

Parts Catalog



SP40

Mixer

Model: SP40

10/02/2019 Rev B

IMPORTANT!

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

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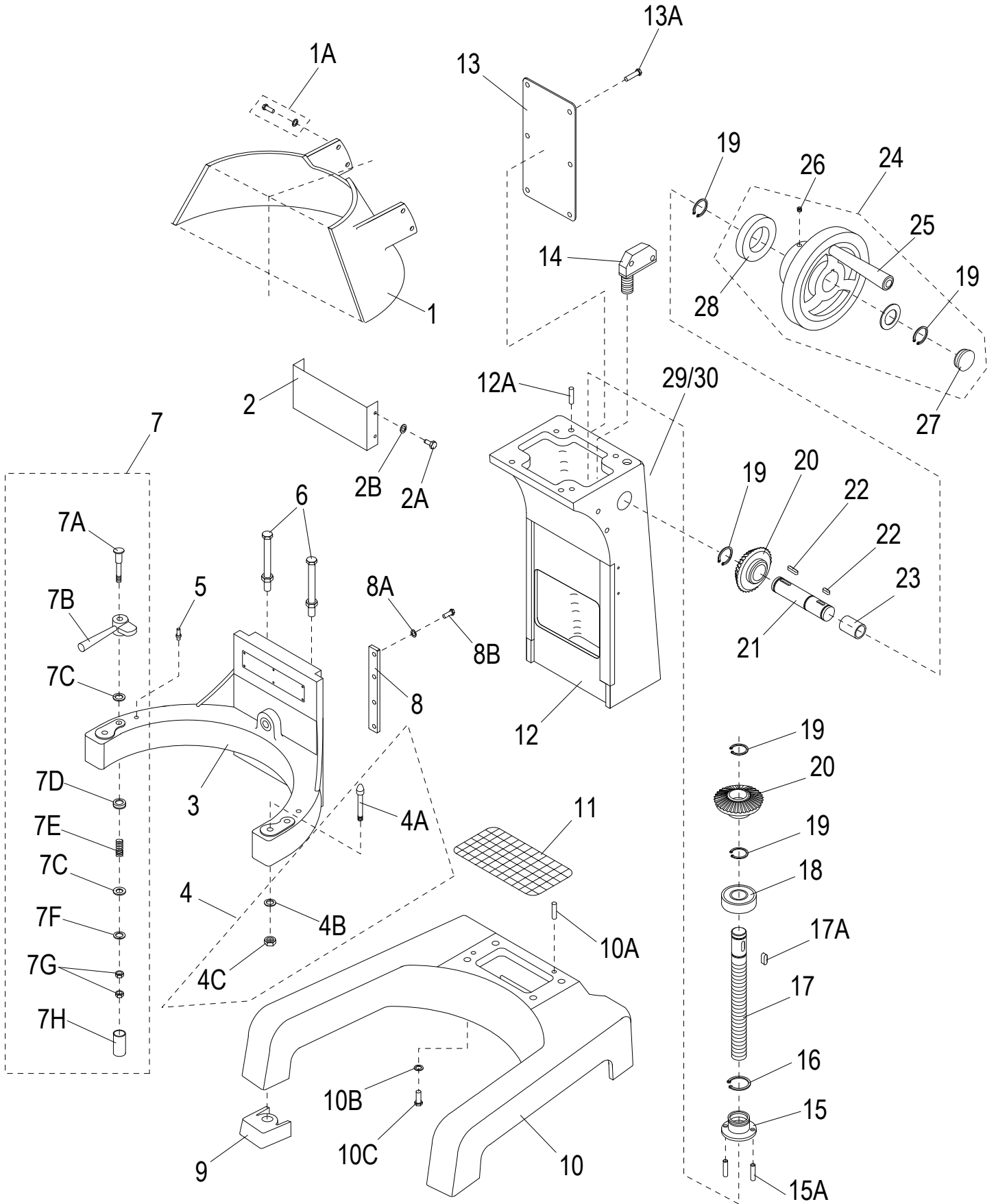
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SP40 Base Components





SP40 Base Components

Item	Part Number	Description	Qty	Serial Number
1	X40036	Guard, Rear	1	
1A	X30101	Hex Screw M8x20mm & Flat Washer	4	
2	X40102	Mixer Column Cover	1	
2A	X40056	Truss Hd Screw PHH M6-1.0x10mm, SS-18	3	
2B		Washer M6 Flat	3	
3	X40034	Bowl Cradle	1	
4	X40109	Dowel Screw Assembly	2	
4A		Dowel Screw	2	
4B	X01372	Lock Washer M12, ID-12.7, OD-21, TH-2.5mm, SS	2	
4C	X40110	Cap Nut, M12-1.75, OD-19mm, HT-22mm, Class 10, Zn	2	
5		Bowl Clamp Stop Pin	2	
6	X40106	Screw M10x54mm Hex Hd/Nut (Touch Shaft)	1	
7	X30033	Bowl Clamp Assembly (Set/2)	1	
7A	X30108	Bowl Clamp Hardware Kit	2	
7B	X30033-2	Bowl Clamp (Set/2, New Style)	1	
7C		Washer M12 Flat	4	
7D		Hardware Cap Retainer	2	
7E		Spring	2	
7F		Washer M10 Split Lock	2	
7G		Nut M12 Acorn	4	
7H		Hardware Cap	2	
8	X40035	Cradle Slide Guides	2	
8A		Washer M8 Flat	8	
8B	X30197	Ext. Hex Hd Screw M8-1.25x25mm, SS	8	
9	X40162-163	Front/Rear Rubber Feet (Set)	1	
10	X40038-DG	Mixer Base	1	
10A	X40040	Dowel Pin Ø8x16mm Column Locator	2	
10B		Washer M12 Flat	4	
10C		Screw M12x40mm Hex Hd	4	
11	X40037	Base Screen	1	
12	X40042	Mixer Column	1	
12A	X30178	Dowel Pin Ø8x16mm Head Locator	2	
13	X40055	Plate, Rear Cover	1	
13A	X40056	Truss Hd Screw PHH M6-1.0x10mm, SS-18	6	
14	X30051	Microswitch, Bowl Lift	1	
15	X30104	Screw Sleeve	1	
15A	X30105	Roll Pin Ø4x30mm	1	
16	X25145	Retaining STW-35 Ring	1	
17	X40041	Bowl Lift Screw	1	
17A	X20123	Key, Round Ends H-5xW-5xL-18mm	1	
18	X30043	Ball Bearing	1	
19		Ext. Retaining Ring, OD-25, Groove-23.9, Ring ID-23.2, TH-1.2mm, B.O.	5	
20	X30045	Oblique Gear (30T)	2	
21	X40047	Shaft, Hand Wheel	1	
22	X40073	Key H-5xW-5xL-20mm Round Ends	2	
23	X40050	Oilless Bearing	1	
24	X40053	Hand Wheel Crank With Handle, Plastic	1	
24	X40053M	Hand Wheel Crank With Handle, Metal	1	
25	X30053-1	Hand Wheel Crank Handle	1	
26		Set Screw M10x8mm Cup Pt. (Metal Wheel Only)	1	
27		Hand Wheel Cap	1	
28		Spacer (50m mod x 25.3mm Id x 10.2mm)	1	
29	X91014	Label, Hazardous Voltage (Not Shown)	1	



SP40 Base Components

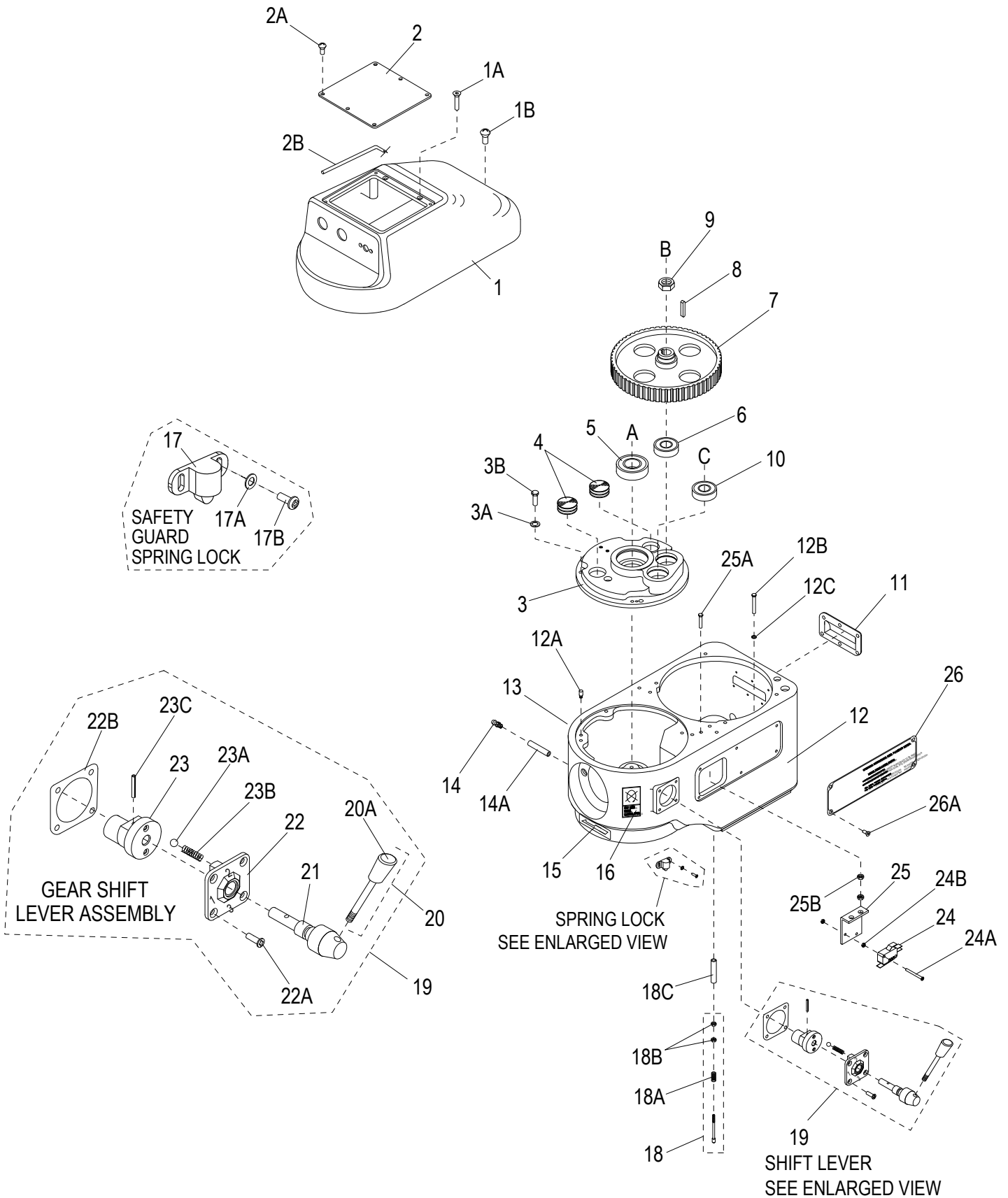
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30	X91011	Label, Caution - 3 Phase (Not Shown)	1	



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SP40 Head Components





SP40 Head Components

Item	Part Number	Description	Qty	Serial Number
1	X40004-DG	Cover, Transmission	1	
1A	X30207	Flat Hd Screw-Socket M8-1.25x108mm, B.O.	2	
1B	X30220	Flat Hd Screw-Socket M6-1.0x90mm, B.O.	1	
2	X40002	Cover, Switch Box	1	
2A	X40056	Truss Hd Screw PHH M6-1.0x10mm, SS-18	6	
2B	X40003	Gasket, Switch Box	1	
3	X40077	Cover, Gear Housing	1	
3A	X30198	Lock Washer M8, ID-8.5mm, OD-12.7mm, TH-2mm	4	
3B	X30197	Ext. Hex Hd Screw M8-1.25x25mm, SS	4	
4	X10073	Oil Plug	2	
5	X30024	Ball Bearing	1	
6	X10012	Ball Bearing	1	
7	X60080	Wheel, Main Cog (97T)	1	
8	X40081	Key H-5xW-5xL-12mm Round Ends	1	
9	X40082	Thin Hex Nut M18-1.5, OD-27, Thick-9mm, CLASS 04, Zn	1	
10	X10012	Ball Bearing	1	
11	X30076	Plate, Ventilation	1	
12	X40087	Transmission Case, Fixed Bowl Guard (1 Phase)	1	->7410525
12	X40087-1	Transmission Case, Removable Bowl Guard (1 Phase)	1	7410524 ->
12	X40087	Transmission Case, Fixed Bowl Guard (3 Phase)	1	->7450536
12	X40087-1	Transmission Case, Removable Bowl Guard (3 Phase)	1	7450535 ->
12A		Pin, Locating	2	
13	X91009	Label, Lubricate	1	
14	X10900	Grease Fitting	1	
14A	X10217	Grease Tube	1	
15	X91012	Label, Arrow	1	
16	X91010	Label, Stop To Chg Gears	1	
17	X10134	Safety Guard Spring Lock	1	
17A		Washer M3 Flat	2	
17B	X10134B	Round Hd Screw-PHH M3-0.5x8mm, SS-18	2	
18	X40096	Touch Shaft Assy, Brass	1	
18	X30096N	Touch Shaft, Nylon	1	
18A	X30095	Spring	1	
18B	X30186	Hex Nut M5-0.8 OD-8, TH-4mm, Zinc	2	
18C	X40187	Tube	1	
19	X40057-60	Gear Shift Lever Assembly	1	
20	X40057	Gear Shift Lever With Knob	1	
20A	X30057-1	Knob, Gear Shift	1	
21		Shaft	1	
22		Cover	1	
22A	X30179	Flat Hd Screw-Socket M8-1.0x16mmHd, Zn	4	
22B	X30059-1	Gasket	1	
23		Shaft Bias	1	
23A		Roller	2	
23B		Spring	2	
23C		Roll Pin Ø5x28mm	1	
24	X10057	Microswitch, Interlock	1	
24A	854-2	Screw, Magnet Mounting	2	
24B	854-3	Nut, Magnet Mounting	4	
25	X30062	Bracket, Microswitch	1	
25A		Screw M6x20mm Hex Hd	2	
25B		Nut M6 Hex	4	
26	X30066	Plate, Warning	1	



SP40 Head Components

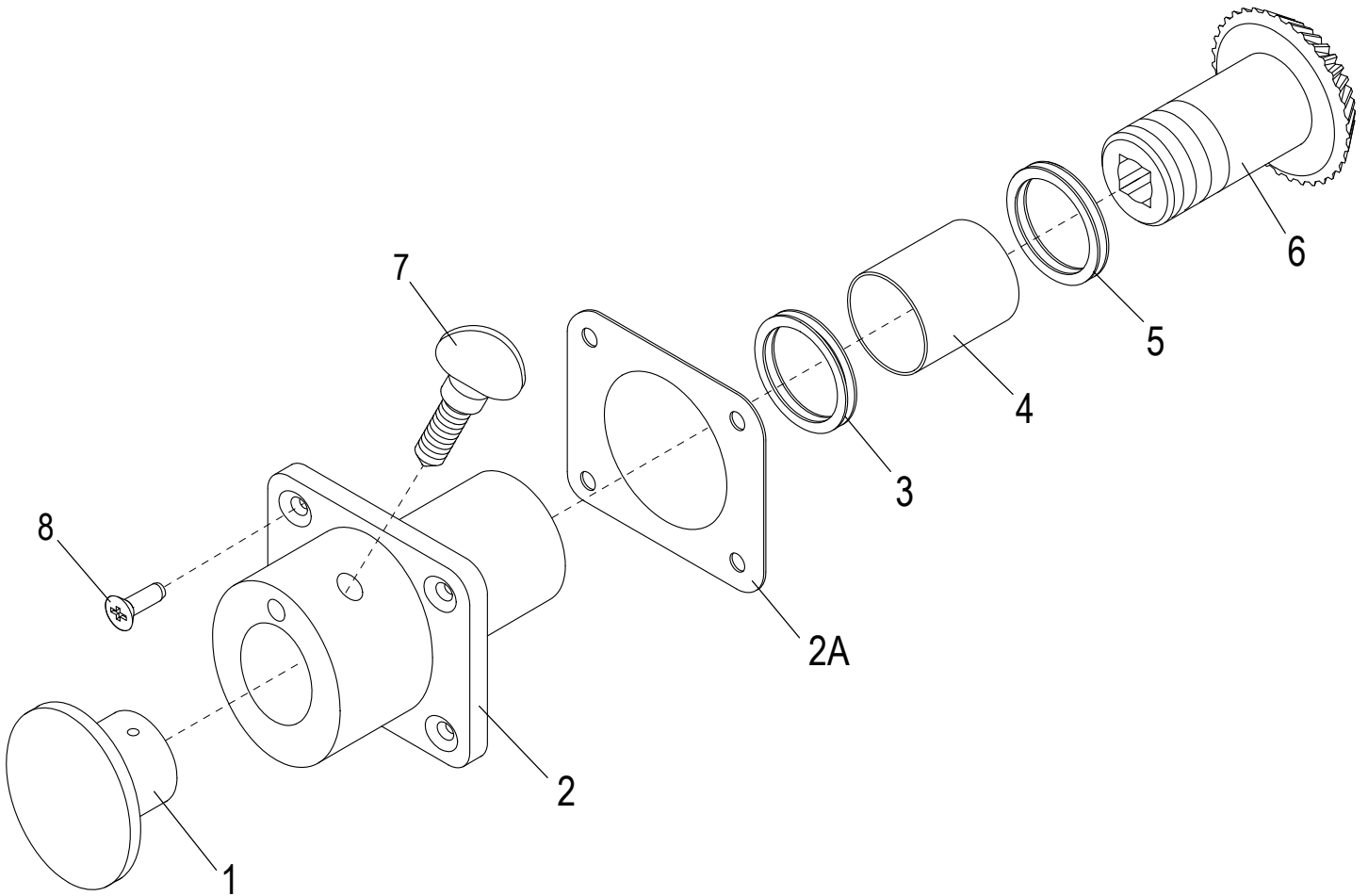
Item	Part Number	Description	Qty	Serial Number
26A	X30065	Truss Hd Screw-Phillips M5-0.8x10mm, SS	4	



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SP40 Hub Assembly Components



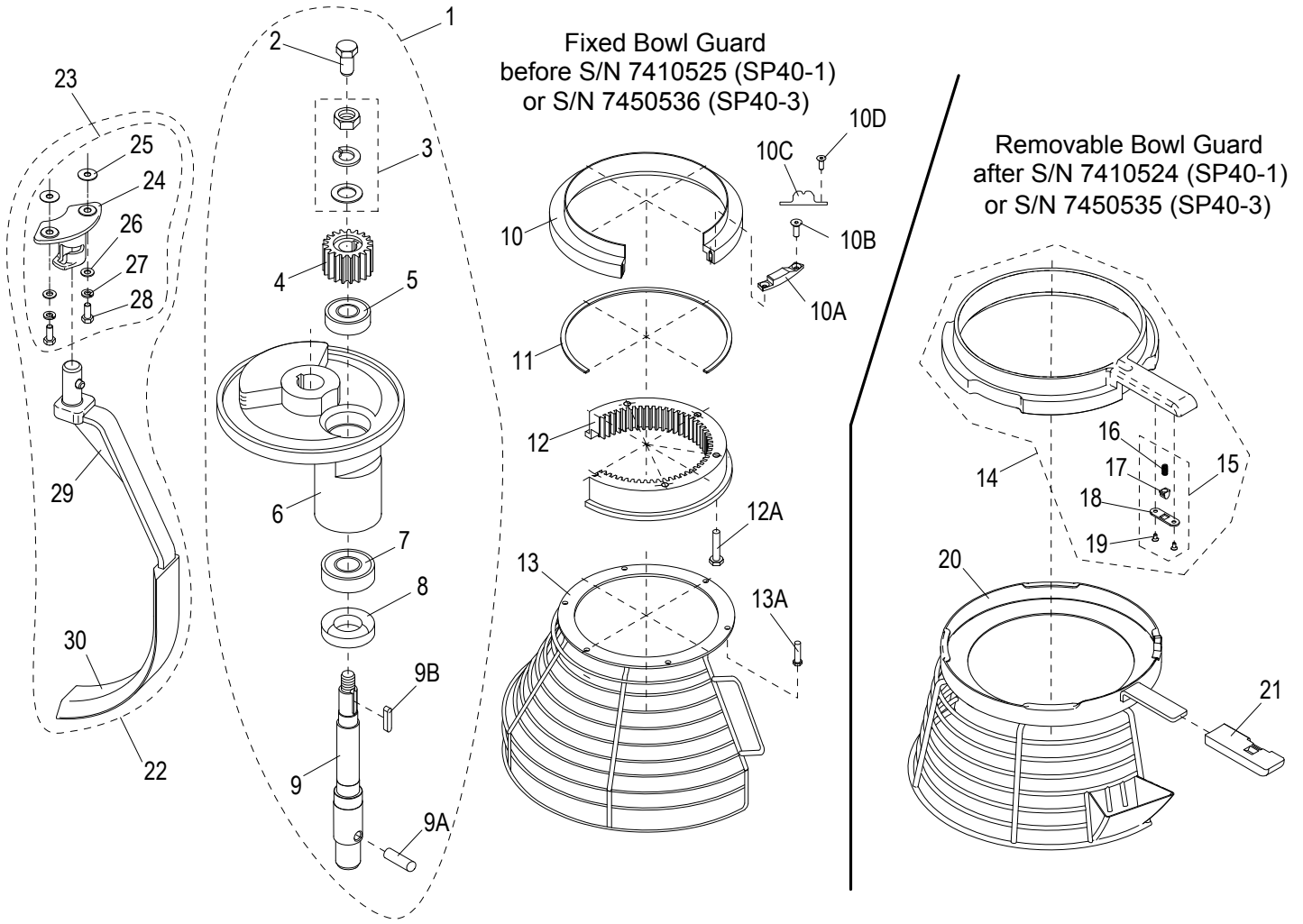


SP40 Hub Assembly Components

Item	Part Number	Description	Qty	Serial Number
1	X10007	Attachment Hole Plug	1	
2	X40017-DG	Attachment Hub	1	
2A		Gasket	1	
3	X10089	Oil 45x35x8mm Seal	1	
4	X10075	Bearing	1	
5	X30018-1	Thrust Washer ID-35mm, OD-55mm, TH-1mm	2	
6	X40014	Level Drive Gear (35T)	1	
7	X10005	Thumb Screw 1/2-13x3/4"	1	
8	X80B52	Socket Hd Cap Screw M6-1.0x20mm, B.O.	4	



SP40 Planetary Components



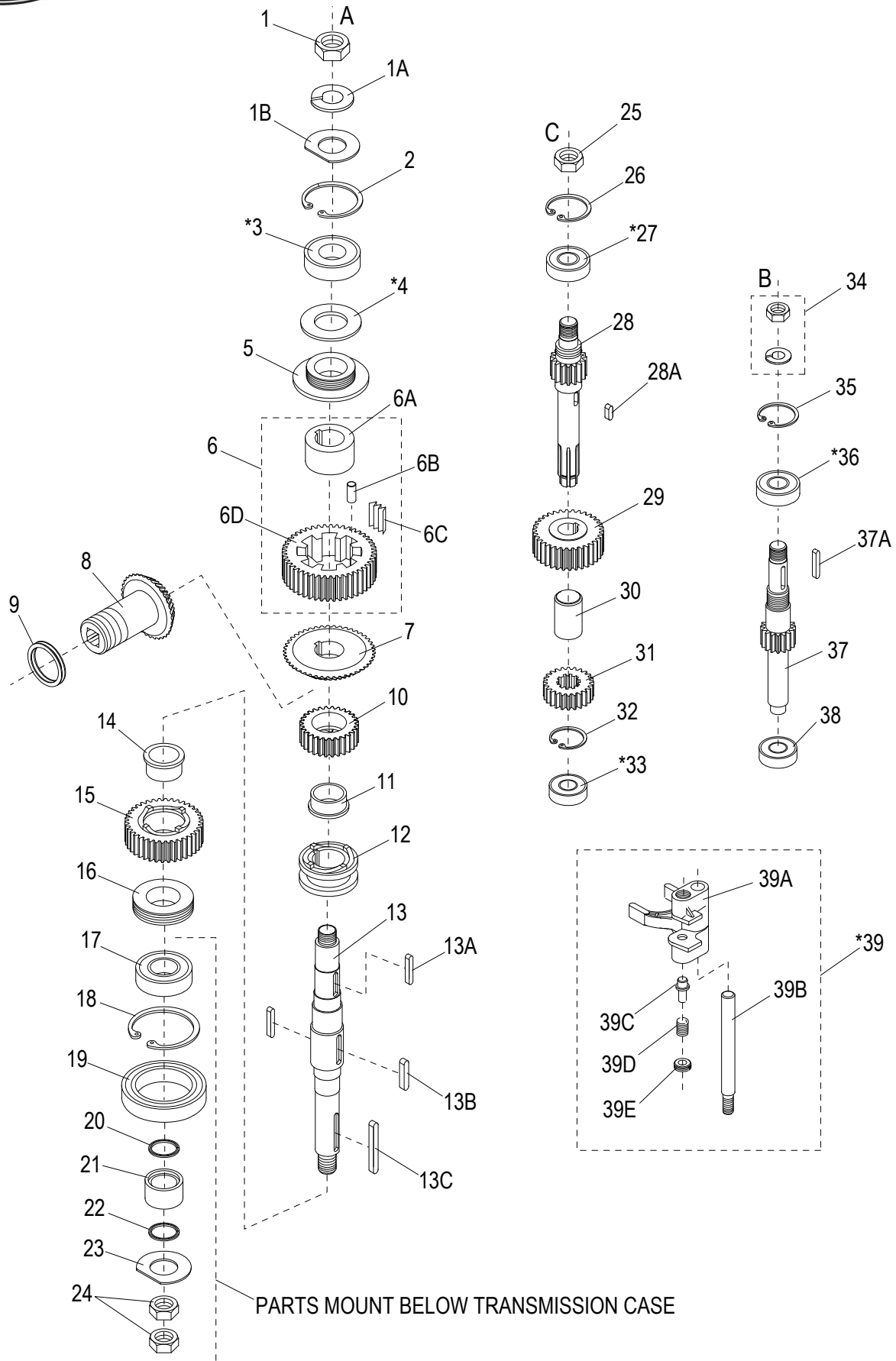


SP40 Planetary Components

Item	Part Number	Description	Qty	Serial Number
1	X40019-28	Complete Planetary Assembly	1	
2	X40019	Screw M10x24mm (Old Style Shaft)	1	
3	X30020	Nut M14 Stop & Washers	1	
4	X40021	Pinion, Beater (21T)	1	
5	X10102	Ball Bearing	1	
6	X40023-DG	Planetary Shaft Holder	1	
7	X30024	Ball Bearing	1	
8	X40025	Oil Seal	1	
9	X40027	Planetary Shaft, External Thread (New Style)	1	
9		Planetary Shaft, Internal Thread (Old Style)	1	
9A	X30028	Dowel Pin M12x17mm	1	
9B	X40026	Key H-7xH-7xL23mm Round Ends	1	
10	X40090	Slide Sheath, Metal	1 Phase or 3 Phase	1 ->7410525 or 7450536
10A	X10041	Touch Mass	1 Phase or 3 Phase	2 ->7410525 or 7450536
10B	X10042	Flat Hd Screw-Phillips M4-0.7x10mm, Zn	1 Phase or 3 Phase	2 ->7450536 or 7450536
10C	X10135	Safety Guard Spring Lock Fixture	1 Phase or 3 Phase	1 ->7410525 or 7450536
10D		Screw M4x10mm Round Hd	1 Phase or 3 Phase	2 ->7410525 or 7450536
11	X40091	Gasket	1 Phase or 3 Phase	1 ->7410525 or 7450536
12	X40092	Ring Gear (67T)	1 Phase or 3 Phase	1 ->7410525 or 7450536
12A	X30099	Socket Hd Cap Screw M8-1.25x35mm, B. O.	1 Phase or 3 Phase	6 ->7410525 or 7450536
13	X40093-94	Front Interlocking Guard Assy	1 Phase or 3 Phase	1 ->7410525 or 7450536
13A	X10083	Ext. Hex Hd Screw M5-0.8x10mm, SS	1 Phase or 3 Phase	6 ->7410525 or 7450536
14	X400S2	Plastic Slide Sheath, Removable Safety Guard	1 Phase or 3 Phase	1 7410524 or 7450535 ->
15	X200S3	Spring Plunger Hardware Kit	1 Phase or 3 Phase	1 7410524 or 7450535 ->
16		Spring	1 Phase or 3 Phase	1 7410524 or 7450535 ->
17		Plunger	1 Phase or 3 Phase	1 7410524 or 7450535 ->
18		Plate, Plunger Retention	1 Phase or 3 Phase	1 7410524 or 7450535 ->
19		Screw M3x8mm Flat Hd	1 Phase or 3 Phase	2 7410524 or 7450535 ->
20	X400S1	Bowl Guard Assembly, Stainless Steel	1 Phase or 3 Phase	1 7410524 or 7450535 ->
21	X30504	Handle, Plastic - Removable Safety Guard	1 Phase or 3 Phase	1 7410524 or 7450535 ->
22	XXSCR-40	Bowl Scraper Assembly	1 Phase or 3 Phase	1 7410619 or 7450580 ->
23	X02000	Scraper Mounting Kit	1 Phase or 3 Phase	1 7410619 or 7450580 ->
24		Washer	1 Phase or 3 Phase	2 7410619 or 7450580 ->
25		Scraper Mounting Hub	1 Phase or 3 Phase	1 7410619 or 7450580 ->
26		Washer M8 Flat	1 Phase or 3 Phase	2 7410619 or 7450580 ->
27		Washer M8 Split Lock	1 Phase or 3 Phase	2 7410619 or 7450580 ->
28		Screw M8x25mm Hex Hd	1 Phase or 3 Phase	2 7410619 or 7450580 ->
29		Scraper Arm	1 Phase or 3 Phase	1 7410619 or 7450580 ->
30		Bowl Scraper	1 Phase or 3 Phase	1 7410619 or 7450580 ->



SP40 Gearbox Components



PARTS MOUNT BELOW TRANSMISSION CASE

*PART CONFIGURATION MAY VARY.



SP40 Gearbox Components

Item	Part Number	Description	Qty	Serial Number
1	X40111	Nut M24 Jam	1	
1A	X40111A	Lock Washer M24, ID-25.5, OD-40, TH-5mm, Plain	1	
1B		Washer M24 Flat D Shape	1	
2	X30112	Retaining Ring STW-52	1	
3	X30024	Ball Bearing	1 Phase or 3 Phase	1 7410232 or 7450266 ->
4		Shim	1 Phase or 3 Phase	0 7410232 or 7450266 ->
5	X40113	Lead-In Oil Pad	1	
6	X40114-117	Slow Speed Gear Assembly	1	
6A		Bushing	1	
6B		Dowel Ø8x16mm Pin	1	
6C		Slice Spring	1	
6D		Gear, Slow Speed (52T)	1	
7	X40118	Gear, Bevel (52T)	1	
8	X40014	Level Drive Gear (35T)	1	
9	X30018-1	Thrust Washer ID-35mm, OD-55mm, TH-1mm	1	
10	X40120	Gear, Clutch (36T) Old Style	1	
10		Gear, Clutch (34T) New Style	1	
10	X40222	Gear, Clutch (34T) New Style	1 Phase or 3 Phase	1 7410232 or 7450266 ->
11	X40119	Bushing, Clutch	1	
12	X40133	Sleeve, Clutch	1	
13	X40130	Drive Shaft	1	
13A	X40121	Key H-8xW-8xL-45mm Round Ends	1	
13B	X40132	Shaft Key 8x8x40mm RR	2	
13C	X30131	Key H-10xW-10xL-55mm Round Ends	1	
14	X40119	Bushing, Clutch	1	
15	X40122	Gear, Clutch (45T)	1	
16	X30124	Heel	1	
17	X40125	Ball Bearing	1	
18	X40126	Ext. Retaining Ring ID-3, G-3.182, OD-3.325, TH-0.093" B.O.	1	
19	X40128	Oil Seal	1	
20	X30221	O-Ring 36x30x3mm	1	
21	X40127	Guard, Oil Bushing	1	
22	X30221	O-Ring 36x30x3mm	1	
23		Washer M20 Flat D Shape	1	
24	X30111	Thin Hex Nut M20-1.5, OD-29, HT-10mm, Zn	2	
25	X40152	Thin Hex Nut M18 OD-27, HT-9mm, Class 04, Zn	1	
26	X25106	Int. Retaining Ring ID-2, G-2.122, OD-2.210, TH-0.062" B.O.	1	
27	X10012	Ball Bearing	1 Phase or 3 Phase	1 7410232 or 7450266 ->
28	X40150-1	Transmission Shaft (13T) Old Style, Keyed	1	
28	X40150-2	Transmission Shaft (13T) New Style, Splined	1	
28A	X40149	Key H-8xW-8xL-24mm Round Ends	1	
29	X40148	Gear (29T) Old Style	1	
29	X40223	Gear (31T) New Style	1 Phase or 3 Phase	1 7410232 or 7450266 ->
30	X40144	Bushing, Spacer	1	
31	X40143-1	Gear (20T) Old Style, Keyed	1	
31	X40143-2	Gear (20T) New Style, Splined	1	
32	X40141	Retaining Ring STW-24	1	
33	X30140	Ball Bearing	1 Phase or 3 Phase	1 7410232 or 7450266 ->
34	X40082	Thin Hex Nut M18-1.5, OD-27, Thick-9mm, CLASS 04, Zn	1	
35	X30146	Int. Retaining Ring ID-1-3/4, Groove-1.858, OD-1.942, TH-0.062"	1	
36	X10012	Ball Bearing	1 Phase or 3 Phase	2 7410232 or 7450266 ->
37	X40145	Shaft, Master (15T)	1	
37	X40224	Shaft, Master (13T)	1 Phase or 3 Phase	1 7410232 or 7450266 ->



SP40 Gearbox Components

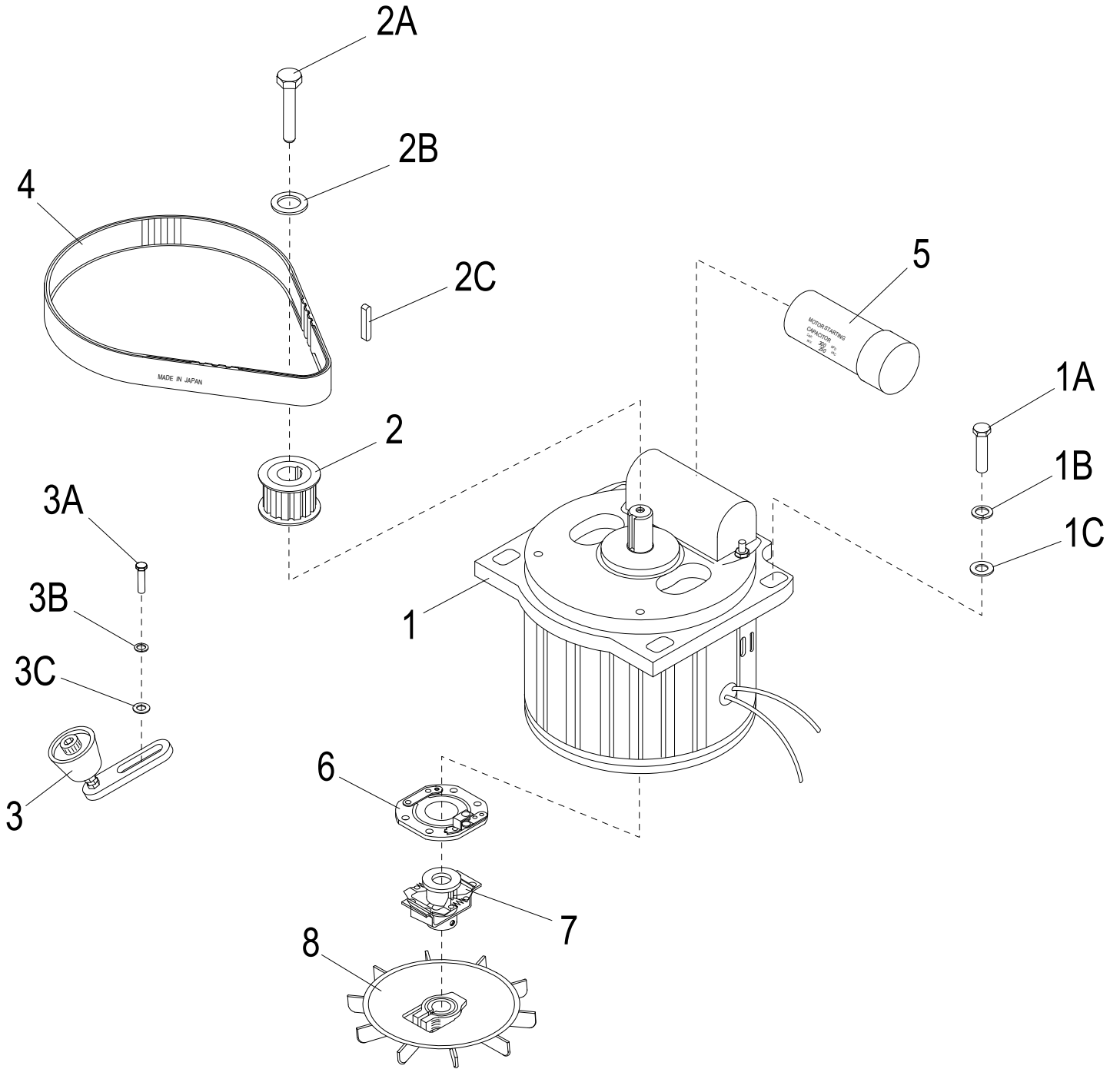
Item	Part Number	Description	Qty	Serial Number
37A	X40081	Key H-5xW-5xL-12mm Round Ends	1	
38	X30140	Ball Bearing	1	
39	X40134-139	Yoke, Shifter Assembly	1	
39A		Yoke, Shifter	1	
39B		Guide, Rod Shifter	1	
39C		Plunger, Yoke Shifter	2	
39D		Spring, Yoke Shifter	2	
39E		Spring, Retainer	2	



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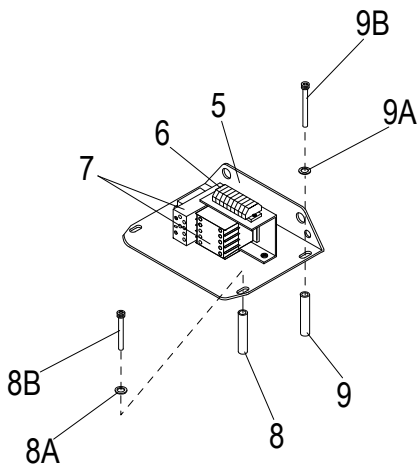
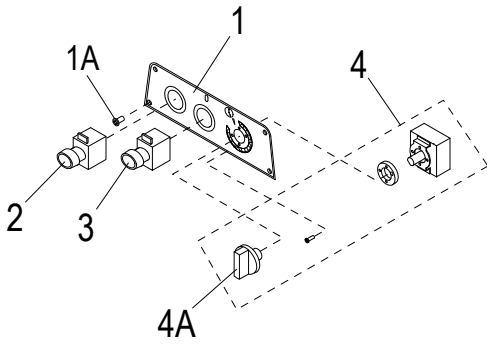
SP40 Motor Components



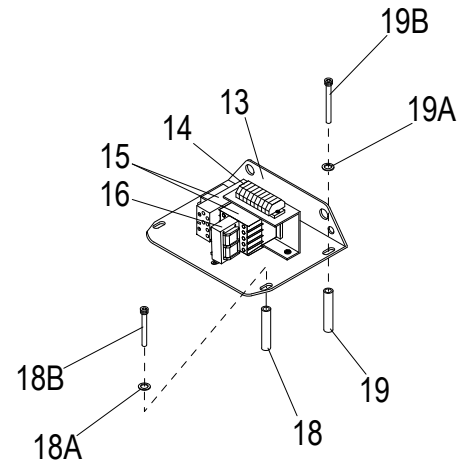
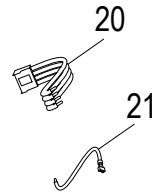
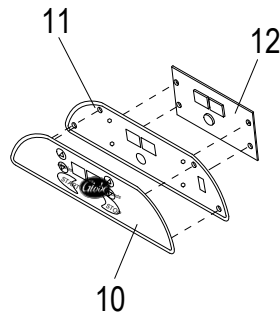


SP40 Motor Components

Item	Part Number	Description	Qty	Serial Number
1	X40068-1	Motor, SP40P 2HP 208/60/3 (SP40p-3)	3 Phase	1
1	X40068-2	Motor, SP40P 2HP 220/60/1 (SP40P-1)	1 Phase	1
1A	X40069	Screw M8x30mm Hex Hd		4
1B	X08102	Lock Washer M8 ID-8.5, OD-14.8, TH-2mm Zn		4
1C	X08076	Flat Washer, M8 ID-8.4mm, OD-16mm, TH-1.6mm, Zn		4
2	X30071	Wheel, Motor Cog (18T) 60HZ		1
2	X00734	Wheel, Motor Cog (20T) 50HZ		1
2A	X40075	Ext. Hex Hd Screw M8x20mm Zn		1
2B	X30074	Flat Washer M8, ID-8, OD-24, TH-2mm, Zn		2
2C	X30073	Shaft Key 5x5x25		1
3	X30158	Belt Tensioner		1
3A	X40159	Screw M8x24mm Hex Head		2
3B	X08102	Lock Washer M8 ID-8.5, OD-14.8, TH-2mm Zn		2
3C	X08076	Flat Washer, M8 ID-8.4mm, OD-16mm, TH-1.6mm, Zn		2
4	X40072-1	Cogged Belt (S8M-880)		1
4	X40072-2	Cogged Belt (S8M-896)		1
5	X30070-1	Capacitor, Start 400MF	Replace parts w/Same Elect. Rating	1
5	X30070-1A	Capacitor, Start 600MF	Replace parts w/Same Elect. Rating	1
5	X40070-2	Capacitor, Run 50MF	Replace parts w/Same Elect. Rating	1
5	X60070-2	Capacitor, Run 70Mf	Replace parts w/Same Elect. Rating	1
6	X10051	Switch, Platinum		1
7	X40064	Clutch		1
8	X40061	Cooling Fan		1



Manual Timer



Digital Timer

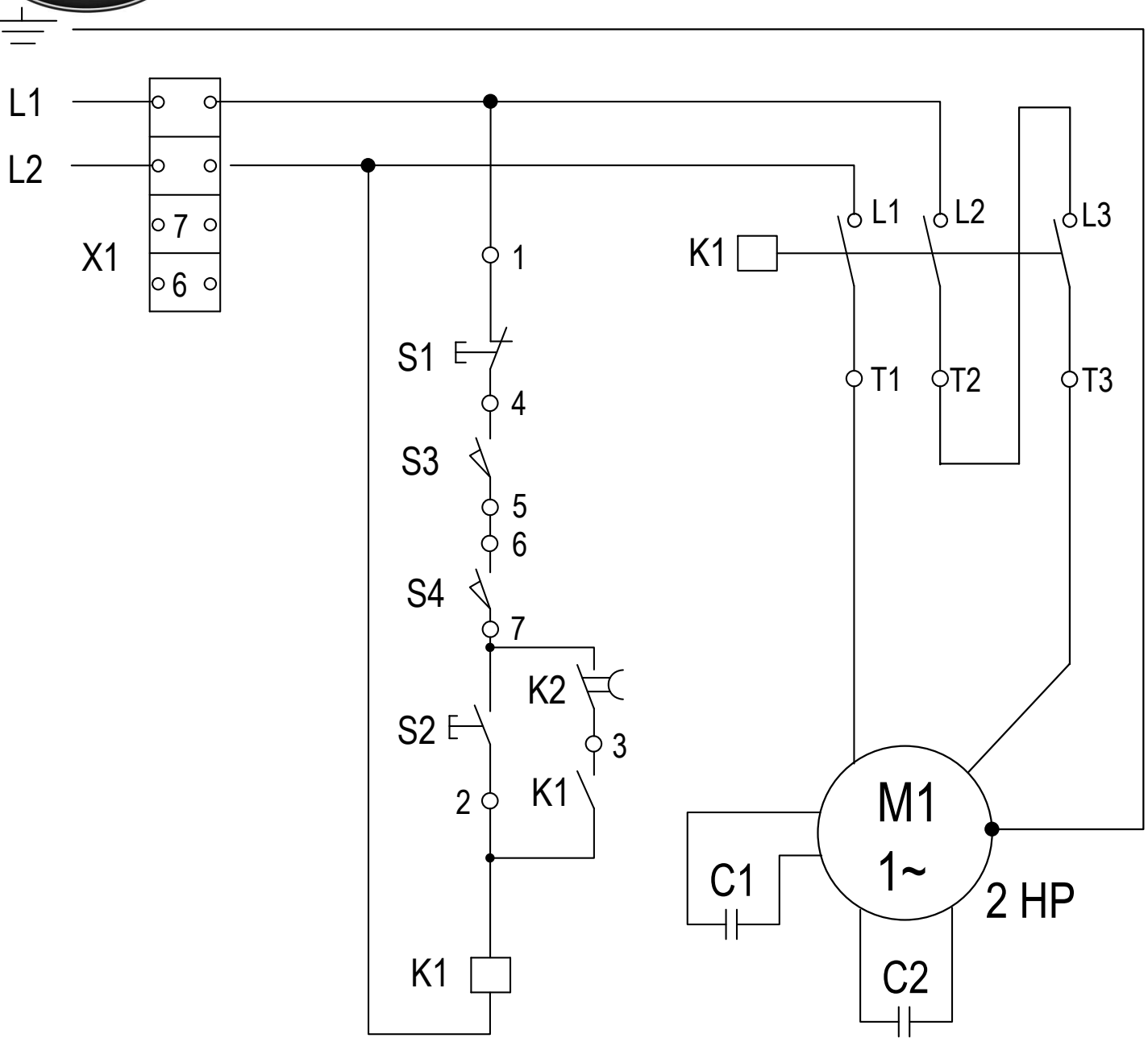


SP40 Manual and Digital Timer

Item	Part Number	Description	Qty	Serial Number
1	X40005	Control Panel	1	
1A	X30204	Screw M4x10mm Truss Hd	8	
1B	X40009	Gasket, Control Panel (Not Shown)	1	
2	X10050	Emergency Stop Button	1	
3	X30007	Start Button	1	
3A	X30007-1	Boot, Start/Stop Switch Button (Not Shown)	2	
3B	X30007-1B	Light Bulb, Start Button (Not Shown)	1	
4	X10137	Timer Assembly With Knob	1	
4A	X10137-1	Timer Knob	1	
5	X60013	Plate, Electronics Mounting	1	
6	X40012	Connecting Block Set	1	
6	X40012-EC	Connecting Block End Cap	1	
6	X40012-4R	Connecting Block, 4C Org	1	
6	X40012-2G	Connecting Block, 2C Gry	7	
7	X40154-1	Overload Relay/Contactor Kit, SP40 2HP 3 Phase	1	
7	X40154-2	Overload Relay/Contactor Kit, SP40 2HP 1 Phase	1	
8	X40153	Tube, Support - Front (67mm)	2	
8A		Washer M8 Flat	2	
8B	X30086	Socket Hd Cap Screw M8-1.25x100mm, B.O.	2	
9A		Washer M8 Flat	2	
9B	X30010	Socket Hd Cap Screw M8-1.25x90mm B.O.	2	
9	X40085	Tube, Support - Rear (89mm)	2	
10	X00567	Switch, Membrane	1	
11	X01338	Aluminum Panel	1	
12	X00568	Control Board	1	
13	X60013	Plate, Electronics Mounting	1	
14	X40012	Connecting Block Set	1	
14	X40012-2G	Connecting Block, 2C Gry	6	
14	X40012-4R	Connecting Block, 4C Org	2	
14	X40012-EC	Connecting Block End Cap	1	
15	X40154-1	Overload Relay/Contactor Kit, SP40 2HP 3 Phase	1	
15	X40154-2	Overload Relay/Contactor Kit, SP40 2HP 1 Phase	1	
16	X00569	Control Transformer Assembly	1	
17	X00570	Control Transformer Fuse (Not Shown)	1	
18	X40153	Tube, Support - Front (67mm)	2	
18A		Washer M8 Flat	2	
18B	X30086	Socket Hd Cap Screw M8-1.25x100mm, B.O.	2	
19	X40085	Tube, Support - Rear (89mm)	2	
19A		Washer M8 Flat	2	
19B	X30010	Socket Hd Cap Screw M8-1.25x90mm B.O.	2	
20	X00675	4 Wire Harness With Connector	1	
21	X00676	Single Wire With Quick Connect	2	



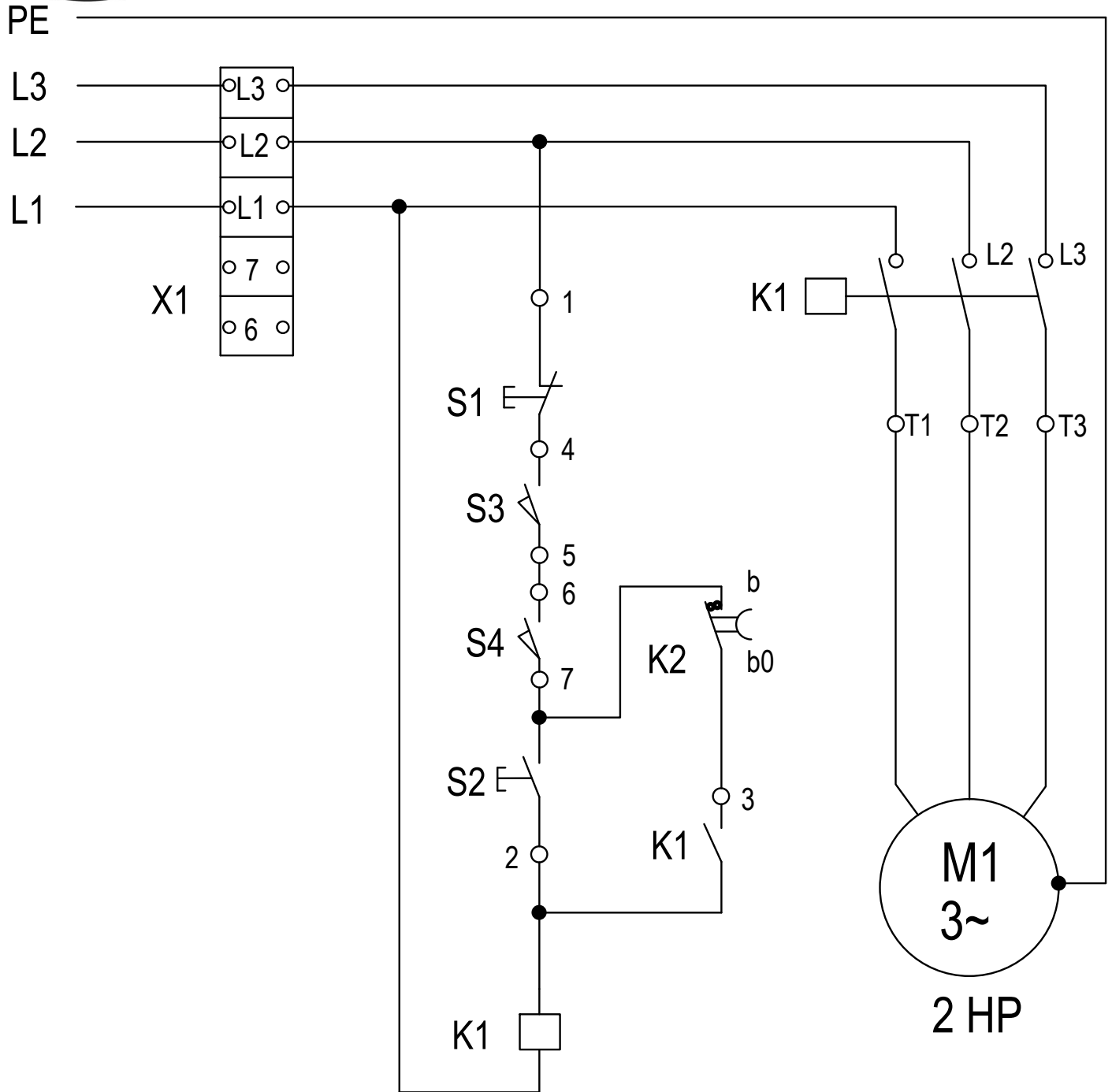
SP40 Electrical Diagram, 220V Single Phase



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



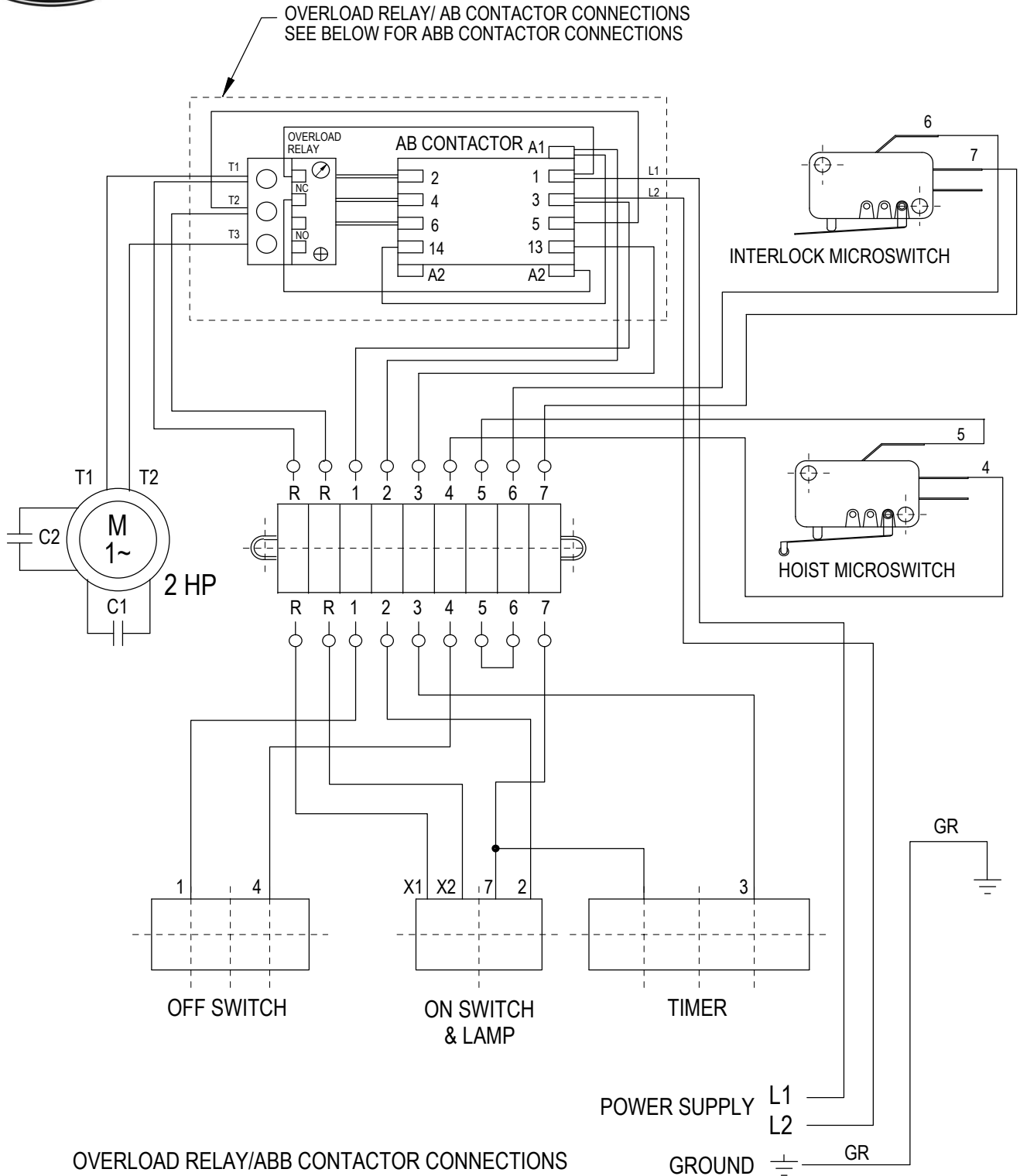
SP40 Electrical Diagram, 208V Three Phase



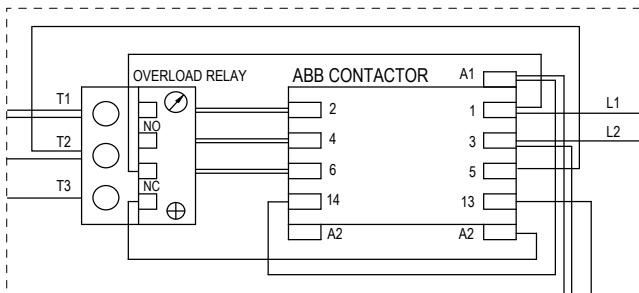
Item	Description	Qty.
S1	Emergency Stop Button	1
S2	Start Button	1
S3	Microswitch (Bowl Lift)	1
S4	Microswitch (Interlock Guard)	1
K1	Contractor	1
K2	Timer	1
M1	Motor, 2HP Three Phase 208V	1



SP40E Wiring Diagram, 220V Single Phase



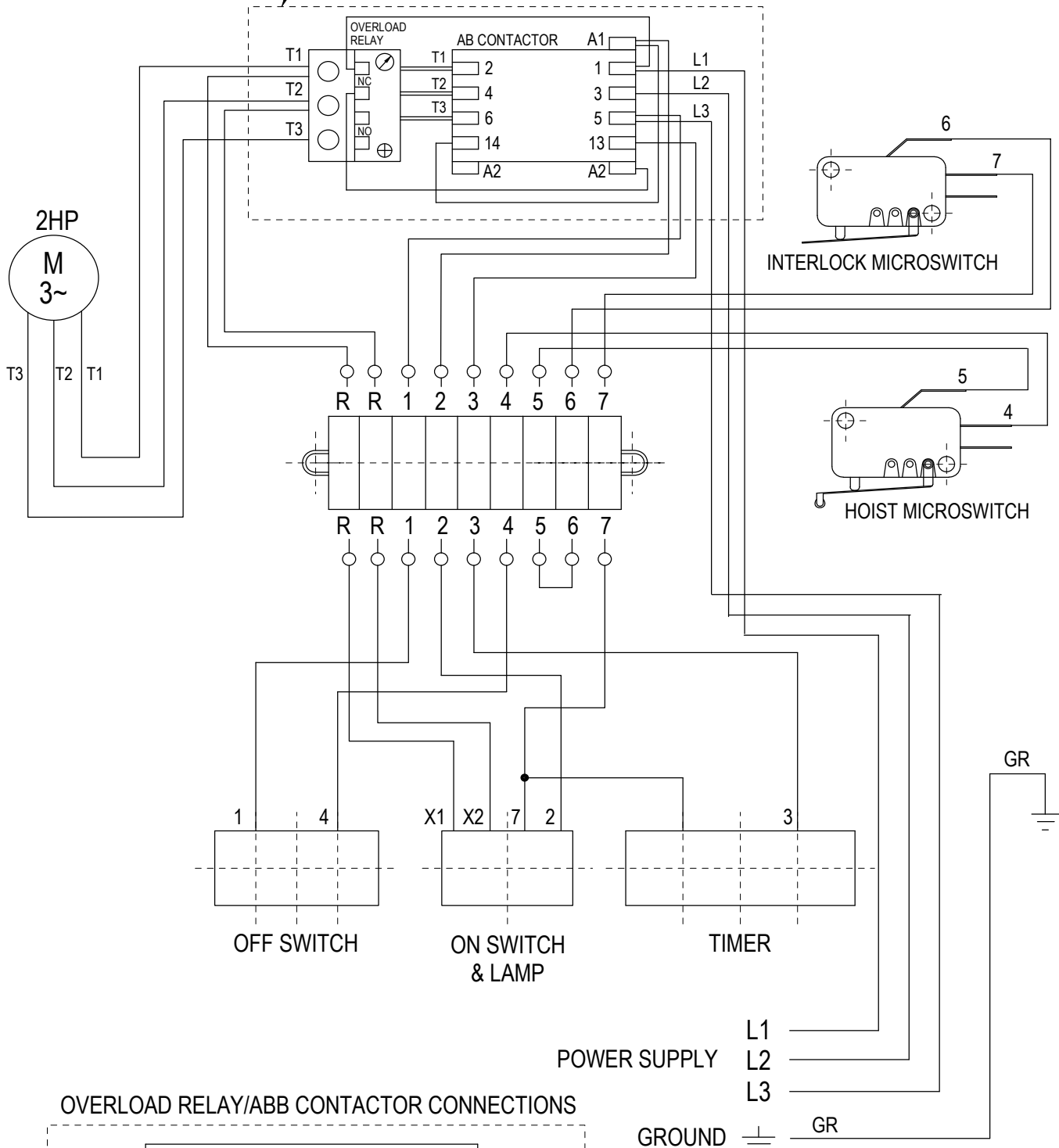
OVERLOAD RELAY/ABB CONTACTOR CONNECTIONS



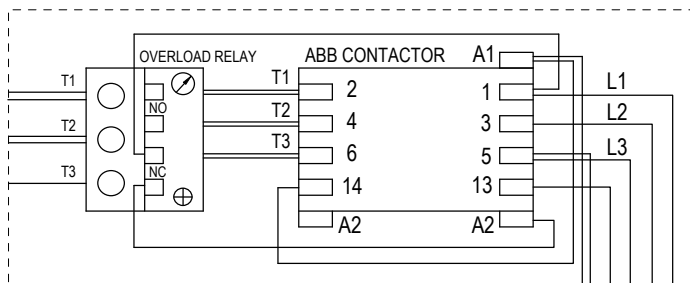


SP40 Wiring Diagram, 208V Three Phase

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SP40E Wiring Diagram, 220V Single Phase

