

# Parts Catalog



**SP40**

## MIXERS

MODELS: SP40 & SPC40

1-28-15

IMPORTANT!

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

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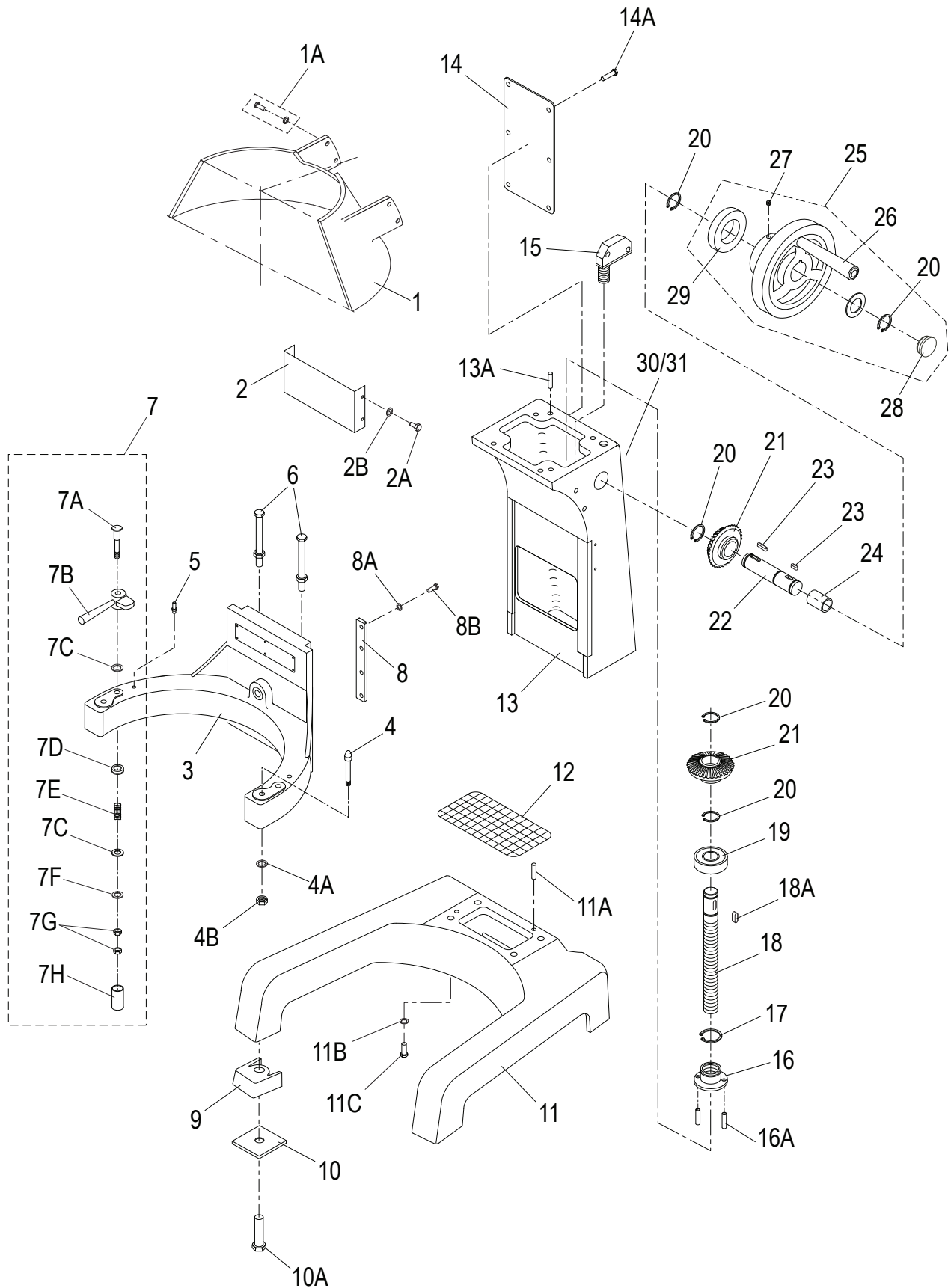
Not for resale



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# SP40/SPC40 BASE COMPONENTS

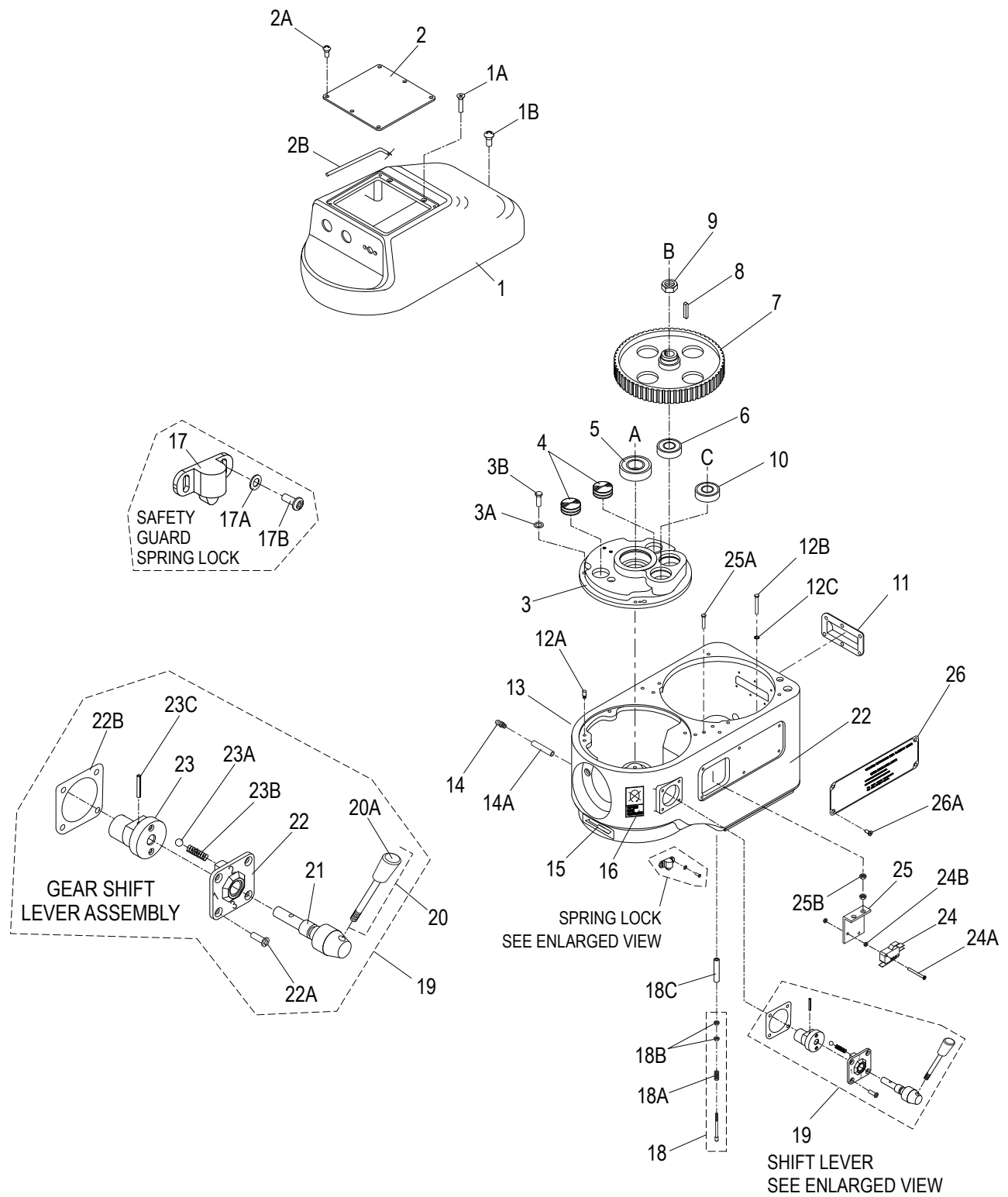


# SP40/SPC40 BASE PARTS LIST

Item	Description	Part Number	Qty	Hardware
1	Guard, Rear	X40036	1	
1A	Screw, Hex Head & Flat Washer	X30101	4	M8x20mm
2	Mixer Column Cover	X40102	1	
2A	Screw, Hex Head	X20185	3	M6x8mm
2B	Washer, Flat	-	3	M6
3	Bowl Cradle	X40034	1	
4	Dowel Pin, Threaded	X40109	2	M12
4A	Washer, Split Lock	-	2	M12
4B	Nut, Stop	X40110	8	M12
5	Bowl Clamp Stop Pin	X40164	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	M12
7C	Washer, Flat	-	4	M12
7D	Hardware Cap Retainer	-	2	
7E	Spring	-	2	
7F	Washer, Split Lock	-	2	M12
7G	Nut, Acorn	-	4	M12
7H	Hardware Cap	-	2	
8	Cradle Slide Guides	X40035	2	
8A	Washer, Flat	-	8	M8
8B	Screw, Hex Head	X30197	8	M8x24mm
9	Front/Rear Rubber Feet (Set)	X40162-163	1	
10	Shipping Washer	-	4	
10A	Shipping Bolt	-	4	3/8x45mm
11	Mixer Base	X40038	1	
		*X40038-DG		
11A	Dowel Pin, Column Locator	X40040	2	Æ8x16mm
11B	Washer, Flat	-	4	M12
11C	Screw, Hex Head	-	4	M12x40mm
12	Base Screen	X40037	1	
13	Mixer Column	X40042	1	
13A	Dowel Pin, Head Locator	X30178	2	Æ8x16mm
14	Plate, Rear Cover	X40055	1	
14A	Screw, Truss Head	X40056	6	M6x10mm
15	Microswitch, Bowl Lift	X30051	1	
	Microswitch, Bowl Lift - SPC Model	X30051-1		
16	Screw Sleeve	X30104	1	
16A	Roll Pin	X30105	1	Æ4x30mm
17	Retaining Ring	X25145	1	STW-35
18	Bowl Lift Screw	X40041	1	
18A	Shaft Key	X20123	1	5x5x15mm
19	Ball Bearing	X30043	1	
20	Retaining Ring	X30044	5	STW-25
21	Oblique Gear (30T)	X30045	2	
22	Shaft, Hand Wheel	X40047	1	
23	Shaft Key	X40073	2	5x5x20mm
24	Oilless Bearing	X40050	1	
25	Hand Wheel Crank With Handle, Plastic	X40053	1	
	Hand Wheel Crank With Handle, Metal	X40053M		
26	Hand Wheel Crank Handle	X30053-1	1	
27	Set Screw, Cup Point (Metal Wheel Only)	-	1	M10x8mm
28	Hand Wheel Cap	-	1	
29	Spacer (50m mod X 25.3mm Id X 10.2mm)	-	1	
30	Label, Hazardous Voltage (Not Shown)	X91014	1	
31	Label, Caution 3-PH (3 Phase Units, Not Shown)	X91011	1	

\*Use after S/N 7410706 (1 Phase) or S/N 7450679 (3 Phase).

# SP40/SPC40 HEAD COMPONENTS



## SP40/SPC40 HEAD PARTS LIST

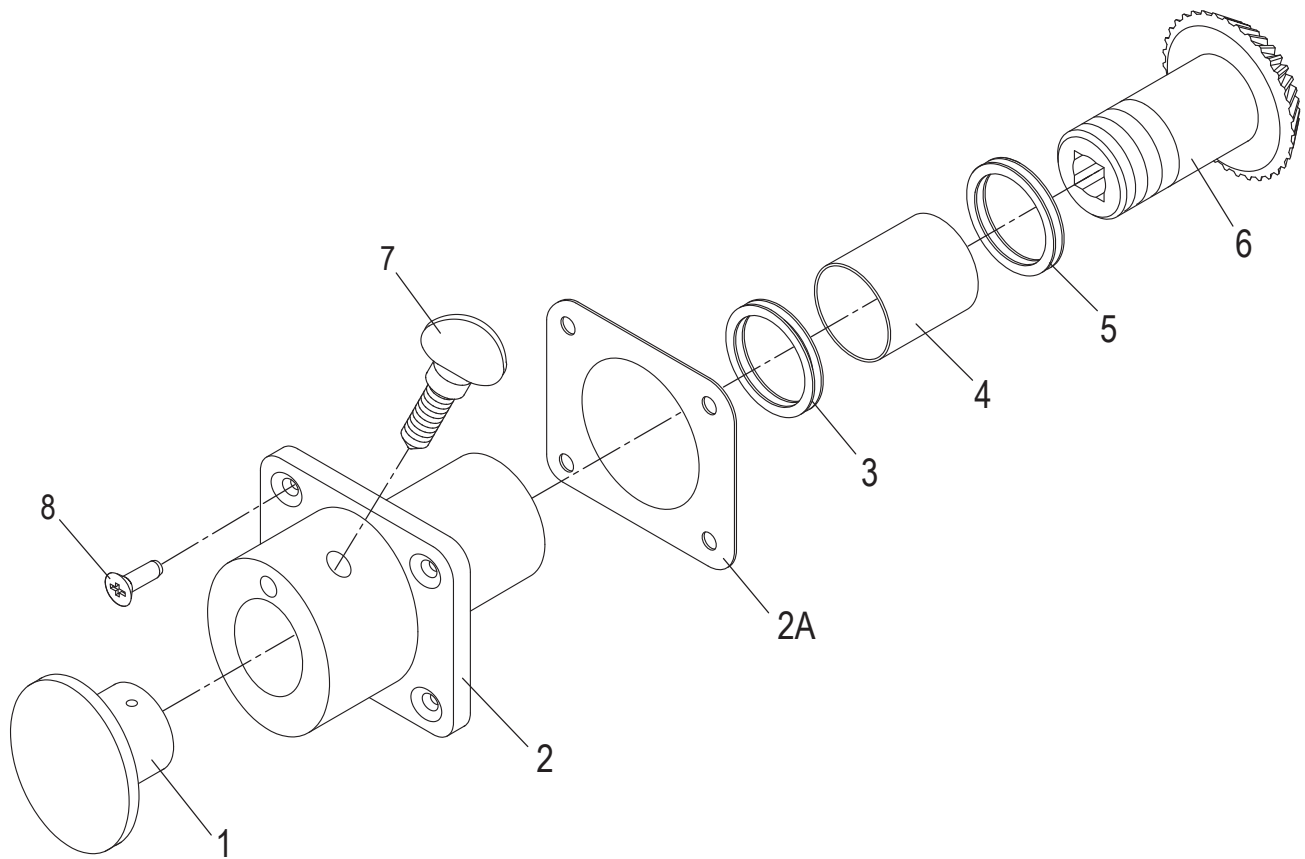
Item	Description	Part Number		Qty	Hardware
1	Cover, Transmission	X40004	†X40004-DG	1	
	Cover, Transmission - SPC Model	X40004-1	†X40004-1-DG		
1A	Screw, Flat Head		X30207	2	M8x108mm
1B	Screw, Flat Head		X30220	1	M6x90mm
2	Cover, Switch Box		X40002	1	
2A	Screw, Truss Head		X30001	6	M6x10mm
2B	Gasket, Switch Box		X40003	1	
3	Cover, Gear Housing		X40077	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 (97T)		X40080	1	
8	Shaft Key		X40081	1	5x5x30mm
9	Nut, Jam & Washers		X40082	1	M16
10	Ball Bearing		X10012	1	
11	Plate, Ventilation		X30076	1	
12	Transmission Case, Fixed/Removable Bowl Guard	*X40087	**X40087-1	1	
12A	Pin, Locating		X40199	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 Assy, Brass		X40096	1	
	Touch Shaft Assy, Nylon		X30096N		
18A	Spring		X30095	1	
18B	Nut, Hex		X30186	2	M5
18C	Tube		X40187	1	
19	Gear Shift Lever Assembly		X40057-60	1	
20	Gear Shift Lever With Knob		X40057	1	
20A	Knob, Gear Shift		X30057-1	1	
21	Shaft		-	1	
22	Cover		-	1	
22A	Screw, Flat Head		-	4	M8x20mm
22B	Gasket		X30059-1	1	
23	Shaft Bias		-	1	
23A	Roller		-	2	
23B	Spring		-	2	
23C	Roll Pin		-	1	Æ5x28mm
24	Microswitch, Interlock		X10057	1	
	Microswitch, Interlock - SPC Model		X10057-1		
24A	Screw, Round Head		854-2	2	#4-40x5/8
24B	Nut, Hex		854-3	4	#4-40
25	Bracket, Microswitch		X30062	1	
25A	Screw, Hex Head		-	2	M6x20mm
25B	Nut, Hex		-	4	M6
26	Plate, Warning		X30066	1	
26A	Screw, Pan Head		X30065	4	M4x6mm

\*Fixed Bowl Guard used before S/N 7410525 (1 Phase) or 7450536 (3 Phase).

\*\*Removable Bowl Guard applies after S/N 7410524 (1 Phase) or 7450535 (3 Phase).

†Use after S/N 7410706 (1 Phase) or S/N 7450679 (3 Phase).

# SP40/SPC40 HUB ASSEMBLY COMPONENTS

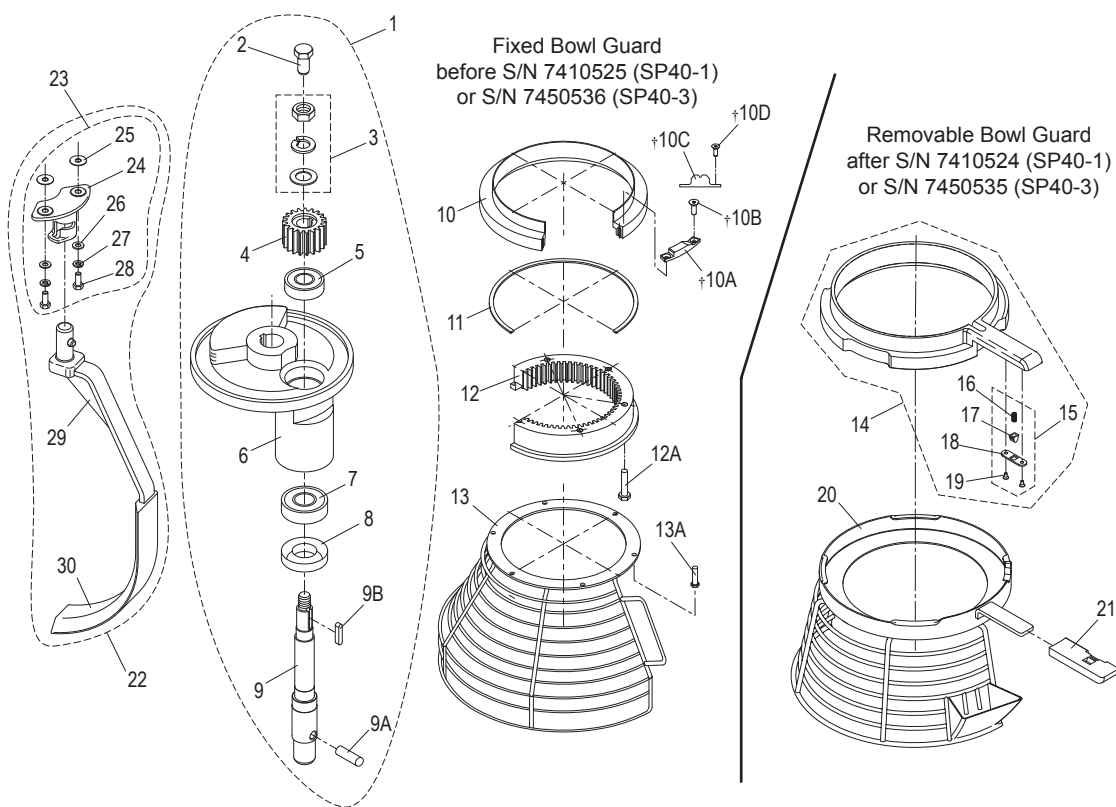


Item	Description	Part Number	Qty	Hardware
1	Attachment Hole Plug	X10007	1	
2	Attachment Hub (Includes Oil Seal & Bearing)	X40017 *X40017-DG	1	
2A	Gasket	-	1	
3	Oil Seal	X10089	1	
4	Bearing	X10075	1	
5	Thrust Washer	X30018-1	2	
6	Level Drive Gear (35T)	X40014	1	
7	Thumb Screw	X10005	1	1/2-13x3/4"
8	Cap Screw, Socket Head	-	4	M6x25mm

\*Use after S/N 7410706 (1 Phase) or S/N 7450679 (3 Phase).



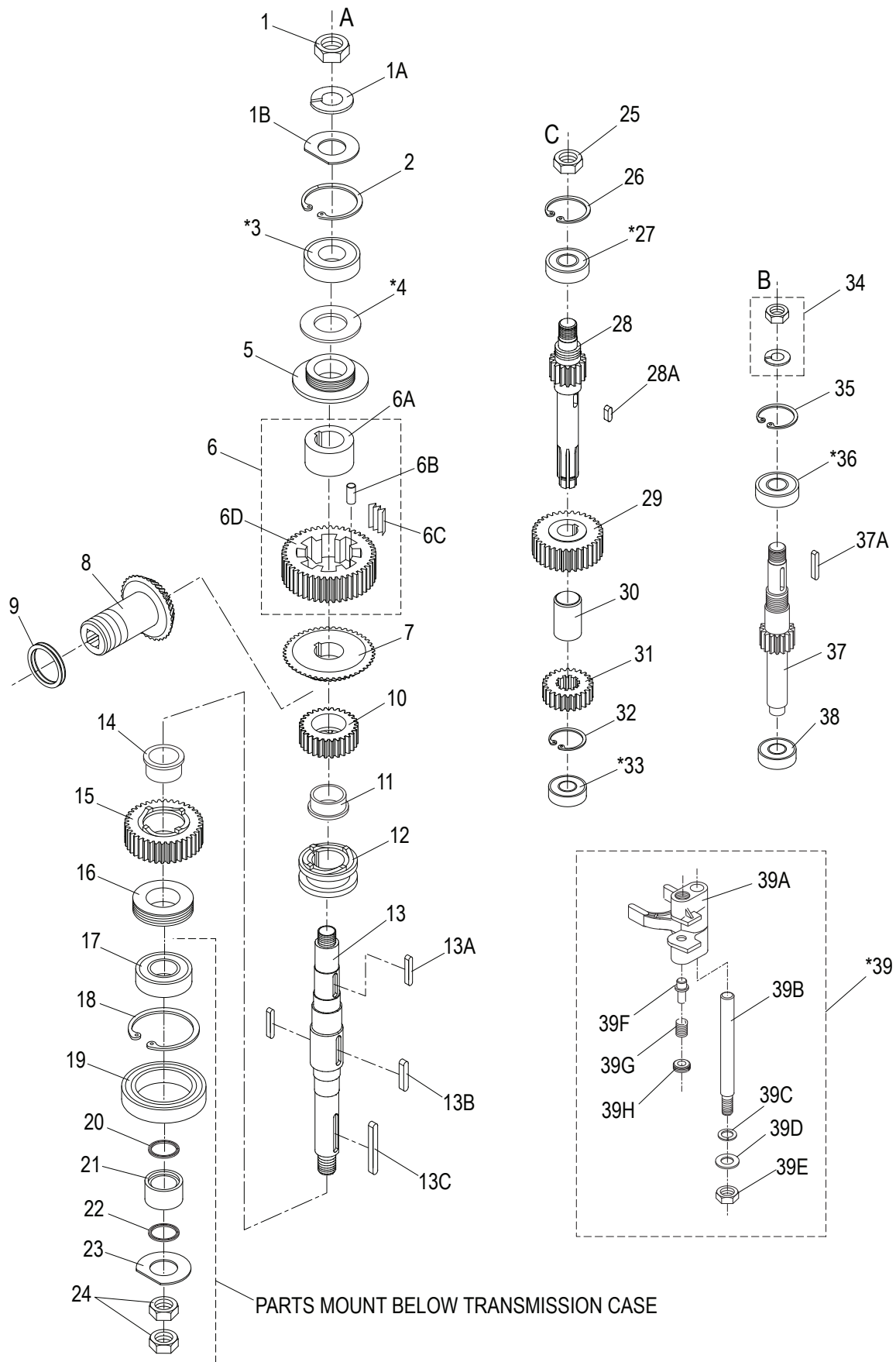
# SP40/SPC40 PLANETARY COMPONENTS



Item	Description	Part Number	Qty	Hardware	
1	Complete Planetary Assembly	X40019-28	1		
2	Screw (Old Style Shaft)	X40019	1	M10x24mm	
3	Nut, Stop & Washers	X30020	1	M14	
4	Pinion, Beater (21T)	X40021	1		
5	Ball Bearing	X10102	1		
6	Planetary Shaft Holder	X40023	1		
		*X40023-DG			
7	Ball Bearing	X30024	1		
8	Oil Seal	X40025	1		
9	Planetary Shaft, External Thread (New Style)	X40027	1		
	Planetary Shaft, Internal Thread (Old Style)	-	1		
9A	Dowel Pin	X30028	1	M12x17mm	
9B	Shaft Key	X40026	1	6x6x22mm	
10	Slide Sheath	X40090P	1		
10A	Touch Mass	X10041	2		
10B	Screw, Flat Hd - SS	X10042	2	M4x10mm	
10C	Safety Guard Spring Lock Fixture	X10135	1		
10D	Screw, Round Head	-	2	M4x10mm	
11	Gasket	X40091	1		
12	Ring Gear (67T)	X40092	1		
12A	Screw, Socket Head	X30099	6	M8x28mm	
13	Front Interlocking Guard Assy	X40093-94	1		
13A	Screw, Hex Head - (Locking Patch)	X10083	6	M5x8mm	
14	Plastic Slide Sheath, Removable Safety Guard	X400S2	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	X400S1	1		
21	Handle, Plastic - Removable Safety Guard	X30504	1		
22	Bowl Scraper Assembly	XXSCRCP-40	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	-	1		

\*Use after S/N 7410706 (1 Phase) or S/N 7450679 (3 Phase).

# SP40/SPC40 GEARBOX COMPONENTS

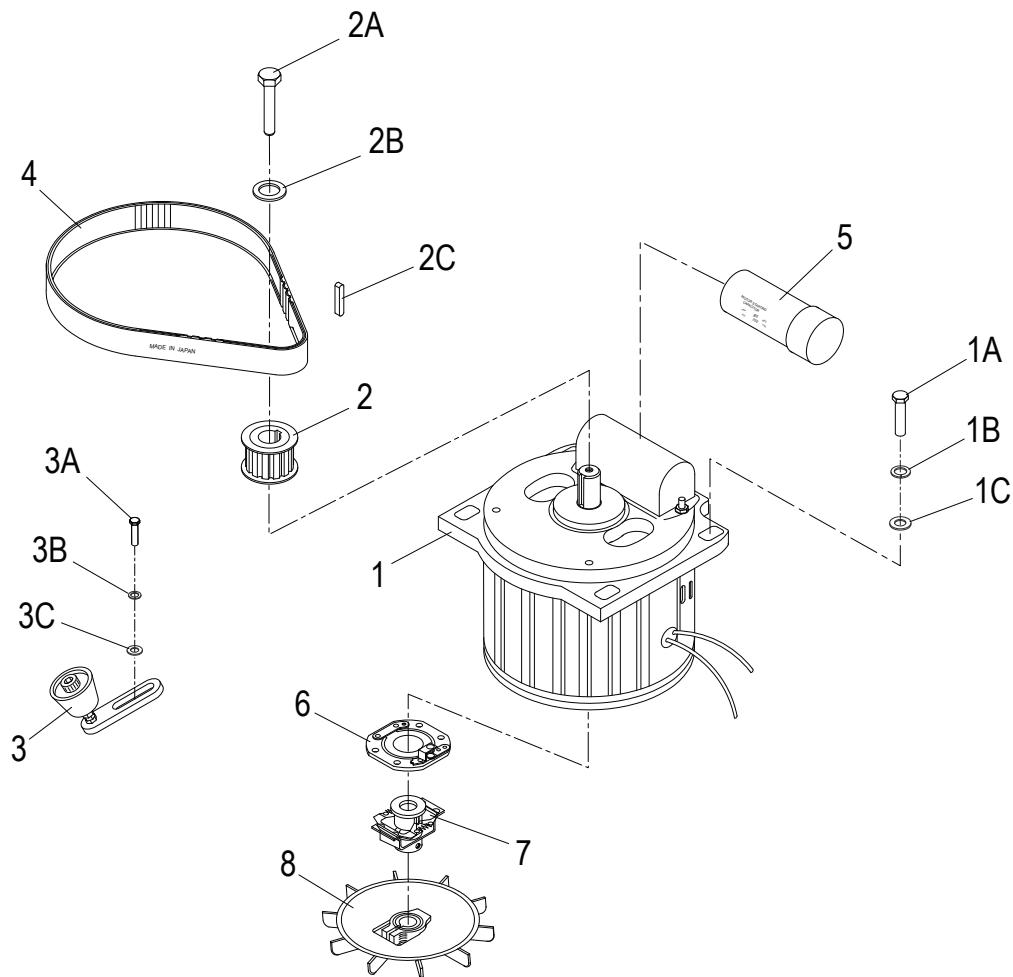


# SP40/SPC40 GEARBOX PARTS LIST

Item	Description	Part Number	Qty	Hardware
1	Nut, Jam	X40111	1	M24
1A	Washer, Split Lock	X40111A	1	M24
1B	Flat Washer, D Shape	-	1	M24
2	Retaining Ring	X30112	1	STW-52
*3	Ball Bearing	X30024	1	
*4	Shim	-	A/R	
5	Lead-In Oil Pad	X40113	1	
6	Slow Speed Gear Assembly	X40114-117	1	
6A	Bushing	-	1	
6B	Dowel Pin	-	1	
6C	Slice Spring	-	1	
6D	Gear, Slow Speed (52T)	-	1	
7	Gear, Bevel (52T)	X40118	1	
8	Hub Drive Gear (35T)	X40014	1	
9	Thrust Washer	X30018-1	1	
10	Gear, Clutch (36T) Old Style	X40120	1	
	Gear, Clutch (34T) New Style	-	1	
	Gear, Clutch (34T) New Style	*X40222	1	
11	Bushing, Clutch	X40119	1	
12	Sleeve, Clutch	X40133	1	
13	Drive Shaft	X40130	1	
13A	Shaft Key	X40121	1	8x8x44mm RR
13B	Shaft Key	X40132	2	8x8x40mm RR
13C	Shaft Key	X30131	1	10x10x57mm
14	Bushing, Clutch	X40119	1	
15	Gear, Clutch (45T)	X40122	1	
16	Washer, Stepped	X30124	1	
17	Ball Bearing	X40125	1	
18	Retaining Ring	X40126	1	STW-80
19	Oil Seal	X40128	1	
20	O-Ring	X30221	1	36x30x3mm
21	Guard, Oil Bushing	X40127	1	
22	O-Ring	X30221	1	36x30x3mm
23	D Washer, Flat	-	1	M20
24	Nut, Jam	X30111	2	M20
25	Stop Nut	X40152	1	M18
26	Retaining Ring	X25106	1	STW-52
*27	Ball Bearing (Qty May Vary)	X10012	1	
28	Transmission Shaft (13T) Old Style, Keyed	X40150-1	1	
	Transmission Shaft (13T) New Style, Splined	X40150-2	1	
28A	Shaft Key	X40149	1	8x8x22mm
29	Gear (29T) Old Style	X40148	1	
	Gear (31T) New Style	*X40223		
30	Bushing, Spacer	X40144	1	
31	Gear (20T) Old Style, Keyed	X40143-1	1	
	Gear (20T) New Style, Splined	X40143-2	1	
32	Retaining Ring	X40141	1	STW-24
*33	Ball Bearing (Qty May Vary)	X30140	1	
34	Nut, Jam & Split Lock Washer	X40082	1	M16
35	Retaining Ring	X30146	1	STW-42
*36	Ball Bearing (Qty May Vary)	X10012	2	
37	Shaft, Master (15T)	X40145	1	
	Shaft, Master (13T)	*X40224		
37A	Shaft Key	X40081	1	5x5x30mm
38	Ball Bearing	X30140	1	
39	Yoke, Shifter Assembly	X40134-139	1	
39A	Yoke, Shifter	-	1	
39B	Guide, Rod Shifter	-	1	
39C	Washer, Split Lock	-	1	M12
39D	Washer, Flat	-	1	M12
39E	Nut, Jam	-	1	M12
39F	Plunger, Yoke Shifter	-	1	
39G	Spring, Yoke Shifter	-	1	
39H	Spring, Retainer	-	1	

\*Use After Serial Numbers: 7410232 (1 Phase) & 7450266 (3 Phase)

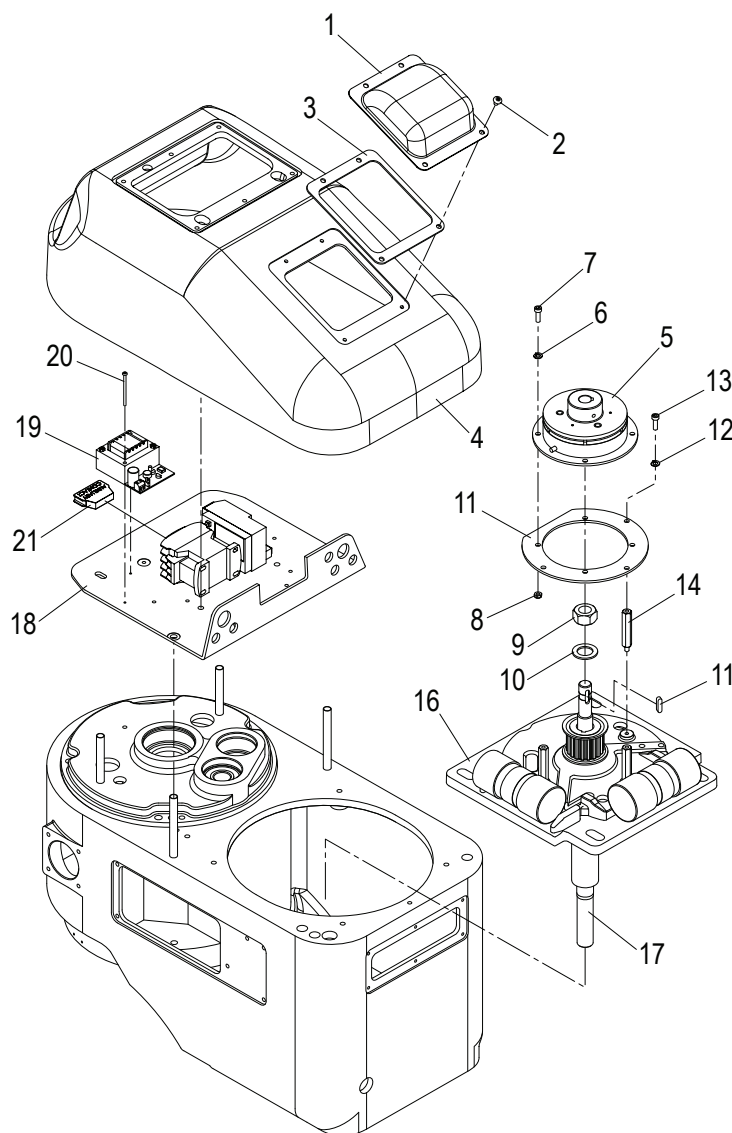
# SP40/SPC40 MOTOR COMPONENTS



Item	Description	Part Number	Qty	Hardware
1	Motor, SP40P 2HP 208/60/3 (SP40p-3)	X40068-1	1	
	Motor, SP40P 2HP 208/60/3 - Motor Brake (SPC40P-3)	X40068-1C		
	Motor, SP40P 2HP 220/60/1 (SP40P-1)	X40068-2		
	Motor, SP40P 2HP 220/60/1 - Motor Brake (SPC40P-1)	X40068-2C		
1A	Screw, Hex Head	X40069	4	M8x30mm
1B	Washer, Split Lock	X08102	4	M8
1C	Washer, Flat	X08076	4	M8
2	Wheel, Motor Cog (18T) 60HZ	X30071	1	
	Wheel, Motor Cog (20T) 50HZ	X00734		
2A	Screw, Hex Head	X40075	1	M8x20mm
2B	Washer, Flat	X30074	2	M8
2C	Shaft Key	X30073	1	5x5x25
3	Belt Tensioner	X30158	1	
3A	Screw, Hex Head	X40159	2	M8x24mm
3B	Washer, Split Lock	X08102	2	M8
3C	Washer, Flat	X08076	2	M8
4	Cogged Belt (S8M-880)	X40072-1	1	
	Cogged Belt (S8M-896)	X40072-2	1	
*5	Capacitor, Start 400MF	X30070-1	1	
	Capacitor, Start 600MF	X30070-1A		
	Capacitor, Run 50MF	X40070-2	1	
	Capacitor, Run 70MF	X60070-2		
6	Switch, Platinum	X40067	1	
7	Clutch	X40064	1	
8	Cooling Fan	X40061	1	

\*Replace Existing Parts With Same Electrical Rating.

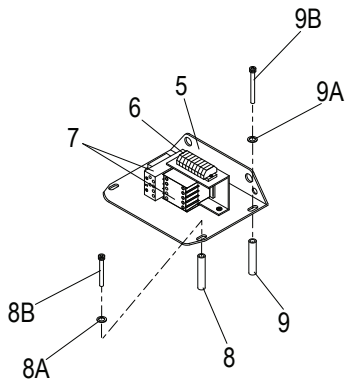
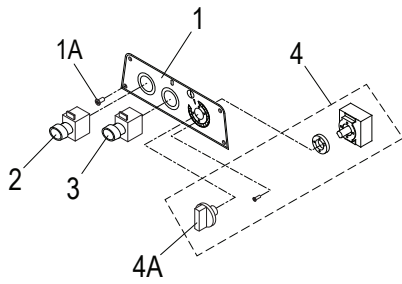
# SPC40 MOTOR BRAKE COMPONENTS



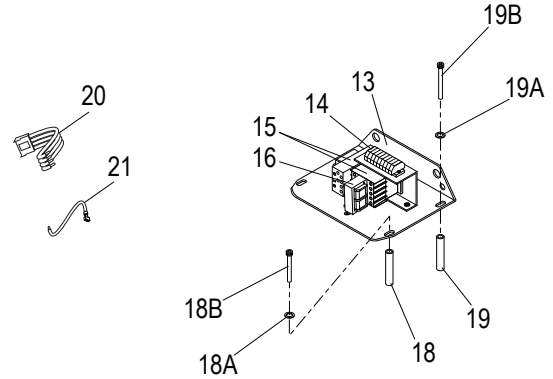
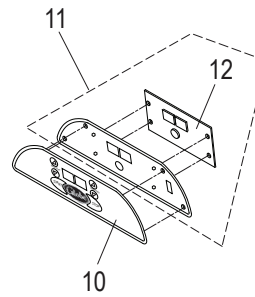
Item	Description	Part Number	Qty	Hardware
1	Cover, Motor Brake Components	X25500	1	
2	Screw, Button Head	-	4	M5x10mm
3	Gasket	X25500-1	1	
4	Transmission Cover, Motor Brake Version	X40004-1	1	
5	Motor Brake, Magnetic	X40501	1	
6	Washer, Split Lock	-	4	M5
7	Cap Screw, Socket Head	-	4	M5x12mm
8	Nut, Hex	-	4	M5
9	Nut, Hex	-	1	M18
10	Washer, Flat	-	1	M18
11	Brake Housing	X40500	1	
13	Screw, Socket Head	-	3	M5x10mm
14	Hex Standoff	X30502	3	
15	Shaft Key	-	1	5x5x20mm
*16	Top Cover, Motor	-	1	
*17	Motor Shaft	-	1	
18	Plate, Electronic Component Mounting	-	1	
19	Electronic Board, 220V/208V	X20512-1	1	
20	Screw, Round Head	-	2	M3x34mm
21	Auxiliary Contact Block	X25503	1	

\*Included With SPC Model Motor Assembly X40068-1C & X40068-2C (Page 9).

# SPC40 MANUAL AND DIGITAL TIMER



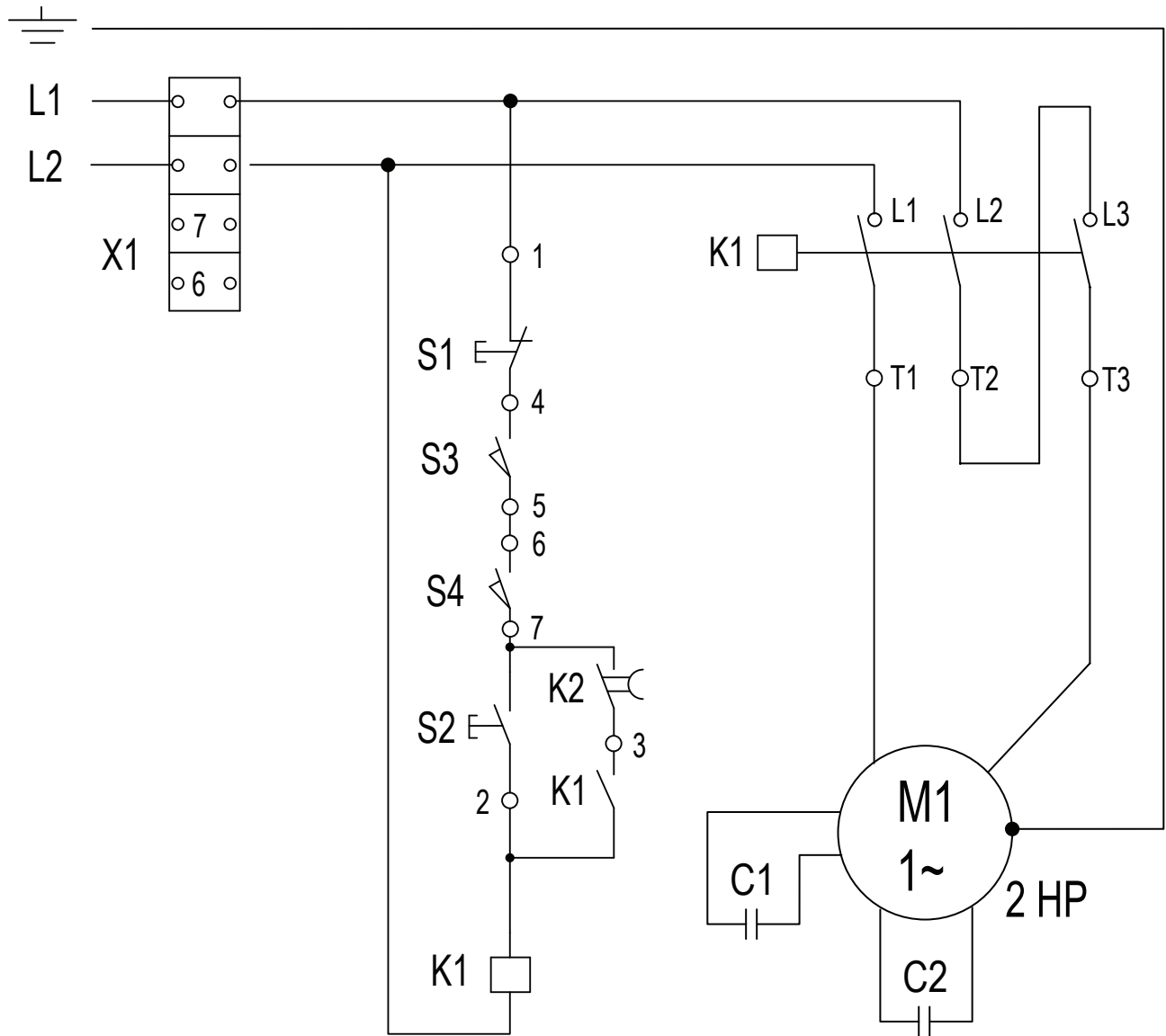
Manual Timer



Digital Timer

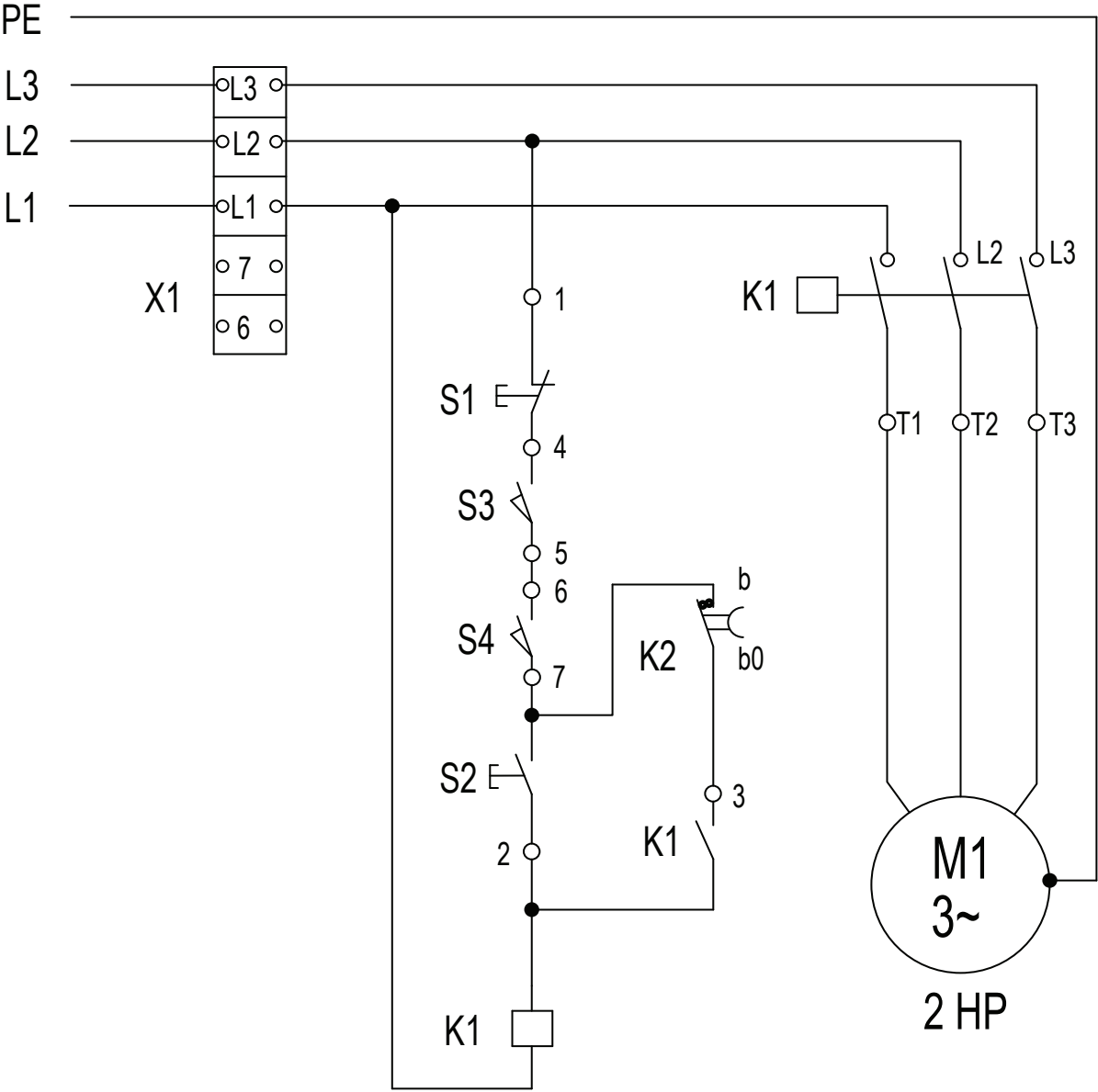
Item	Description	Part Number	Qty	Hardware
1	Control Panel	X40005	1	
1A	Screw, Truss Head	X30204	8	M4x10mm
1B	Gasket, Control Panel (Not Shown)	X40009	1	
2	Emergency Stop Button	X10050	1	
3	Start Button	X30007	1	
3A	Boot, Start/Stop Switch Button (Not Shown)	X30007-1	2	
3B	Bulb, Start Button (Not Shown)	X30007-1B	1	
4	Timer With Knob	X10137	1	
4A	Timer Knob	X10137-1	1	
5	Plate, Electronics Mounting	X40013	1	
6	Connecting Block Set	X40012	1	
	Connecting Block, 2C Gry	X40012-2G	7	
	Connecting Block, 4C Org	X40012-4R	1	
	Connecting Block End Cap	X40012-EC	1	
7	Overload Relay/Contactor Kit, SP40 2HP, 3PH	X40154-1	1	
	Overload Relay/Contactor Kit, SP40 2HP, 1PH	X40154-2		
8	Tube, Support - Front (67mm)	X40153	2	
8A	Washer, Flat	-	2	M8
8B	Cap Screw, Socket Head	X30086	2	M8x110mm
9	Tube, Support - Rear (89mm)	X40085	2	
9A	Washer, Flat	-	2	M8
9B	Screw, Hex Head	X30010	2	M8x88mm
10	Switch, Membrane	X00567	1	
11	Control Panel Assembly	X00564	1	
12	Control Board	X00568	1	
13	Plate, Electronics Mounting	X40013	1	
14	Connecting Block Set	X40012	1	
	Connecting Block, Gray (2G)	X40012-2G	6	
	Connecting Block, Orange (4R)	X40012-4R	2	
	Connecting Block End Cap	X40012-EC	1	
15	Overload Relay/Contactor Kit, SP40 2HP, 3PH	X40154-1	1	
	Overload Relay/Contactor Kit, SP40 2HP, 1PH	X40154-2		
16	Control Transformer Assembly	X00569	1	
17	Control Transformer Fuse (Not Shown)	X00570	1	
18	Tube, Support - Front (67mm)	X40153	2	
18A	Washer, Flat	-	2	M8
18B	Cap Screw, Socket Head	X30086	2	M8x108mm
19	Tube, Support - Rear (89mm)	X40085	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	

# SP40 ELECTRICAL DIAGRAM, 220V SINGLE PHASE



Item	Description	Qty.
C1	Capacitor, Start	1
C2	Capacitor, Run	1
S1	Emergency Stop Button	1
S2	Start Button	1
S3	Microswitch (Bowl Lift)	1
S4	Microswitch (Interlock Guard	1
K1	Contractor	1
K2	Timer	1
M1	Motor, 3HP Single Phase 330V	1

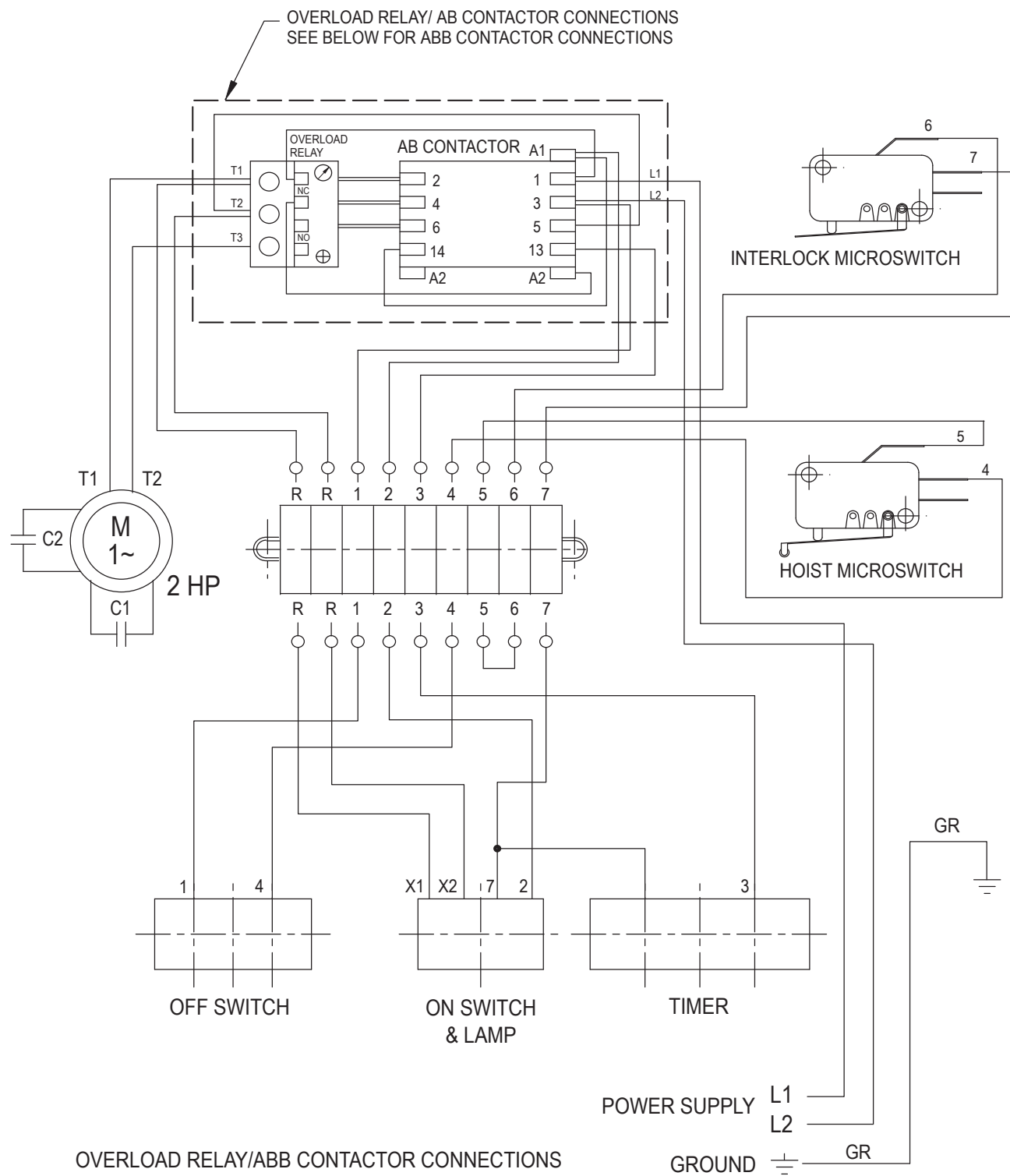
# SP40 ELECTRICAL DIAGRAM, 208V THREE PHASE



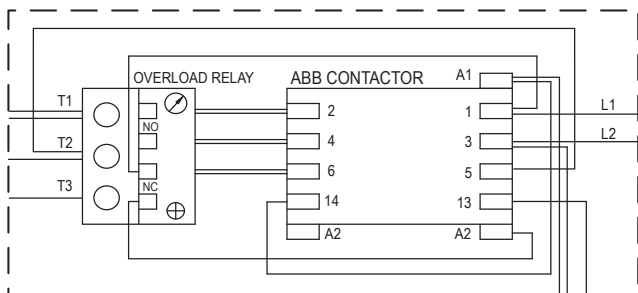
Item	Description	Qty.
S1	Emergency Stop Button	1
S2	Start Button	1
S3	Microswitch (Bowl Lift)	1
S4	Microswitch (Interlock Guard)	1
K1	Contractor	1
K2	Timer	1
M1	Motor, 2HP Three Phase 208V	1



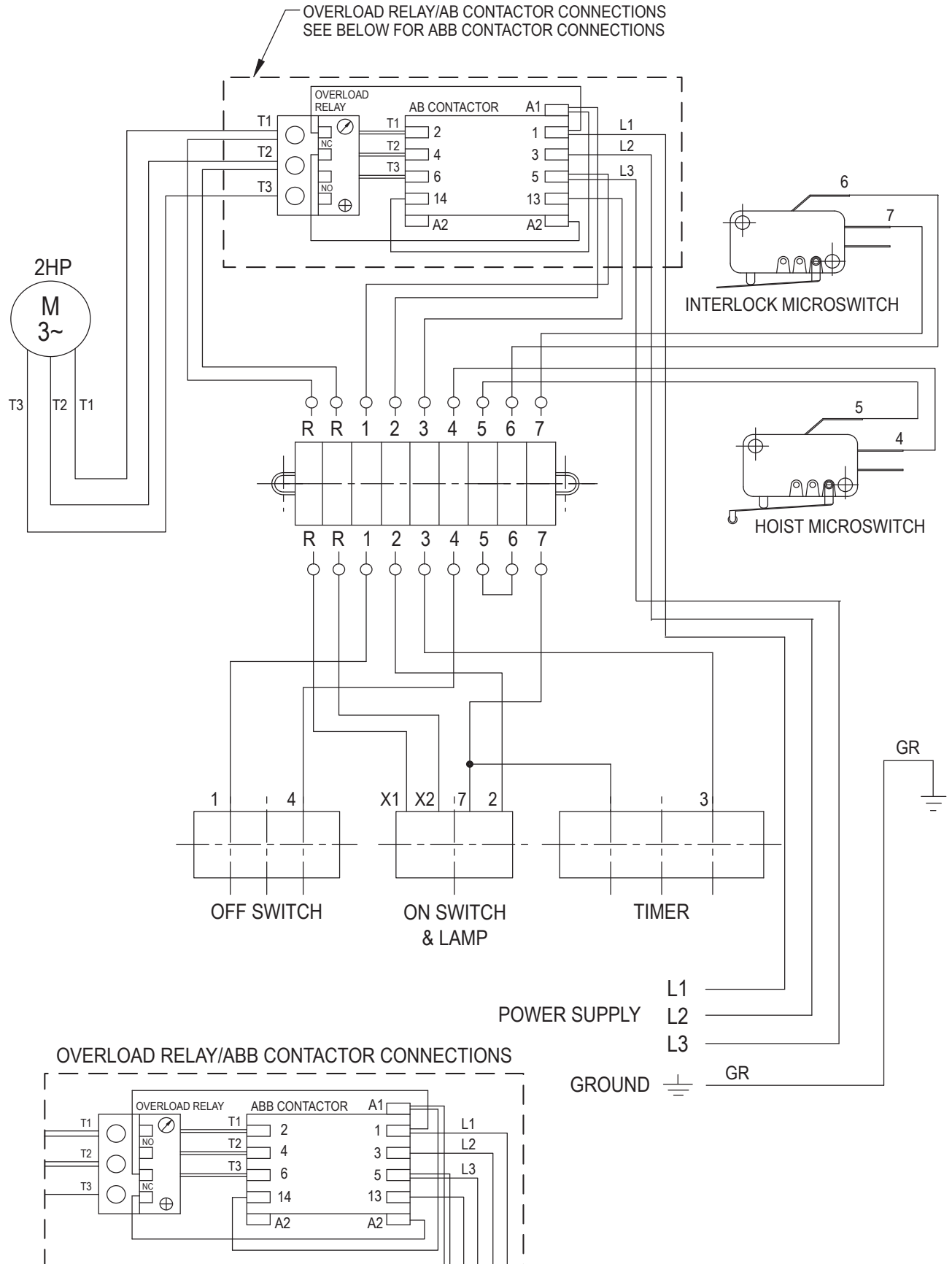
# SP40 WIRING DIAGRAM, 220V SINGLE PHASE



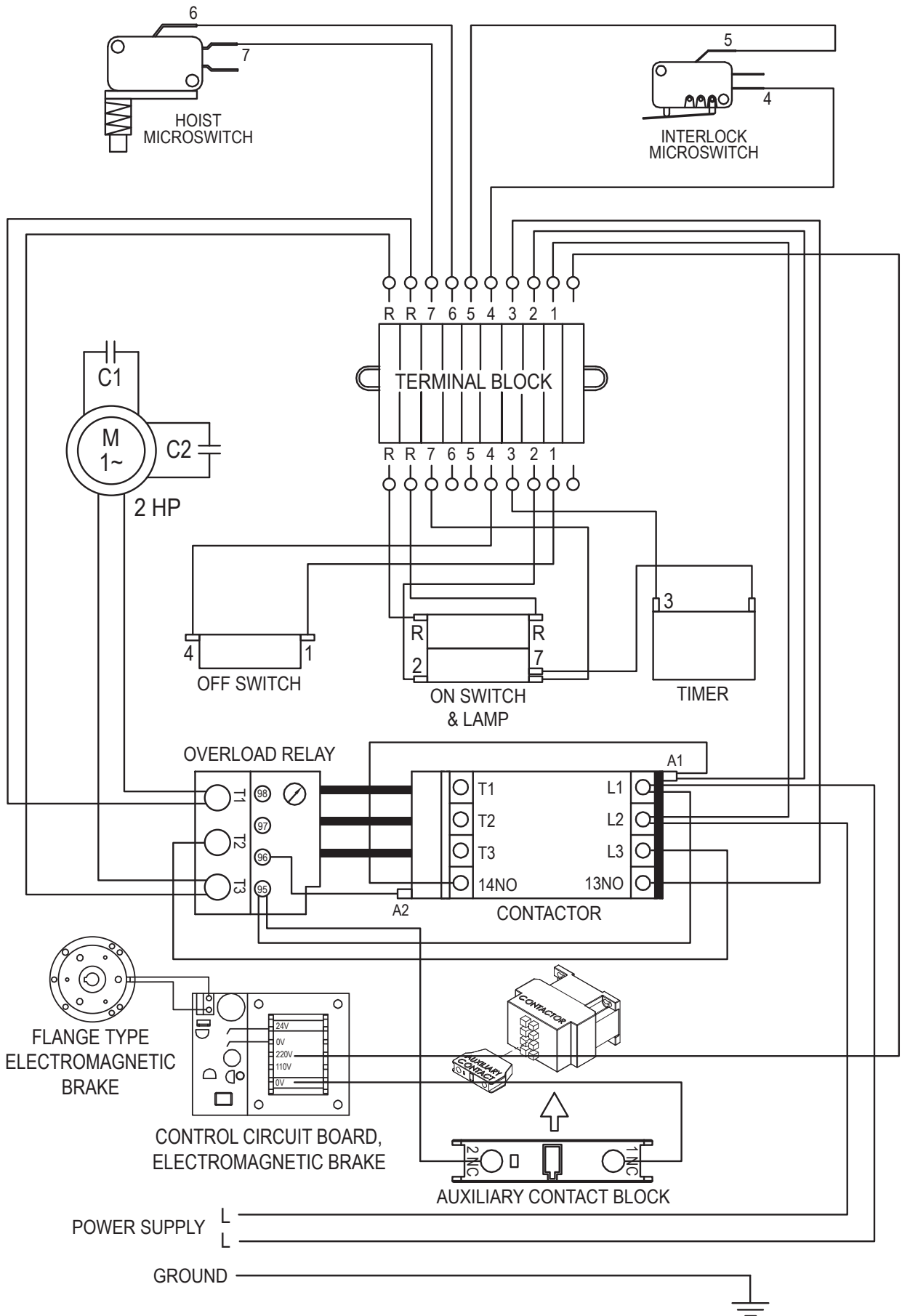
## OVERLOAD RELAY/ABB CONTACTOR CONNECTIONS



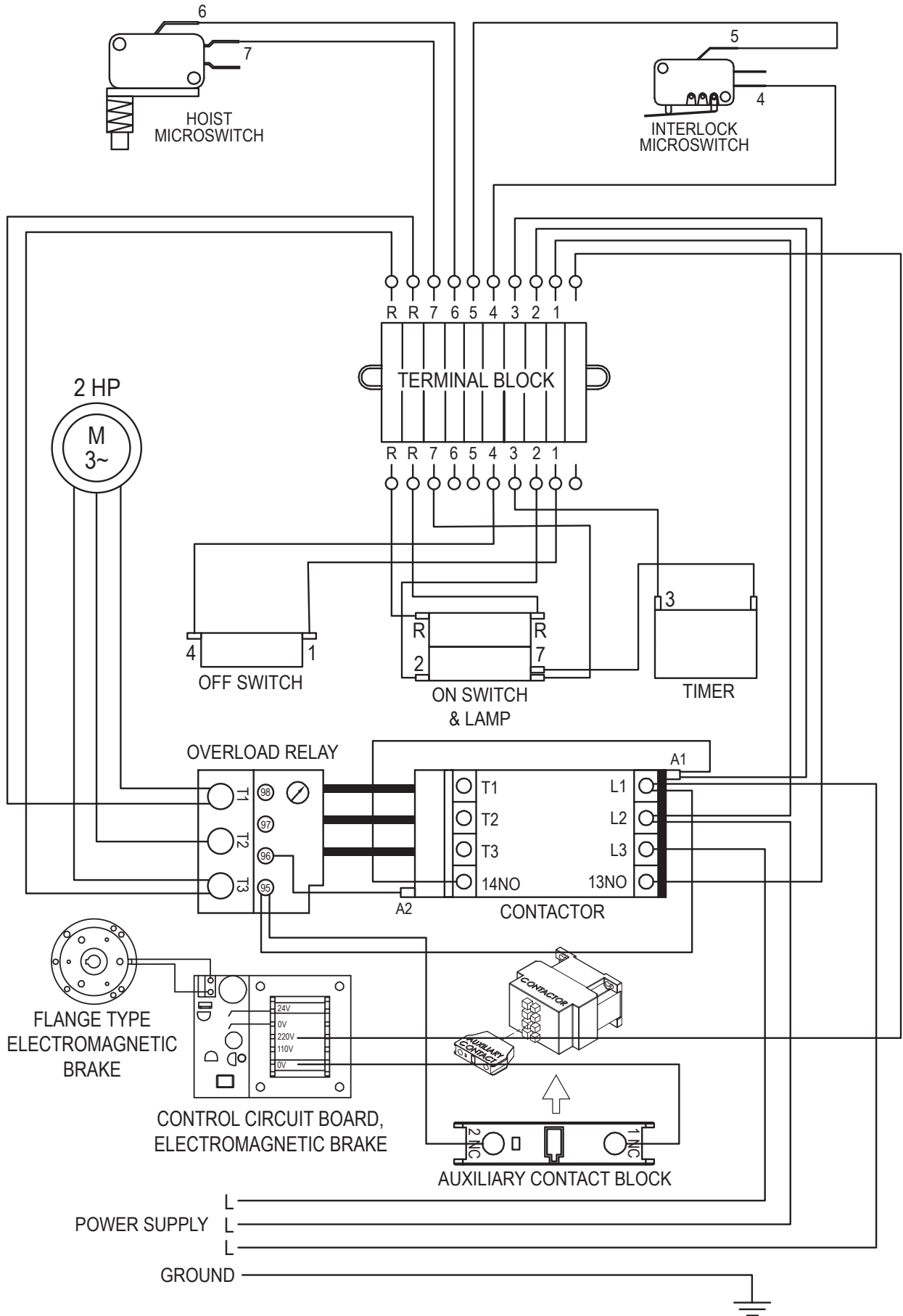
# SP40 WIRING DIAGRAM, 208V THREE PHASE



# SPC40 WIRING DIAGRAM, 220V SINGLE PHASE



# SPC40 WIRING DIAGRAM, 208V THREE PHASE



# SP/SPC40 WIRING DIAGRAM, 220V SINGLE PHASE

