

Parts Catalog



SP20

MIXERS

MODELS: SP20 & SPC20

01-11-12

IMPORTANT!

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

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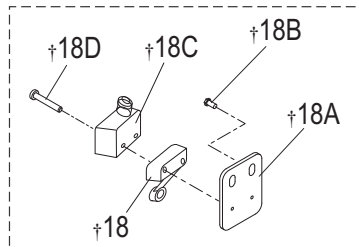
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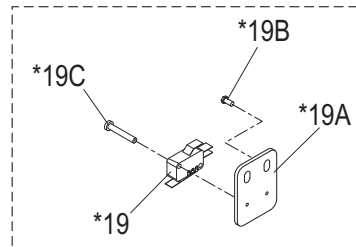
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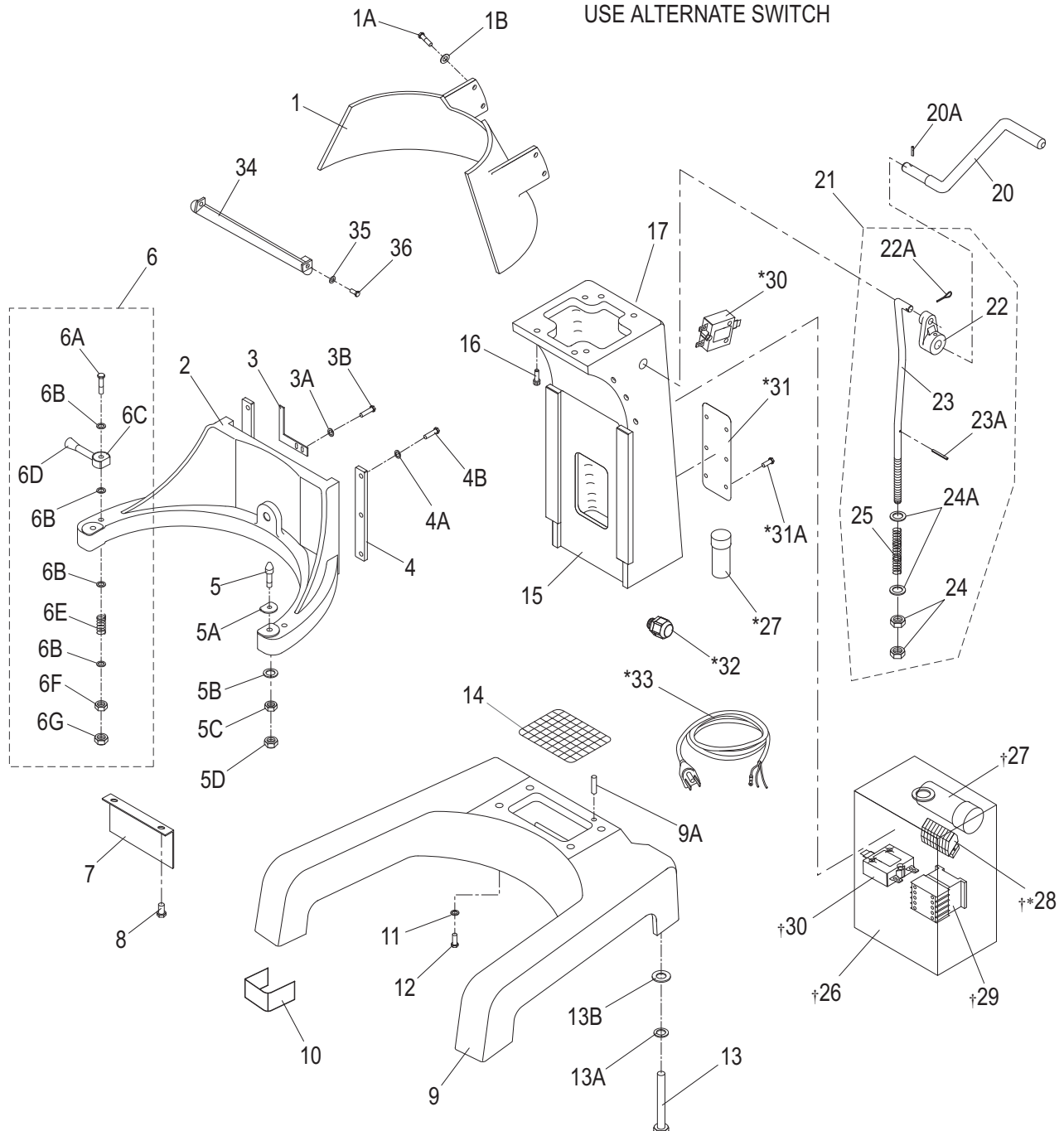
SP20/SPC20 BASE COMPONENTS



†EXTERNAL ELECTRICAL SYSTEM.
PRIOR TO S/N 7212460.



*INTERNAL ELECTRICAL SYSTEM
STARTING WITH S/N 7212460.
MOTOR BRAKE MODELS (SPC)
USE ALTERNATE SWITCH



SP20/SPC20 BASE PARTS LIST

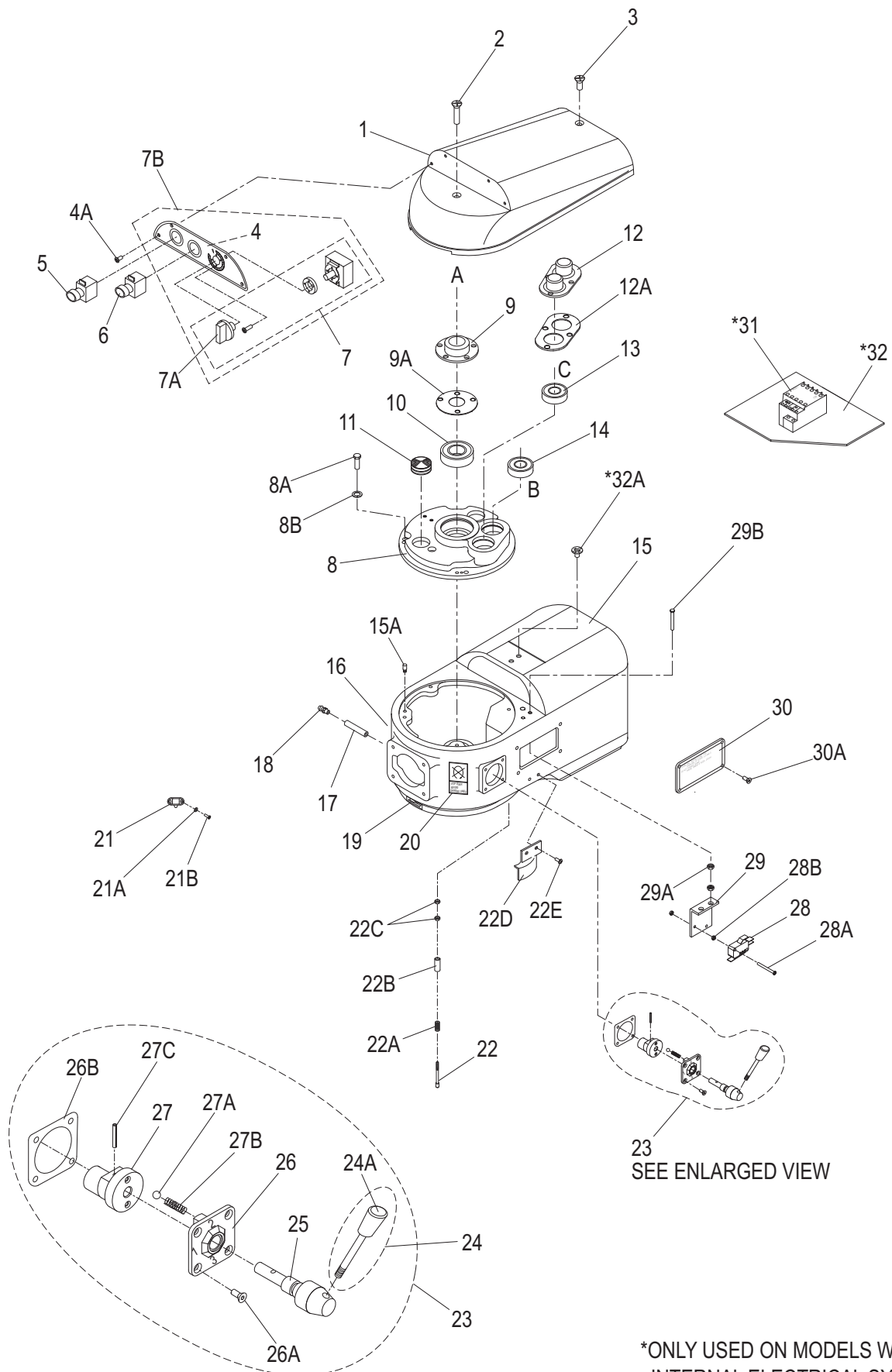
ITEM	DESCRIPTION	PART NUMBER	QTY	HARDWARE
1	REAR GUARD	X10023	1	
1A	SCREW, HEX HEAD	X10151	4	M6x14mm
1B	FLAT WASHER	X10218	4	M6
2	BOWL CRADLE	X20021	1	
		†X20021-DG		
3	TOUCH MASS	X10190	1	
3A	LOCK WASHER	-	2	M4
3B	SCREW	-	2	M4x14mm
4	BOWL SLIDE	X10022	2	
4A	LOCK WASHER	X10150	6	M6
4B	SCREW, HEX HEAD	X10149	6	M6x14mm
5	DOWEL PIN, THREADED	X10087	2	
5A	D WASHER	X20145	2	
5B	LOCK WASHER	X10144	2	M8
5C	NUT, HEX	X10088A	2	M8
5D	ACORN NUT	X10088	2	M8
6	BOWL CLAMP ASSEMBLY (SET/2)	X10020	1	
6A	BOWL CLAMP SCREW	-	2	
6B	FLAT WASHER	-	8	M8
6C	BOWL CLAMP (SET/2)	X10020-1	1	-
6D	BOWL CLAMP HANDLE	-	2	-
6E	SPRING	-	2	-
6F	NUT, HEX	-	2	M8
6G	ACORN NUT	-	2	M8
7	COVER, CRADLE	X20143	1	
8	SCREW, HEX HEAD - COVER MOUNTING	X20185	2	M6x8mm
9	MIXER BASE	X20024	1	
		†X20024-DG		
9A	DOWEL PIN	X10153	2	Ø8x16mm
10	FRONT/REAR RUBBER FEET (SET/4)	X10136	4	
11	FLAT WASHER	X10034	4	M10
12	SCREW, HEX HEAD	X20141	4	M10x40mm
13	SCREW, HEX HEAD	X10025	4	M10x50mm
13A	LOCK WASHER	X10025A	4	M10
13B	FLAT WASHER	X10034	4	M10
14	SCREEN	X20031	1	
15	MIXER COLUMN	*X20035	1	
		**X20035-1		
	MIXER COLUMN, NEW STYLE	†X20035-1-DG		
16	SCREW, HEX HEAD	X08077	4	M8x25mm
17	LABEL, HAZARDOUS VOLTAGE (NOT SHOWN)	X91014	1	
†18	MICROSWITCH, BOWL INTERLOCK (RAISE/LOWER)	X20085	1	
†18A	BRACKET	X20154	1	
†18B	SCREW, HEX HEAD - BRACKET MOUNTING	X20155	2	M6x10mm
†18C	COVER, MICROSWITCH	X20084	1	
†18D	SCREW, ROUND HEAD - SWITCH MOUNTING	X20159	2	M5x10mm
*19	MICROSWITCH, BOWL INTERLOCK (RAISE/LOWER)	X10085-1	1	
	MICROSWITCH, BOWL INTERLOCK - SPC (RAISE/LOWER)	X10085-2		
*19A	BRACKET	X30216	1	
*19B	SCREW, HEX HEAD - BRACKET MOUNTING	X20155	2	M6x10mm
*19C	SCREW, ROUND HEAD - SWITCH MOUNTING	X20159	2	M5x10mm
20	BOWL LIFT ARM	X20040	1	
20A	DOWEL PIN	X10039	1	Ø5x30mm
21	BOWL LIFT ROD ASSEMBLY	X20037A	1	
22	BOWL LIFT CAM	-	1	
22A	COTTER PIN	-	1	-
23	BOWL LIFT ROD	-	1	
23A	ROLL PIN	-	1	Ø3x28mm
24	NUT, HEX	-	2	M10
24A	FLAT WASHER	-	2	M10
25	SPRING	-	1	
†26	ELECTRICAL BOX	X20030	1	
†*27	CAPACITOR, START - 300mf	X20026	1	
†*28	CONNECTING BLOCK SET	X10029A	1	
	CONNECTING BLOCK, 2C GRY	X10029-2G	7	
	CONNECTING BLOCK END CAP	X10029-EC	1	
†29	CONTACTOR (PRIOR TO S/N 7212460)	X20028	1	
30	CIRCUIT BREAKER (OLD STYLE, 8A)	X20027-1	1	
	CIRCUIT BREAKER (NEW STYLE 13A)	X20027-2	1	
*31	COVER PLATE	X20191	1	
*31A	SCREW, TRUSS HEAD	X25051	4	M5x6mm
*32	STRAIN RELIEF	X10219	1	
*33	POWER CORD AND PLUG	X10193	1	
*34	FRONT GUARD, MIXER COLUMN	X20184	1	
*35	FLAT WASHER	X20218	2	M6
*36	SCREW, HEX HEAD	X20185	2	M6x8mm

*External electrical system (Prior to S/N 7212460)

** Internal electrical system (Starting with S/N 7212460)

†Use after S/N 7222689.

SP20/SPC20 HEAD COMPONENTS

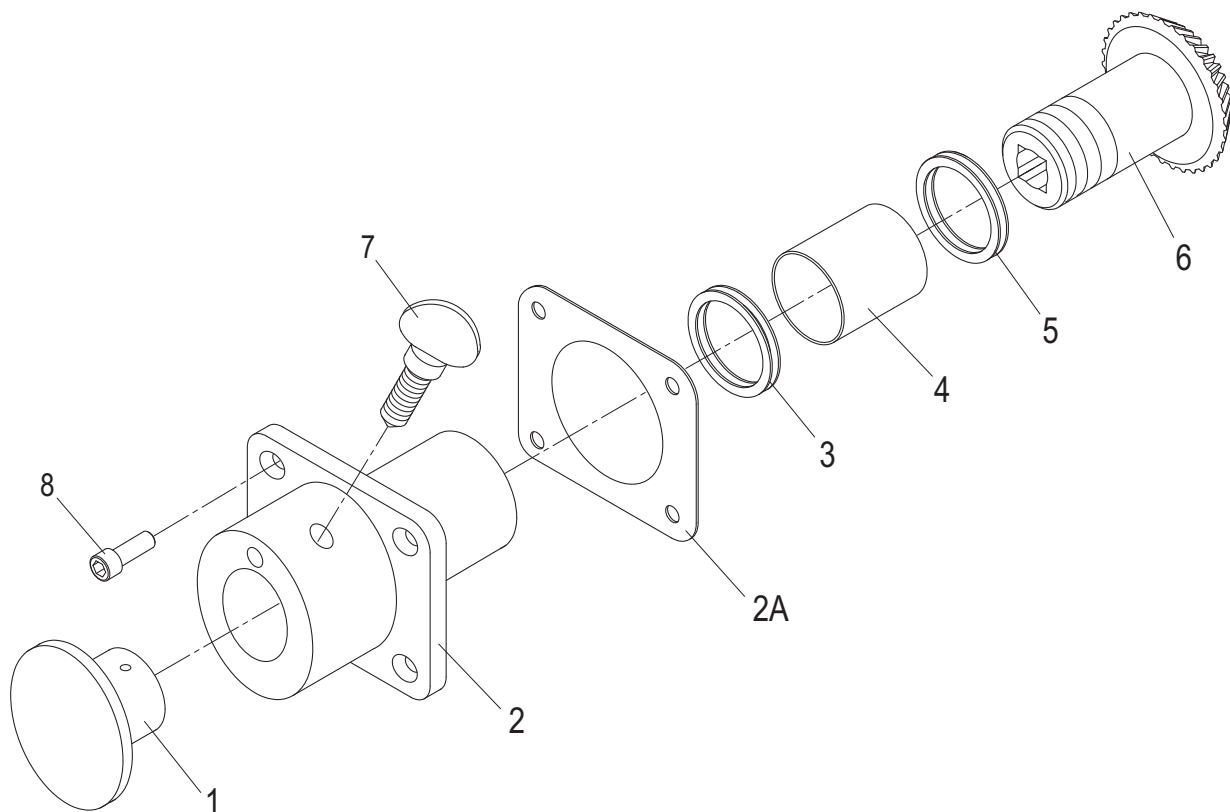


SP20/SPC20 HEAD PARTS LIST

ITEM	DESCRIPTION	PART NUMBER	QTY	HARDWARE
1	TRANSMISSION COVER-SIDE CONTROLS	X10001-1	1	
	TRANSMISSION COVER-FRONT CONTROLS (W/TIMER)	X10001-2		
		**X10001-2-DG		
2	SCREW, FLAT HEAD	X10180	1	M6x30mm
3	SCREW, FLAT HEAD	X10181	1	M6x15mm
4	CONTROL PANEL	X10002	1	
4A	SCREW, TRUSS HEAD	X10179	4	M4x10mm
5	EMERGENCY STOP BUTTON	X10050	1	
6	START BUTTON	X10049	1	
6A	BOOT, START/STOP SWITCH BUTTON (NOT SHOWN)	X10049-1	2	
7	TIMER ASSEMBLY WITH KNOB	X10137	1	
7A	TIMER KNOB	X10137-1	1	
7B	TIMER ASSY W/CONTROL PANEL (X10137 & X10002)	X10296	1	
8	COVER, GEAR HOUSING	X20074	1	
8A	SCREW, HEX HEAD	X20173	4	M6x16mm
8B	LOCK WASHER	X10172	4	M6
9	BEARING RETAINER CAP	X10072	1	
9A	GASKET, BEARING RETAINER	X10187	1	
10	BALL BEARING	X10070	1	
11	GREASE PLUG	X10073	1	
12	TWIN BEARING RETAINER	X10071	1	
12A	GASKET, TWIN BEARING RETAINER	X10188	1	
13	BALL BEARING	X10068	1	
14	BALL BEARING	X10068	1	
15	CASE, TRANSMISSION - FIXED BOWL GUARD	X10059	1	
	CASE, TRANSMISSION - REMOVABLE BOWL GUARD	X10059-1		
15A	LOCATING PIN	X10170	2	Ø8xM6x10mm
16	LABEL, LUBRICATE	X91009	1	
17	GREASE TUBE W/O FITTING	X10217	1	
18	GREASE FITTING	X10900	1	
19	LABEL, ARROW	X91012	1	
20	LABEL, STOP TO CHANGE GEARS	X91010	1	
21	SAFETY GUARD SPRING LOCK	X10134	1	
21A	WASHER, SPLIT LOCK	X10134A	2	M3
21B	SCREW, ROUND HEAD	X10134B	2	M3x8mm
22	TOUCH SHAFT, BRASS (PRIOR TO S/N 7212057)	X10043	1	
	TOUCH SHAFT, NYLON (START WITH S/N 7212057)	X10043N		
22A	SPRING	X10044	1	
22B	TUBE	X10164	1	
22C	NUT, HEX	X30186	2	M5
22D	TOUCH SHAFT COVER	X20516	1	
22E	SCREW, TRUSS HEAD	-	2	M5x8mm
23	GEAR SHIFT LEVER ASSEMBLY	X10045-48	1	X10045-48
24	GEAR SHIFT LEVER ASSY WITH KNOB	X10045	1	
24A	KNOB, GEAR SHIFT	X20045-1	1	
25	SHAFT	X10046	1	
26	COVER	X10047	1	
26A	SCREW, FLAT HEAD	X25166	4	M5x20mm
26B	GASKET	X10199	1	
27	SHAFT, BIAS	X10048	1	
27A	ROLLER	X10157	2	
27B	SPRING	X10158	2	
27C	ROLL PIN	X20156	1	Ø3x28mm
28	MICROSWITCH, BOWL GUARD INTERLOCK	X10057	1	
	MICROSWITCH, BOWL GUARD INTERLOCK - SPC	X10057-1		
28A	SCREW, ROUND HEAD	X20168	2	M3x12mm
28B	NUT, HEX	X20168A	4	M3
29	BRACKET	X10058	1	
29A	NUT, HEX	X20169	4	M6
29B	SCREW	X10171	2	M6x40mm
30	PLATE, WARNING	X10055	1	
30A	SCREW, PAN HEAD	X10167	4	M4x6mm
*31	CONTACTOR, 16A, 600VAC	X10028ABB	1	
*32	CONTACTOR MOUNTING PLATE	X20198	1	
32A	SCREW, TRUSS HEAD (NOT SHOWN)	X10131	1	#10-24x3/8"

* Only used on models with internal electrical system (Starting S/N 7212460). **Use after S/N 7222689.

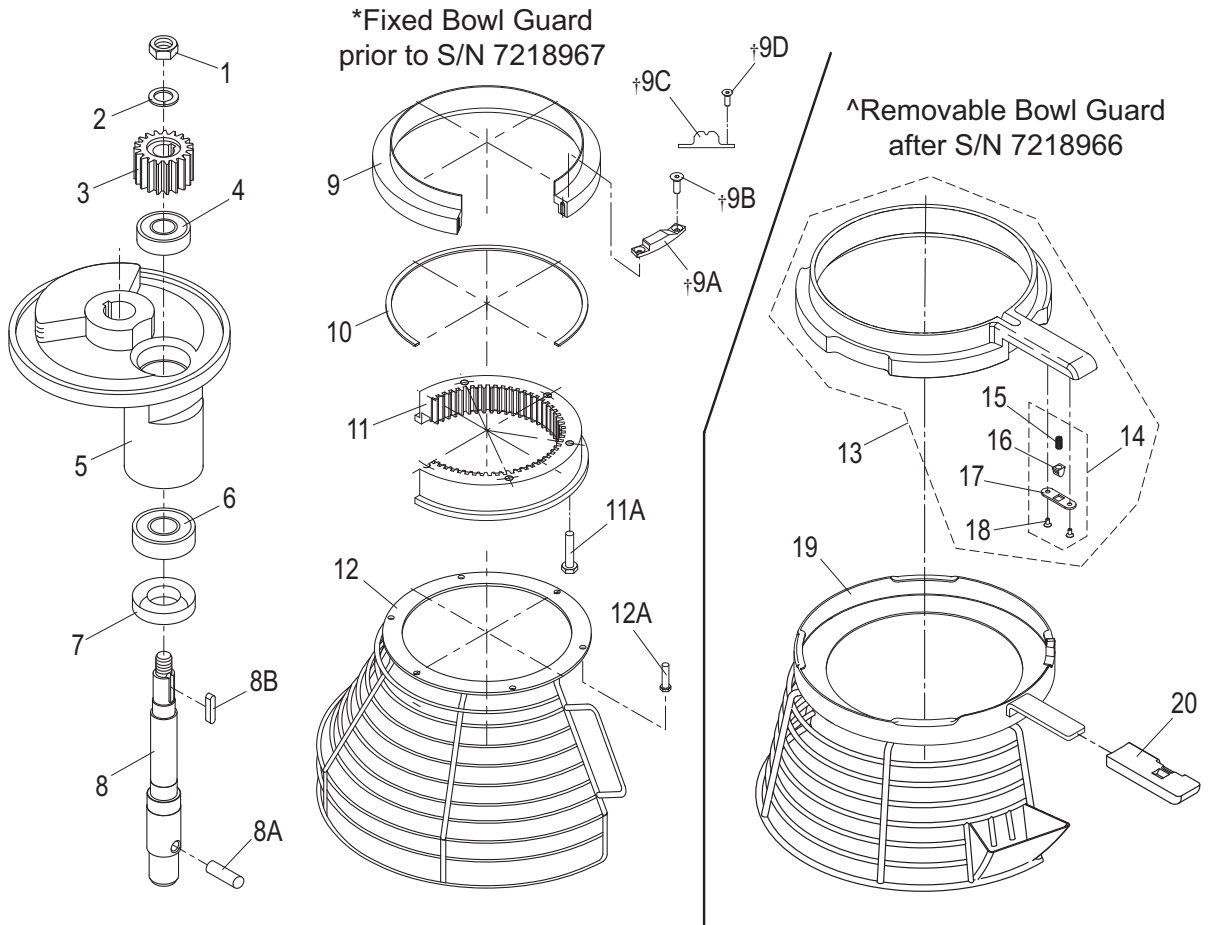
SP20/SPC20 HUB ASSEMBLY COMPONENTS



ITEM	DESCRIPTION	PART NUMBER	QTY	HARDWARE
1	ATTACHMENT HOLE PLUG	X10007	1	
2	ATTACHMENT HUB (INCLUDES X10089 & X10075)	X10006	1	
		*X10006-DG		
2A	GASKET	X10006-1	1	
3	OIL SEAL	X10089	1	
4	BEARING	X10075	1	
5	THRUST WASHER	X10004	2	
6	LEVEL DRIVE GEAR (35T)	X10003	1	
7	THUMB SCREW	X10005	1	1/2-13x3/4"
8	SCREW, SOCKET HEAD	X80B52	4	M6x25mm

*Use after S/N 7222689.

SP20/SPC20 PLANETARY COMPONENTS

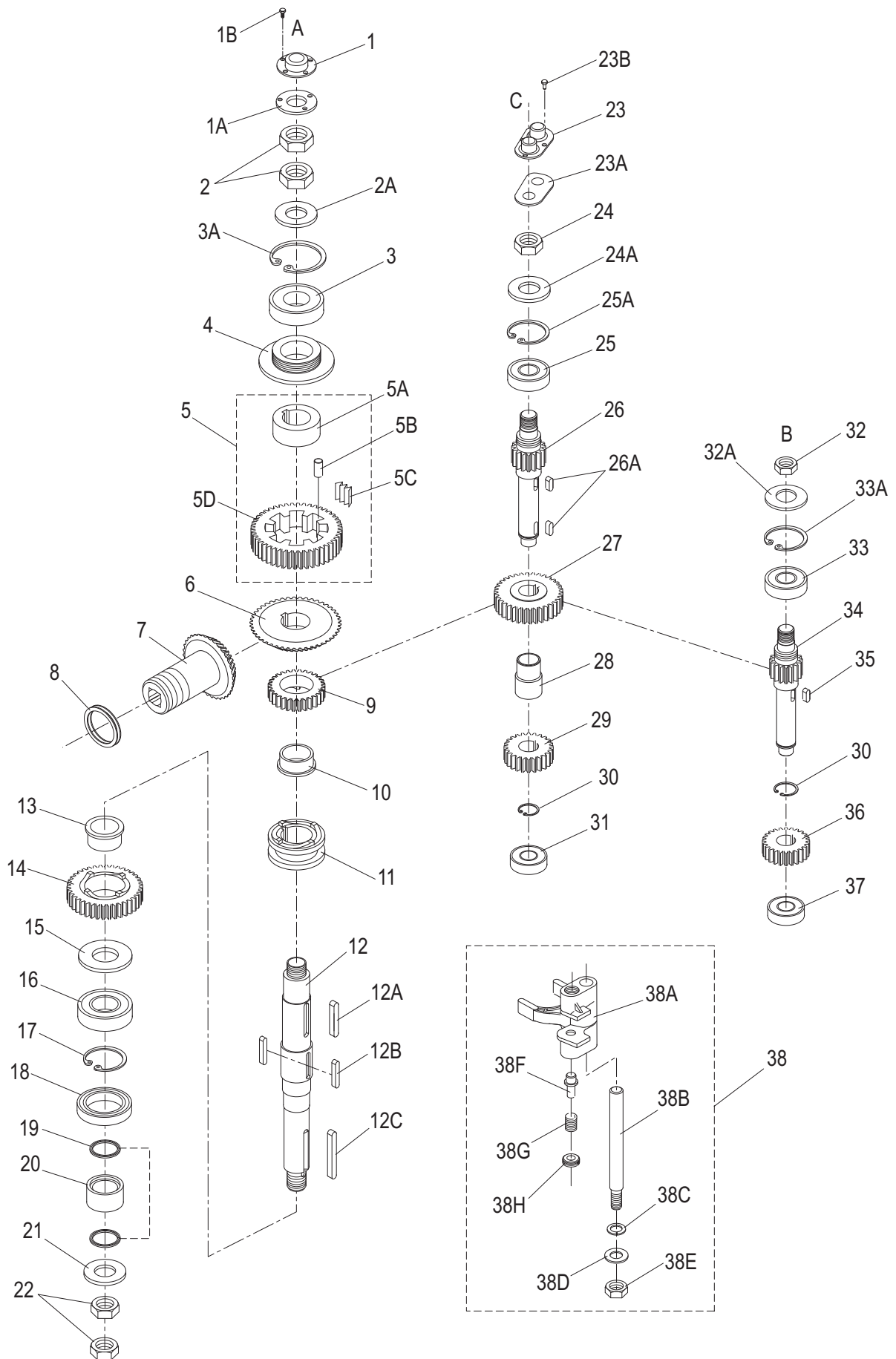


ITEM	DESCRIPTION	PART NUMBER	QTY	HARDWARE
1	NUT, HEX	X10008	1	M12
2	WASHER, SPLIT LOCK	-	1	M12
3	PINION, BEATER (19T)	X10009	1	
4	BALL BEARING	X10010	1	
5	PLANETARY HOLDER	X10011	1	
		X10011-DG		
6	BALL BEARING	X10012	1	
7	OIL SEAL	X10013	1	
8	PLANETARY SHAFT	X10015	1	
8A	DOWEL PIN	X10080	1	
8B	SHAFT KEY	X20014	1	5x5x20mm
9	SLIDE SHEATH (PRIOR TO S/N 7212057)	X10076	1	
	SLIDE SHEATH, MOLDED (START WITH S/N 7212057)	X10076P		
*9A	TOUCH MASS	X10041	1	
*9B	SCREW, FLAT HEAD - SS	X10042	2	M4x10mm
*9C	SAFETY GUARD SPRING LOCK FIXTURE	X10135	1	
*9D	SCREW, ROUND HEAD	X20135A	2	M4x10mm
10	GASKET	X10077	1	
11	PLANETARY INTERNAL GEAR (63T)	X10078	1	
11A	SCREW, SOCKET HEAD	X10082	6	1/4-20 X 1.25"
12	FRONT INTERLOCK GUARD ASSEMBLY	X10079/81	1	
12A	SCREW, HEX HEAD - LOCKING PATCH	X10083	6	M5x8mm
13	PLASTIC SLIDE SHEATH, REMOVABLE SAFETY GUARD	X200S2	1	
14	SPRING PLUNGER HARDWARE KIT	X200S3	1	
15	SPRING	-	1	-
16	PLUNGER	-	1	-
17	PLATE, PLUNGER RETENTION	-	1	-
18	SCREW, FLAT HEAD	-	2	M3x8mm
19	BOWL GUARD ASSEMBLY, STAINLESS STEEL	X100S1	1	
20	HANDLE, PLASTIC - REMOVABLE SAFETY GUARD	X20504	1	

*Used with old style (metal) slide sheath (X20076).

**Use after S/N 7222689.

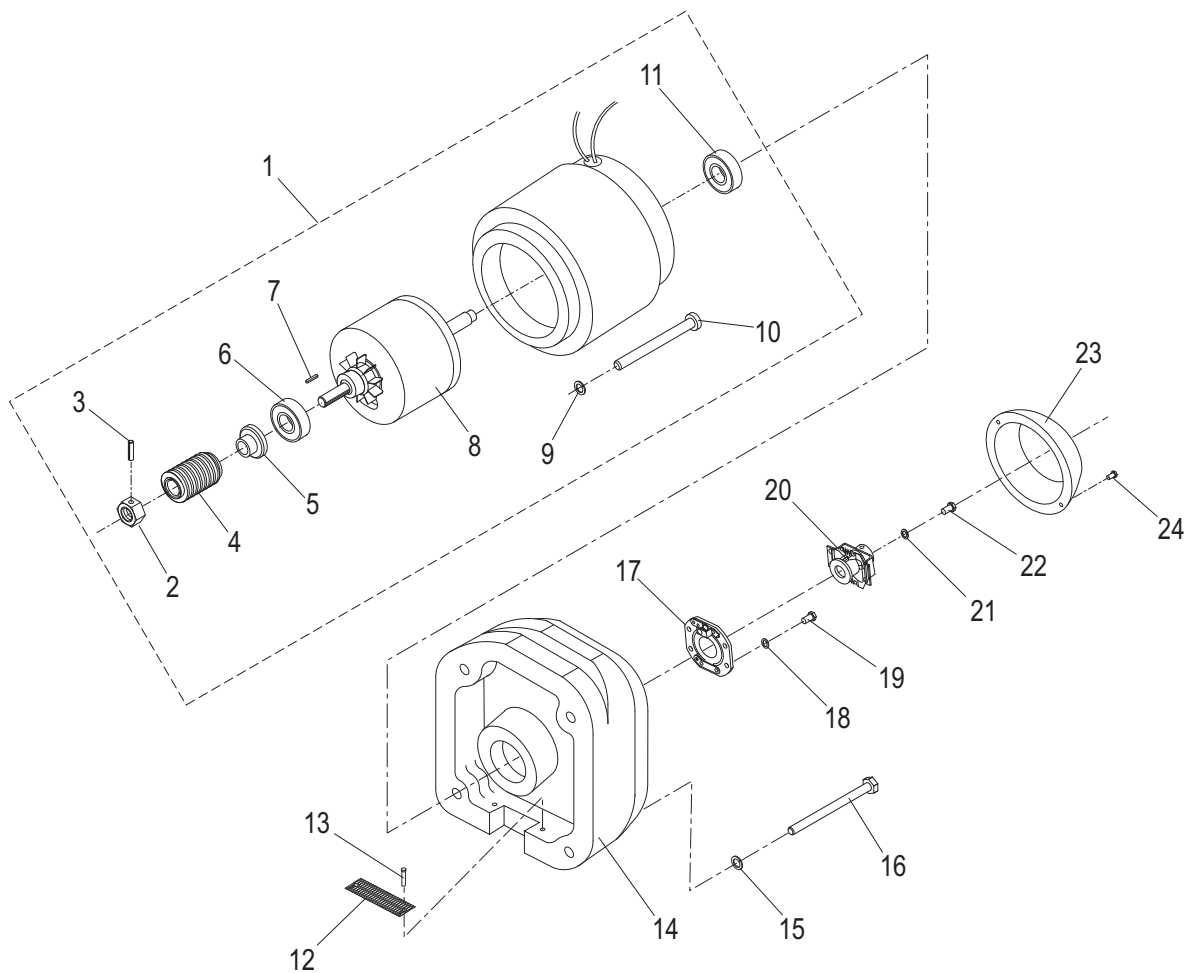
SP20/SPC20 GEARBOX COMPONENTS



SP20 GEARBOX PARTS LIST

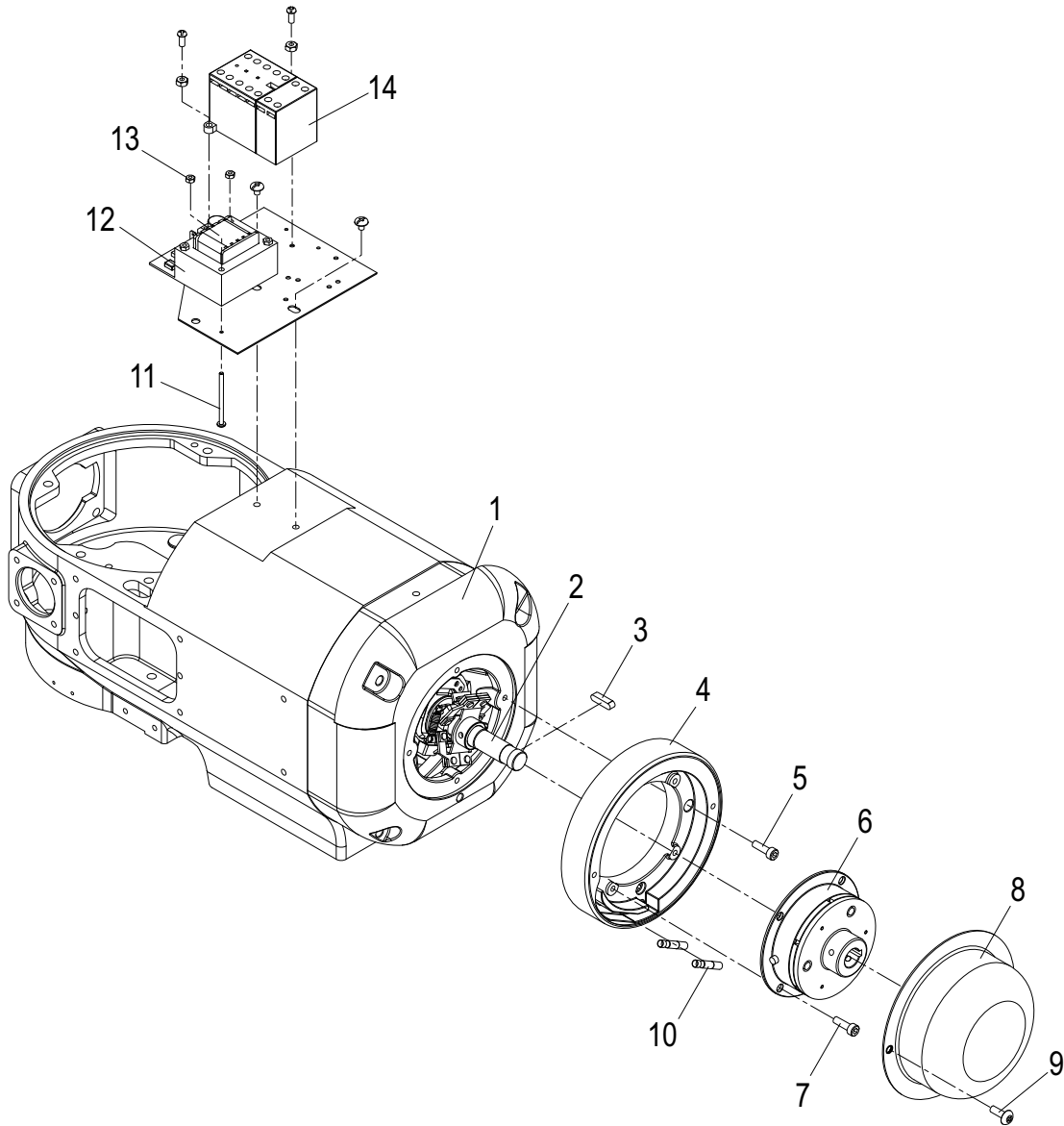
ITEM	DESCRIPTION	PART NUMBER	QTY	HARDWARE
1	CAP, BEARING RETAINER	X10072	1	
1A	GASKET	X10187	1	
1B	SCREW, PAN HEAD	X10133	4	M8x10mm
2	JAM NUT, HEX	X20132	2	1/2-20
2A	WASHER, FLAT	X20070A	1	1/2"
3	BALL BEARING	X10010	1	
3A	RETAINING RING	X20070B	1	
4	LEAD-IN OIL PAD	X10090	1	
5	SLOW SPEED GEAR ASSEMBLY	X10091-94	1	X10091-X10094
5A	BUSHING	X10091	1	
5B	ROLLER PIN	X10092	1	
5C	SLICE SPRING	X10093	1	
5D	GEAR, SLOW SPEED (46T)	-	1	-
6	GEAR, BEVEL (46T)	X10095	1	
7	LEVEL DRIVE GEAR (35T)	X10003	1	
8	THRUST WASHER	X10004	1	
9	GEAR, CLUTCH (29T)	X10096	1	
20	BUSHING, CLUTCH	X10097	1	
11	SLEEVE, CLUTCH	X10110	1	
12	DRIVE SHAFT	X10107	1	
12A	SHAFT KEY	X10098	1	6x6x27mm
12B	SHAFT KEY	X10109	1	5x5x27mm
12C	SHAFT KEY	X10108	1	4x4x45mm
13	BUSHING, CLUTCH	X10099	1	
14	GEAR, CLUTCH (38T)	X10100	1	
15	HEEL	X20101	1	
16	BALL BEARING	X10102	1	
17	RETAINING RING	X20214	1	RTW-52
18	OIL SEAL	X10105	1	
19	O-RING	X10103	2	28x22x3
20	GUARD, OIL BUSHING	X10104	1	
21	WASHER, FLAT	X10105A	1	M20
22	NUT, JAM	X10106	2	M20
23	BEARING RETAINER, TWIN	X10071	1	
23A	GASKET	X20210	1	
23B	SCREW, TRUSS HEAD	X10131	4	#10-24x3/8"
24	NUT, HEX	X10130	1	3/8"
24A	WASHER, FLAT	X20069A	1	3/8"
25	BALL BEARING	X10068	1	
25A	RETAINING RING	X20069B	1	
26	TRANSMISSION SHAFT (15T)	X10129	1	
26A	SHAFT KEY	X10128	2	5x5x10mm
27	GEAR (32T)	X10126	1	
28	BUSHING, SPACER	X10122	1	
29	GEAR (24T)	X10121	1	
30	RETAINING RING	X10120	2	STW-19
31	BALL BEARING	X10117	1	X10117
32	NUT, HEX	X10125	1	M10
32A	WASHER, FLAT	X20068A	1	M10
33	BALL BEARING	X10068	1	
33A	RETAINING RING	X20068B	1	#35
34	SHAFT, MASTER (15T)	X10124	1	
35	SHAFT KEY	X20123	1	5x5x15mm
36	WORM WHEEL (24T)	X10118	1	X10118
37	BALL BEARING	X10117	1	X10117
38	YOKE SHIFTER ASSEMBLY	X10111-116	1	X10111-116
38A	YOKE, SHIFTER	X10116	1	X10116
38B	GUIDE, ROD SHIFTER	X10112	1	X10112
38C	WASHER, SPLIT LOCK	X10115A	1	3/8"
38D	WASHER, FLAT	X10115B	1	3/8"
38E	NUT, STOP	X10111	1	3/8-16
38F	PLUNGER, YOKE SHIFTER	X10115	1	X10115
38G	SPRING, RETAINER	X10113	1	X10113
38H	SPRING, YOKE SHIFTER	X10114	1	X10114

SP20/SPC20 MOTOR COMPONENTS



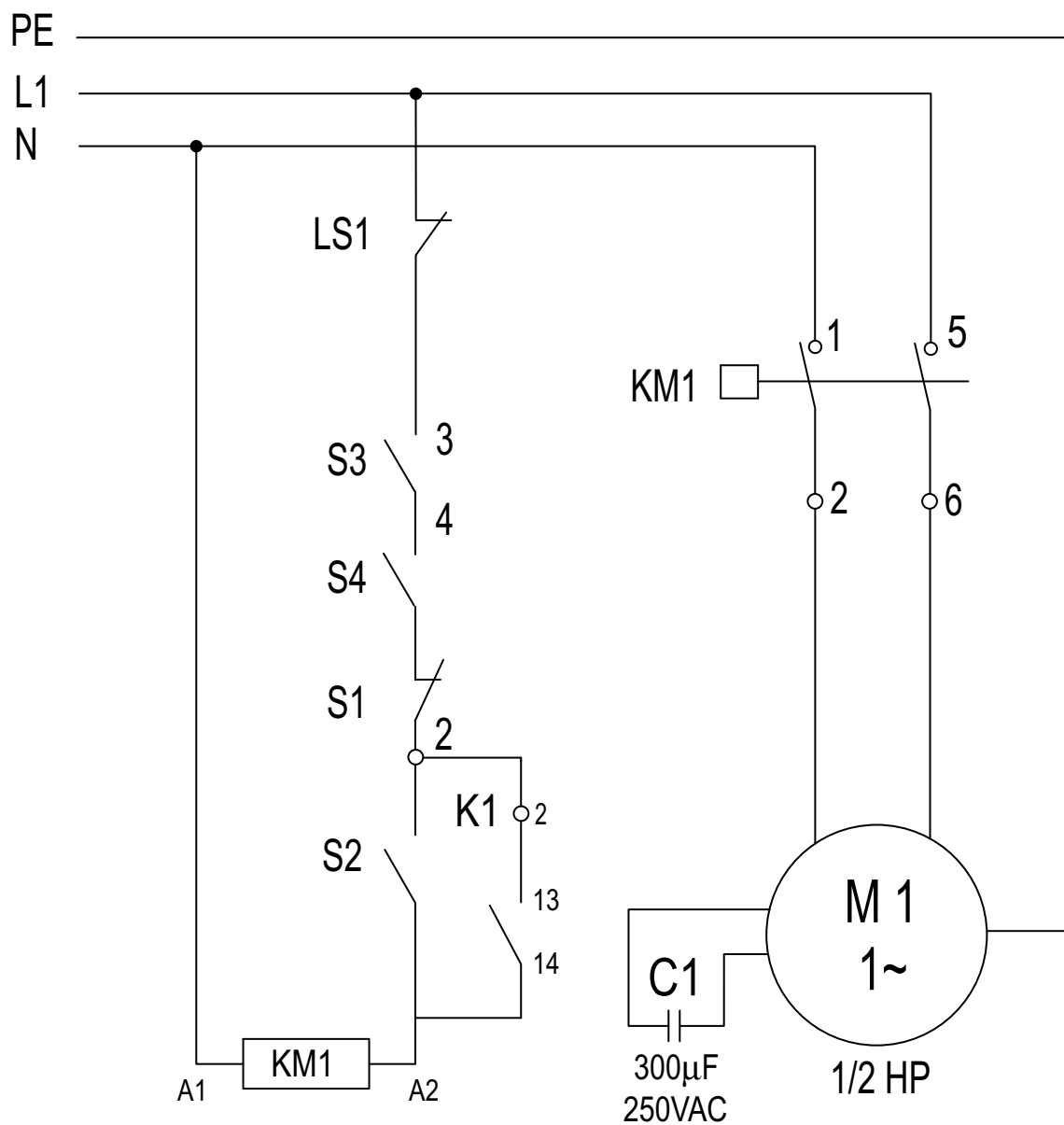
ITEM	DESCRIPTION	PART NUMBER	QTY	HARDWARE
1	MOTOR ASSEMBLY, 1/2 HP	X20060-67	1	
	MOTOR ASSEMBLY, 1/2 HP - MOTOR BRAKE	X20060-67C		
2	NUT, HEX - PINNED	X20066	1	M10
3	ROLL PIN	X20067	1	M3x16mm
4	WORM (5T)	X20065	1	
5	SPRING SHOCK ABSORBER	X20060	1	
6	BALL BEARING	X08114	1	
7	SHAFT KEY	X20202	1	3x3x17mm
8	MOTOR SHAFT	-	1	
	MOTOR COIL	-	1	
9	WASHER, SPLIT LOCK	X20207	4	M5
10	SCREW, HEX WASHER HEAD	X20206	4	M5x55mm
11	BALL BEARING	X10010	1	
12	SCREEN	X20031	1	
13	RIVET	X10220	2	
14	TRANSMISSION COVER, REAR	X10054	1	
15	WASHER, SPLIT LOCK	X20160	4	M6
16	SCREW, HEX HEAD	X20161	4	M6x35mm
17	SWITCH, PLATINUM	X10051	1	
18	WASHER, SPLIT LOCK	X20207	2	M5
19	SCREW, HEX HEAD	X10162	2	M5x10mm
20	CLUTCH	X10052	1	
21	WASHER, SPLIT LOCK	X20207	1	M5
22	SCREW, PAN HEAD	X10162	1	M5x10mm
23	COVER	X10053	1	
24	SCREW, PAN HEAD	X10162	2	M5x10mm
25	FAN	X20063	1	

SPC20 MOTOR BRAKE COMPONENTS



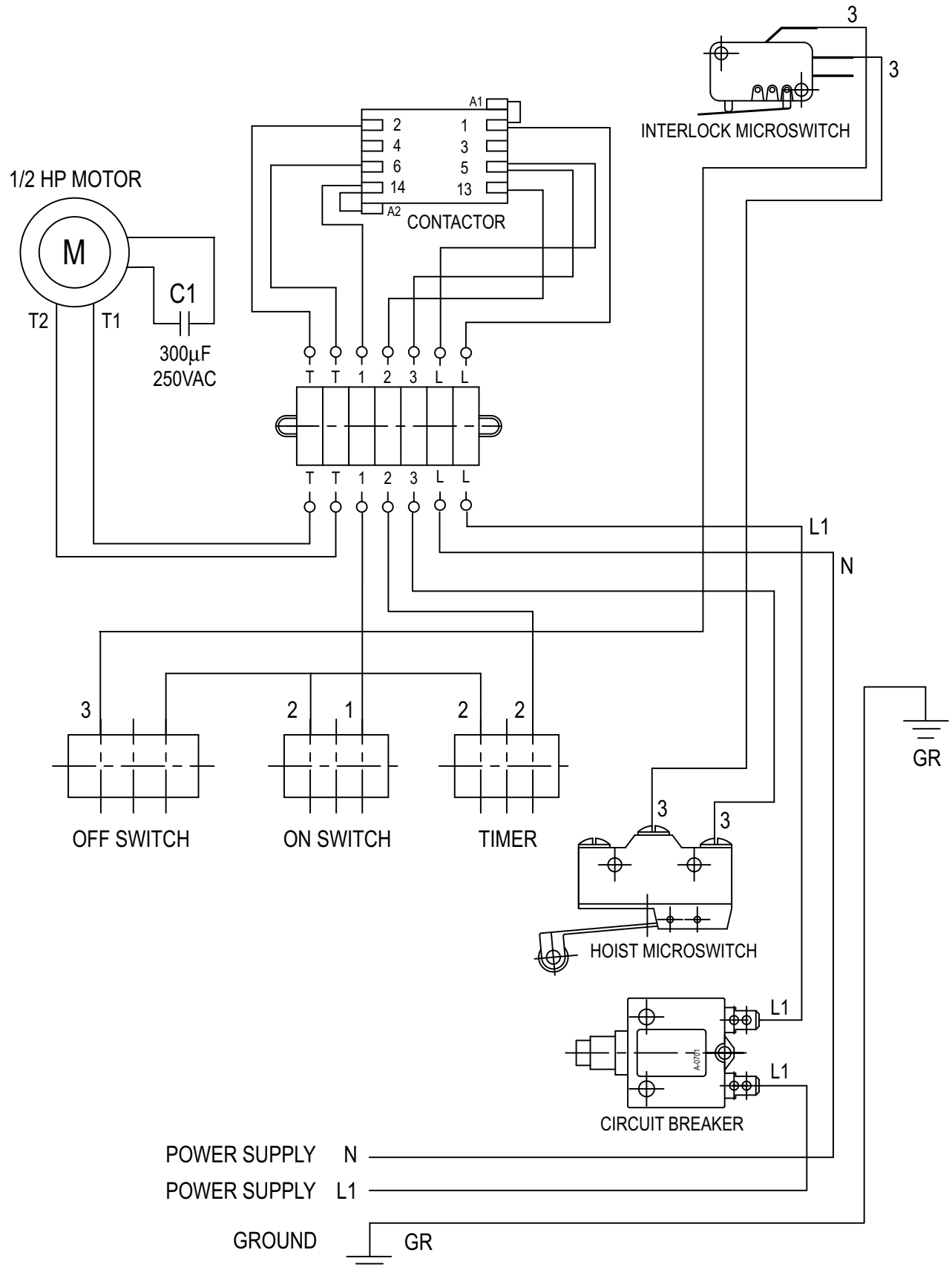
ITEM	DESCRIPTION	PART NUMBER	QTY	HARDWARE
1	MOTOR COVER, REAR - MTR BRAKE	X20054-1	1	
2	MOTOR SHAFT	-	1	
3	SHAFT KEY	X10014	1	5x5x20mm
4	HOUSING, BRAKE	X20509	1	
5	CAP SCREW, SOCKET HEAD	-	4	3/16"
6	MAGNETIC BRAKE	X20511	1	
7	CAP SCREW, SOCKET HEAD	-	4	M5x12mm
8	COVER, MAGNETIC BRAKE	X20510	1	
9	SCREW, BUTTON HEAD	-	2	M5x10mm
10	CONNECTOR	-	2	-
11	SCREW, HEX HEAD	-	2	M3x34mm
12	ELECTRONIC CIRCUIT BOARD, 110V	X20512	1	
13	NUT, HEX	-	2	M3
14	AUXILIARY CONTACT BLOCK	X20513	1	

SP20 ELECTRICAL DIAGRAM - 120V SINGLE PHASE



ITEM	DESCRIPTION	QTY
C1	CAPACITOR	1
S1	EMERGENCY STOP BUTTON	1
S2	START BUTTON	1
S3	MICROSWITCH (INTERLOCK GUARD)	1
S4	MICROSWITCH (BOWL LIFT)	1
KM1	CONTACTOR COIL, 120V, 60 Hz	1
M1	MOTOR, 1/2 HP SINGLE PHASE 120V	1
LS1	CIRCUIT BREAKER	1
K1	TIMER	1

SP20 WIRING DIAGRAM - 120V SINGLE PHASE



SPC20 WIRING DIAGRAM - 120V SINGLE PHASE

