

Parts Catalog



SP30

MIXERS

MODELS: SP30, SP30P & SPC30

11-05-14

IMPORTANT!

TO EXPEDITE SHIPMENT OF PARTS, ALWAYS SPECIFY MODEL, REV,
PART NUMBER, AND SERIAL NUMBER OF MIXER.

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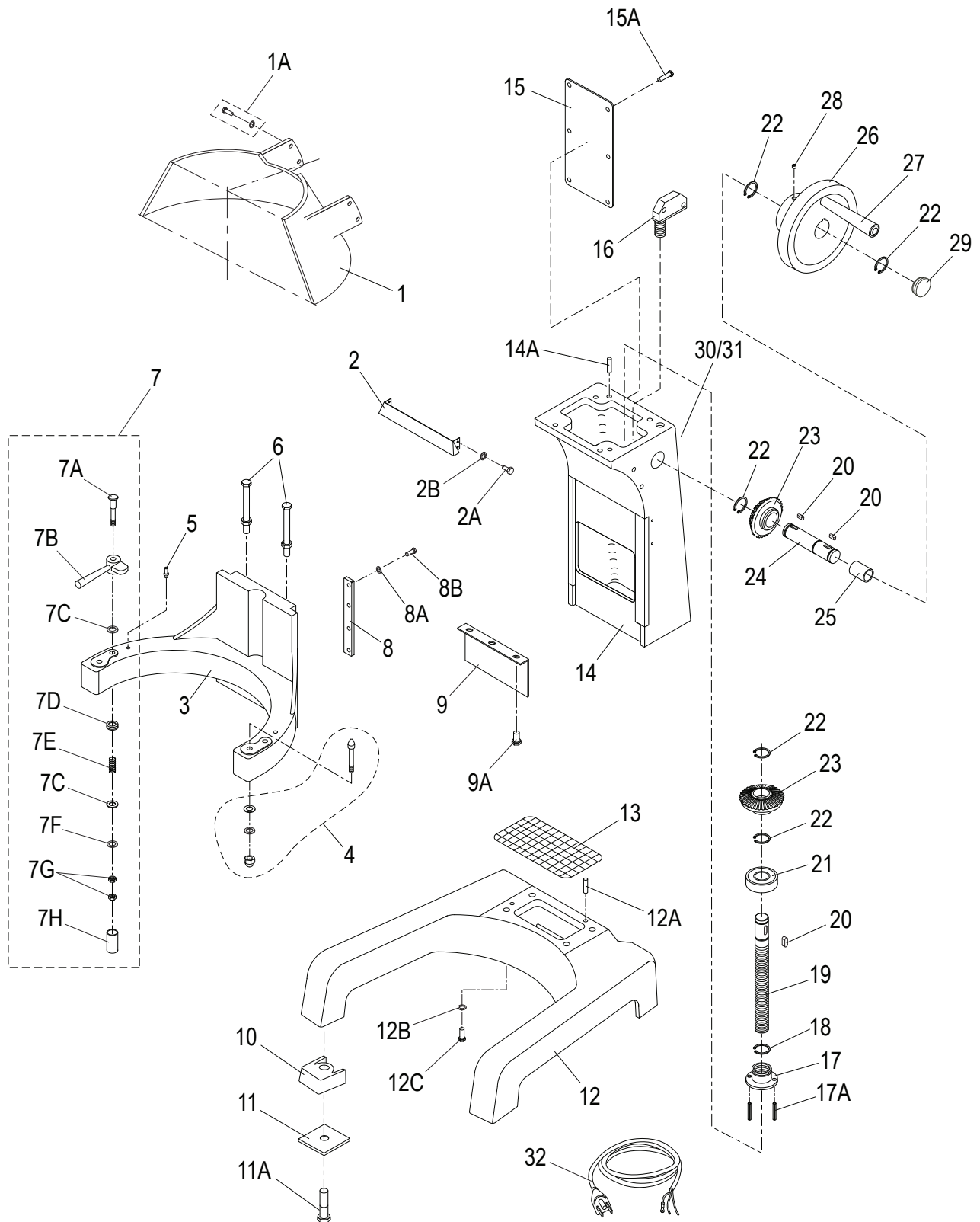
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Not for resale

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SP30/SPC30 BASE, CRANK STYLE COMPONENTS

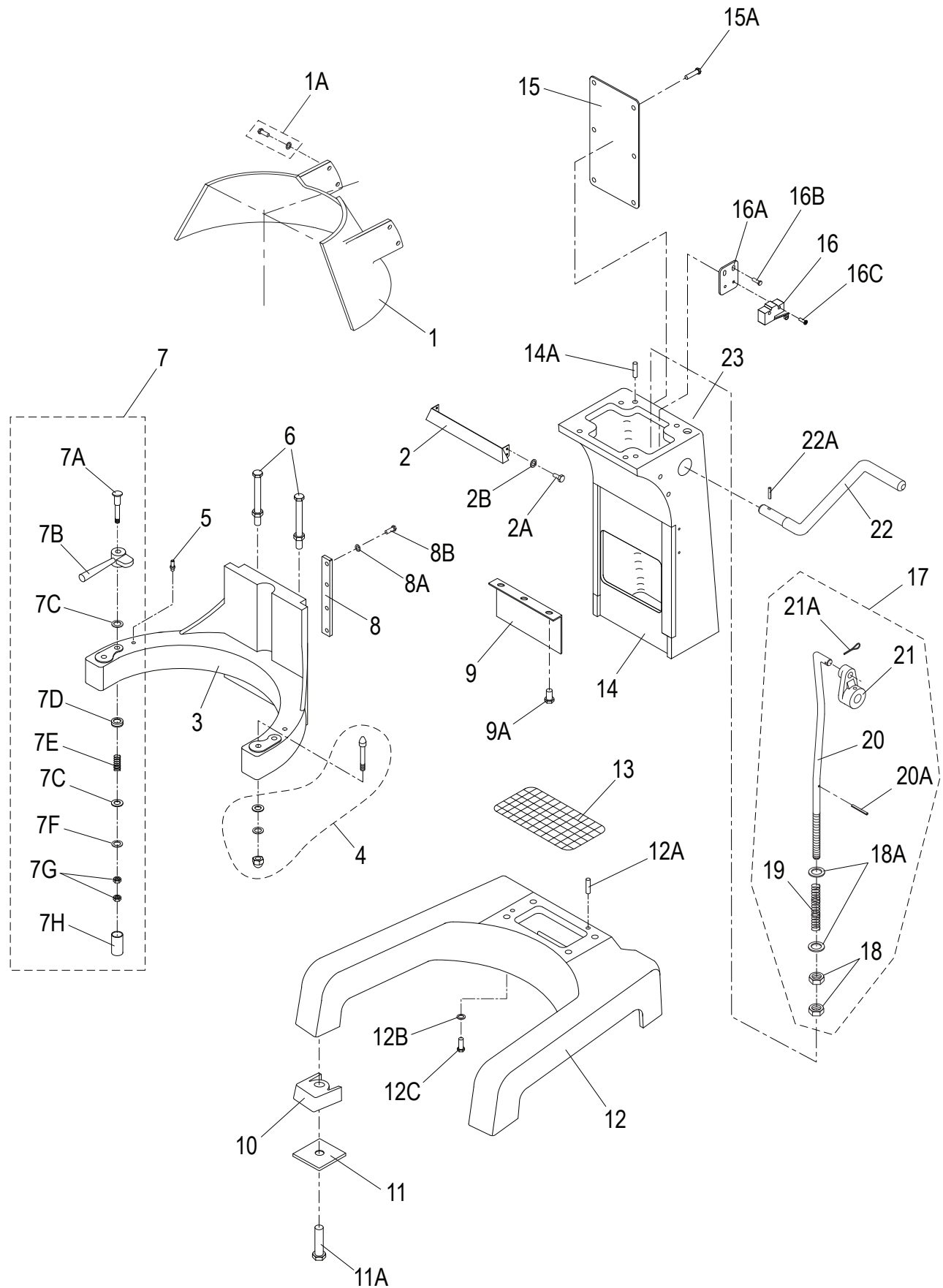


SP30/SPC30 BASE, CRANK STYLE PARTS LIST

Item	Description	Part Number	Qty	Hardware
1	Guard, Rear	X30036	1	
1A	Hex Screw & Flat Washer	X30101	4	M8x20mm
2	Mixer Column Cover	X30102	1	
2A	Screw, Hex Head	-	3	M6x10mm
2B	Washer, Flat	-	3	M6
3	Bowl Cradle	X30034	1	
4	Dowel Screw (Includes M10 Hardware)	X30109	2	
5	Bowl Clamp Stop Pin	X30167	2	
6	Screw, Hex Head/Nut (Touch Shaft)	X40106	1	M10x54mm
6A	Screw, Hex Head/Nut (Upper Limit Bowl Stop)	X30106A	1	M10x68mm
7	Bowl Clamp Assembly (Set/2)	X30033	1	
7A	Bowl Clamp Screw	-	2	M12
7B	Bowl Clamp (Set/2, New Style)	X30033-2	1	
7C	Washer, Flat	-	4	M12
7D	Hardware Cap Retainer	-	2	
7E	Spring	-	2	
7F	Washer, Split Lock	-	2	M12
7G	Nut, Jam	-	4	M12
7H	Hardware Cap	-	2	
8	Cradle Slide Guides	X30035	2	
8A	Washer, Flat	X08076	8	M8
8B	Screw, Hex Head	X30107	8	M8x30mm
9	Cover, Cradle, S/S	X30164	1	
9A	Screw, Hex Head	-	3	M6x14mm
10	Front/Rear Rubber Feet (Set)	X30162-163	1	
11	Shipping Washer	-	4	
11A	Screw, Hex Head	X30039	4	M12x58mm
12	Mixer Base	X30038	1	
		*X30038-DG		
12A	Dowel Pin, Column Locator	-	2	Ø8x16mm
12B	Washer, Flat	-	4	M12
12C	Screw, Hex Head	-	4	M12x40mm
13	Base Screen	X30037	1	
14	Mixer Column	X30042	1	
		*X30042-DG		
14A	Dowel Pin, Head Locator	X30178	2	Ø8x16mm
15	Plate, Rear Cover	X30055	1	
15A	Screw, Truss Head	X30056	6	M5x6mm
16	Microswitch, Bowl Lift	X30051	1	
	Microswitch, Bowl Lift - SPC Model	X30051-1	1	
17	Screw Sleeve	X30104	1	
17A	Roll Pin	X30105	2	Ø4x30mm
18	Retaining Ring	X25145	1	STW-35
19	Bowl Lift Screw	X30041	1	
20	Shaft Key	X20123	3	5x5x15mm
21	Ball Bearing	X30043	1	
22	Retaining Ring	X30044	5	STW-25
23	Oblique Gear (30T)	X30045	2	
24	Shaft	X30047	1	
25	Oilless Bearing	X30050	1	
26	Hand Wheel Assy W/Hardware, New Style (Plastic)	X30053	1	
	Hand Wheel Assy W/Hardware, Old Style (Metal)	-		
27	Hand Wheel Crank Handle	X30053-1	1	
28	Set Screw, Cup Point (Metal Wheel Only)	-	1	M10x8mm
29	Hand Wheel Cap	-	1	
30	Label, Hazardous Voltage (Not Shown)	X91014	1	
31	Strain Relief, Liquid Tight (Not Shown)	952-12	1	
32	Power Cord, 110V Mixer (SP30)	X30155	1	
	Power Cord, 220V Mixer (SP30P)	X30155P		

* Use after S/N 7314991.

SP30 BASE, LEVER STYLE COMPONENTS

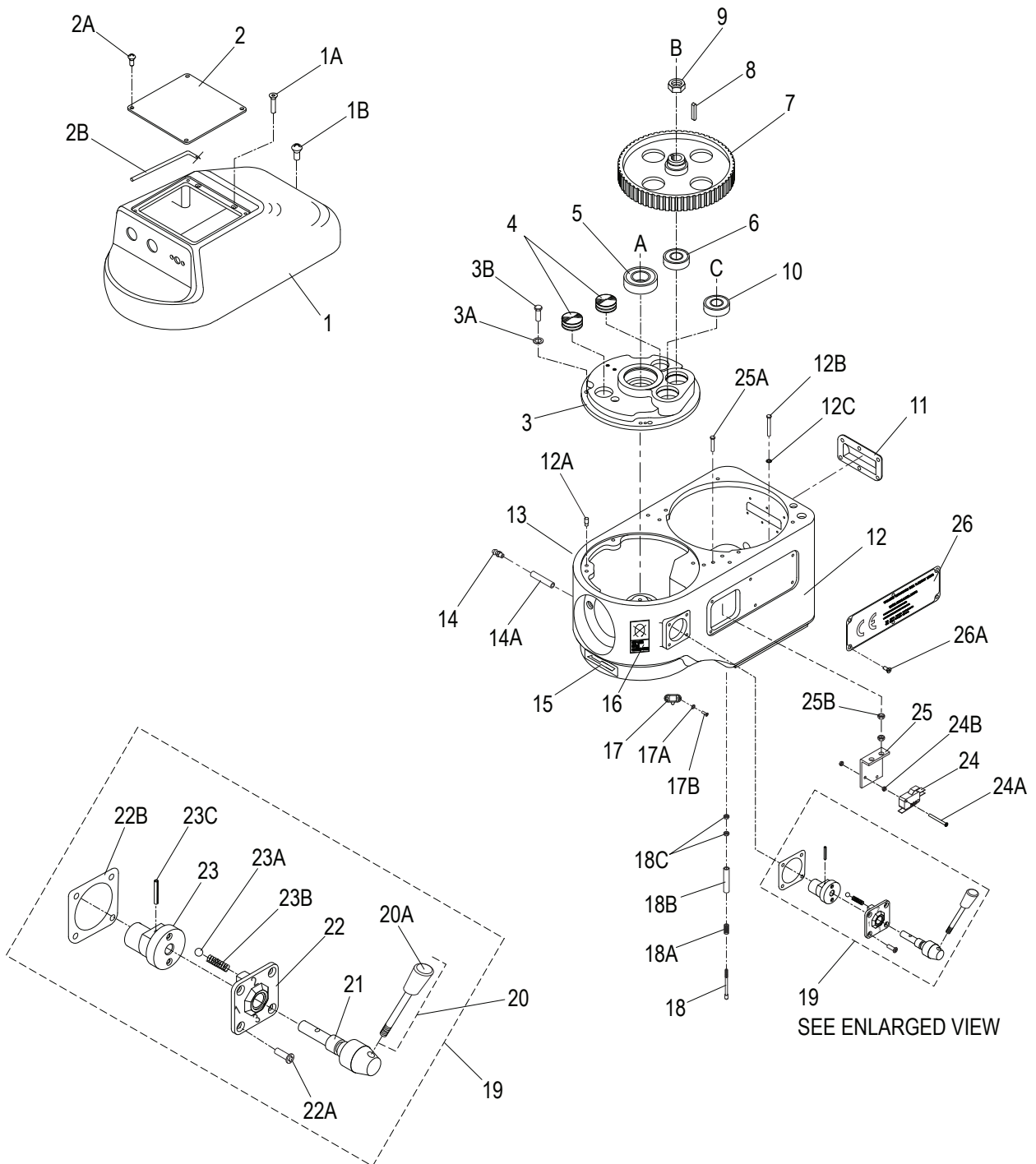


SP30 BASE, LEVER STYLE PARTS LIST

Item	Description	Part Number	Qty	Hardware
1	Guard, Rear	X30036	1	
1A	Hex Screw & Flat Washer	X30101	4	M8x20mm
2	Mixer Column Cover	X30102	1	
2A	Screw, Hex Head	-	3	M6x10mm
2B	Washer, Flat	X25069	3	M6
3	Bowl Cradle	X30034-1	1	
		*X30034-DG		
4	Dowel Screw (Includes M10 Hardware)	X30109	2	
5	Bowl Clamp Stop Pin	X30167	2	
6	Screw, Hex Head/Nut (Touch Shaft)	X40106	1	M10x54mm
7	Bowl Clamp Assembly (Set/2)	X30033	1	
7A	Bowl Clamp Screw	-	2	
7B	Bowl Clamp (Set/2, New Style)	X30033-2	1	
7C	Washer, Flat	-	4	M12
7D	Hardware Cap Retainer	-	2	
7E	Spring	-	2	
7F	Washer, Split Lock	-	2	M12
7G	Nut, Jam	-	4	M12
7H	Hardware Cap	-	2	
8	Cradle Slide Guides	X30035	2	
8A	Washer, Flat	X08076	8	M8
8B	Screw, Hex Head	X30069	8	M8x30mm
9	Cover, Cradle, S/S	X30164	1	
9A	Screw, Hex Head	-	3	M6x14mm
10	Front/Rear Rubber Feet (Set)	X30162-163	1	
11	Shipping Washer	-	4	
11A	Screw, Hex Head	X30039	4	M12x58mm
12	Mixer Base	X30038	1	
		*X30038-DG		
12A	Dowel Pin, Column Locator	-	2	Ø8x16mm
12B	Washer, Flat	-	4	M12
12C	Screw, Hex Head	-	4	M12x40mm
13	Base Screen	X30037	1	
14	Mixer Column	X00647	1	
14A	Dowel Pin, Head Locator	X30178	2	Ø8x16mm
15	Plate, Rear Cover	X30055	1	
15A	Screw, Truss Head	X30056	6	M5x6mm
16	Microswitch, Bowl Lift	X30219	1	
16A	Bracket, Microswitch Mounting	X30216	1	
16B	Screw, Truss Head	X30217	2	M6x8mm
16C	Screw, Pan Head & Flatwasher	X30218	2	M4x24mm
17	Bowl Lift Rod Assembly	X30211A	1	
18	Nut, Hex	X30215	2	M10
18A	Washer, Flat	X30213	2	M10
19	Spring	X30214	1	
20	Bowl Lift Rod	X30211	1	
20A	Roll Pin	X30212	1	M4x30mm
21	Bowl Lift Cam	X30210	1	
21A	Cotter Pin	-	1	
22	Bowl Lift Arm	X30208	1	
22A	Roll Pin	X30209	1	M5x30mm
22B	Screw, Hex Head	X80B04	1	M12x40mm
22C	Washer, Split Lock	X80B05	1	M12
23	Label, Hazardous Voltage	X91014	1	
24	Strain Relief, Liquid Tight (Not Shown)	952-12	1	
25	Power Cord, 110V Mixer (SP30) (Not Shown)	X30155	1	
	Power Cord, 220V Mixer (SP30P) Not Shown)	X30155P		

* Use after S/N 7314991.

SP30/SPC30 HEAD COMPONENTS

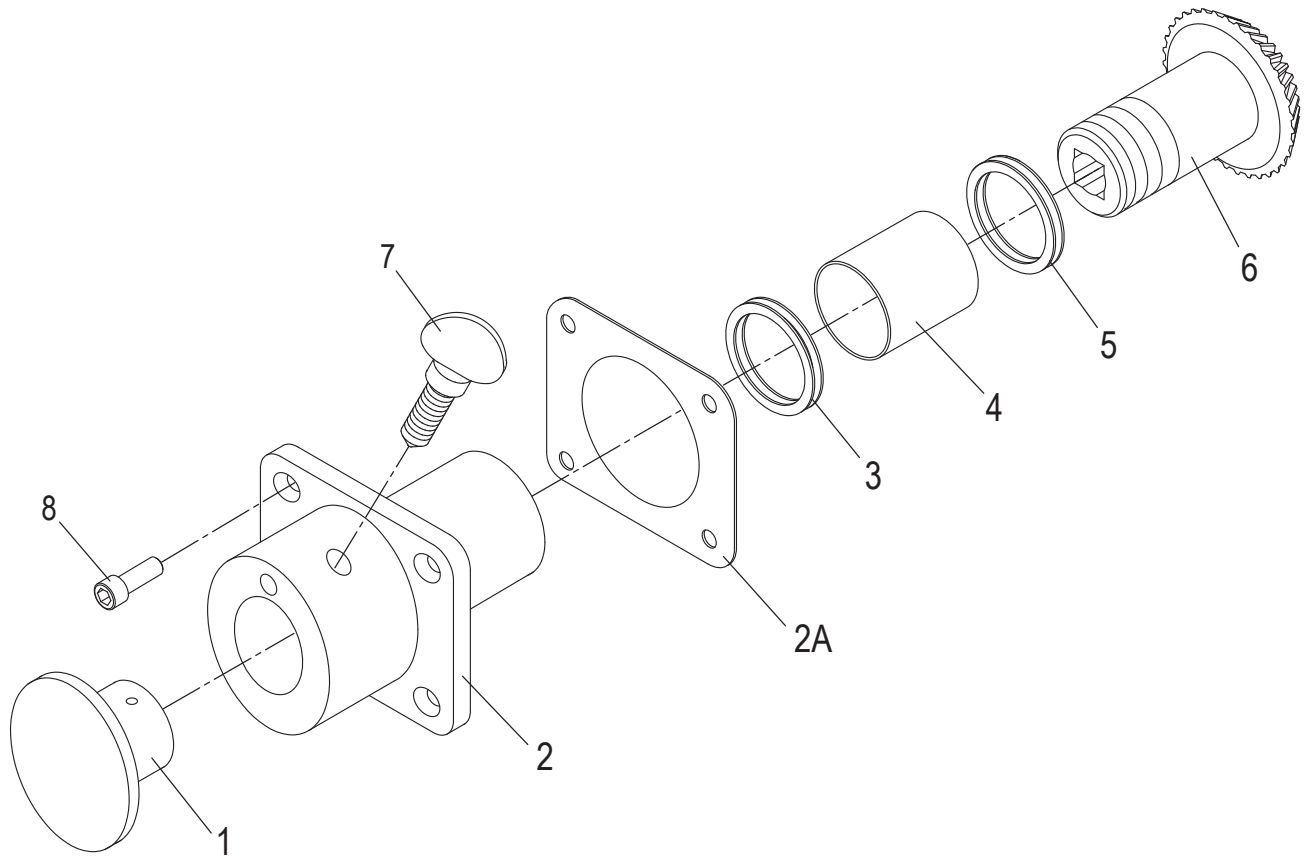


SP30/SPC30 HEAD PARTS LIST

Item	Description	Part	Quantity	Hardware
		Number	110V 220V	
1	Cover, Transmission	X30004	1	
		*X30004-DG		
1A	Screw, Flat Head	X30207	2	M8x108mm
1B	Screw, Flat Head	X30220	1	M6x90mm
2	Cover, Switch Box	X30002	1	
2A	Screw, Truss Head	X30001	4	M6x10mm
2B	Gasket	X30003	1	
3	Cover, Gear Housing	X30077	1	
3A	Washer, Split Lock	X30198	4	M8
3B	Screw, Hex Head	X30197	4	M8x24mm
4	Grease Plug	X10073	2	
5	Ball Bearing	X30024	1	
6	Ball Bearing	X10012	1	
7	Wheel, Main Cog	X30080	1	
8	Shaft Key	X30081	1	5x5x30mm
9	Nut, Hex	X30082	1	M16
10	Ball Bearing	X10012	1	
11	Plate, Ventilation	X30076	1	
12	Transmission Case, Fixed Bowl Guard (Before S/N 7313774 Or 7350796)	X30087	1	
	Transmission Case, Removable Bowl Guard (After S/N 7313773 Or 7350795)	X30087-1		
12A	Dowel Pin, Threaded	-	2	
13	Label, Lubricate	X91009	1	
14	Grease Fitting	X10900	1	
14A	Grease Tube	X10217	1	
15	Label, Arrow	X91012	1	
16	Label, Stop To Change Gear	X91010	1	
17	Safety Guard Spring Lock	X10134	1	
17A	Washer, Flat	-	2	M3
17B	Screw, Round Head	-	2	M3x8mm
18	Touch Shaft, Brass (Before S/Ns 7311437 Or 7350283)	X30096	1	
	Touch Shaft, Nylon (After S/Ns 7311436 Or 7350282)	X30096N		
18A	Spring	X30095	1	
18B	Tube	-	1	
18C	Nut, Hex	X30186	2	M5
19	Gear Shift Lever Assembly	X30057-60	1	
20	Gear Shift Lever With Knob	X30057	1	
20A	Knob, Gear Shift	X30057-1	1	
21	Shaft	-	1	
22	Cover	-	1	
22A	Screw, Flat Head	X30179	4	M8x20mm
22B	Gasket	X30059-1	1	
23	Shaft Bias	-	1	
23A	Roller	-	2	
23B	Spring	-	2	
23C	Roll Pin	-	1	Ø3x28mm
24	Microswitch, Interlock	X10057	1	
	Microswitch, Interlock - SPC Model	X10057-1		
24A	Screw, Round Head	854-2	2	#4-40x5/8"
24B	Hex Nut	854-3	4	#4-40
25	Bracket, Microswitch	X30062	1	
25A	Screw, Hex Head	-	2	M6x20mm
25B	Nut	-	4	M6
26	Plate, Warning	X30066	1	
26A	Screw, Pan Head	X30065	6	M4x6mm

*Use after S/N 7314991.

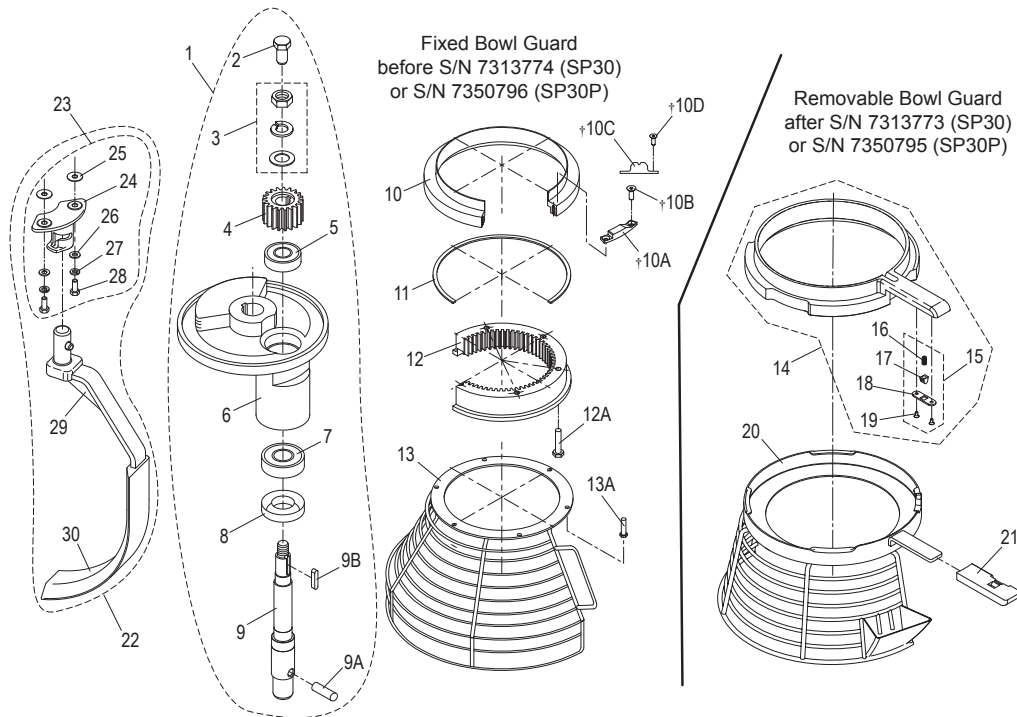
SP30/SPC30 HUB ASSEMBLY COMPONENTS



Item	Description	Part Number	Qty	Hardware
1	Attachment Hole Plug	X10007	1	
2	Attachment Hub	X30017	1	
	(Includes X10089 & X30200)	*X30017-DG		
2A	Gasket	-	1	
3	Oil Seal	X10089	1	
4	Bearing	X10075	1	
5	Thrust Washer	X30018-1	2	Ø45xØ35mm
6	Level Drive Gear (35T)	X30014	1	
7	Thumb Screw	X10005	1	1/2-13x3/4"
8	Cap Screw, Socket Head	-	4	M6x25mm

*Use after S/N 7314991.

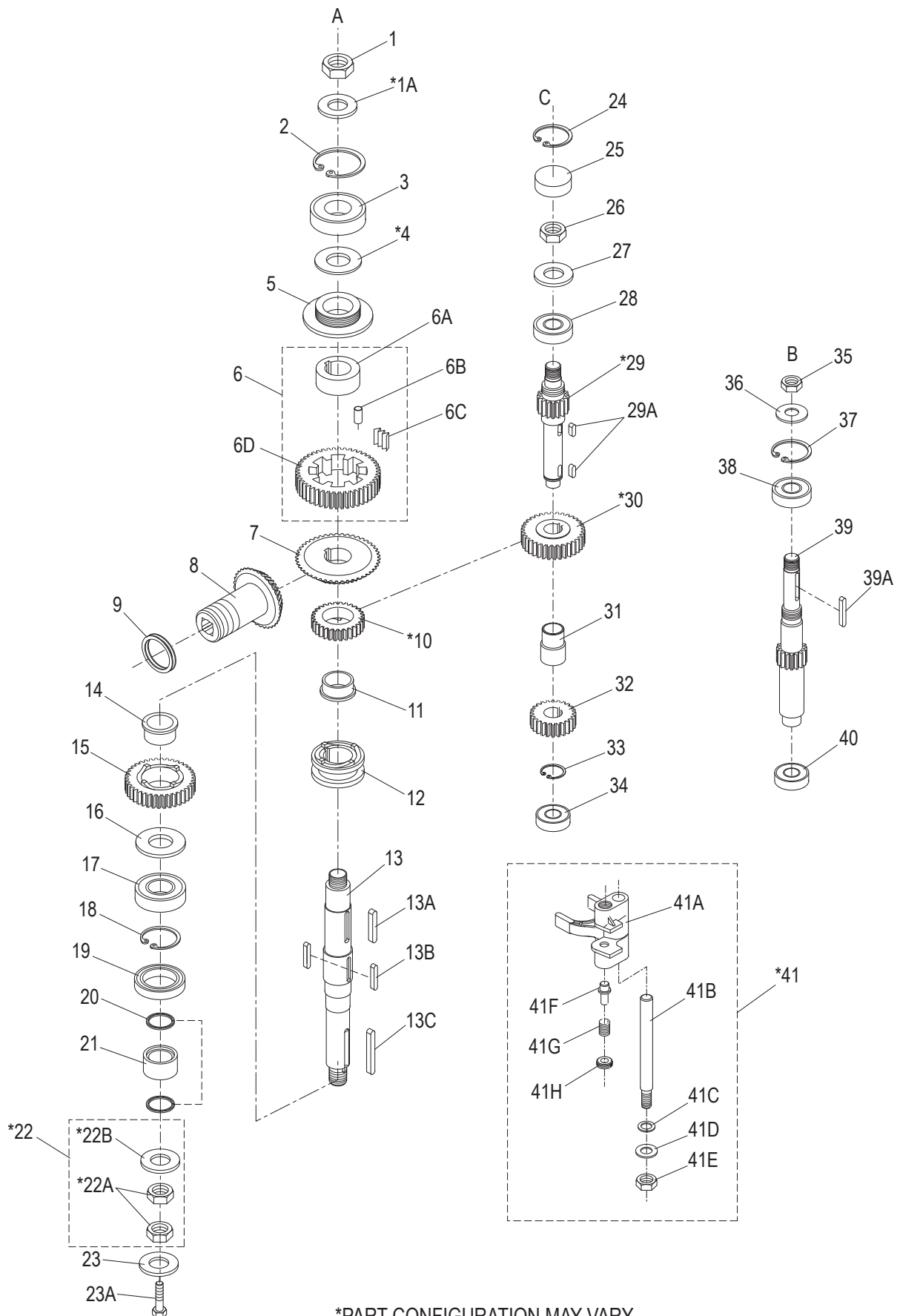
SP30/SPC30 PLANETARY COMPONENTS



Item	Description	Part Number	Qty	Hardware	
1	Complete Planetary Assembly	X30019-28	1		
2	Screw, Hex Head (Old Style Shaft)	X30019	1	M10x24mm	
3	Nut, Stop & Washers	X30020	1	M14	
4	Pinion, Beater (21T)	X30021	1		
5	Ball Bearing	X10012	1		
6	Planetary Shaft Holder	X30023 **X30023-DG	1		
7	Ball Bearing	X30024	1		
8	Oil Seal	X30025	1		
9	Planetary Shaft, External Thread (New Style)	X30027	1		
	Planetary Shaft, Internal Thread (Old Style)	-	1		
9A	Dowel Pin	X30028	1	M12x17mm	
9B	Shaft Key	X30026	1	5x5x24mm	
10	Slide Sheath, Metal	X30090	1		
	Slide Sheath, Plastic	X30090P	1		
10A	Touch Mass	X10041	1		
10B	Screw, Flat Head	X10042	2	M4x10mm	
10C	Safety Guard Spring Lock Fixture	X10135	1		
10D	Screw, Round Head	-	2	M4x10mm	
11	Gasket	X30091	1		
12	Ring Gear (67T)	X30092	1		
12A	Screw, Socket Head	X30099	6	M8x28mm	
13	Front Interlocking Guard Assy	X30093-94	1		
13A	Screw, Hex Head - Locking Patch	X10083	6	M5x8mm	
14	Plastic Slide Sheath, Removable Safety Guard	X300S2	1		
15	Spring Plunger Hardware Kit	X200S3	1		
16	Spring	-	1		
17	Plunger	-	1		
18	Plate, Plunger Retention	-	1		
19	Screw, Flat Head	-	2	M3x8mm	
20	Bowl Guard Assembly, Stainless Steel	X300S1	1		
21	Handle, Plastic - Removable Safety Guard	X30504	1		
22	Bowl Scraper Assembly	XXSCRP-30	1		
23	Scraper Mounting Kit	-	1		
24	Washer	-	2		
25	Scraper Mounting Hub	-	1		
26	Washer, Flat	-	2	M8	
27	Washer, Split Lock	-	2	M8	
28	Screw, Hex Head	-	2	M8x25mm	
29	Scraper Arm	-	1		
30	Bowl Scraper	X40515	1		

* Used with old style (metal) sheath. ** Use after S/N 7314991.

SP30/SPC30 GEARBOX COMPONENTS



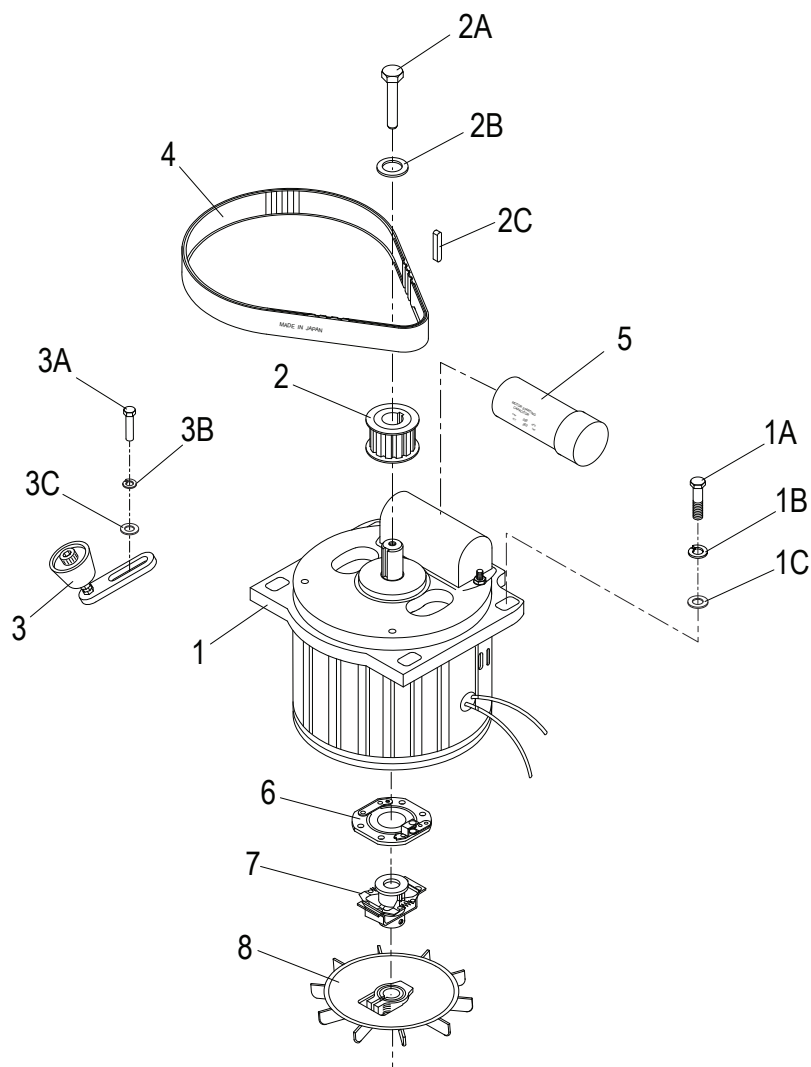
*PART CONFIGURATION MAY VARY.

SP30 GEARBOX PARTS LIST

Item	Description	Part Number	Qty	Hardware
1	Nut, Jam	X30111	1	M20
*1A	Washer, Flat	X30111A	1	M20
2	Retaining Ring	X30112	1	STW-52
3	Ball Bearing	X30024	1	
*4	Shim	-	A/R	
5	Lead-In Oil Pad	X30113	1	
6	Slow Speed Gear Assembly	X30114-117	1	
6A	Bushing	-	1	
6B	Roller Pin	-	1	
6C	Slice Spring	-	1	
6D	Gear, Slow Speed (52T)	-	1	
7	Gear, Bevel (52T)	X30118	1	
8	Level Drive Gear (35T)	X30014	1	
9	Thrust Washer	X30200	1	
*10	Gear, Clutch (36T) Old Style Replace With X30120-2, X360148-2 & X30145	-	1	
	Gear, Clutch (35T) New Style	X30120-2	1	
11	Bushing, Clutch	X30119	1	
12	Sleeve, Clutch	X30133	1	
13	Drive Shaft	X30130	1	
13A	Shaft Key	X30121	1	8x8x44mm
13B	Shaft Key	X30132	1	8x10x34mm
13C	Shaft Key	X30131	1	10x10x57mm
14	Bushing, Clutch	X30119	1	
15	Gear, Clutch (45T)	X30122	1	
16	Heel	X30124	1	
17	Ball Bearing	X30125	1	
18	C-Ring Retaining Ring	X30126	1	STW-72
19	Oil Seal	X30128	1	
20	O-Ring	X30221	2	36x30x3mm
21	Guard, Oil Bushing	X30127	1	
*22	Washer, Flat & Stop Nut	X30129C	1	M20
*22A	Nut, Jam	X30111	2	M20
*22B	Washer, Flat	X30111A	1	M20
*23	Washer, Flat	X30129B	1	M8x25x1.8
*23A	Screw, Hex Head	X30129A	1	M8x12mm
24	Retaining Ring	X25106	1	STW-52
25	Cap, Shaft	-	1	
26	Nut, Jam	X30152	1	M16
27	Washer	-	1	M16
28	Ball Bearing	X10012	1	
*29	Transmission Shaft (13T) Old Style, Keyed	X30150-1	1	
	Transmission Shaft (13T) New Style, Splined	X30150-2		
29A	Shaft Key	X30149	2	6x6x16mm
*30	Gear (29T) Old Style Replace With X30120-2, X360148-2 & X30145	-	1	
	Gear (30T) New Style	X30148-2		
31	Bushing, Spacer	X30144	1	
32	Gear (20T) Old Style, Keyed	X30143-1	1	
	Gear (20T) New Style, Splined	X30143-2		
33	Retaining Ring	X30141	1	STW-24
34	Ball Bearing	X30140	1	
35	Nut, Stop - Old Style	X30147	1	M16
	Nut, Stop - New Style	X30152	1	M16
36	Washer, Flat	-	1	M16
37	Retaining Ring	X30146	1	STW-42
38	Ball Bearing	X10012	1	
39	Shaft, Master (15T) If 12 Tooth Gear - Also Repace X300120 & X360148-2	X30145	1	
39A	Shaft Key	X30081	1	5x5x30mm
*40	Ball Bearing	X30140	1	
41	Yoke Shifter Assembly	X30134-139	1	
41A	Yoke, Shifter	-	1	
41B	Guide, Rod Shifter	-	1	
41C	Washer, Split Lock	-	1	M12
41D	Washer, Flat	-	1	M12
41E	Nut, Stop	-	1	M12
41F	Plunger, Yoke Shifter	-	1	
41G	Spring, Yoke Shifter	-	1	
41H	Spring, Retainer	-	1	

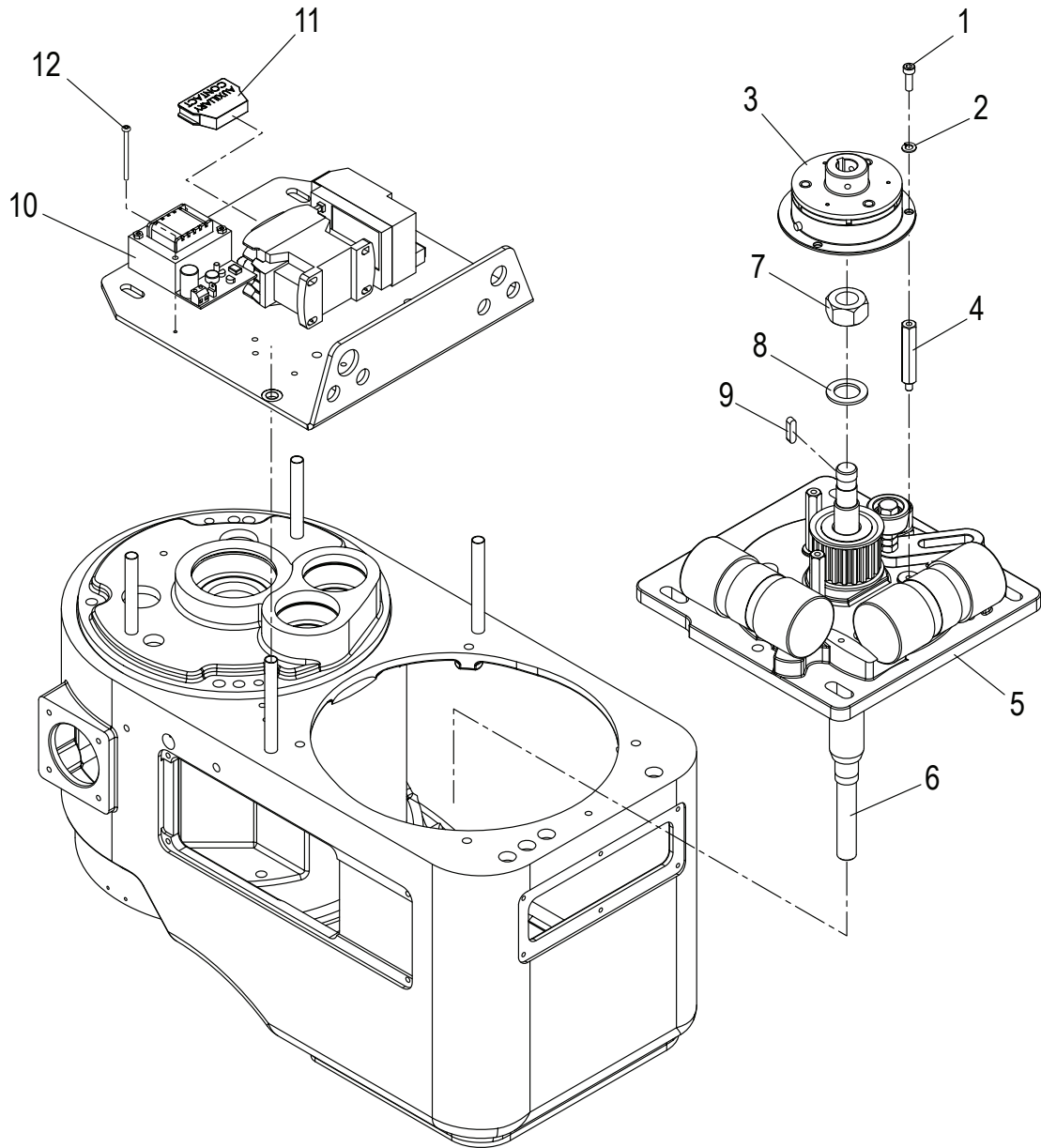
*PART CONFIGURATION MAY VARY.

SP30/SPC30 MOTOR COMPONENTS



Item	Description	Part Number	Qty	Hardware
1	Motor, 1HP 115/60/1 (SP30)	X30068	1	
	Motor, 1HP 115/60/1 - Motor Brake (SPC30)	X30068C		
	Motor, 1 HP 220/60/1 (SP30)	X30068-2		
	Motor, 1 HP 220/60/1 - Motor Brake (SPC30)	X30068C-2		
	Motor, 1.5HP 220/60/1 (SP30P)	X30068P		
	Motor, 1.5HP 220/60/1 - Motor Brake (SPC30P)	X30068PC		
1A	Screw, Hex Head & Washers	X30069	4	M8x30mm
2	Wheel, Motor Cog (18T) 60HZ	X30071	1	
	Wheel, Motor Cog (20T) 50HZ	X00734	1	
2A	Screw, Hex Head	X30075	1	M8x20mm
2B	Washer, Flat	X30074	2	M8
2C	Shaft Key	X30073	1	5x5x20mm
3	Belt Tensioner	X30158	1	
3A	Screw, Hex Head	-	2	M8x24mm
3B	Washer, Split Lock	-	2	M8
3C	Washer, Flat	-	2	M8
4	Cogged Belt (S8M-800)	X30072-1	1	
	Cogged Belt (S8M-880)	X40072-1	1	
5	Capacitor, Start 400MF	X30070-1	1	
	Capacitor, Start 500MF (220V Units)	X30070-1P		
6	Switch, Platinum	X10051	1	
7	Clutch	X25059	1	
8	Cooling Fan	X30061	1	

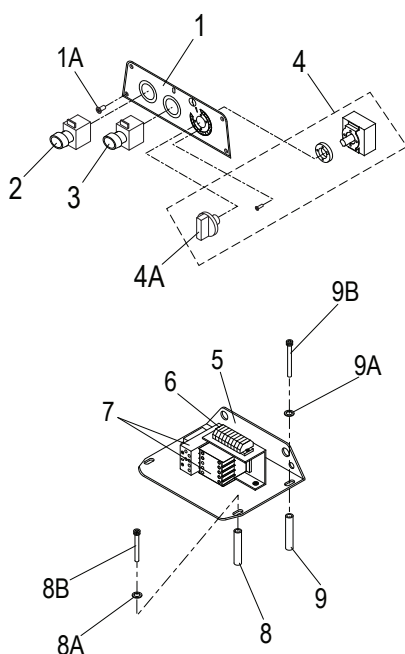
SPC30 MOTOR BRAKE COMPONENTS



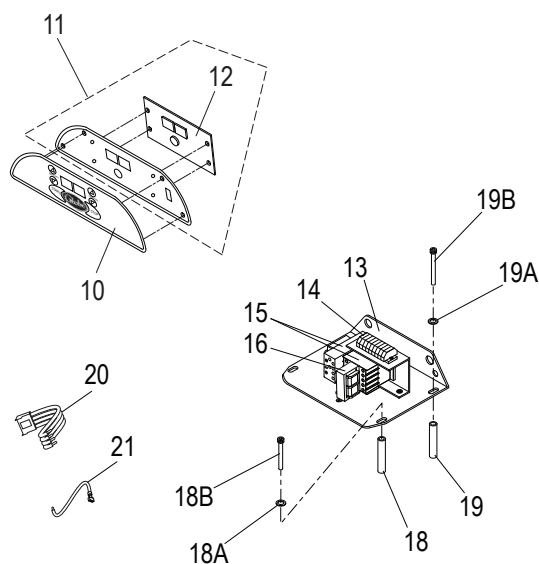
Item	Description	Part Number	Qty	Hardware
1	Screw, Socket Head	-	4	M5x12mm
2	Washer, Split Lock	-	1	M5
3	Motor Brake, Magnetic	X30501	1	
4	Hex Standoff	X30502	3	
*5	Top Cover, Motor	-	1	
*6	Motor Shaft	-	1	
7	Nut, Hex	-	1	M18
8	Washer, Flat	-	1	M18
9	Shaft Key	-	1	5x5x20mm
10	Electronic Board, 115V	X20512	1	
	Electronic Board, 220V	X20512-1		
11	Auxiliary Contact Block	X25503	1	
12	Screw, Hex Head	-	2	M3x34mm

*Included With SPC Model Motor Assembly (Page 11).

SP30/SPC30 MANUAL AND DIGITAL TIMER



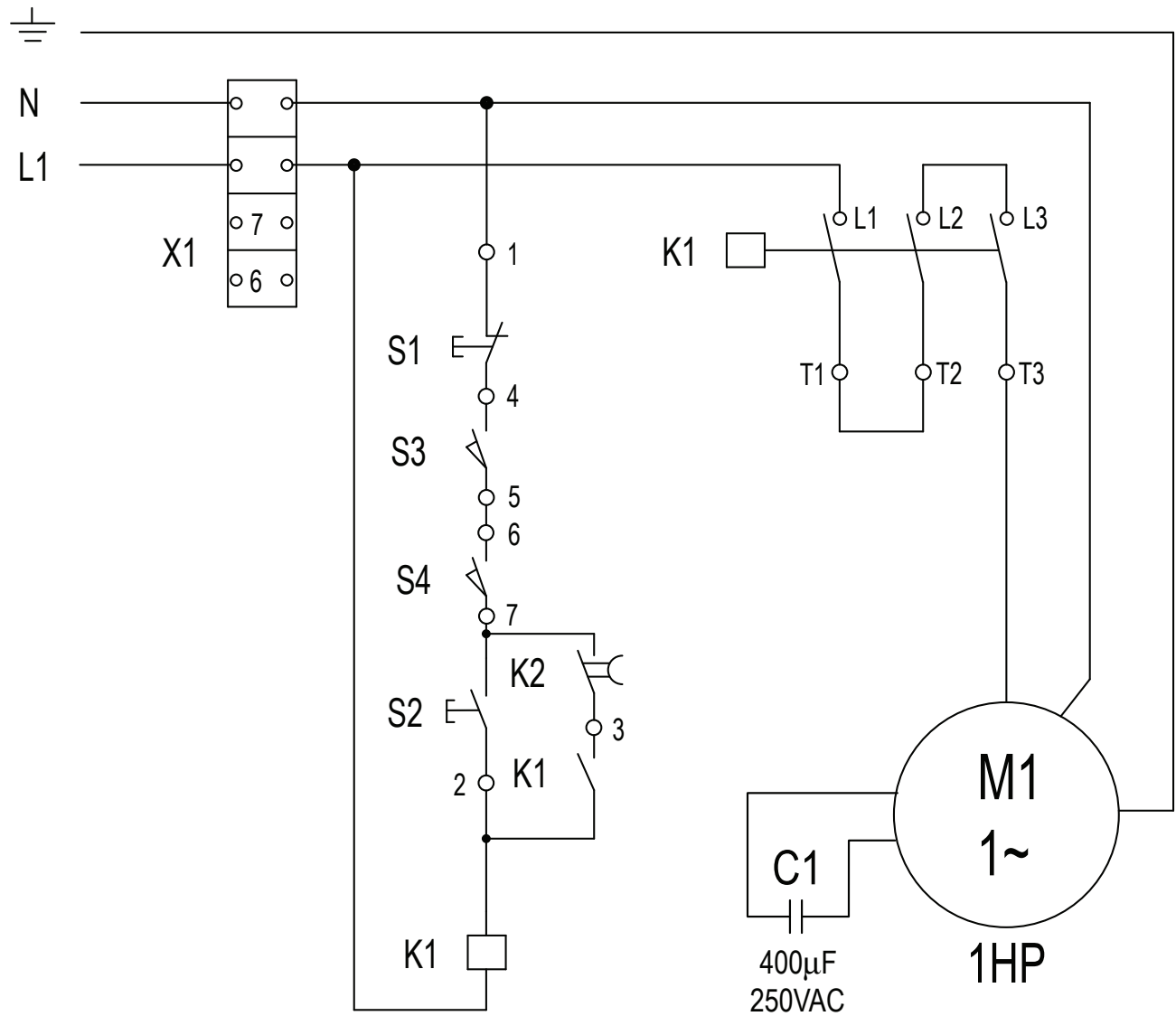
Manual Timer



Digital Timer

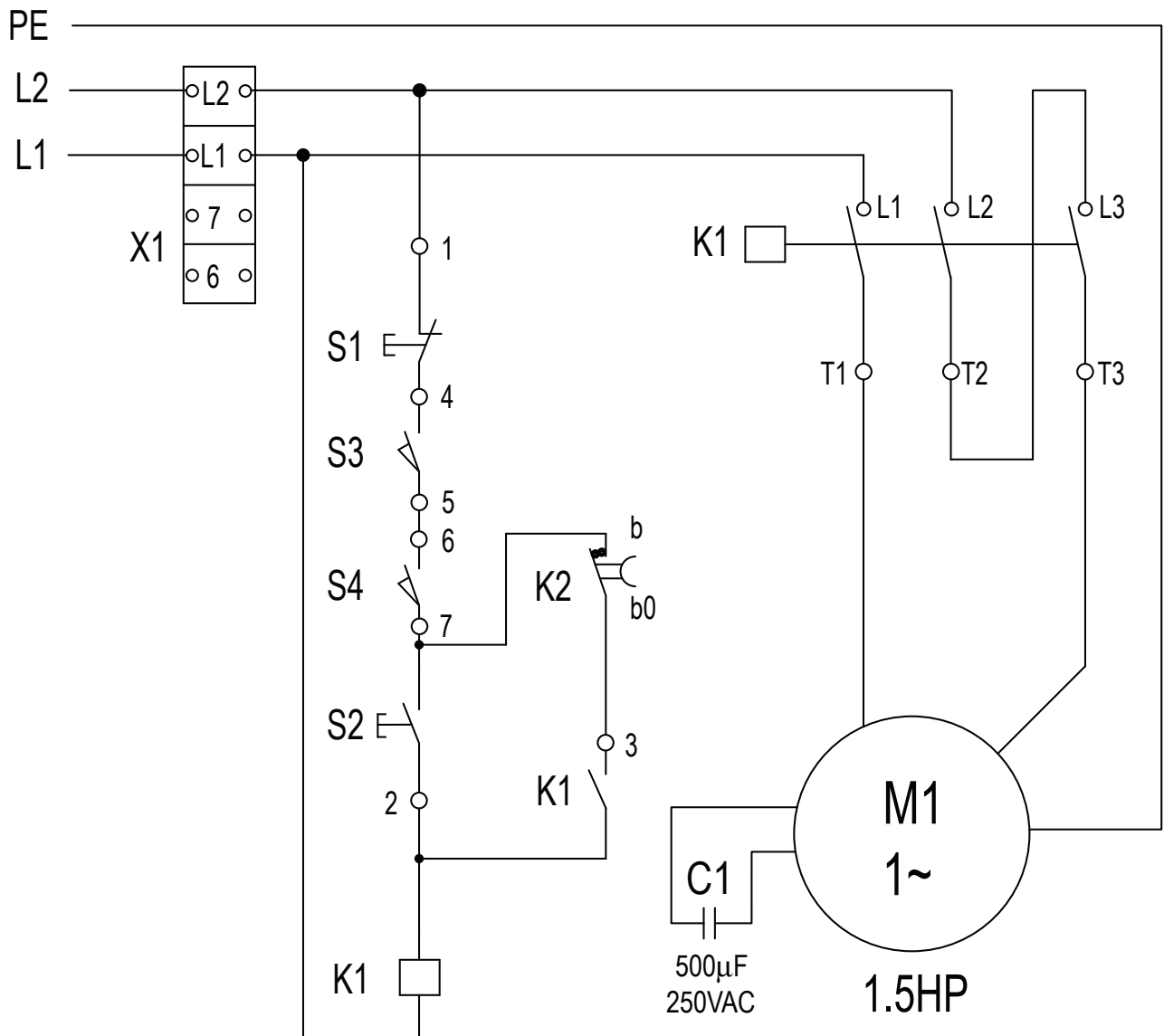
Item	Description	Part Number	Quantity		Hardware
			110V	220V	
1	Control Panel	X30005	1		
1A	Screw, Truss Head	X30204	6		M4x10mm
1B	Gasket, Control Panel (Not Shown)	X30009	1		
2	Emergency Stop Button	X10050	1		
3	Start Button	X30007	1		
3A	Boot, Start/Stop Switch Button (Not Shown)	X30007-1	2		
3B	Light Bulb, Start Button (Not Shown)	X30007-1B	1		
4	Timer With Knob	X10137	1		
4A	Timer Knob	X10137-1	1		
5	Plate, Electronics Mounting	X30013	1		
6	Connecting Block Set	-	1		
	Connecting Block, Gray (2G)	X10029-2G	6	7	
	Connecting Block, Orange (4R)	X10029-4R	2	1	
	Connecting Block End Cap	X30012-EC	1		
7	Overload Relay Kit, 110/60/1	X30154	1	-	
	Overload Relay Kit, 220/60/1	X30154P	-	1	
8	Tube, Support	X30153	2		
8A	Washer, Flat	-	2		M8
8B	Cap Screw, Socket Head	X30086	2		M8x108mm
9	Tube, Support	X30085	2		
9A	Washer, Flat	-	2		M8
9B	Screw, Hex Head	X30010	2		M8x88mm
10	Switch, Membrane	X00566	1		
11	Control Panel Assembly	X00563	1		
12	Control Board	X00568	1		
13	Plate, Electronics Mounting	X30013	1		
14	Connecting Block Set	-	1		
	Connecting Block, Gray (2G)	X10029-2G	6	7	
	Connecting Block, Orange (4R)	X10029-4R	2	1	
	Connecting Block End Cap	X30012-EC	1		
15	Overload Relay Kit, 110/60/1	X30154	1	-	
	Overload Relay Kit, 220/60/1	X30154P	-	1	
16	Control Transformer Assembly	X00569	1		
17	Control Transformer Fuse (Not Shown)	X00570	1		
18	Tube, Support	X30153	2		
18A	Washer, Flat	-	2		M8
18B	Cap Screw, Socket Head	X30086	2		M8x108mm
19	Tube, Support	X30085	2		
19A	Washer, Flat	-	2		M8
19B	Screw, Hex Head	X30010	2		M8x88mm
20	4 Wire Harness With Connector	X00675	1		
21	Single Wire With Quick Connect	X00676	2		

SP30 ELECTRICAL DIAGRAM, 115V SINGLE PHASE



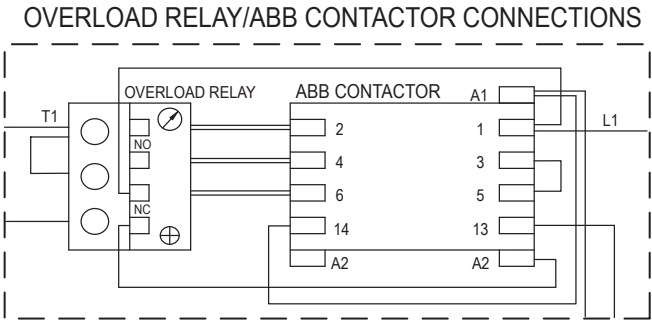
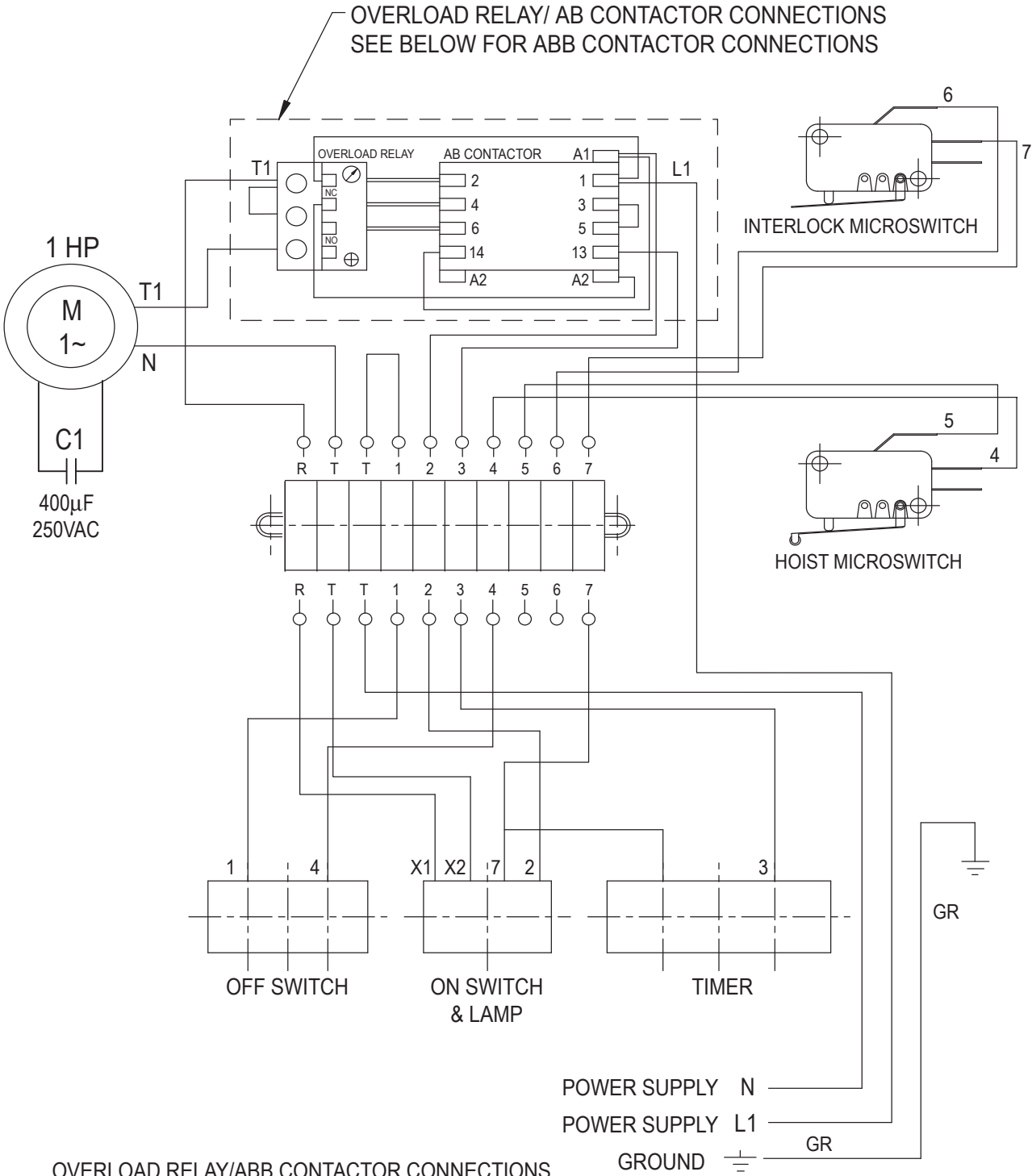
Item	Description	Qty
C1	Capacitor	1
S1	Emergency Stop Button	1
S2	Start Button	1
S3	Microswitch (Bowl Lift)	1
S4	Microswitch (Interlock Guard)	1
K1	Contactor	1
K2	Timer	1
M1	Motor, 1Hp Single Phase 110V	1

SP30P ELECTRICAL DIAGRAM, 220V SINGLE PHASE

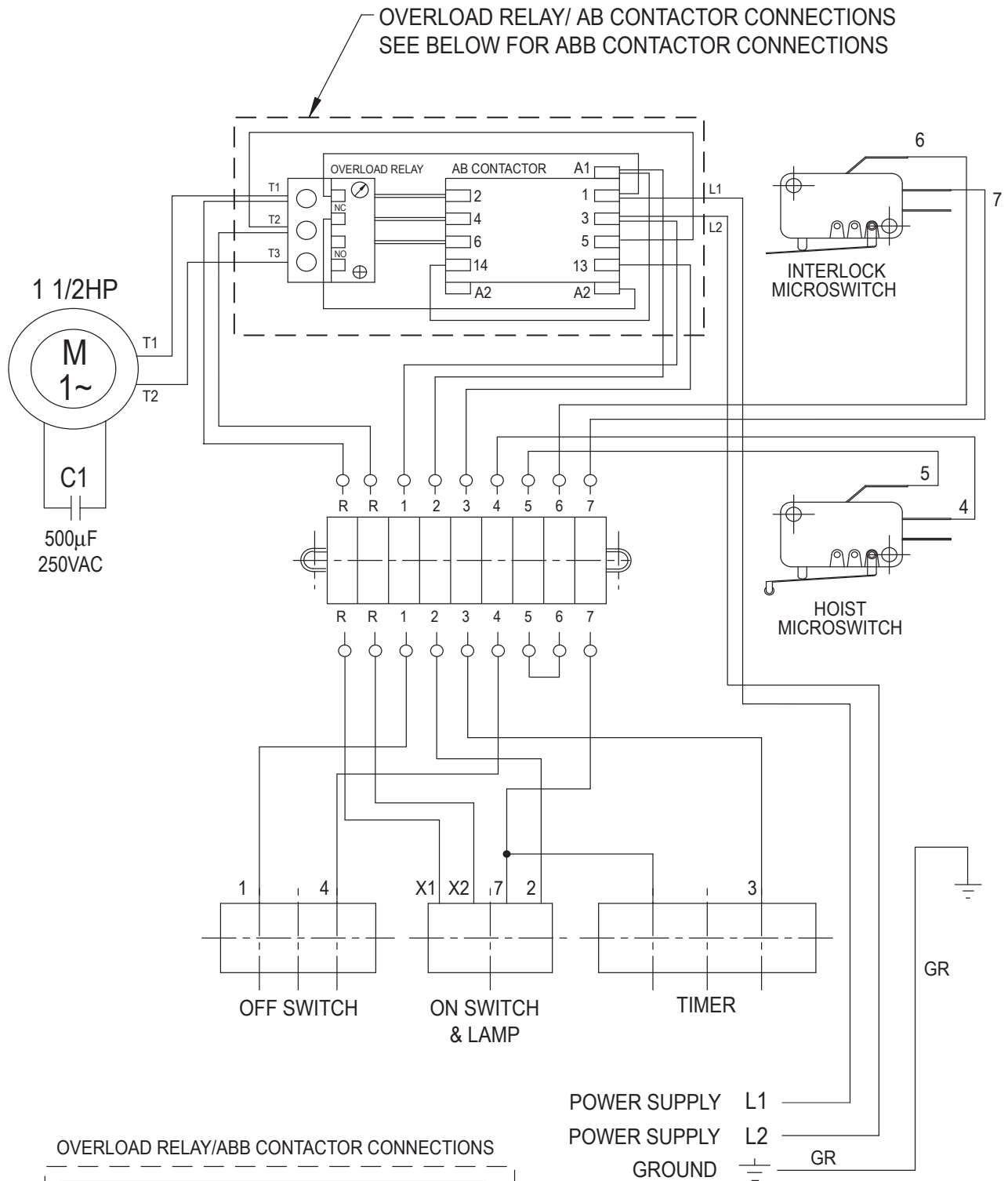


Item	Description	Qty
C1	Capacitor	1
S1	Emergency Stop Button	1
S2	Start Button	1
S3	Microswitch (Bowl Lift)	1
S4	Microswitch (Interlock Guard)	1
K1	Contactor	1
K2	Timer	1
M1	Motor, 1Hp Single Phase 220V	1

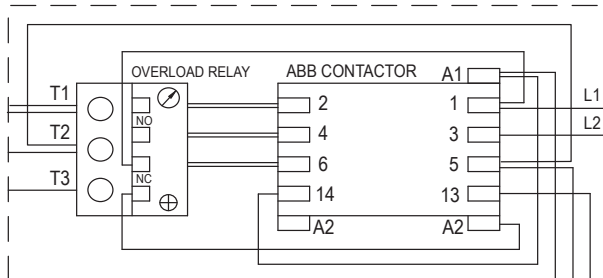
SP30 WIRING DIAGRAM, 115V SINGLE PHASE



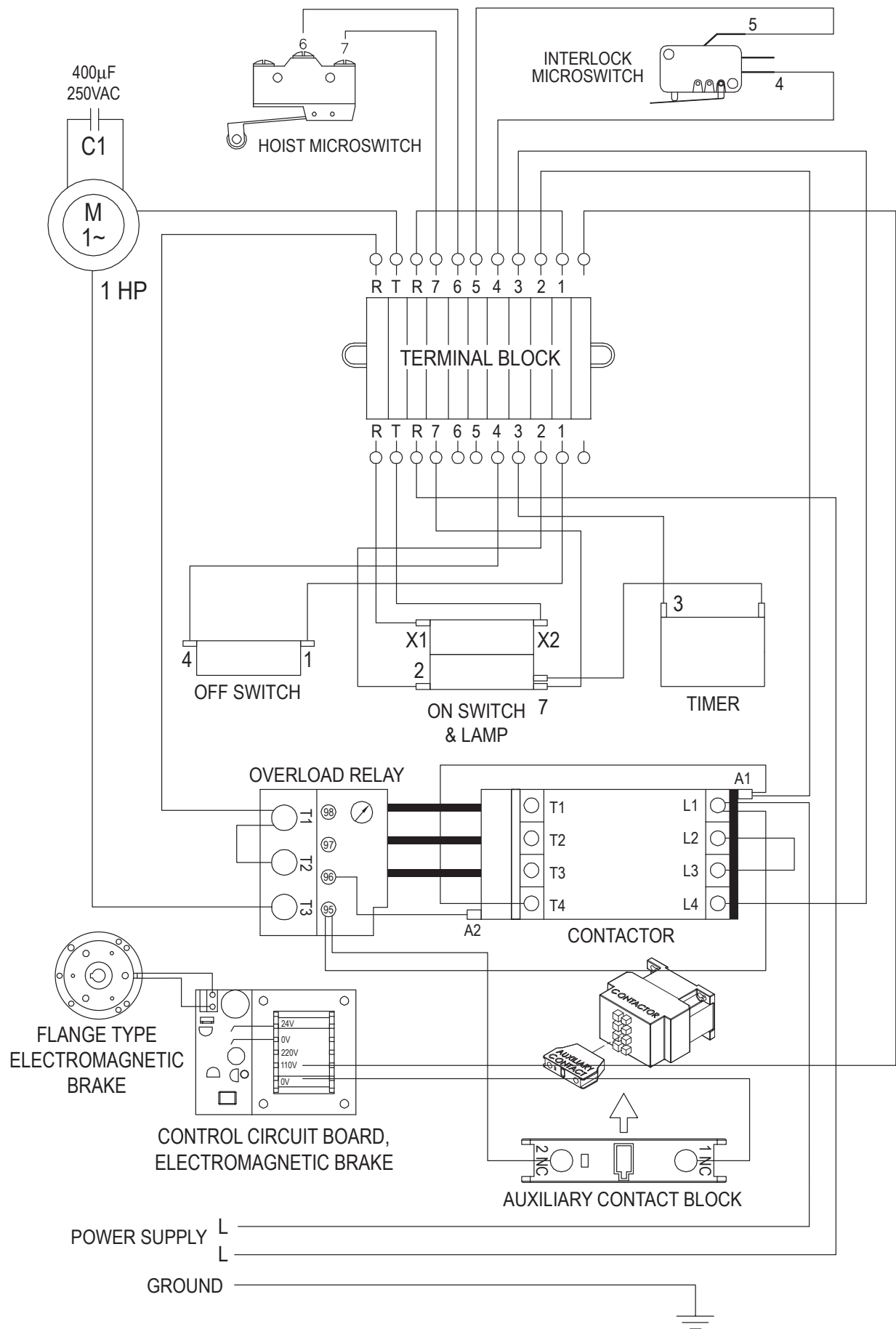
SP30P WIRING DIAGRAM, 220V SINGLE PHASE



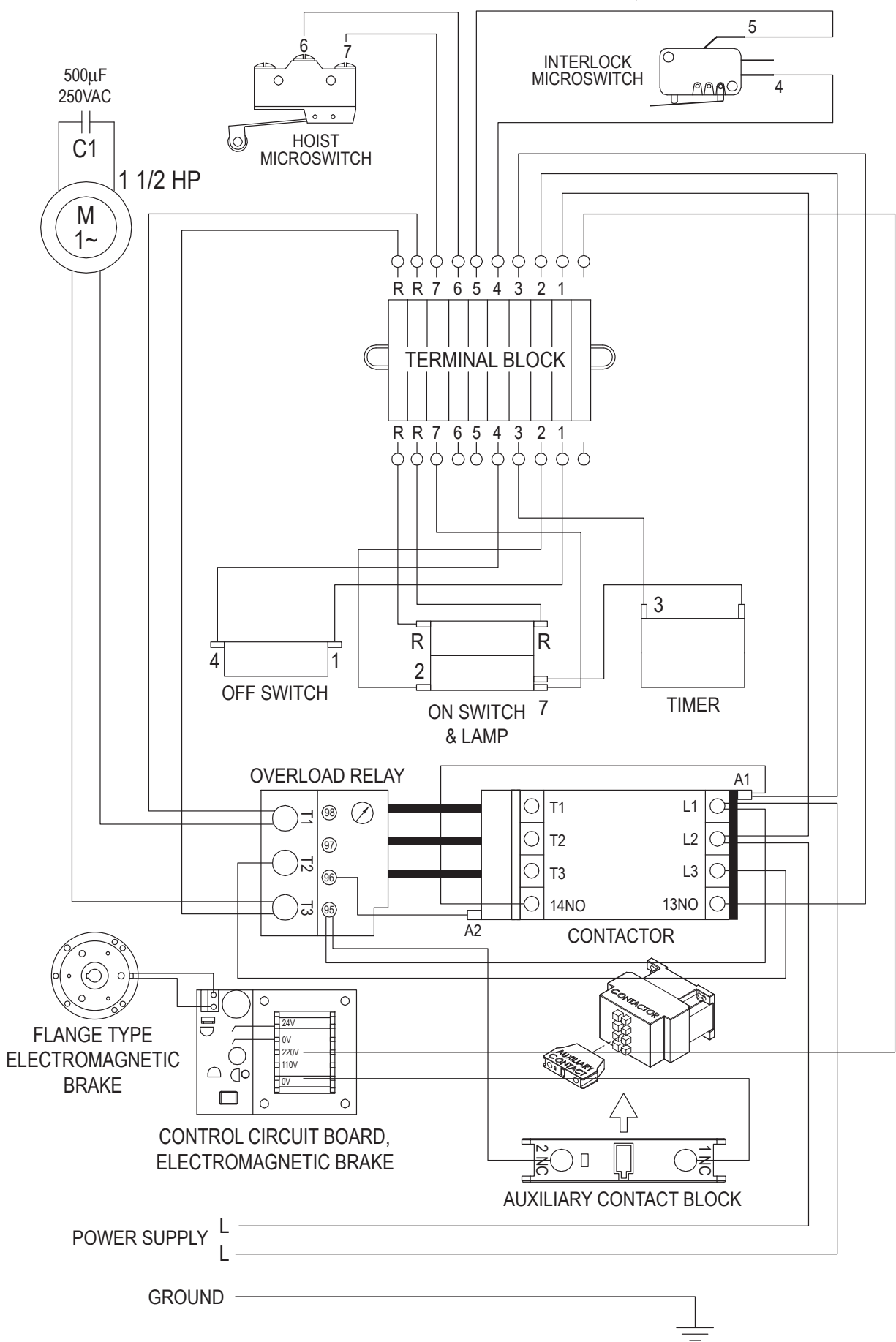
OVERLOAD RELAY/ABB CONTACTOR CONNECTIONS



SPC30 WIRING DIAGRAM, 115V SINGLE PHASE



SPC30P WIRING DIAGRAM, 220V SINGLE PHASE



SP/SPC30 WIRING DIAGRAM, SINGLE PHASE, DIGITAL TIMER

