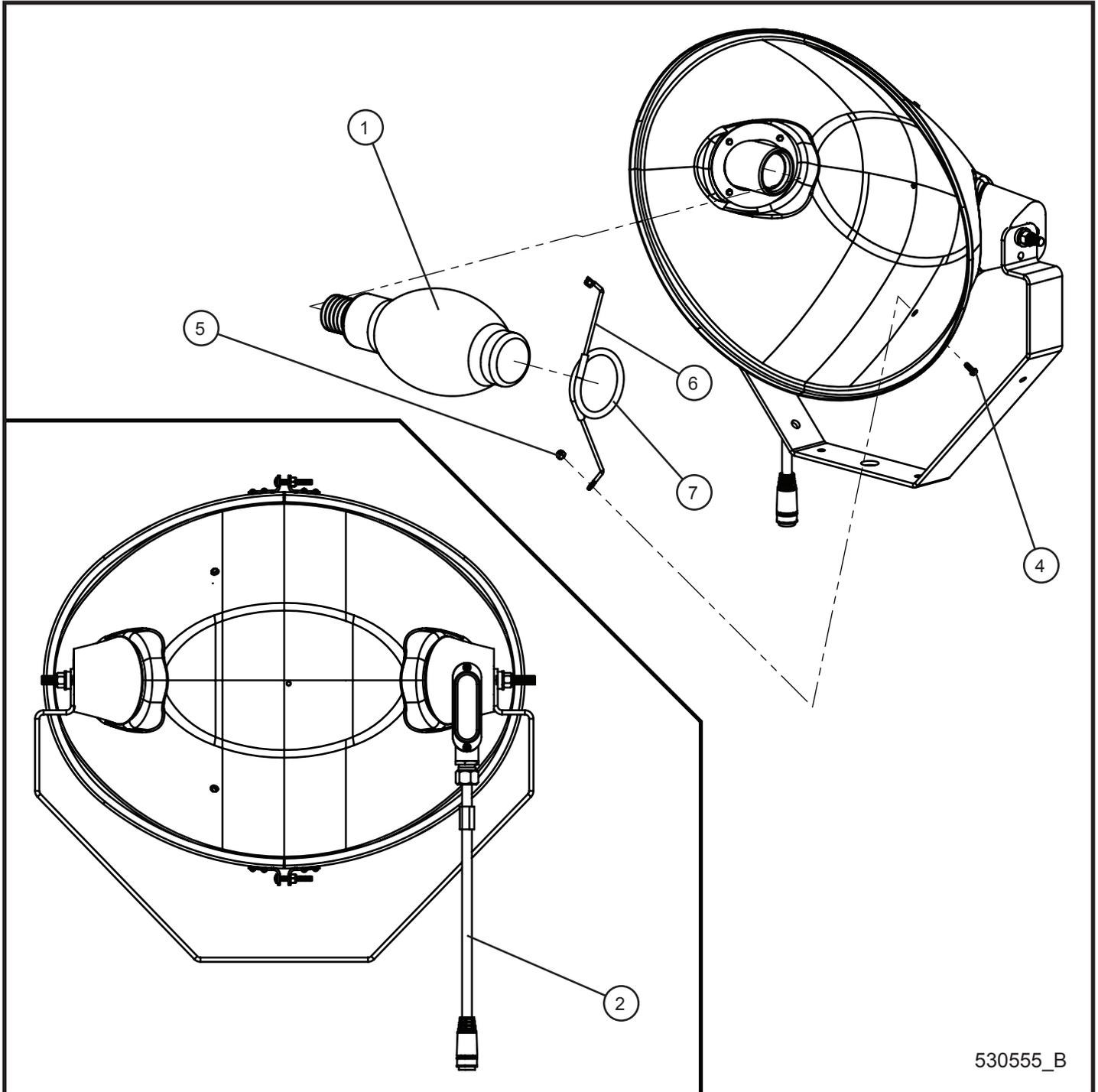
## 1.3 - PAL Mast Assembly Group

SN 15-000001 and UP  
SN 03-000001 and UP

Item	Part No.	Part Description	Qty.
1	530405P	OUTER MAST WELDMENT - PAL	1
2	530361P	INNER MAST WELDMENT - PAL	1
3	530511P	GUIDE TUBE INSIDE MAST	1
4	530409	LATCH ASSY PIN SPRING - PAL	1
5	045145	1/4 x 1 1/2 SPRING ROLL PIN	1

## 2.1 - 1000W Lamp Assembly Group

SN 15-000001 and UP



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# PAL1000 & PAL1250

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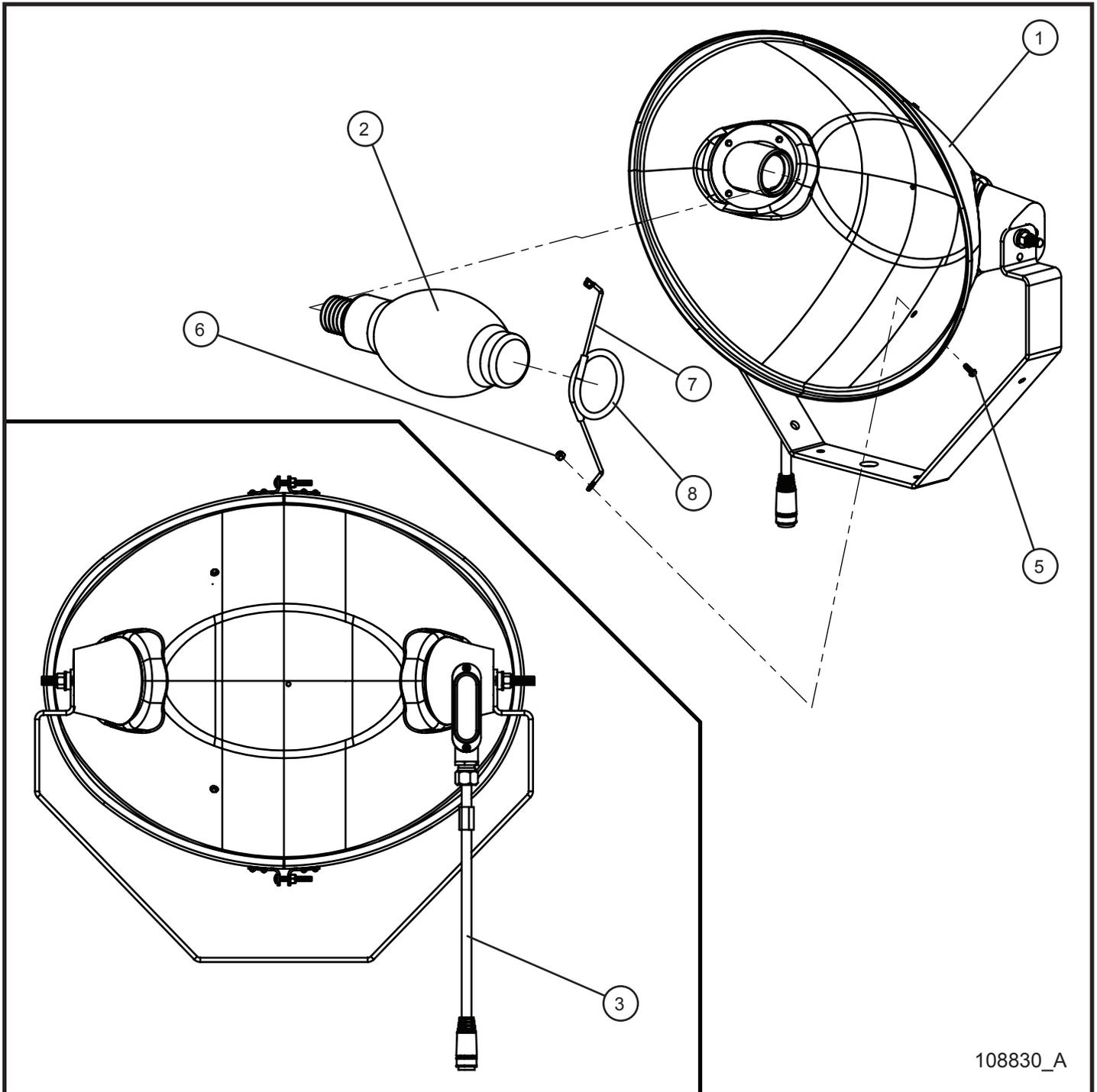
## 2.1 - 1000W Lamp Assembly Group

SN 15-000001 and UP

Item	Part No.	Part Description	Qty.
--	530555	1000W LAMP COMPLETE ASSEMBLY	1
1	610211	LAMP 1000W BT37 (MH)	1
2	310434	MALE CONNECTOR CABLE MINI QUICK	1
3	102624	2 WIRE LEVER LOCK (NOT SHOWN)	3
4	041200	#8-32 x 1/2 HEX WASHER HEAD INDT	2
5	044013	#8-32 NYLOCK HEX NUT SS	2
6	610209	SUPPORT TIP LAMP SHO	1
7	610210	FIBERGLASS TUBE 12" LAMP SUPPORT	1

## 2.2 - 1250W Lamp Assembly Group

SN 03-000001 and UP



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# PAL1000 & PAL1250

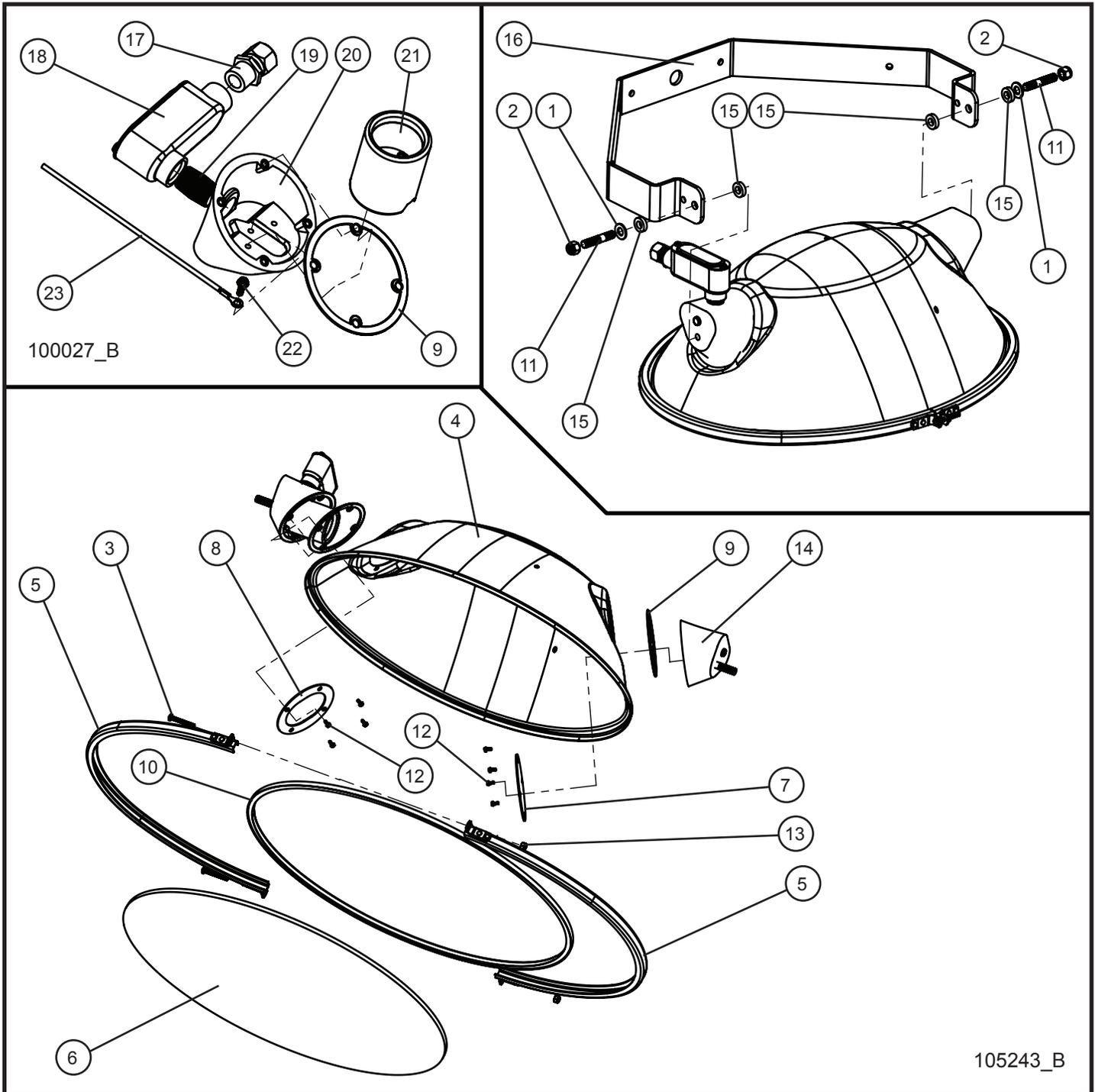
## 2.2 - 1250W Lamp Assembly Group

SN 03-000001 and UP

Item	Part No.	Part Description	Qty.
--	108830	1250W LAMP COMPLETE ASSEMBLY	1
1	650147	LAMPHOLDER SHO ASSEMBLED	1
2	610221	LAMP 1250W BT37 (MH)	1
3	310434	MALE CONNECTOR CABLE MINI QUICK	1
4	102624	2 WIRE LEVER LOCK (NOT SHOWN)	3
5	041200	#8-32 x 1/2 HEX WASHER HEAD INDT	2
6	044013	#8-32 NYLOCK HEX NUT SS	2
7	610209	SUPPORT TIP LAMP SHO	1
8	610210	FIBERGLASS TUBE 12" LAMP SUPPORT	1

## 2.3 - Lampholder Assembly Group

SN 15-000001 and UP  
SN 03-000001 and UP



# PAL1000 & PAL1250

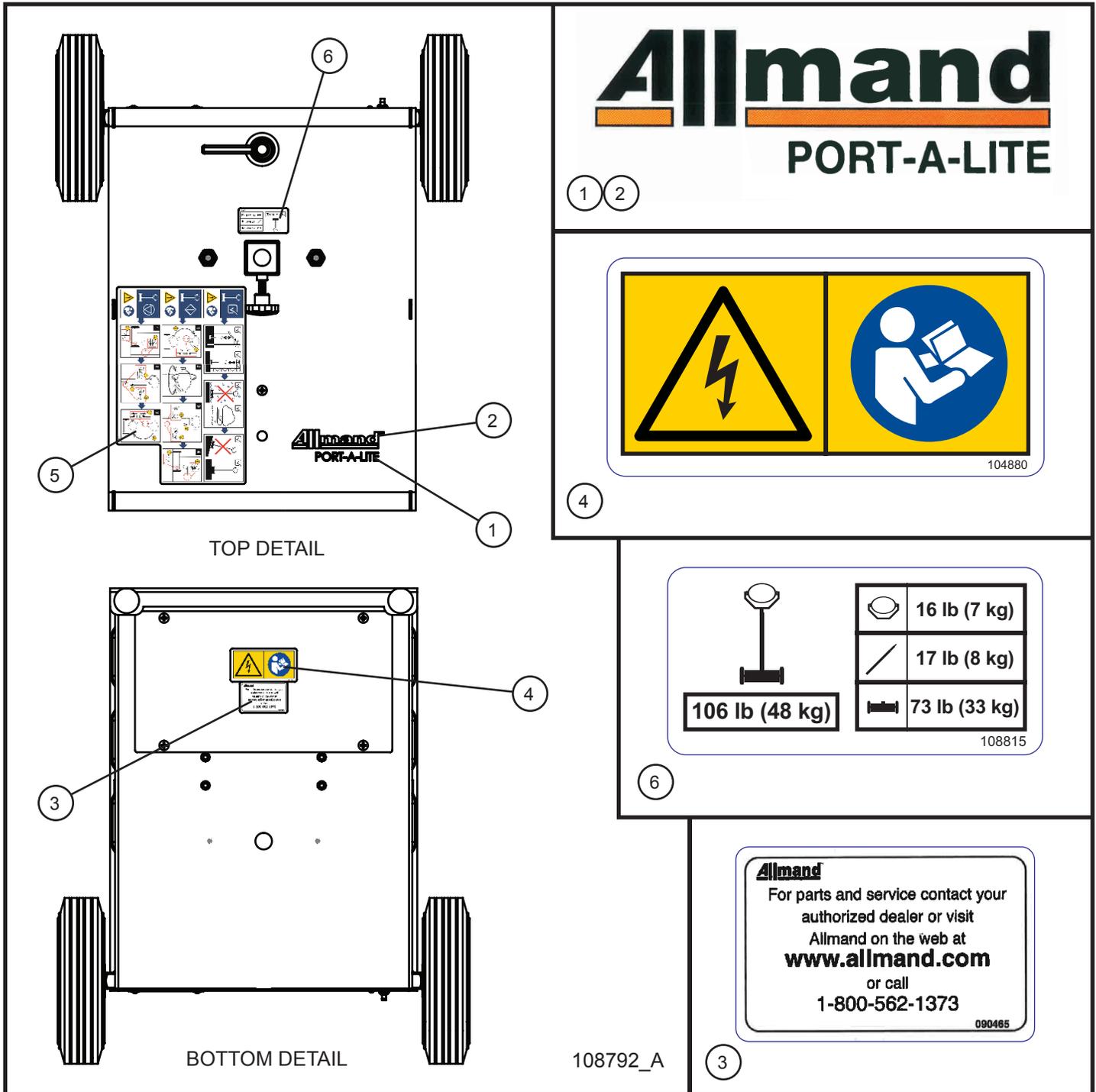
## 2.3 - Lampholder Assembly Group

SN 15-000001 and UP  
SN 03-000001 and UP

Item	Part No.	Part Description	Qty.
1	047016	3/8 FLAT WASHER SAE ZINC	2
2	044037	3/8-24 NYLOCK HEX NUT PL	2
3	041040	#10-24 x 1 1/2 PH-ROUND HEAD MS SS	2
4	610201	REFLECTOR	1
5	610202	LENS CHANNEL SET SHO LIGHTS	2
6	610203F	LENS GLASS FROSTED	1
7	610207	INTERIOR COVER PLATE WITHOUT HOLE	1
8	610208	INTERIOR COVER PLATE WITH HOLE	1
9	610213	GASKET SOCKET END CAP	2
10	610217	SILICONE GASKET	1
11	045142	3/8-24 x 3/8-16 x 2 STUD	2
12	041028	#10-24 x 1/2 HEX WASHER HEAD INDT	8
13	044019	#10-24 NYLOCK HEX NUT SS	2
14	610206	CASTING END SHO	1
15	047019	NYLON BUSHING 3/4 OD x .385 ID	4
16	660130P	YOKE MOUNT SHO LAMP	1
17	510007	1/2 CORD GRIP	1
18	610214	ELBOW 1/2 SLB SHO ENTRANCE	1
19	610215	1/2 NPT NIPPLE	1
20	610205	SOCKET CASTING END SHO	1
21	610212	CERAMIC SOCKET	1
22	041257	#10-32 x 3/8 SL-HEX WASHER HEAD MS GROUND	1
23	610219	GROUND WIRE LAMPHOLDER SHO ENTRANCE	1

## 3.1 - PAL 1000 Decal Group (1 of 2)

SN 15-000001 and UP



# PAL1000 & PAL1250

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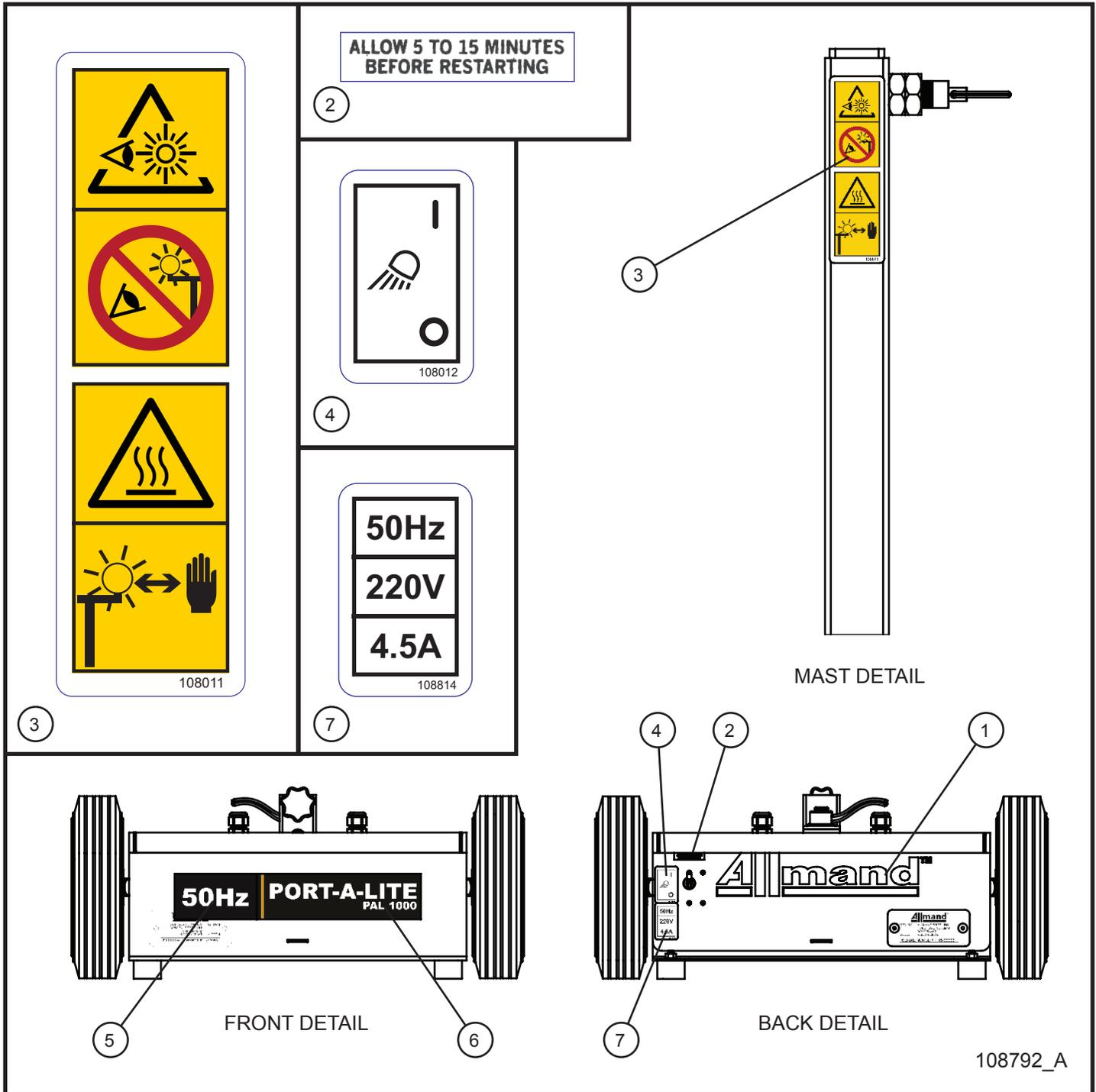
## 3.1 - PAL 1000 Decal Group (1 of 2)

SN 15-000001 and UP

Item	Part No.	Part Description	Qty.
1	090270	DECAL ALLMAND GOLD STANDARD 5 1/2	1
2	090331	PORT-A-LITE DECAL	1
3	090465	PARTS & SERVICE DECAL	1
4	104880	DECAL WORDLESS HIGH VOLTAGE	1
5	108809	DECAL OPERATION PAL 1000 & 1250	1
6	108815	DECAL WEIGHTS PAL 1000 & 1250	1

## 3.1 - PAL 1000 Decal Group (2 of 2)

SN 15-000001 and UP



# PAL1000 & PAL1250

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## 3.1 - PAL 1000 Decal Group (2 of 2)

SN 15-000001 and UP

Item	Part No.	Part Description	Qty.
1	090269	DECAL ALLMAND LOGO 11 3/4	1
2	090335	RESTART DECAL	1
3	108011	DECAL LAMP WARNING WORDLESS	2
4	108012	DECAL ON-OFF WORDLESS	1
5	108354	DECAL 50Hz	1
6	108823	DECAL PAL 1000	1
7	108814	DECAL 50Hz ELECTRICAL SPECIFICATIONS	1

## 3.2 - PAL 1250 Decal Group (1 of 2)

SN 03-000001 and UP

**TOP DETAIL**

**BOTTOM DETAIL**

**Allmand PORT-A-LITE**

**DANGER**

Entering electrical compartment while equipment is running will result in death or serious injury.

Always shut down equipment before entering electrical compartment.

107251

	16 lb (7 kg)
	17 lb (8 kg)
	73 lb (33 kg)

108815

106 lb (48 kg)

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090485

105912\_B

# PAL1000 & PAL1250

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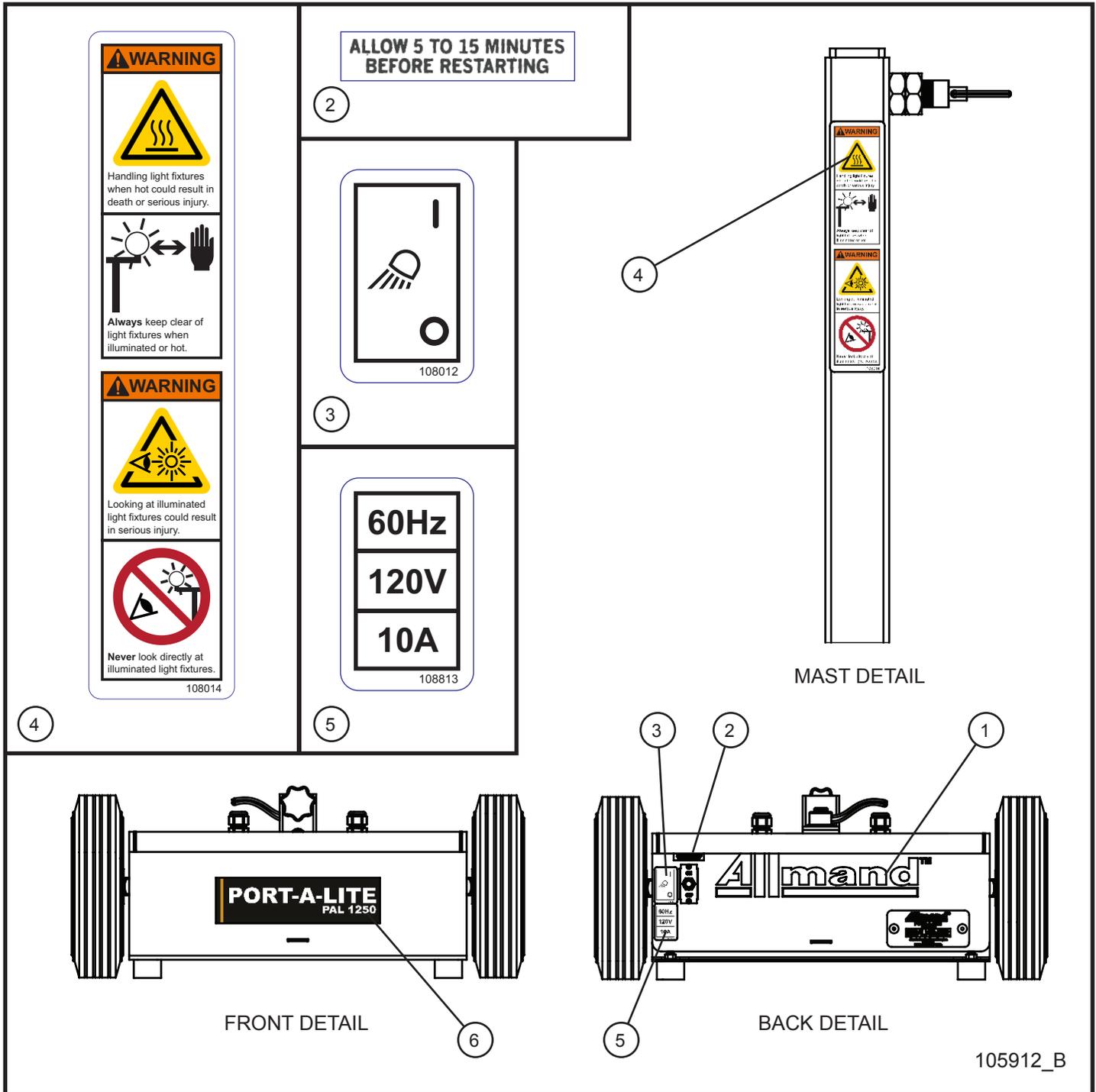
## 3.2 - PAL 1250 Decal Group (1 of 2)

SN 03-000001 and UP

Item	Part No.	Part Description	Qty.
1	090270	DECAL ALLMAND GOLD STANDARD 5 1/2	1
2	090331	PORT-A-LITE DECAL	1
3	090465	PARTS & SERVICE DECAL	1
4	107251	HAZARDOUS VOLTAGE DANGER ARTWORK	1
5	108809	DECAL OPERATION PAL 1000 & 1250	1
6	108815	DECAL WEIGHTS PAL 1000 & 1250	1

## 3.2 - PAL 1250 Decal Group (2 of 2)

SN 03-000001 and UP



# PAL1000 & PAL1250

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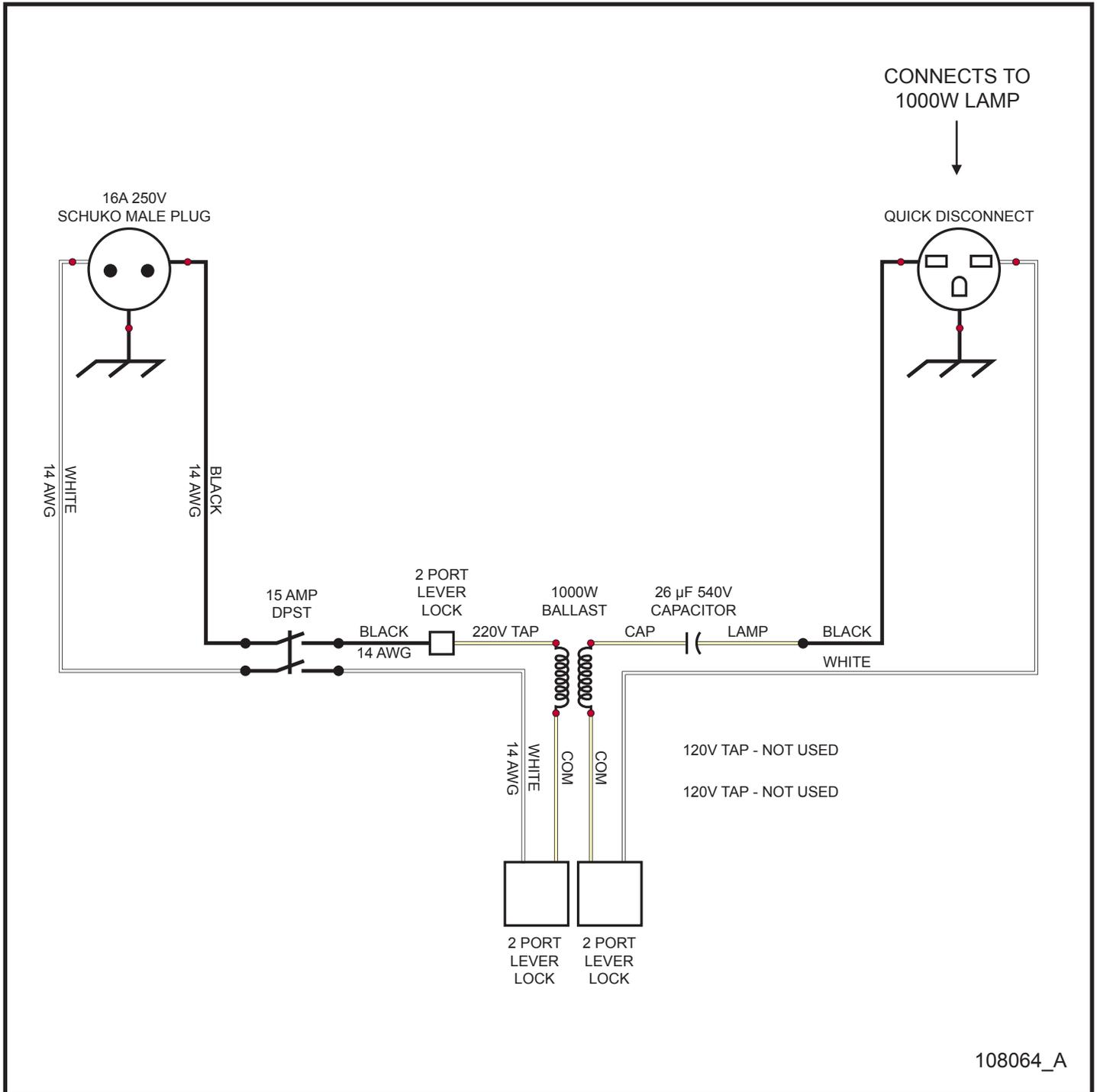
## 3.2 - PAL 1250 Decal Group (2 of 2)

SN 03-000001 and UP

Item	Part No.	Part Description	Qty.
1	090269	DECAL ALLMAND LOGO 11 3/4	1
2	090335	RESTART DECAL	1
3	108012	DECAL ON-OFF WORDLESS	1
4	108014	DECAL WARNING DO NOT LOOK	2
5	108813	DECAL 60Hz ELECTRICAL SPECIFICATIONS	1
6	108824	DECAL PAL 1250	1

## 4.1 - PAL 1000 50Hz Base Schematic

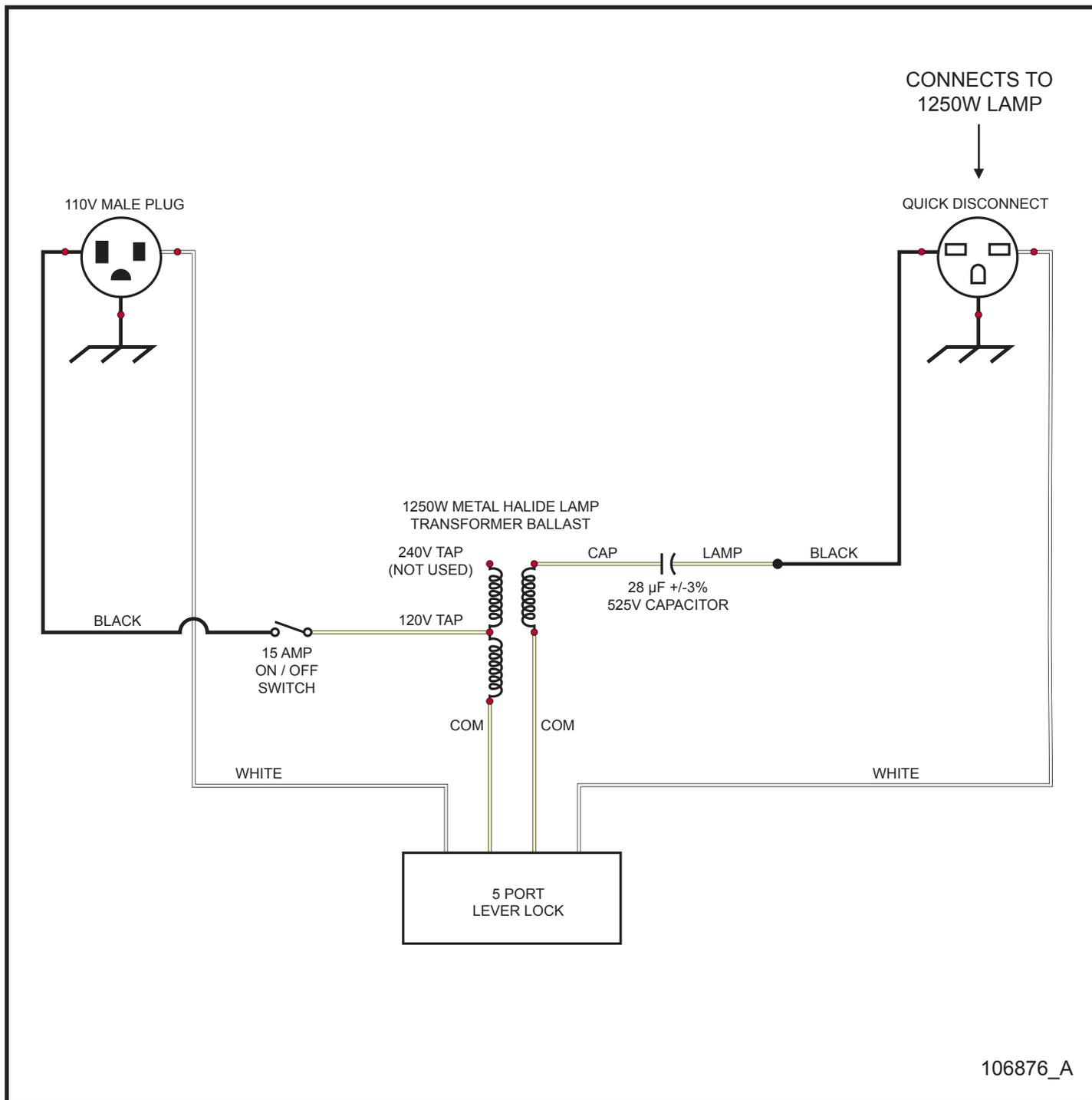
SN 15-000001 and UP



# PAL1000 & PAL1250

## 4.2 - PAL 1250 60Hz Base Schematic

SN 03-000001 and UP



# Allmand™

**BRIGHTER. WARMER. SAFER.**

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