PM-363A 2023–08

Processes

TIG (GTAW) Welding

Stick (SMAW) Welding

Description

Arc Welding Power Source

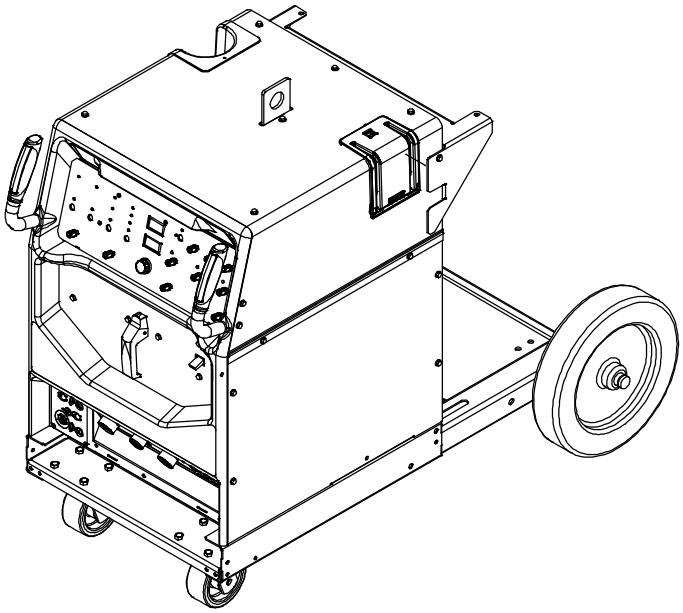
Syncrowave® 250 DX / 350 LX

Syncrowave® 250 DX / 350 LX w/Integrated Cooler

Eff w/LE282983 Thru LG529999L For 250 DX Models

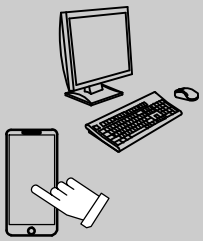
Eff w/LE223624 Thru LG529999L For 350 LX Models

For OM-363 (213 117) Revision A And Following



PARTS MANUAL

CE And Non-CE Models



For product information, Owner's Manual translations, and more, visit

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SECTION 1 – PARTS LIST EFF w/LE282983 THRU LG529999L FOR 250 DX MODELS AND EFF w/LE223624 THRU LG529999L FOR 350 LX MODELS

☞ *Hardware is common and not available unless listed.*

350 LX Model Illustrated

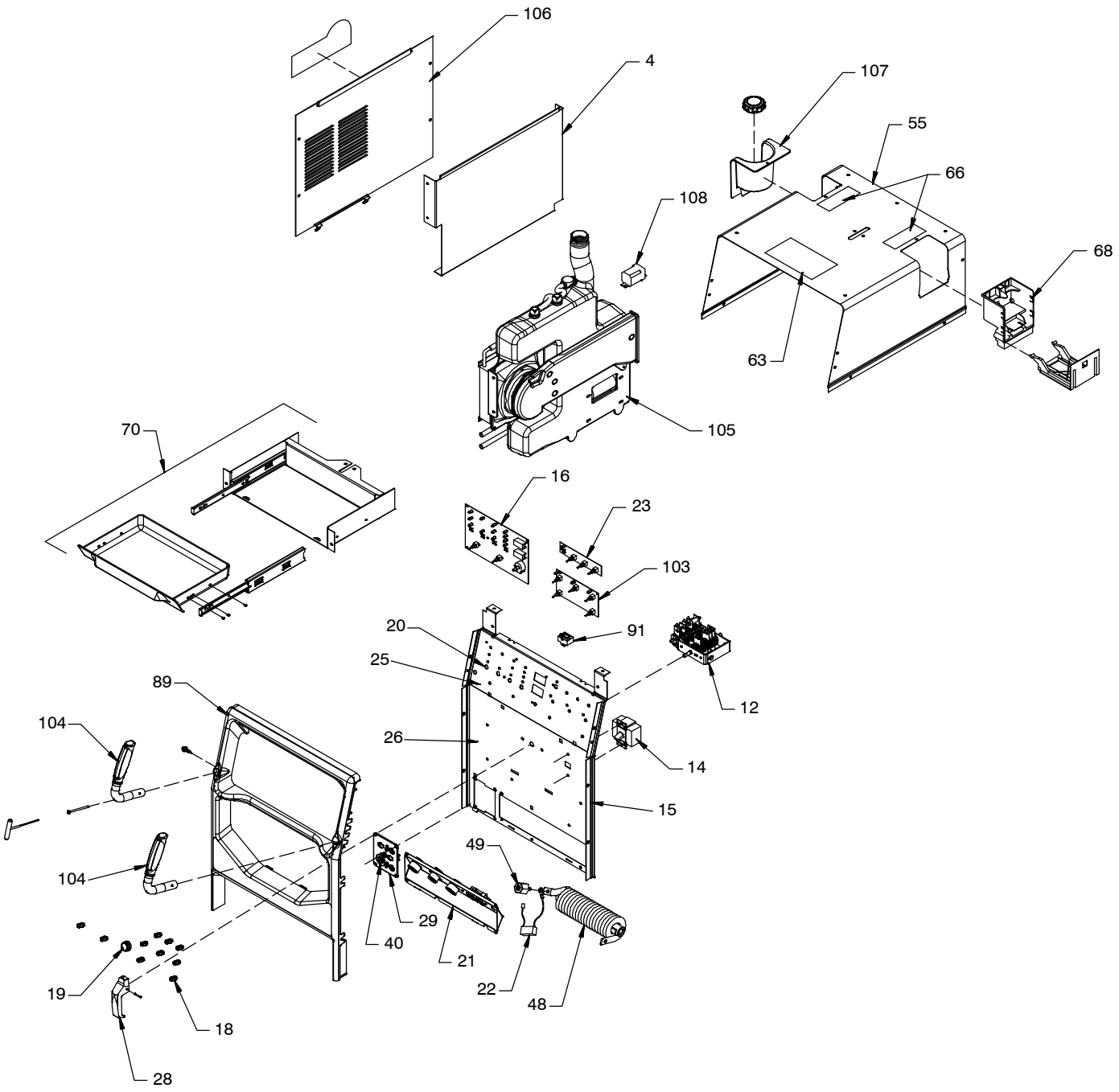
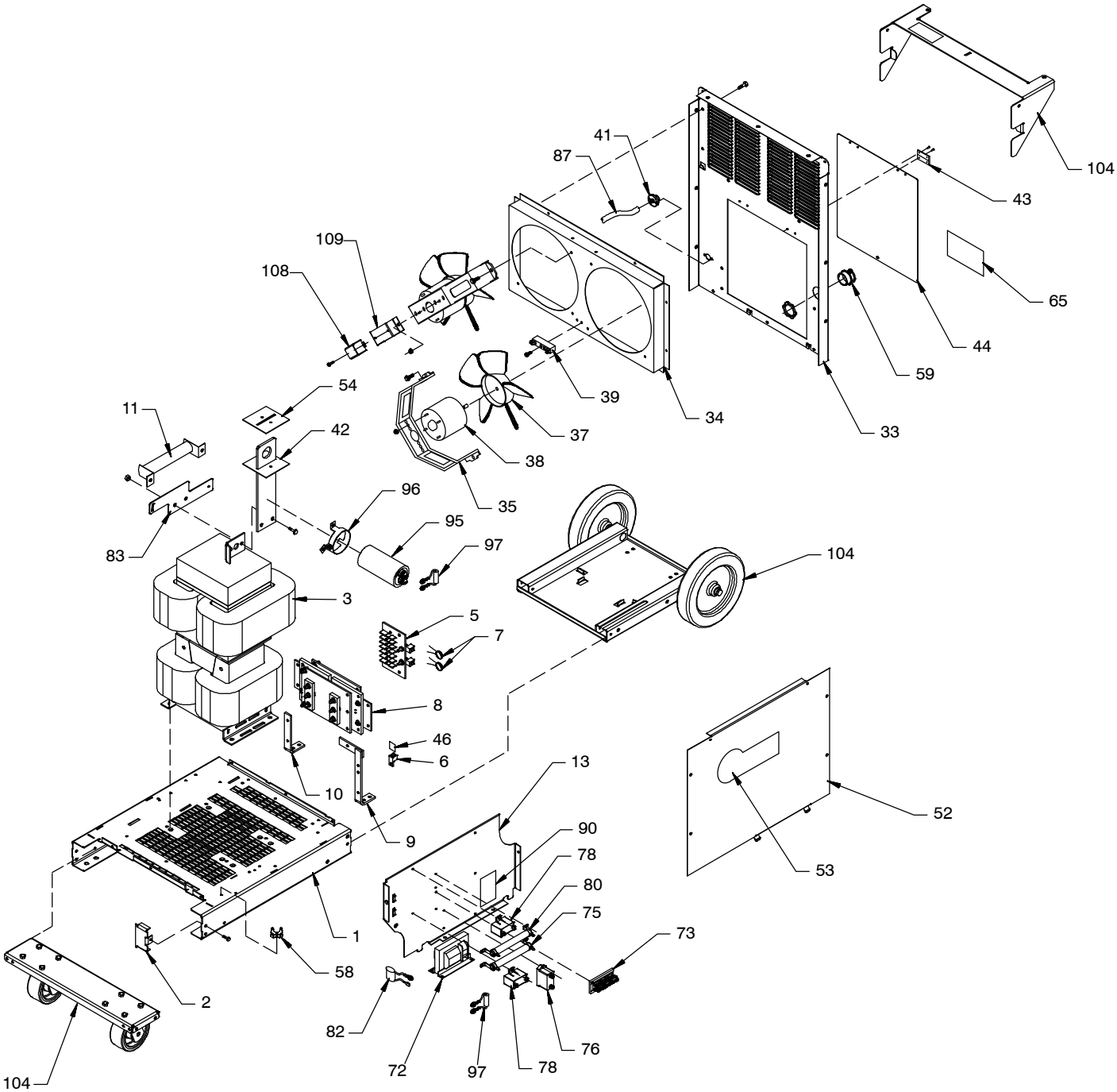


Figure 1-1. Main Assembly

Eff w/LE282983 Thru LG529999L For 250 DX Models
Eff w/LE223624 Thru LG529999L For 350 LX Models

350 LX Model Illustrated



803 804-F

Eff w/LE282983 Thru LG529999L For 250 DX Models
Eff w/LE223624 Thru LG529999L For 350 LX Models

Figure 1-1. Main Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Quantity Model 250 DX	Quantity Model 350 LX
1		211038	BASE,ASSY	1	1
2		215656	END CAP	4	4
3	T1/Z1	212555	XFMR/STABILIZER ASSY, 200/230/460	1	
3	T1/Z1	211041	XFMR/STABILIZER ASSY, 230/460/575	1	
3	T1/Z1	219652	XFMR/STABILIZER ASSY, 220/400/440/520	1	
3	T1/Z1	215767	XFMR/STABILIZER ASSY, 200/230/460		1
3	T1/Z1	215389	XFMR/STABILIZER ASSY, 230/460/575		1
3	T1/Z1	217801	XFMR/STABILIZER ASSY, 220/400/440/520		1
	TH1	201443	THERMISTOR, NTC 10K OHM @ 25 DEG C 27.5 IN LEAD	1	1
4		212550	PANEL, LEFT WINDTUNNEL (for non-TIGRUNNER models)	1	1
5	TE1	214127	TERM ASSY, PRI 1PH 3V	1	1
6		213248	LUG, UNIV W/SCREW 2/0−14 WIRE .266STD	1	1
7	C5, 6	111634	CAPACITOR ASSY,	1	1
8	SR1	212558	RECTIFIER, SCR MAIN (INCLUDES)	1	1
		218581	THYRISTOR, SCR 300A 300V HOCKEY PUCK	1	1
	TH2	217069	THERMISTOR, NTC 30K OHM @ 25 DEG C 40 IN LEAD (PRIOR TO LG220001I)	1	1
	TH2	218580	THERMISTOR, NTC 30K OHM @ 25 DEG C 40 IN LEAD (EFF W/LG220001I)	1	1
9		218670	BRACKET, RECTIFIER RH	1	1
10		212559	BRACKET, RECTIFIER LH	1	1
11	R3	218173	RESISTOR, WW FXD 400 W 35 OHM W/MTG BKT	1	1
12	S5	215390	SWITCH ASSY, POLARITY W/LEADS & HARDWARE (DX)	1	1
13		+213105	PANEL, RIGHT WINDTUNNEL	1	1
14	S1	215937	SWITCH, TGL ASSY	1	1
15		213114	FRONT PANEL ASSY,	1	1
		117860	BLANK, SNAP−IN NYL .187 MTG HOLE BLACK	1	1
		107983	BLANK, SNAP−IN NYL .500 MTG HOLE BLACK	1	1
		143397	BLANK, SNAP−IN NYL .312 MTG HOLE BLACK	8	8
16	PC1	209877	CIRCUIT CARD ASSY, CONTROL & INTERFACE W/PROGRAM	1	1
	PLG13,15	131054	HOUSING RCPT+SKTS,(SERVICE KIT)	2	2
	PLG14	115092	HOUSING PLG+SKTS,(SERVICE KIT)	1	1
	PLG4	115093	HOUSING PLG+SKTS,(SERVICE KIT)	1	1
	PLG17	203800	HOUSING PLG+SKTS,(SERVICE KIT)	1	1
	PLG16	115091	HOUSING PLG+SKTS,(SERVICE KIT)	1	1
	PLG10	130	HOUSING PLG+SKTS,(SERVICE KIT)	1	1
18		183332	KNOB, POINTER .570 DIA X .125 ID W/SPRING CLIP	2	5
19		174991	KNOB, POINTER 1.250 DIA X .250 ID W/SPRING CLIP−.21	1	1
20		195778	ACTUATOR PUSH BUTTON ASSY	1	1
21		Figure 1-2	PANEL,LOWER DINSE CONN ASSY	1	1
22	C14	209587	CAPACITOR ASSY,	1	1
23	PC2♦	♦195344	CIRCUIT CARD ASSY, PULSER (INCLUDES)	1	
23	PC2	195344	CIRCUIT CARD ASSY, PULSER (INCLUDES)		1
		215446	CIRCUIT CARD, PULSER	1	1
		183332	KNOB, POINTER .570 DIA X .125 ID W/SPRING CLIP	3	3
		195778	ACUATOR, PUSH BUTTON ASSY	1	1
		190512	STAND-OFF, NO. 6-32 X .640LG X .250 HEX AL FEM	1	1
25			NAMEPLATE, UPPER (ORDER BY MODEL AND SERIAL NUMBER)	1	
26			NAMEPLATE, LOWER (ORDER BY MODEL AND SERIAL NUMBER)	1	
28		175952	PLASTIC, HANDLE SWITCH	1	1
		169136	PIN, HANDLE	1	1
29		215685	PANEL, GAS	1	1
29		♦215691	PANEL, GASWATER	1	1

Figure 1-1. Main Assembly (continued)

Item No.	Dia. Mkgs.	Part No.	Description	Quantity Model 250 DX	Quantity Model 350 LX
33		212548	PANEL, REAR	1	1
34		184058	FAN, PLENUM	1	1
35		187807	BRACKET, MTG MOTOR FAN	2	2
37		150783	BLADE, FAN 9.000 5WG 39DEG .312 BORE CW PLSTC	2	2
38	FM1, 2	220393	MOTOR, FAN 230V 50/60HZ 1550 RPM .312 DIA SHAFT	2	2
39	1T	199312	BLOCK, TERMINAL FAST−ON,20 AMP,250 VOLT	1	1
40	GS1	215776	VALVE, 24VDC 2WAY CUSTOM PORT 1/8 ORF W/FRICT	1	1
41		208408	FTG, BRS BARBED FEM 1/4 TBG X .625−18 FLANGE MTG	1	1
		217111	PLUG, PROTECTIVE	2	2
42		204293	SUPPORT, LIFT EYE	1	
42		212552	SUPPORT, LIFT EYE		1
43		218280	HINGE, CONT POLYOLEFIN COPOLYMER 2.000 L W/.125H	1	1
44		+215657	DOOR, ACCESS (PRIOR TO LG220001L)	1	1
44		+229068	DOOR, ACCESS (EFF W/LG220001L)	1	1
46		217553	LABEL, GROUND/PROTECTIVE EARTH	1	1
48	T4	215771	COIL, HF COUPLING	1	1
49		207560	INSULATOR, STANDOFF WITH STUD	2	2
52		♣211043	PANEL, SIDE	2	2
53		199479	LABEL, MILLER	2	2
54		026627	GASKET, LIFTING EYE COVER	1	1
55		+211040	COVER, TOP	1	1
58		208294	CONNECTOR, FASTON MALE 4−PRONG	1	2
59		010467	CONN, CLAMP CABLE 1.250	1	1
63		203990	LABEL, WARNING GENERAL PRECAUTIONARY STATIC	1	1
65		218598	LABEL, WARNING ELECTRIC SHOCK AND INCORRECT INPUT P	1	1
66			**FOR MODELS WITHOUT TIGRUNNER OR COOLER OPTIONS**		
66		201019	LABEL, WARNING ELECTRIC SHOCK EXCESS WEIGHT (200/230/460 VOLT MODELS ONLY)	2	2
66		217137	LABEL, WARNING ELECTRIC SHOCK CAN KILL (ENG/FR) (230/460/575 VOLT MODELS ONLY)	2	2
66		206343	LABEL, WARNING ELECTRIC SHOCK EXCESS WEIGHT WORDLES (220/400/440/520 VOLT MODELS ONLY)	2	2
66			**FOR MODELS WITH TIGRUNNER OR COOLER OPTIONS, THERE ARE TWO SEPERATE LABELS FOR EACH VOLTAGE. CHECK BELOW TO ORDER CORRECT LABEL OR LABELS FOR CORRESPONDING VOLTAGES.**		
66		201019	LABEL, WARNING ELECTRIC SHOCK EXCESS WEIGHT (200/230/460) VOLT MODELS ONLY)	1	1
66		219178	LABEL, CAUTION INCORRECT COOLANT (200/230/460 VOLT MODELS ONLY)	1	1
66		217137	LABEL, WARNING ELECTRIC SHOCK CAN KILL (ENG/FR) (230/460/575 VOLT MODELS ONLY)	1	1
66		219177	LABEL, CAUTION INCORRECT COOLANT (ENG/FR) 230/460/575 VOLT MODELS ONLY)	1	1
66		206343	LABEL, WARNING ELECTRIC SHOCK EXCESS WEIGHT WORDLES (220/400/440/520 VOLT MODELS ONLY)	1	1
66		219176	LABEL, CAUTION INCORRECT COOLANT (CE) 220/400/440/520 VOLT MODELS ONLY)	1	1
68		♣204389	HOLDER, TORCH/CABLE	2	2
70		212557	DRAWER, ASSY (includes)	1	1
		213111	. . . DRAWER, PLASTIC	1	1
		213112	. . . DRAWER, FRAME	1	1
		217255	. . . SLIDE, DRAWER	2	2
72	T3	219927	XFMR, HIGH VOLTAGE 115V PRI 3600V SEC 34 MA W/TERM	1	1
73	G1	199854	KIT, SPARK GAP ASSY QUAD, (Prior to LF251061)	1	1
73	G1	221738	SPARK GAP ASSY, (includes) (Eff w/LF251061)	1	1
		221735	. . . BASE, SPARK GAP	1	1
		221734	. . . HOLDER, POINTS	3	3
		221736	. . . POINTS, SPARK GAP (DUAL)	1	1
		221737	. . . POINTS, SPARK GAP (SINGLE)	2	2

Eff w/LE282983 Thru LG529999L For 250 DX Models
Eff w/LE223624 Thru LG529999L For 350 LX Models

Figure 1-1. Main Assembly (continued)

Item No.	Dia. Mkgs.	Part No.	Description	Quantity Model 250 DX	Quantity Model 350 LX
		227581	SCREW, 250−20X .37 SOC HD−HEX NYLON 6/6	3	3
75	R8	188067	RESISTOR, WW FXD 100 W 200 OHM W/CLIPS	1	1
76	C3	215779	CAPACITOR, MICA .002 UF 10000 V PANEL MTG W/LEA	1	1
78	C11, 19	195552	CAPACITOR, POLYP MET FILM 20. UF 250 VAC 10%	2	2
80	R1	220808	RESISTOR, WW FXD 100 W 50 OHM W/CLIPS	1	1
82	C13	206878	CAPACITOR ASSY,	1	1
83		216081	BRACKET, RESISTOR	1	1
87		218170	HOSE, NPRN BRD NO 1 X .250 ID X 24.000	1	1
89		211039	BEZEL, FRONT	1	1
90		224459	LABEL, WARNING ELECTRICAL SHOCK ETC	1	1
91	HD1	191941	TRANSDUCER, CURRENT	1	1
95	C2	031668	CAPACITOR, ELCTLT 4000 UF 100 VDC	1	1
96		108105	CLAMP, CAPACITOR	1	1
97	R2, 4	118459	RESISTOR, WW FXD 10 W 1K OHM	2	2
103	PC3♦	♦195345	CIRCUIT CARD ASSY, SEQUENCER (INCLUDES)	1	1
		215441	CIRCUIT CARD ASSY, SEQUENCER	1	1
		183332	KNOB, POINTER .570 DIA X .125 ID W/SPRING CLIP	5	5
104	♦Figure 1-4		TIGRUNNER RUNNING GEAR	1	1
105	♦Figure 1-3		ASSY, COOLER	1	1
106		♦212556	PANEL, SIDE	1	1
107		♦211037	HOLDER, COOLANT FILLER	1	1
108	CR1	♦059266	RELAY, ENCL 120VAC DPDT 10A/120VAC 8PIN (PRIOR TO LE420474)	1	1
108	CR1, CR2	♦059266	RELAY, ENCL 120VAC DPDT 10A/120VAC 8PIN (EFF W/LE420474)	2	2
109		222451	BRACKET, RELAY (EFF W/LE420474)	1	1
		♦194744	RFCS−14HD (FOOT CONTROL)	1	1

+When ordering a component originally displaying a precautionary label, the label should also be ordered.

♦Part of TIGRUNNER option.

♦♦Field option only.

♣For TIGRUNNER models, the quantity is 1.

To maintain the factory original performance of your equipment, use only Manufacturer's Suggested Replacement Parts. Model and serial number required when ordering parts from your local distributor.

Eff w/LE282983 Thru LG529999L For 250 DX Models
Eff w/LE223624 Thru LG529999L For 350 LX Models

☞ *Hardware is common and not available unless listed.*

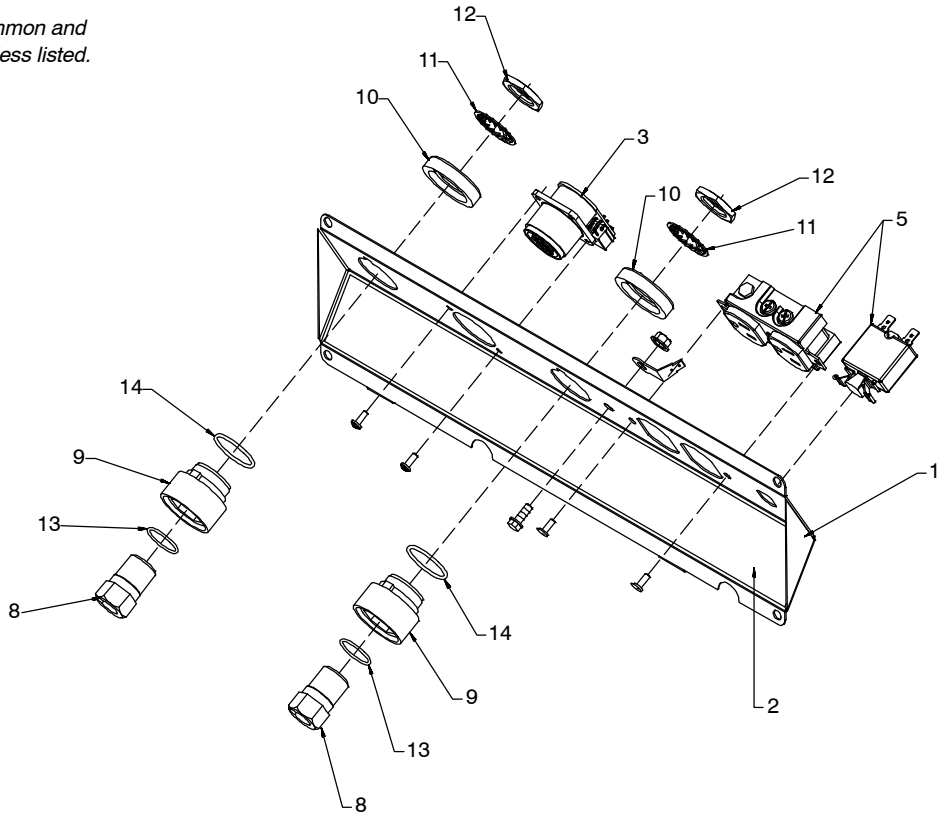


Figure 1-2. Panel, Lower Dinse Connector Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Quantity
		220 509	**Figure 1-2. Panel, Lower Dinse Connector Assy (Figure 1-1 Item 21)**	
1		213109	PANEL, LOWER DINSE CONN	1
2		218784	LABEL, COMPONENT IDENTIFICATION	1
3		224529	CONN, CIRC MS/CPC 14SKT SIZE 20 RCPT W/FILTERING	1
5		218174	RECEPTACLE, W/LEADS & CIRCUIT BREAKER	1
8		202553	RECEPTACLE, TWIST LOCK BRASS POWER (FEMALE)	2
9		185712	INSULATOR, BULKHEAD FRONT	2
10		185713	INSULATOR, BULKHEAD REAR	2
11		185714	WASHER, TOOTH 22MMID X 31.5MMOD 1.310−1MMT INTERN	2
12		185717	NUT, M20−1.5 1.00HEX .19H BRS LOCKING	2
13		186228	O−RING, 0.739 ID X 0.070 H	2
14		185718	O−RING, 0.989 ID X 0.070 H	2

To maintain the factory original performance of your equipment, use only Manufacturer's Suggested Replacement Parts. Model and serial number required when ordering parts from your local distributor.

Eff w/LE282983 Thru LG529999L For 250 DX Models
Eff w/LE223624 Thru LG529999L For 350 LX Models

☞ *Hardware is common and not available unless listed.*

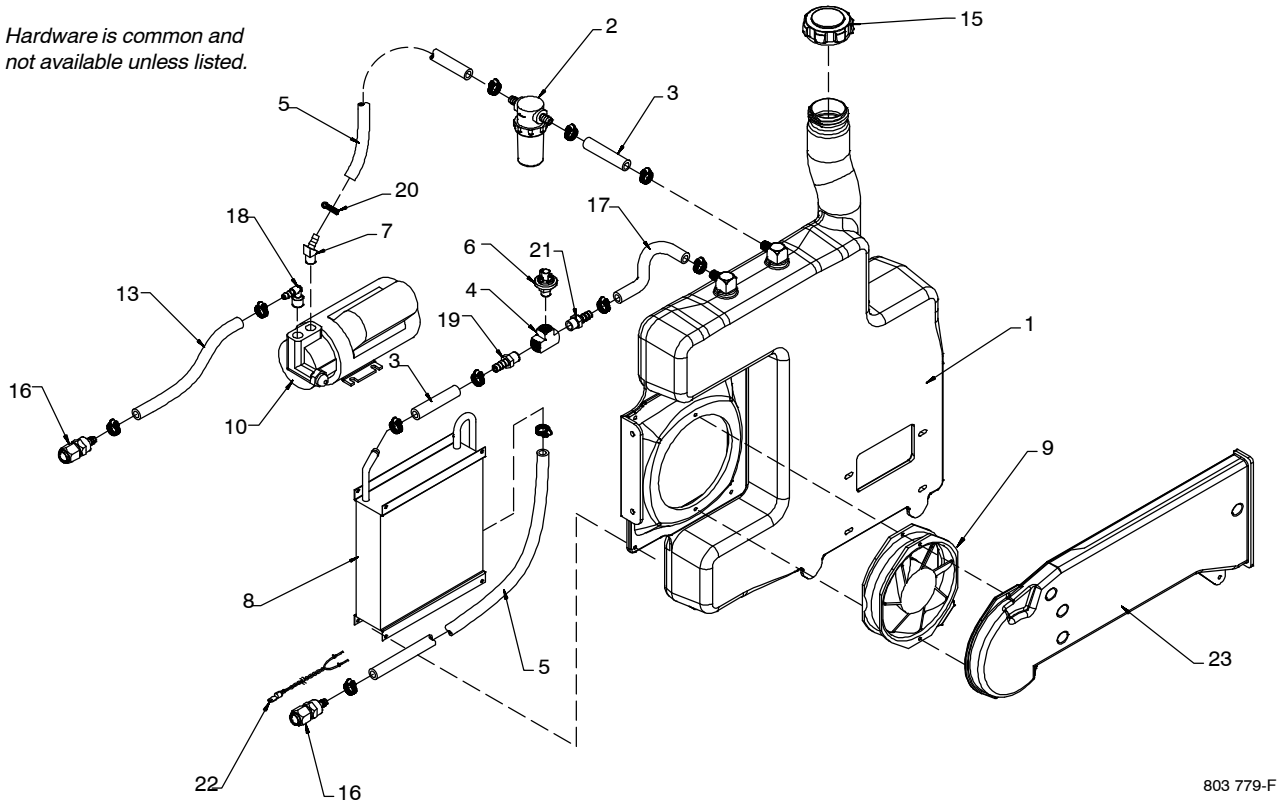


Figure 1-3. Optional Cooler Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Quantity
		229 675	**Figure 1-3. Cooler Assy (Optional) Figure 1-1 Item 105)**	
1		211036	TANK, COOLANT	1
2		215667	FILTER,	1
3		215669	HOSE, RUBBER BRAIDED 3/8 ID X 1/2 OD X 2 IN (PRIOR TO LE352937)	1
3		215669	HOSE, RUBBER BRAIDED 3/8 ID X 1/2 OD X 2 IN (EFF W/LE352937)	2
4		215688	FITTING, MANIFOLD	1
5		215675	HOSE, RUBBER BRAIDED 3/8 ID X 5/8 OD X 19 IN	2
6		215679	SWITCH, PRESSURE	1
7		221819	FTG, HOSE BRS BARBED 45 DEGREE ELBOW M3/8 X 3/8 NPT	1
8		217173	RADIATOR, HEAT EXCHANGER	1
9		211042	FAN, AC 230V BRUSHLESS	1
10		211045	PUMP, COOLANT	1
12		215682	HOSE, RUBBER BRAIDED 3/8 ID X 1/2 OD X 8 1/2 IN (PRIOR TO LE352936)	1
13		215683	HOSE, RUBBER BRAIDED 3/8 ID X 1/2 OD X 16 IN (PRIOR TO LE352937)	1
13		215683	HOSE, RUBBER BRAIDED 3/8 ID X 1/2 OD X 13.5 IN (EFF W/LE352937)	1
15		166608	CAP, TANK SCREW–ON W/VENT	1
16		220921	VALVE, CHECK BIDIRECTIONAL	2
17		215690	HOSE, RUBBER BRAIDED 3/8 ID X 1/2 OD X 4 1/2 IN (PRIOR TO LE352937)	1
17		215690	HOSE, RUBBER BRAIDED 3/8 ID X 1/2 OD X 3 1/2 IN (EFF W/LE352937)	1
18		5523	FTG, HOSE BRS BARBED ELBOW M 3/8 TBG X 3/8 NPT	1
19		126978	FTG, BRS BARBED M 3/8 TBG X 3/8 NPT	1
21		215673	FITTING,	1
22	TH3	217069	THERMISTOR,NTC 30K OHM @ 25 DEG C 40IN LEAD	1
23		227110	PLENUM,COOLER FAN	1

To maintain the factory original performance of your equipment, use only Manufacturer's Suggested Replacement Parts. Model and serial number required when ordering parts from your local distributor.

Eff w/LE282983 Thru LG529999L For 250 DX Models
Eff w/LE223624 Thru LG529999L For 350 LX Models

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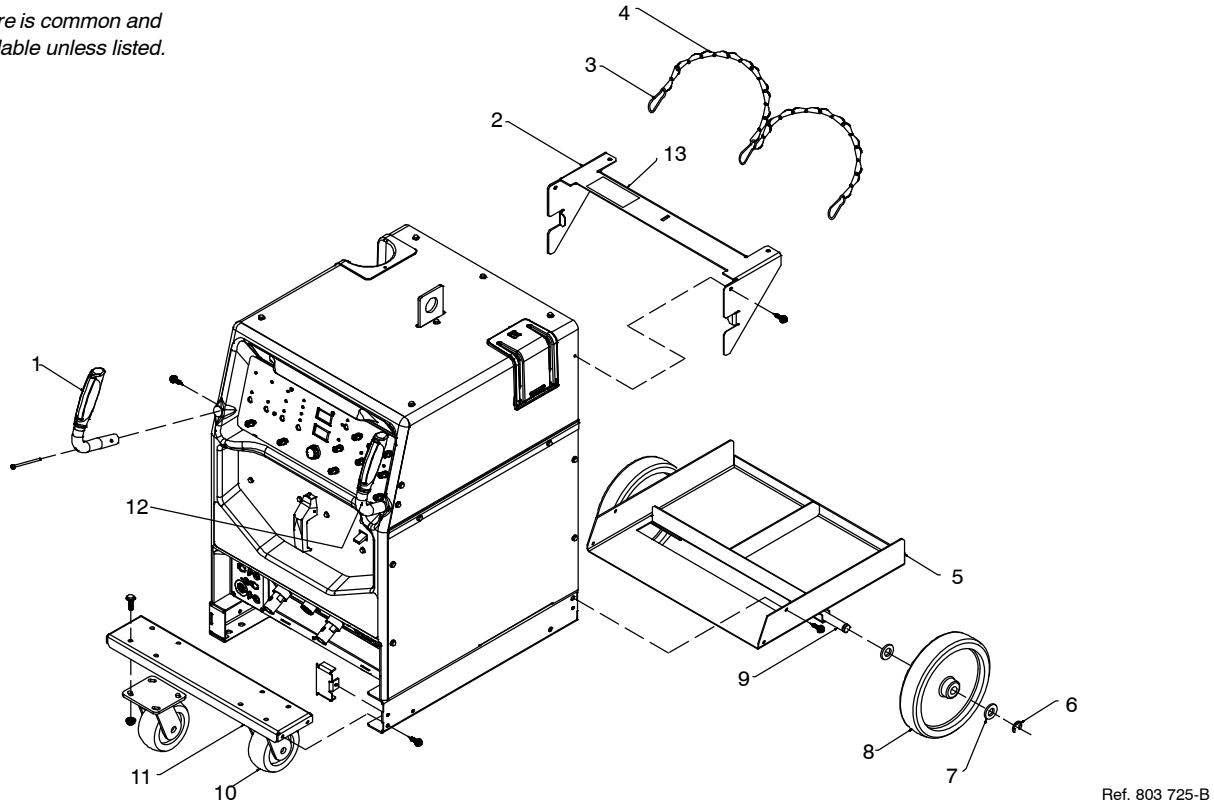


Figure 1-4. Optional Running Gear

Item No.	Dia. Mkgs.	Part No.	Description	Quantity
			Figure 1-4. Running Gear (Optional) (Figure 1-1 Item 104)	
1		218134	HANDLE, LH	1
2		+215928	BOTTLE SUPPORT	1
3		168663	HOOK SPRING SNAP	3
4		602387	CHAIN	2
5		191158	BOTTLE TRAY	1
6		121614	RETAINING RING	2
7		602250	WASHER, 812 ID X 1.469 OD X .134 T STL PLD ANSI. 750	4
8		163463	WHEEL (PRIOR TO LG260242L)	2
8		209869	WHEEL (EFF W/LG260242L)	2
9		191167	AXLE	1
10		168247	CASTER, SWIVEL	2
11		191163	CASTER MOUNTING BRACKET	1
12		218135	HANDLE, RH	1
13		217140	LABEL,WARNING CYL MAY EXPLODE IF DAMAGED (ENG/FR) (230/460/575 VOLT MODELS ONLY)	1
13		200285	LABEL,WARNING CYLINDER MAY EXPLODE IF DAMAGED (200/230/460 VOLT MODELS ONLY)	1

+When ordering a component originally displaying a precautionary label, the label should also be ordered.

To maintain the factory original performance of your equipment, use only Manufacturer's Suggested Replacement Parts. Model and serial number required when ordering parts from your local distributor.

Notes

PM-363A 2023–08

Processes

TIG (GTAW) Welding

Stick (SMAW) Welding

Description

CC AC/DC 1 Phase

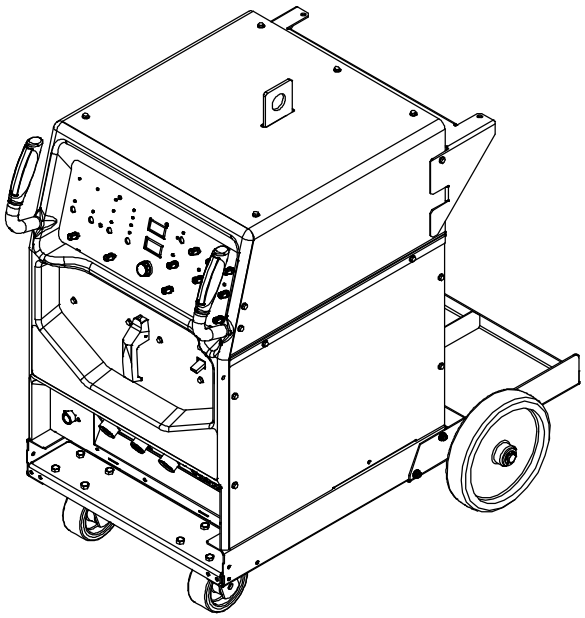
Arc Welding Power Source

Syncrowave® 250 DX / 350 LX

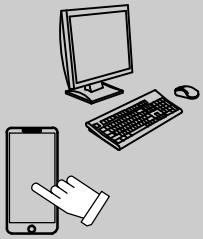
CE And Non-CE Models

Eff w/LH010000L And Following

For OM-363 (213 117) Revision R And Following,
And OM-245758 Revisions A, B, And C



PARTS MANUAL



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350 LX Model Illustrated

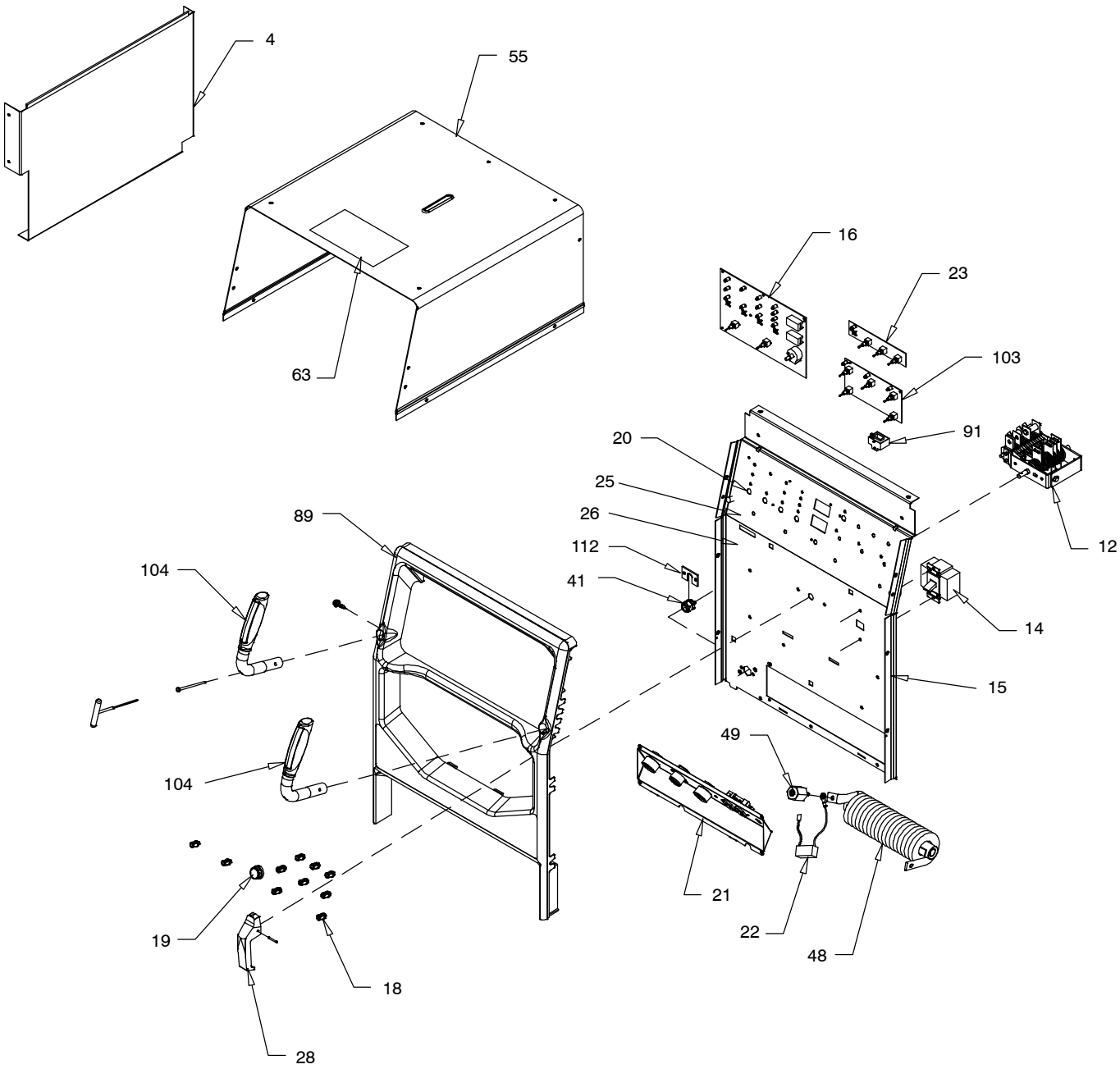
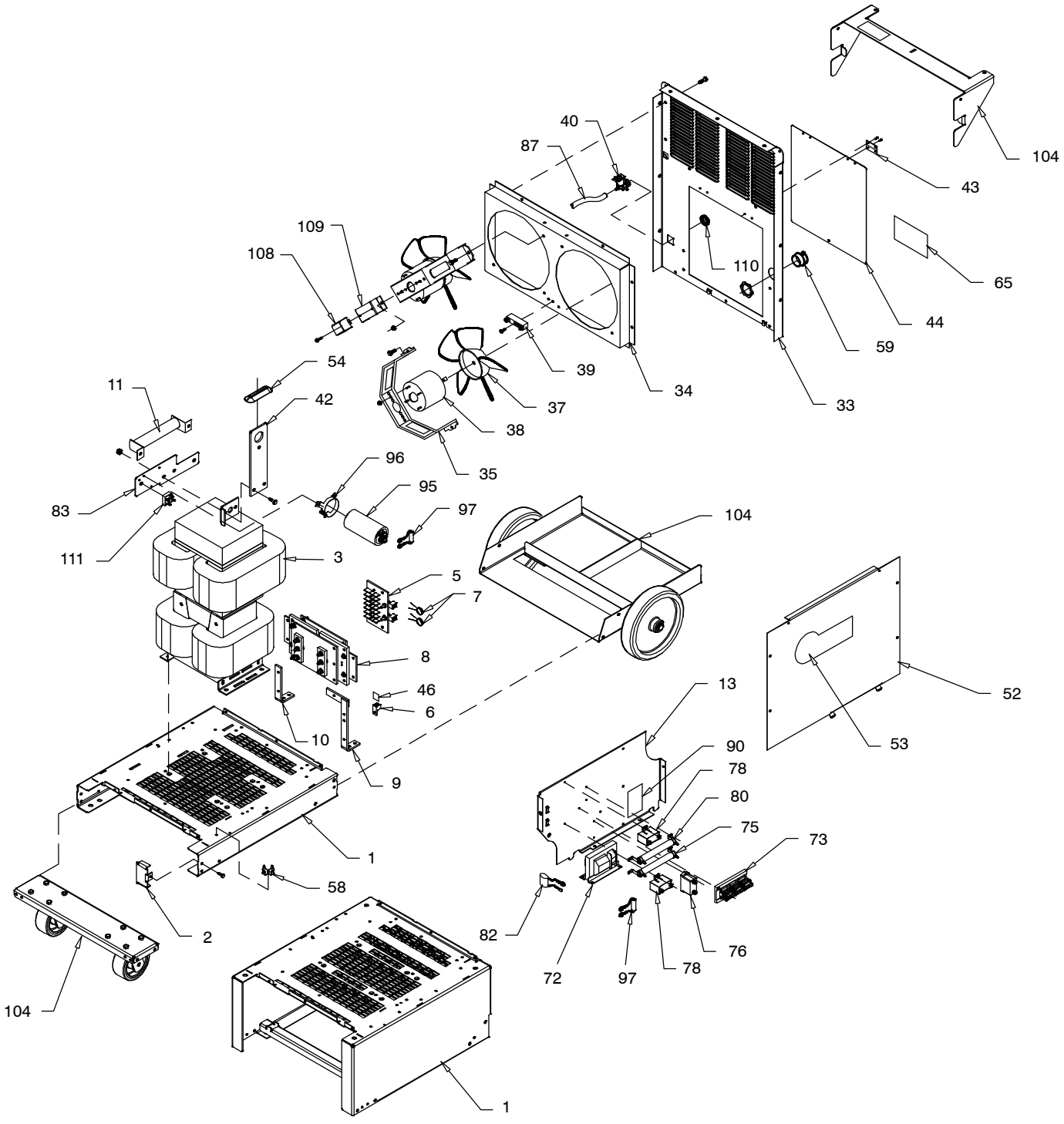


Figure 2-1. Main Assembly

Eff w/Serial No. LH010001 And Following

350 LX Model Illustrated



803 804-M

Eff w/Serial No. LH010001L And Following

Item No.	Dia. Mkgs.	Part No.	Description	Quantity Model 250 DX	Quantity Model 350 LX
			Figure 2-1. Main Assembly		
1		211 038	BASE, ASSY	1	1
1		233 120	BASE ASSY, FACTORY OPTION FOR USE W/ CS COOLER (EFF w/LH320115L)	1	1
2		215 656	END CAP,	4	4
3	T1/Z1	212 555	XFMR/STABILIZER ASSY, 200/230/460	1	
3	T1/Z1	211 041	XFMR/STABILIZER ASSY, 230/460/575	1	
3	T1/Z1	219 652	XFMR/STABILIZER ASSY, 220/400/440/520	1	
3	T1/Z1	215 767	XFMR/STABILIZER ASSY, 200/230/460		1
3	T1/Z1	215 389	XFMR/STABILIZER ASSY, 230/460/575		1
3	T1/Z1	217 801	XFMR/STABILIZER ASSY, 220/400/440/520		1
	TH1	201 443	THERMISTOR,NTC 10K OHM @ 25 DEG C 27.5IN LEAD	1	1
4		212 550	PANEL, LEFT WINDTUNNEL (for non-TIGRUNNER models)	1	1
5	TE1	224 127	TERM ASSY, PRI 1PH 3V	1	1
6		213 248	LUG, UNIV W/SCREW 2/0−14 WIRE .266STD	1	1
7	C5, 6	111 634	CAPACITOR ASSY,	1	1
8	SR1	212 558	RECTIFIER, SCR MAIN (INCLUDES)	1	1
		218 581	THYRISTOR, SCR 300A 300V HOCKEY PUCK	4	4
	TH2	218 580	THERMISTOR,NTC 30K OHM @ 25 DEG C 40IN LEAD	1	1
9		218 670	BRACKET, RECTIFIER RH	1	1
10		212 559	BRACKET, RECTIFIER LH	1	1
11	R3	218 173	RESISTOR, WW FXD 400 W 35 OHM W/MTG BKT (PRIOR TO LH210167L	1	1
11	R3	186 949	RESISTOR, WW FXD 175 W 20 OHM W/CLIPS (EFF W/LH210167L)	1	1
12	S5	207 236	SWITCH ASSY, POLARITY (DX)	1	1
13		+213 105	PANEL, RIGHT WINDTUNNEL	1	1
14	S1	246 694	SWITCH, TGL ASSY	1	1
15		231 281	FRONT PANEL ASSY (PRIOR TO MC390417L),	1	1
15		258 018	FRONT PANEL ASSY (EFF W/MC390417L),	1	1
		117 860	BLANK, SNAP−IN NYL .187 MTG HOLE BLACK	1	1
		107 983	BLANK, SNAP−IN NYL .500 MTG HOLE BLACK	1	1
		143 397	BLANK, SNAP−IN NYL .312 MTG HOLE BLACK	8	8
16	PC1	237 587	CIRCUIT CARD ASSY, CONTROL & INTERFACE W/PROGRAM (PRIOR TO LH210167L)	1	1
	PLG13,15	131054	HOUSING RCPT+SKTS,(SERVICE KIT)	2	2
	PLG14	115092	HOUSING PLG+SKTS,(SERVICE KIT)	1	1
	PLG4	115093	HOUSING PLG+SKTS,(SERVICE KIT)	1	1
	PLG17	203800	HOUSING PLG+SKTS,(SERVICE KIT)	1	1
	PLG16	115091	HOUSING PLG+SKTS,(SERVICE KIT)	1	1
	PLG10	130203	HOUSING PLG+SKTS,(SERVICE KIT)	1	1
16	PC1	231 300	CIRCUIT CARD ASSY, CONTROL & INTERFACE W/PROGRAM (EFF W/LH210167L)	1	1
16	PC1	237 547	CIRCUIT CARD ASSY, CONTROL & INTERFACE W/PROGRAM (CE MODELS) EFF W/ LJ480032L THRU MA460877L)	1	1
18		183 332	KNOB, POINTER .570 DIA X .125 ID W/SPRING CLIP	2	5
19		174 991	KNOB, POINTER 1.250 DIA X .250 ID W/SPRING CLIP−.21	1	1
20		195 778	ACTUATOR PUSH BUTTON ASSY (PRIOR TO MD010155L)	1	1
20		260 507	ACTUATOR PUSH BUTTON ASSY (EFF W/MD010155L	4	5
21		Figure 2-2	PANEL,LOWER DINSE CONN ASSY	1	1
22	C14	209 587	CAPACITOR ASSY,	1	1
23	PC2♦♦	300 548	KIT PULSER (INCLUDES),	1	
23	PC2	300 548	KIT PULSER (INCLUDES)		1
		237 545	CIRCUIT CARD, PULSER	1	1
		183 332	KNOB, POINTER .570 DIA X .125 ID W/SPRING CLIP	3	3
		195 778	ACTUATOR, PUSH BUTTON ASSY	1	1
		190 512	STAND-OFF, NO.6-32 X .640 LG .250 HEX AL FEM	1	1
25			NAMEPLATE, UPPER (ORDER BY MODEL AND SERIAL NUMBER)	1	1
26			NAMEPLATE, LOWER (ORDER BY MODEL AND SERIAL NUMBER)	1	1
28		175 952	PLASTIC, HANDLE SWITCH	1	1
		169 136	PIN, HANDLE	1	1

Item No.	Dia. Mkgs.	Part No.	Description	Quantity Model 250 DX	Quantity Model 350 LX
			Figure 2-1. Main Assembly (continued)		
33		231 283	PANEL, REAR	1	1
34		184 058	FAN, PLENUM	1	1
35		187 807	BRACKET, MTG MOTOR FAN	2	2
37		150 783	BLADE, FAN 9.000 5WG 39DEG .312 BORE CW PLSTC	2	2
38	FM1, 2	220 393	MOTOR, FAN 230V 50/60HZ 1550 RPM .312 DIA SHAFT	2	2
39	1T	199 312	BLOCK, TERMINAL FAST−ON,20 AMP,250 VOLT	1	1
			(Prior to LJ480032L)	1	1
40	GS1	238 805	VALVE, 24VDC 2WAY,125 PSI CUSTOM PORT.054 ORF W/FR W/FRICTION	1	1
41		208 408	FTG, BRS BARBED FEM 1/4 TBG X .625−18 (PRIOR TO LJ030001L)	1	1
41		231 279	FITTING, GAS CLIP MOUNT (EFF w/LJ030001L)	1	1
		217 111	PLUG, PROTECTIVE	2	2
42		204 293	SUPPORT, LIFT EYE (PRIOR TO LJ030001L)	1	
42		235 413	SUPPORT, LIFT EYE (EFF w/LJ030001L)	1	
42		212 552	SUPPORT, LIFT EYE (PRIOR TO LJ030001L)		1
42		235 412	SUPPORT, LIFT EYE (EFF w/LJ030001L)		1
43		218 280	HINGE, CONT POLYOLEFIN	1	1
44		+215 657	DOOR, ACCESS	1	1
44		+229 068	DOOR, ACCESS VENTED (FOR MODELS W/COOLERS ONLY)	1	1
46		217 553	LABEL,GROUND/PROTECTIVE EARTH	1	1
48	T4	215 771	COIL, HF COUPLING	1	1
49		207 560	INSULATOR, STANDOFF WITH STUD	2	2
52		211 043	PANEL, SIDE	2	2
53		199 479	LABEL, MILLER	2	2
54		026 627	GASKET ,LIFTING EYE COVER (PRIOR TO LJ030001L)	1	1
54		232 914	GASKET ,LIFTING EYE COVER (EFF w/LJ030001L)	1	1
55		+231 280	COVER, TOP (PRIOR TO LJ030001L)	1	1
55		+232 910	COVER, TOP (EFF w/LJ030001L Thru MC390416L)	1	1
55		+258 020	COVER, TOP (EFF w/MC390417L)	1	1
58		208 294	CONNECTOR, FASTON MALE 4−PRONG	1	2
59		010 467	CONN, CLAMP CABLE 1.250	1	1
63		203 990	LABEL, WARNING GENERAL PRECAUTIONARY STATIC (200/230/460 VOLT)	1	1
63		217 136	LABEL, WARNING ELECTRIC SHOCK (ENG/FR) (230/460/575 VOLT) (EFF w/LH320115L)	1	1
63		245 694	LABEL, GENERAL PRECAUTIONARY WORDLESS EMF (EFF w/LH320115L Thru MC340353L)	1	1
63		179 310	LABEL,GENERAL PRECAUTIONARY WORDLESS INTL SMALL (EFF w/ MC340354L)	1	1
65		218 598	LABEL, WARNING ELECTRIC SHOCK AND INCORRECT INPUT P (200/230/460 VOLT) (EFF w/LH320115L)	1	1
65		219 332	LABEL, WARNING ELECTRIC SHOCK AND INCORRECT ENG/FR (230/460/575 VOLT) (EFF w/LH320115L)	1	1
65		220 401	LABEL, WARNING ELECTRIC SHOCK INPUT CONNECTION CE W (220/400/440/520 VOLT) (EFF w/LH320115L)	1	1
66			**FOR MODELS WITHOUT TIGRUNNER OR COOLER OPTIONS**		
66		201 019	LABEL, WARNING ELECTRIC SHOCK EXCESS WEIGHT (200/230/460 VOLT MODELS ONLY) (PRIOR TO LH320115L)	2	2
66		217 137	LABEL, WARNING ELECTRIC SHOCK CAN KILL (ENG/FR) (230/460/575 VOLT MODELS ONLY) (PRIOR TO LH320115L)	2	2
66		206 343	LABEL, WARNING ELECTRIC SHOCK EXCESS WEIGHT WORDLES (220/400/440/520 VOLT MODELS ONLY((PRIOR TO LH320115L)	2	2
66			**FOR MODELS WITH TIGRUNNER OR COOLER OPTIONS, THERE ARE TWO SEPERATE LABELS FOR EACH VOLTAGE. CHECK BELOW TO ORDER CORRECT LABEL OR LABELS FOR CORRESPONDING VOLTAGES.**		
66		201 019	LABEL, WARNING ELECTRIC SHOCK EXCESS WEIGHT (200/230/460) VOLT MODELS ONLY) (PRIOR TO LH320115L)	1	1
66		219 178	LABEL, CAUTION INCORRECT COOLANT (200/230/460 VOLT MODELS ONLY) (PRIOR TO LH320115L)	1	1

Eff w/Serial No. LH010001L And Following

Figure 2-1. Main Assembly (continued)

Item No.	Dia. Mkgs.	Part No.	Description	Quantity Model 250 DX	Quantity Model 350 LX
66		217 137	LABEL, WARNING ELECTRIC SHOCK CAN KILL (ENG/FR) (230/460/575 VOLT MODELS ONLY) (PRIOR TO LH320115L)	1	1
66		219 177	LABEL, CAUTION INCORRECT COOLANT (ENG/FR) 230/460/575 VOLT MODELS ONLY) (PRIOR TO LH320115L)	1	1
66		206 343	LABEL, WARNING ELECTRIC SHOCK EXCESS WEIGHT WORDLES (220/400/440/520 VOLT MODELS ONLY) (PRIOR TO LH320115L)	1	1
66		219 176	LABEL, CAUTION INCORRECT COOLANT (CE) 220/400/440/520 VOLT MODELS ONLY) (PRIOR TO LH320115L)	1	1
70		212 557	DRAWER, ASSY (PRIOR TO LJ030001L) (INCLUDES)	1	1
		213 111	. DRAWER, PLASTIC	1	1
		213 112	. DRAWER, FRAME	1	1
		217 255	. SLIDE, DRAWER	2	2
70		232 912	DRAWER, ASSY (EFF w/LJ030001L Thru MC390417L) (INCLUDES)	1	1
		213 111	. DRAWER, PLASTIC	1	1
		232 911	. DRAWER, FRAME	1	1
		217 255	. SLIDE, DRAWER	2	2
72	T3	219 927	XFMR, HIGH VOLTAGE 115V PRI 3600V SEC 34 MA W/TERM	1	1
73	G1	231 258	SPARK GAP ASSY, (INCLUDES)	1	1
		231 259	. BASE, SPARK GAP	1	1
		231 260	. HOLDER, POINTS	3	3
		221 736	. POINTS, SPARK GAP (DUAL)	1	1
		221 737	. POINTS, SPARK GAP (SINGLE)	2	2
		231 261	. BUSHING	3	3
75	R8	188 067	RESISTOR, WW FXD 100 W 200 OHM W/CLIPS	1	1
76	C3	215 779	CAPACITOR, MICA .002 UF 10000 V PANEL MTG	1	1
78	C11, 19	195 552	CAPACITOR, POLYP MET FILM 20. UF 250 VAC 10%	2	2
80	R1	220 808	RESISTOR, WW FXD 100 W 50 OHM W/CLIPS (PRIOR TO MC340354L)	1	1
80	R1	256 460	RESISTOR, WW FXD 240 W 50 OHM W/MTG FEE (EFF W/MC340354L)	1	1
82	C13	206 878	CAPACITOR ASSY,	1	1
83		216 081	BRACKET, RESISTOR	1	1
87		218 170	HOSE, NPRN BRD NO 1 X .250 ID X 24.000	1	1
89		211 039	BEZEL, FRONT	1	1
90		224 460	LABEL, WARNING ELECTRICAL SHOCK SPARK GAP(ENG/FR) (200/230/460 VOLT AND 230/460/575 VOLT) (EFF w/LH320115L)	1	1
90		224 459	LABEL, WARNING HF GAPS/ELECT SHOCK/CE/WORDLESS (220/400/440/520 VOLT)	1	1
91	HD1	191 941	TRANSDUCER, CURRENT	1	1
95	C2	031 668	CAPACITOR, ELCTLT 4000 UF 100 VDC	1	1
96		108 105	CLAMP, CAPACITOR	1	1
97	R2, 4	118 459	RESISTOR, WW FXD 10 W 1K OHM	2	2
103	PC3♦♦	300 547	KIT SEQUENCER (INCLUDES)	1	1
		239 373	. CIRCUIT CARD, SEQUENCER	1	1
		183 332	. KNOB, POINTER .570 DIA X .125 ID W/SPRING CLIP	5	5
104	♦Figure 2-3		TIGRUNNER RUNNING GEAR	1	1
108	CR2	059 266	RELAY, ENCL 120VAC DPDT 10A/120VAC 8PIN	1	1
	♦	194 744	RFCS−14HD (FOOT CONTROL)	1	1
109		222 451	BRACKET, RELAY	1	1
110		137761	NUT, 750 NPT 1.31HEX .27H NYL BLK	1	1
111	SR2	035 704	RECTIFIER, INTEG BRIDGE 40. AMP 800V (EFF w/ LH210167L)	1	1
112		230 155	BRACKET, VALVE MOUNT (EFF w/LJ030001L)	1	1

+When ordering a component originally displaying a precautionary label, the label should also be ordered.

♦Part of TIGRUNNER option.

♦♦Field option only.

To maintain the factory original performance of your equipment, use only Manufacturer's Suggested Replacement Parts. Model and serial number required when ordering parts from your local distributor.

Eff w/Serial No. LH010001 And Following

☞ *Hardware is common and not available unless listed.*

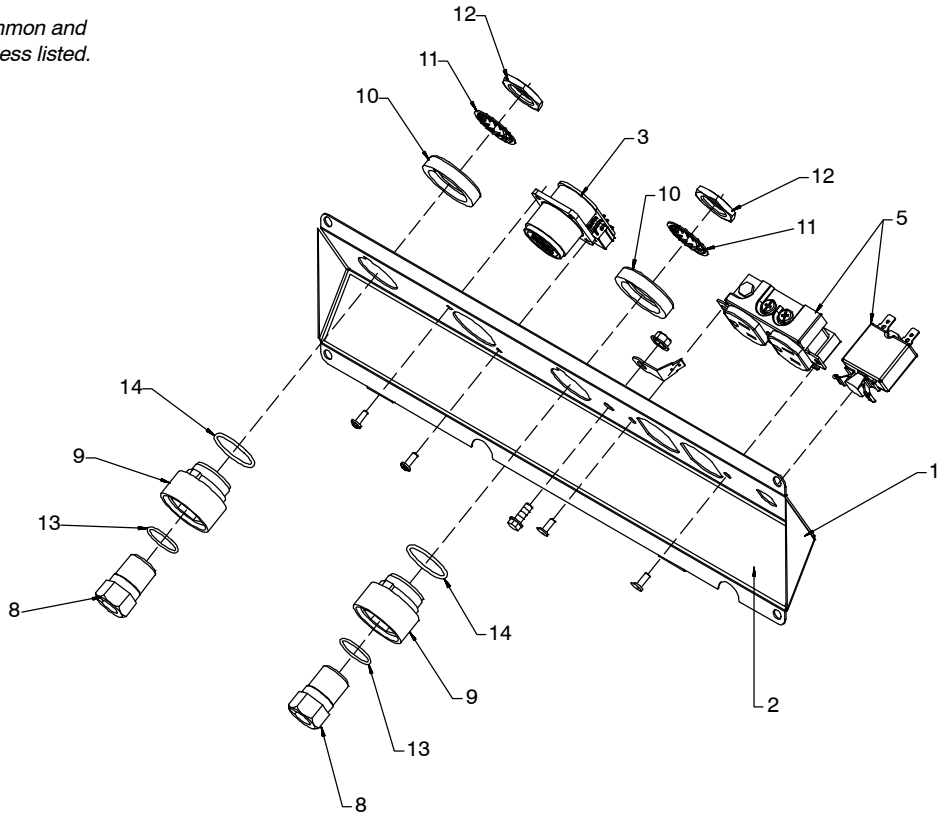


Figure 2-2. Panel, Lower Dinse Connector Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Quantity
		220 509	**Figure 2-2. Panel, Lower Dinse Connector Assy (Figure 2-1 Item 21)**	
1		213 109	PANEL, LOWER DINSE CONN	1
2		218 784	LABEL, COMPONENT IDENTIFICATION	1
3		224 529	CONN, CIRC MS/CPC 14SKT SIZE 20 RCPT W/FILTERING	1
5		218 174	RECEPTACLE, W/LEADS & CIRCUIT BREAKER	1
8		202 553	RECEPTACLE, TWIST LOCK BRASS POWER (FEMALE)	2
9		185 712	INSULATOR, BULKHEAD FRONT	2
10		185 713	INSULATOR, BULKHEAD REAR	2
11		229 338	WASHER, DOMED LOAD .812 ID X 1.450 OD X .070 THK	2
12		185 717	NUT, M20−1.5 1.00HEX .19H BRS LOCKING	2
13		186 228	O−RING, 0.739 ID X 0.070 H	2
14		185 718	O−RING, 0.989 ID X 0.070 H	2

To maintain the factory original performance of your equipment, use only Manufacturer's Suggested Replacement Parts. Model and serial number required when ordering parts from your local distributor.

Eff w/Serial No. LH010001L And Following

☞ *Hardware is common and not available unless listed.*

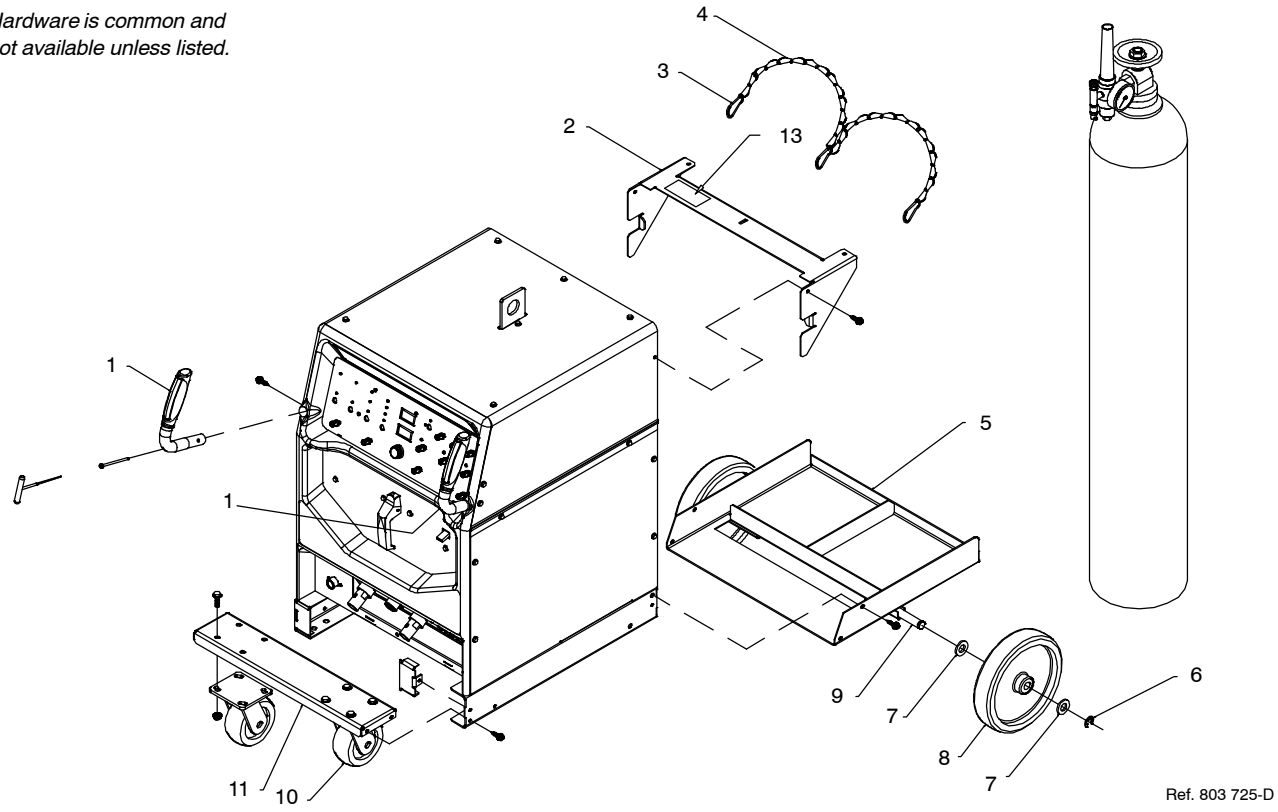


Figure 2-3. Optional Running Gear

Item No.	Dia. Mkgs.	Part No.	Description	Quantity
			Figure 2-3. Running Gear (Optional) (Figure 2-1 Item 104)	
1		242 337	HANDLE, UNIVERSAL	2
		220 182	SCREW, 010-24 X 3.00 SOC HD - HEX PLN (USED WITH HANDLE)	2
		108 942	SCREW, 250 - 20 X 1.25 HEXWHD .61 D GR5 PLD (USED W/HANDLE)	2
2		+215 928	BOTTLE SUPPORT	1
3		168 663	HOOK SPRING SNAP	3
4		602 387	CHAIN	2
5		191 158	BOTTLE TRAY	1
6		121 614	RETAINING RING	2
7		602 250	WASHER,FLAT .812IDX1.469ODX.134T STL PLD ANSI.750	4
8		209 869	WHEEL	2
9		191 167	AXLE	1
10		168 247	CASTER, SWIVEL	2
11		191 163	CASTER MOUNTING BRACKET	1
13		217 140	LABEL,WARNING CYL MAY EXPLODE IF DAMAGED (ENG/FR)	1

+When ordering a component originally displaying a precautionary label, the label should also be ordered.

To maintain the factory original performance of your equipment, use only Manufacturer's Suggested Replacement Parts. Model and serial number required when ordering parts from your local distributor.

Eff w/Serial No. LH010001 And Following

☞ *Hardware is common and not available unless listed.*

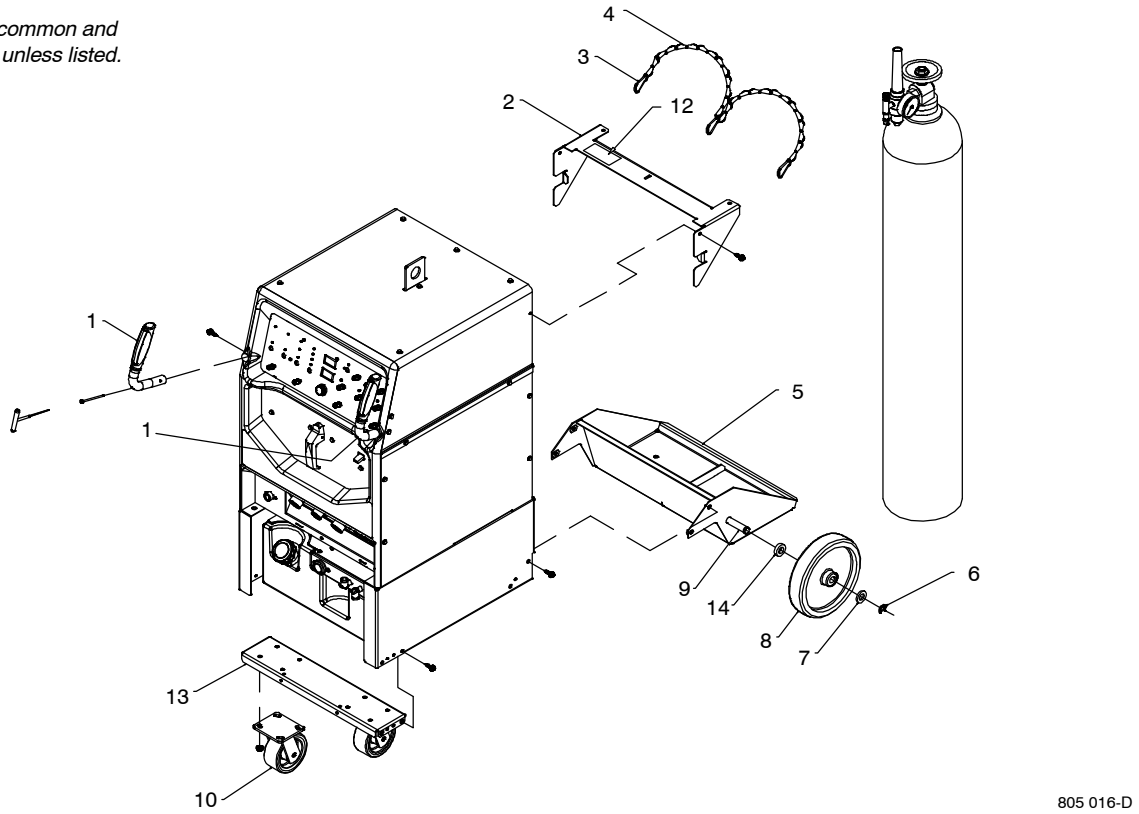


Figure 2-4. Factory Optional Running Gear For CS Cooler (EFF w/LH320115L)

Item No.	Dia. Mkgs.	Part No.	Description	Quantity
1		242 337	HANDLE, Universal	2
		220 182	SCREW, 010-24 X 3.00 SOC HD - HEX PLN (USED WITH HANDLE)	2
		108 942	SCREW, 250 - 20 X 1.25 HEXWHD .61 D GR5 PLD (USED W/HANDLE)	2
2		+215 928	BOTTLE SUPPORT	1
3		168 663	HOOK SPRING SNAP	3
4		602 387	CHAIN	2
5		231 342	BOTTLE TRAY (PRIOR TO LJ030001L)	1
5		231 344	BOTTLE TRAY (EFFw/LJ030001L)	1
6		121 614	RETAINING RING	2
7		602 250	WASHER,FLAT .812IDX1.469ODX.134T STL PLD ANSI.750 (PRIOR TO LJ290331L)	8
7		602 250	WASHER,FLAT .812IDX1.469ODX.134T STL PLD ANSI.750 (EFF W/LJ290331L)	2
8		209 869	WHEEL	2
9		232 902	AXLE (PRIOR TO LJ030001L)	1
10		168 247	CASTER, SWIVEL	2
12		217 140	LABEL,WARNING CYL MAY EXPLODE IF DAMAGED (ENG/FR)	1
13		233 121	BEAM, CASTER (EFF w/LH320115L)	1
14		235 506	SPACER (EFF w/LJ290331L)	2

+When ordering a component originally displaying a precautionary label, the label should also be ordered.

To maintain the factory original performance of your equipment, use only Manufacturer's Suggested Replacement Parts. Model and serial number required when ordering parts from your local distributor.

Notes

SECTION 3 – PARTS LIST FOR OPTIONAL COOLER

☞ *Hardware is common and not available unless listed.*

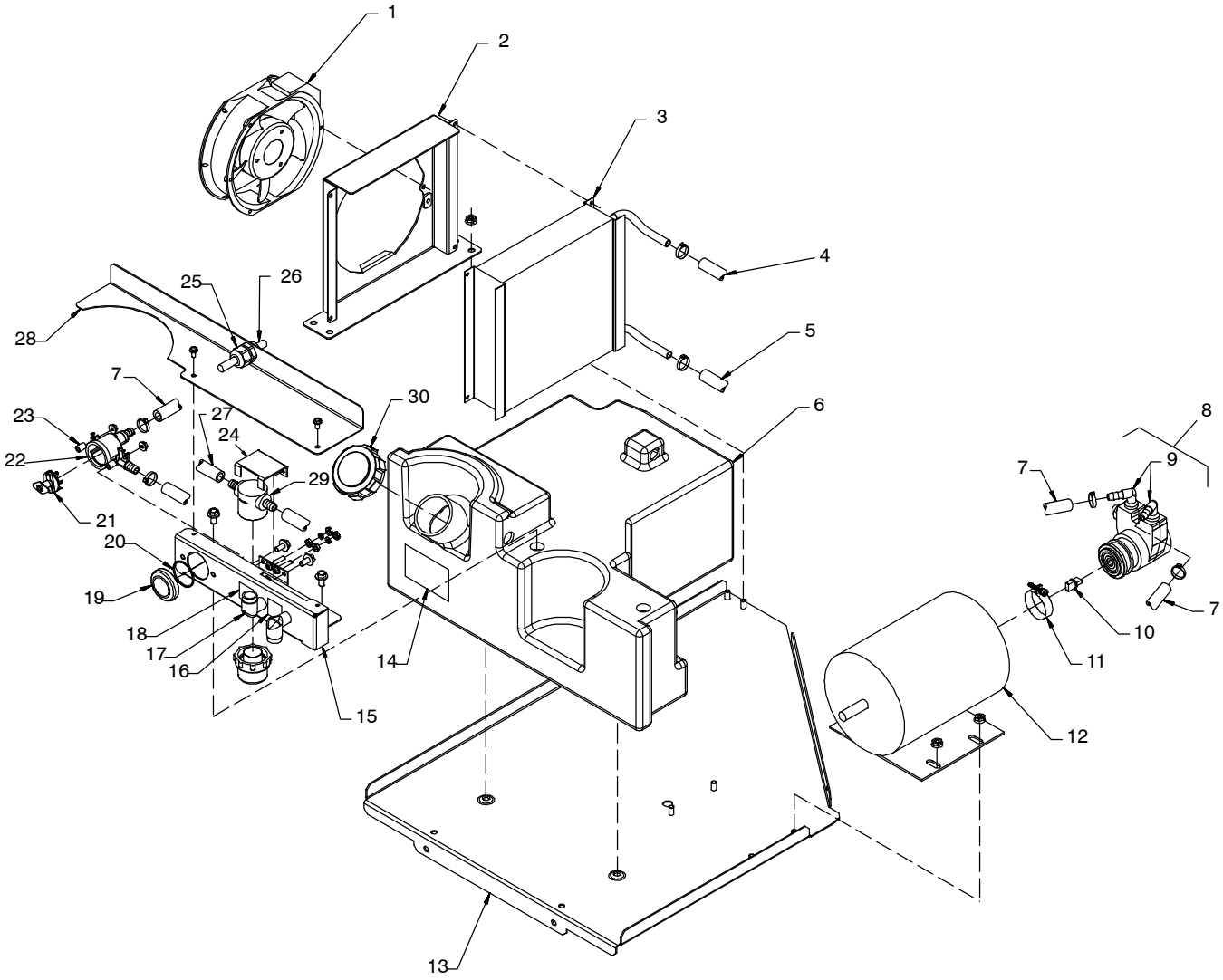


Figure 3-1. Main Assembly

Item No.	Dia. Mkgs.	Part No.	Description	Quantity

Figure 3-1. Main Assembly Eff w/LH240103L

. . . 1		213072	. . Fan, Muffin 115 V 60 Hz 3400 RPM 6.378 Mtg Holes	1
. . . 2		231341	. . Plenum, Air	1
. . . 3		232424	. . Radiator, Heat Exchanger	1
. . . 4		232842	. . Hose, Rubber Braided .375 ID X .650 OD X 28.000	2
. . . 5		232609	. . Hose, Rubber Braided .375 ID X .650 OD X 31.000	2
. . . 6		200109	. . Tank, Coolant	1
. . . 7		231400	. . Hose, Rubber Braided .375 ID X .650 OD X 17.000	3
. . . 8		174042	. . Pump, Coolant (Includes) (Prior to LH240103L)	1
. . . 9		5523	. . . FTG, Hose Brs Barbed Elbow M 3/8 TBG X 3/8 NPT	2
. . . 10		134795	. . . Coupler, Drive Pump	1
. . . 8		263703	. . Pump, Coolant (Includes) (Eff w/LH240103L)	1
. . . 9		5523	. . . FTG, Hose Brs Barbed Elbow M 3/8 TBG X 3/8 NPT	2
. . . 10		134795	. . . Coupler, Drive Pump	1
. . . 11		023562	. . Clamp, Hose .312 – .875 Clp Dia	1
. . . 12		173263	. . Motor, 1/4 Hp 115 VAC 50/60 Hz 1425/1725 RPM Dual	1
. . . 13		231337	. . Base,	1
. . . 14		232413	. . Label, Rating Card CSA C US (Less Stock/Serial No)	1
. . . 15		231340	. . Panel, Front Component	1
. . . 16		204604	. . Label, Coolant In	1
. . . 17		149356	. . Ftg, Hose Brs Barbed Elbow M Bhd 3/8 Tbg X .500–20	2
. . . 18		204603	. . Label, Coolant Out	1
. . . . .		226934	. . Indicator, Flow (Includes)	1
. . . 19		186005	. . . Lense, Flow Indicator	1
. . . 20		166566	. . . O–Ring, 1.301 ID X .070 CS 70 Duro Buna–n	1
. . . 21		226 936	. . . Paddle, Rotor Assy	1
. . . 22		226935	. . . Housing, Flow Indicator	1
. . . 23		143797	. . Spacer, Nylon .312 OD X .194 ID X .437 Lg (PRIOR TO LJ030001L)	2
. . . 23		233 159	. . Spacer, Nylon .312 OD X .194 ID X .500 Lg (EFFw/LJ030001L)	2
. . . 24		178461	. . Bracket, Filter	1
. . . 25		139042	. . Bushing, Strain Relief .270/.470 ID X .804 mtg Hole	1
. . . 26		188082	. . Cable, Power 2 Ft 7 In 16 ga 3c	1
. . . 27		232621	. . Tube, Pick–Up Coolant	1
. . . 28		231339	. . Panel, Front Filler	1
. . . 29		166564	. . Filter, In–line Low Profile 100 Screen 3/8 Hose Bar	1
. . . . .		225113	. . Harness, 3CS Cooler (Not Shown)	1
. . . . .		141727	. . Tubing, Gl Acryl .750– .786 ID 4.000 Yel Fa1 (Not Shown)	2
. . . 30		166608	. . Cap, Tank Screw–On W/Vent	1

To maintain the factory original performance of your equipment, use only Manufacturer's Suggested Replacement Parts. Model and serial number required when ordering parts from your local distributor.

Notes

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