

SC-400, SC-550, SC-650

INCLUDING: OPERATION, INSTRUCTION, INSTALLATION, MAINTENANCE AND PARTSBOOK

IMPORTANT: READ THIS MANUAL CAREFULLY BEFORE INSTALLING, OPERATING OR SERVICING THIS TOOL.

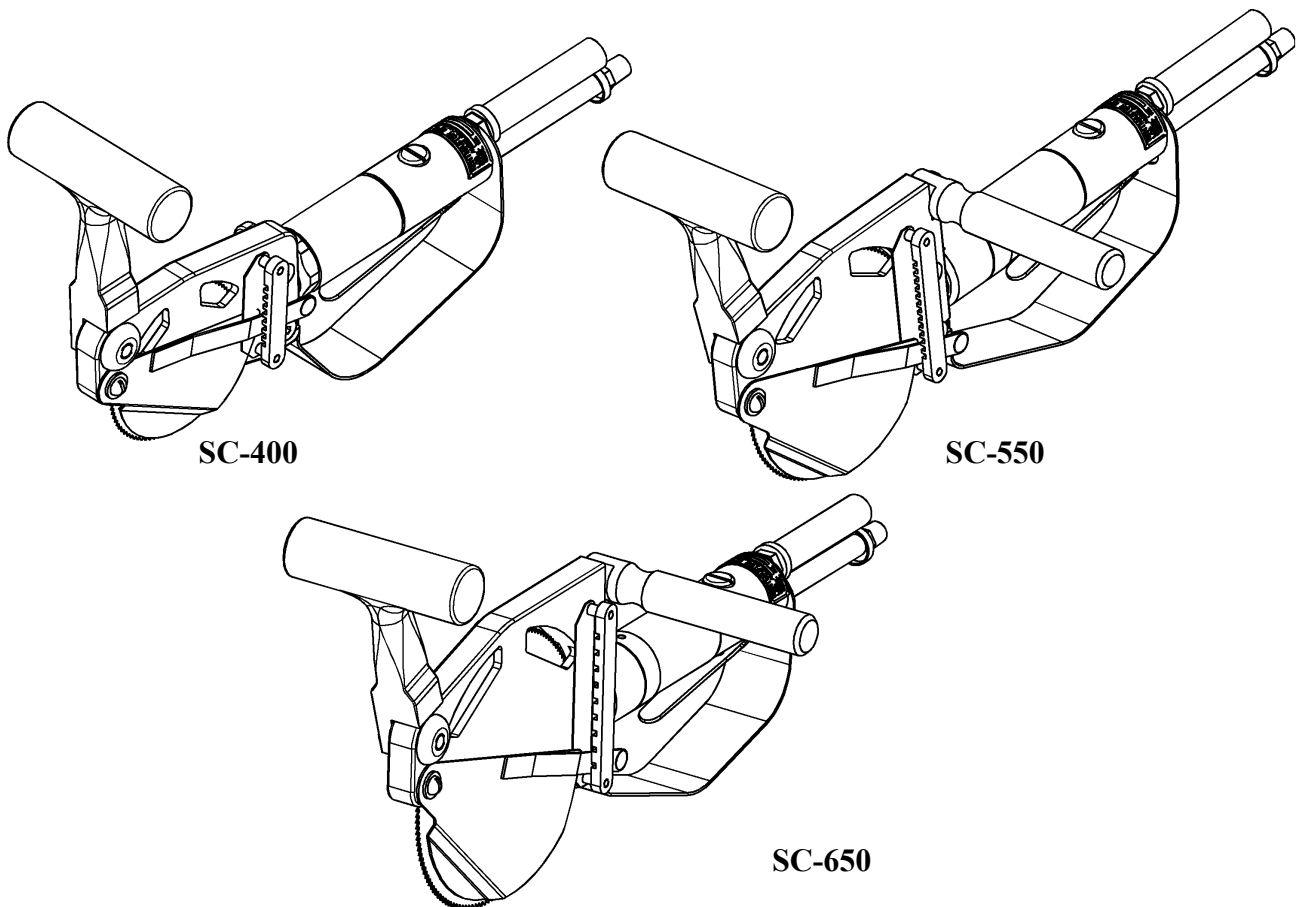
ALL PURPOSE BREAKING SAW

TOOL DATA

MODEL: SC-400
ASSEMBY NO. 6200000
TYPE: AIR OPERATED
NET WEIGHT: 4.5 LBS (2KG)
INLET AIR PRESSURE:
90 P.S.I. (6 BARS)

MODEL: SC-550
ASSEMBY NO. 6210000
TYPE: AIR OPERATED
NET WEIGHT: 6 LBS (2.7KG)
INLET AIR PRESSURE:
90 P.S.I. (6 BARS)

MODEL: SC-650
ASSEMBLY NO. 6220000
TYPE: AIR OPERATED
NET WEIGHT: 6.6 LBS (3KG)
INLET AIR PRESSURE:
90 P.S.I. (6 BARS)



= Hazards or unsafe practices which could result in severe personal injury, death or substantial property damage.



= Hazards or unsafe practices which could result in minor personal injury, product or property damage.

= Important installation, operation or maintenance information.

OPERATING AND SAFETY INSTRUCTIONS



WARNING

DO NOT OPERATE THIS TOOL UNTIL YOU HAVE READ AND UNDERSTOOD THE SAFETY INSTRUCTIONS AND OPERATING MANUALS.



WARNING

DO NOT OPERATE THIS TOOL UNTIL YOU HAVE RECEIVED TRAINING IN THE HANDLING, OPERATION AND USE OF THIS TOOL.



WARNING

STOP USING A MALFUNCTIONING OR DEFECTIVE TOOL IMMEDIATELY. REPORT ANY PROBLEMS OR DEFECTS TO YOUR SUPERVISOR FOR REMOVAL OF THE TOOL FROM SERVICE.



WARNING

DO NOT ATTEMPT TO REPAIR THE TOOL YOURSELF.



WARNING

DO NOT ALLOW UNAUTHORIZED PERSONS TO USE TOOL.



WARNING

REMOVE AND DISCONNECT POWER FROM THE TOOL WHEN TOOL IS LEFT UNATTENDED OR IS NOT IN USE.



WARNING

NEVER TIE DOWN, BYPASS, ALTER OR MODIFY THE ACTIVATING SWITCHES OR TRIGGERS OF THIS TOOL.



WARNING

NEVER MAKE ALTERATIONS OR MODIFICATIONS TO THIS TOOL.



WARNING

BE CONSTANTLY AWARE AND ALERT FOR UNSAFE CONDITIONS AND REPORT THEM IMMEDIATELY TO YOUR SUPERVISOR.



WARNING

NEVER PLACE YOUR HAND OR ANY PART OF YOUR BODY IN THE CUTTING PATH OF THE TOOL.



WARNING

NEVER ALLOW ANYONE ELSE TO PLACE THEIR HANDS OR ANY PART OF THEIR BODY IN THE CUTTING PATH OF THE TOOL.



WARNING

DO NOT ACTIVATE CONTROL SWITCHES OR TRIGGERS OF THIS TOOL UNLESS YOU INTEND TO TEST OR OPERATE THIS TOOL.



WARNING

DO NOT USE THIS TOOL FOR ANY PURPOSE OTHER THAN IT'S INTENDED PURPOSE.



CAUTION

WHEN OPERATING THIS TOOL WEAR THE PROTECTIVE GEAR AND SAFETY EQUIPMENT SUPPLIED TO YOU.



WARNING

THE NOISE EMISSION (SOUND PRESSURE LEVEL) AT THE WORKSTATION MAY EXCEED 80 dB (A). EAR AND SOUND PROTECTION GEAR IS REQUIRED.

OPERATING INSTRUCTIONS

⚠ WARNING ONLY TRAINED PERSONNEL ARE TO OPERATE THIS TOOL.

1. TO ENSURE TOOL IS OPERATING PROPERLY, PERFORM FOLLOWING STEPS AT START OF EACH SHIFT:
 - MAKE SURE TOOL MOVES UP AND DOWN FREELY WHILE HANGING FROM BALANCER OVERHEAD.
 - WITH POWER TO TOOL TURNED ON, TEST TRIGGER FOR PROPER OPERATION.
 - DEPRESS EACH TRIGGER SEPARATELY. TOOL SHOULD NOT ACTIVATE. DEPRESS BOTH TRIGGERS. TOOL SHOULD ACTIVATE.
 - IF TOOL HAS "ANTI-TIE DOWN" OPTION, BOTH TRIGGERS MUST BE DEPRESSED SIMULTANEOUSLY FOR TOOL TO ACTIVATE.
2. TO PERFORM WORK, HOLD TOOL FIRMLY AT BOTH HANDLES. SQUEEZE TRIGGERS TO ACTIVATE TOOL.
3. DO NOT EXERT EXCESSIVE PRESSURE. ALLOW TIME FOR THE TOOL TO CUT.
4. TOOL REQUIRES 40 S.C.F.M. OF AIR @ 90 P.S.I. AIR PRESSURE.

MAINTENANCE

⚠ WARNING ONLY TRAINED AND QUALIFIED PERSONNEL ARE TO PERFORM MAINTENANCE AND SERVICE TO THIS TOOL.

1. FILL LUBRICATOR WITH KENTMASTER AIR MIST OIL (PART NO. 7903050). SET DRIP RATE ACCORDING TO INSTRUCTIONS SUPPLIED.
2. TOOL REQUIRES GREASING AT START OF EVERY SHIFT. GREASE USING KENTMASTER GREASE (PART NO. 7903070).
3. FLUSH AIR MOTOR AT END OF EACH DAY'S USE BY SQUIRTING A FEW SQUIRTS OF KENTMASTER AIR OIL MIST (PART NO. 7903050) DIRECTLY INTO THE AIR INLET PORT. RUN TOOL A FEW SECONDS TO COAT AND PROTECT THE AIR MOTOR AND INTERNAL PARTS OF TOOL.

VIBRATION DATA

Model	Measuring device	Average total vibration		Average A (8) exposure (hours) based on 2.8 m/s ² average exposure		Gain (dB)
		Rear Handle	Front Handle	Rear Handle	Front Handle	
SC	HVM-100	0.696	0.515	129	236	60

BLADE REMOVAL AND CLEANING

⚠ WARNING ALWAYS DISCONNECT POWER SUPPLY FROM TOOL BEFORE INSTALLING OR REMOVING BLADE FROM TOOL.

⚠ WARNING ALWAYS WEAR WIRE MESH GLOVES WHEN INSTALLING OR REMOVING BLADE FROM TOOL.

1. TO REMOVE BLADE, LOOSEN (2) SCREWS, FIGURE 1, ITEM 1 AND GUARD, ITEM 2.
2. REMOVE SCREW, ITEM 3, BLADE HOLDER, ITEM 4 AND BLADE, ITEM 5.
3. CLEAN ALL PARTS REMOVED WITH SOAP AND WATER.
4. SHARPEN OR REPLACE BLADE WHEN NECESSARY AND LUBRICATE ALL PARTS.
5. REASSEMBLE ALL PARTS IN REVERSE ORDER.

AT END OF EACH SHIFT:

1. REMOVE SAW BLADE.
2. IF USING BLADE AGAIN, WASH BLADE WITH HOT WATER TO REMOVE FAT, MEAT AND BONE PARTICLES.
3. DRY AND APPLY A COAT OF MINERAL OIL TO ENTIRE SURFACE OF BLADE TO AVOID OXIDATION.

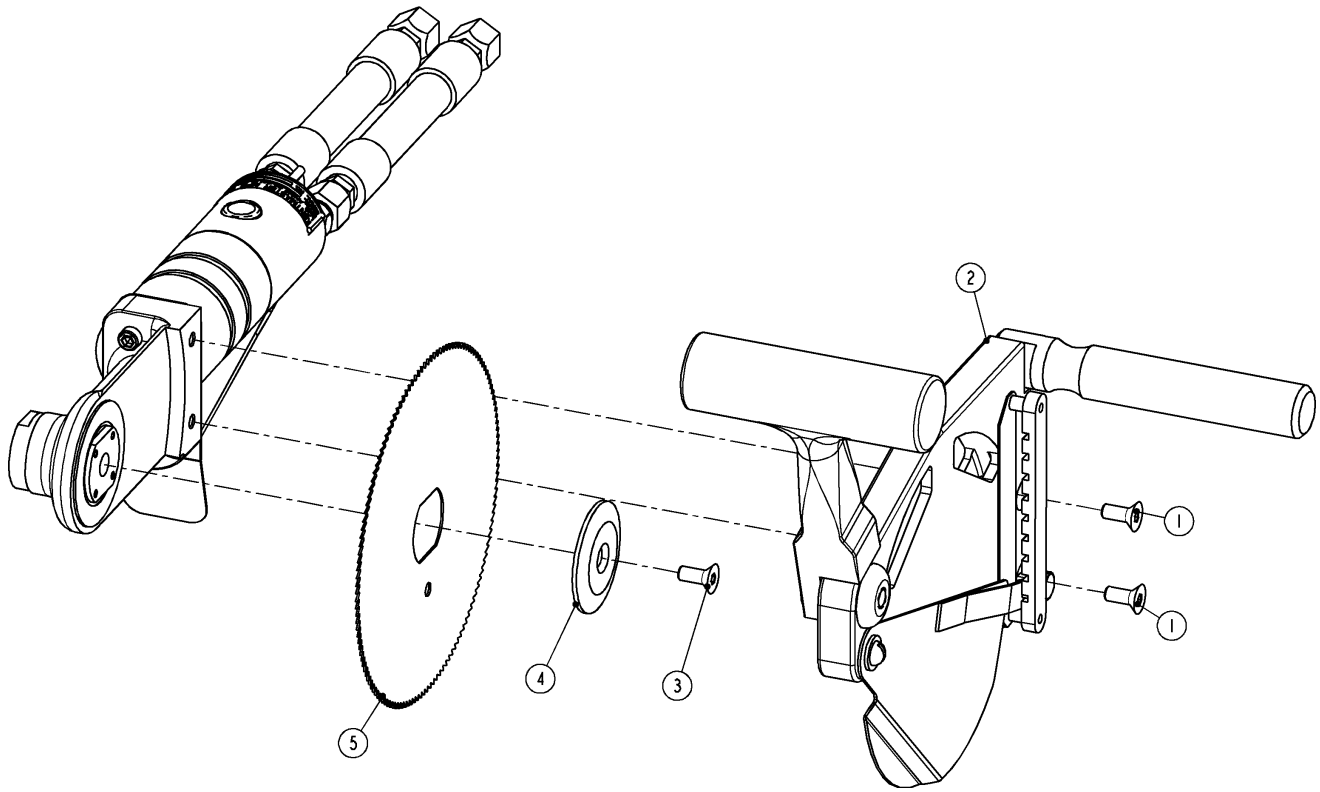
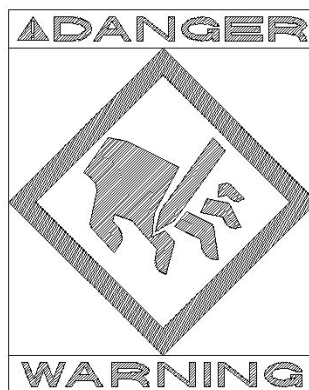


Figure 1 SC-
SERVICE

1. KEEP GOOD RECORDS OF ALL SERVICE ACTIVITY AND INCLUDE TOOL IN PREVENTIVE MAINTENANCE PROGRAM.
2. USE ONLY GENUINE KENTMASTER REPLACEMENT PARTS TO ASSURE PROPER PERFORMANCE OF TOOL.
3. CONTACT THE KENTMASTER SUPPLIER NEAREST YOU FOR PARTS AND CUSTOMER SERVICE INFORMATION.



PARTS BOOK

MODEL SC-400, SCRIBE SAW

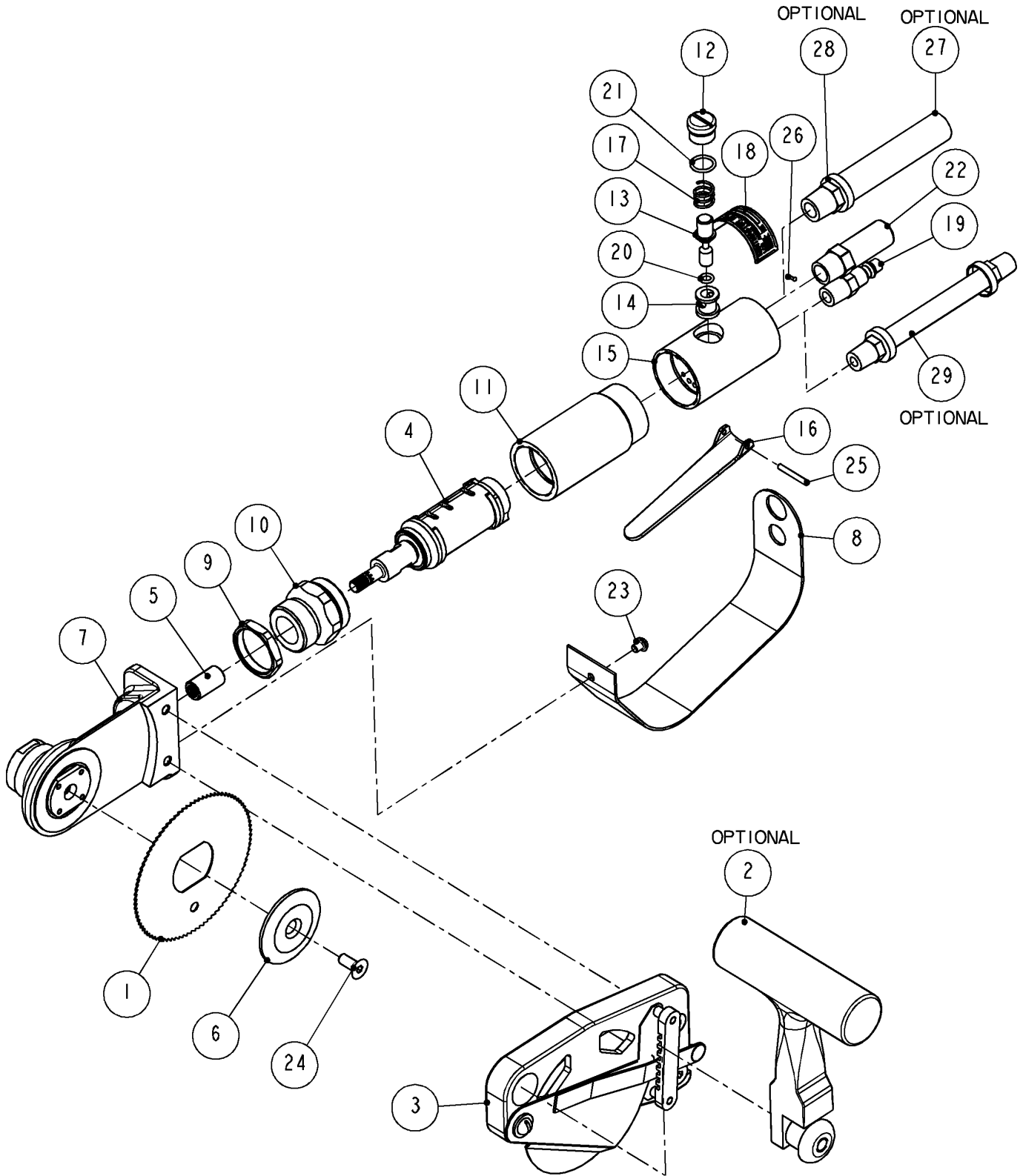


Figure 2 MODEL SC-400

6200000: SC-400, AIR OPERATED SCRIBE SAW			
ITEM	PART #	DESCRIPTION	QTY
1	4000600	4.0" SAW BLADE	1
2	6201640	FRONT HANDLE / OPTIONAL	1
3	6200220	BLADE GUARD & DEPTH GAUGE, 4" BLADE	1
4	6200800	AIR MOTOR	1
5	6201010	COUPLING	1
6	6201120	HOLDER, BLADE	1
7	6201250	GEAR HOUSING ASSEMBLY 4" & 5.5" BLADE	1
8	6201270	GUARD	1
9	6201500	LOCK NUT	1
10	6201510	ADAPTER	1
11	6201520	SHELL, MOTOR	1
12	6201530	PLUG	1
13	6201540	VALVE	1
14	6201550	BUSHING, VALVE	1
15	6201560	BODY, VALVE	1
16	6211670	LEVER	1
17	6211680	SPRING	1
18	6211690	NAME PLATE	1
19	7034070	MALE PLUG	1
20	7680090	O-RING	1
21	7680140	O-RING	1
22	7802220	MUFFLER	1
23	8029020	SCREW	1
24	8241050	SCREW	1
25	8620080	PIN	1
26	8640030	DRIVE SCREW	4
27	7301850	HOSE / OPTIONAL	1
28	7301860	FITTING / OPTIONAL	1
29	7310600	HOSE ASSEMBLY / OPTIONAL	1

Figure 3 BOM FOR MODEL SC-400

MODEL SC-550 & SC-650, SCRIBE SAW

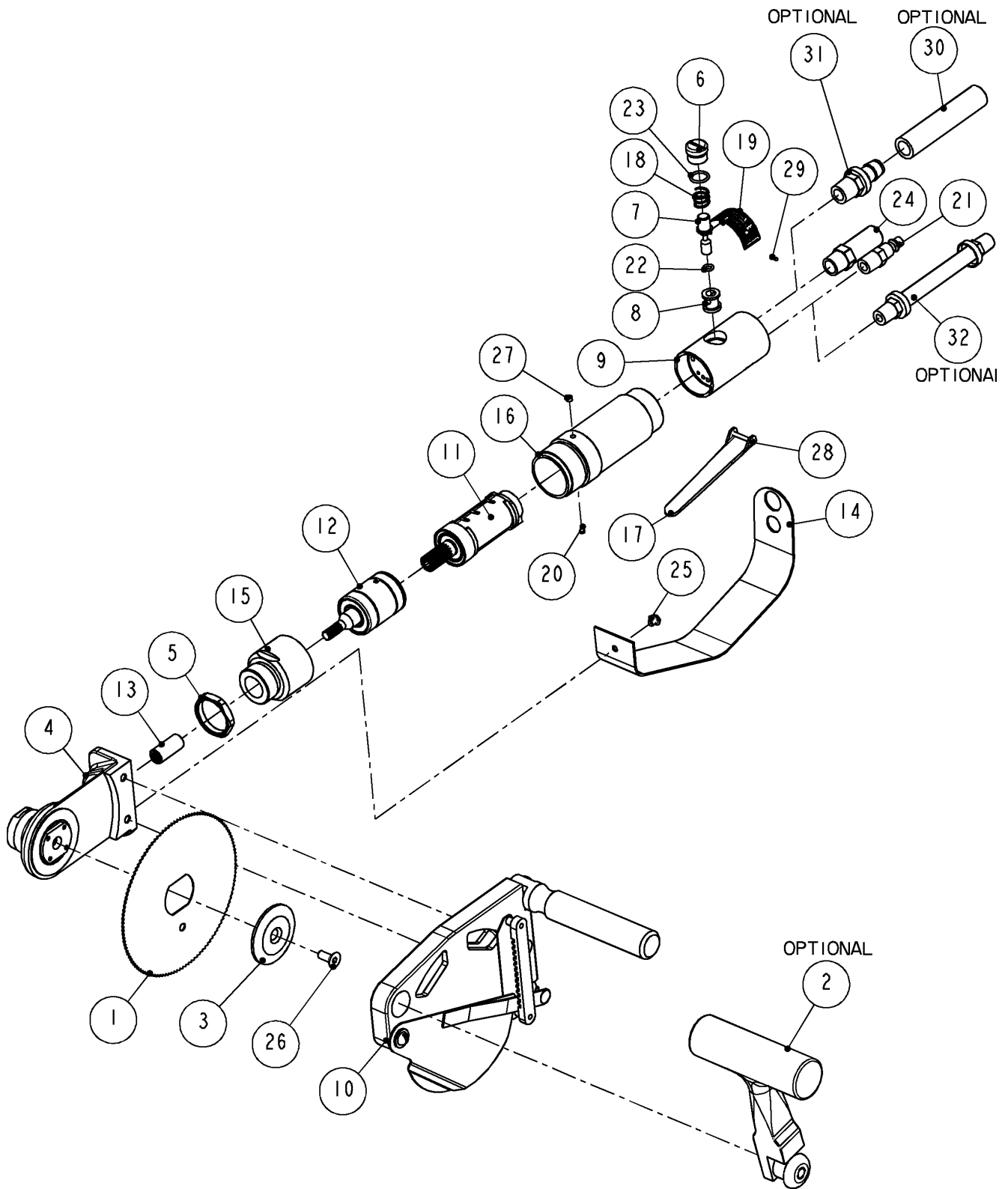
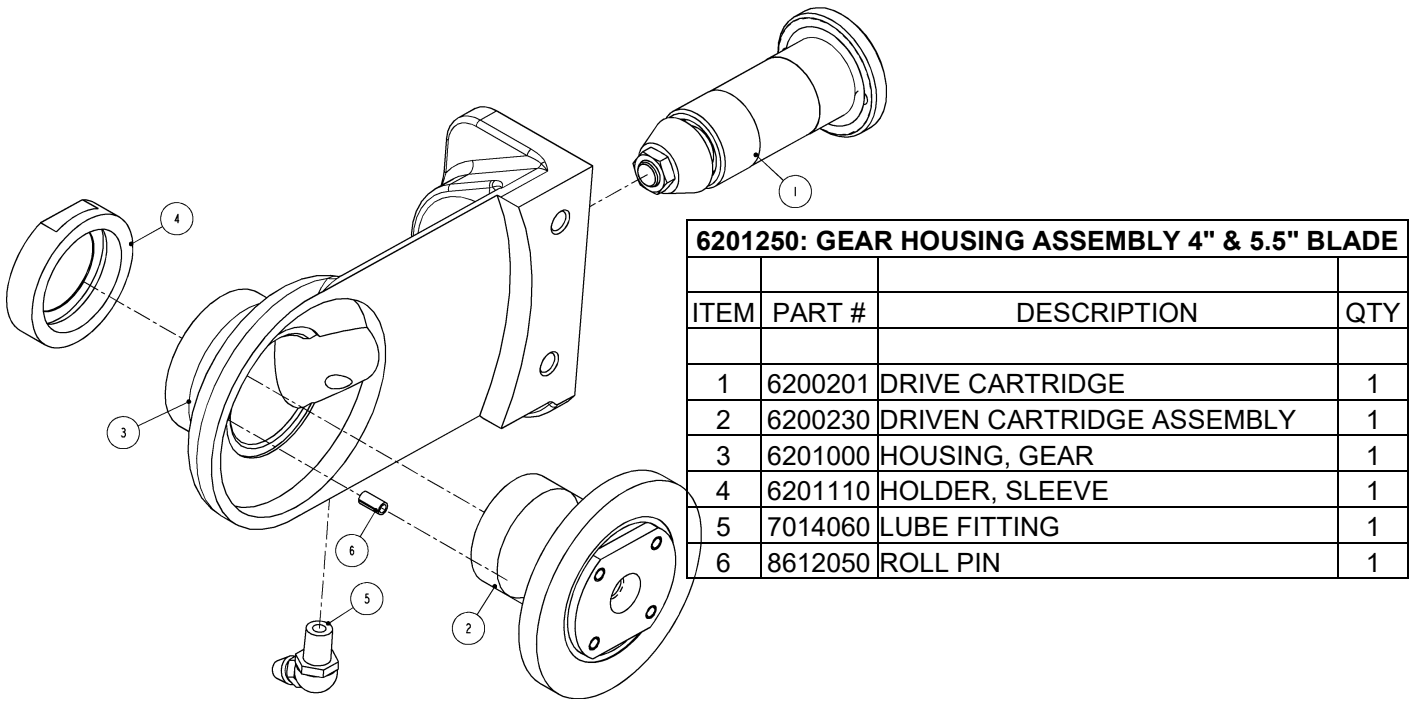


Figure 4 MODEL SC-500 & SC-650

6210000: SC-550 & 6220000: SS-650				
			6210000	6220000
			SC-550	SC-650
ITEM	PART #	DESCRIPTION	QTY	QTY
1	4000610	5.5" SAW BLADE, 120 TOOTH	1	-
	4000630	5.5" SAW BLADE, 65 TOOTH	1	-
	4000640	5.5" SAW BLADE, SKIP TOOTH, 65 TOOTH	1	-
	4000050	6.5" SAW BLADE, 140 TOOTH	-	1
	4000620	6.5" SAW BLADE, 70 TOOTH	-	1
	4000650	6.5" SAW BLADE, SKIP TOOTH, 70 TOOTH	-	1
2	6201640	FRONT HANDLE / OPTIONAL	1	1
3	6201120	HOLDER, BLADE	1	1
4	6201250	GEAR HOUSING ASSEMBLY 4" & 5.5" BLADE	1	-
	6221090	GEAR HOUSING ASSEMBLY 6.5" BLADE	-	1
5	6201500	LOCK NUT	1	1
6	6201530	PLUG	1	1
7	6201540	VALVE	1	1
8	6201550	BUSHING, VALVE	1	1
9	6201560	BODY, VALVE	1	1
	6210220	BLADE GUARD w/DEPTH GAUGE, 5.5" BLADE	1	-
10	6220220	BLADE GUARD w/DEPTH GAUGE, 6.5" BLADE	-	1
	6210800	AIR MOTOR ASSEMBLY	1	1
11	6210810	PLANETARY GEAR ASSEMBLY	1	1
12	6211010	COUPLING	1	-
	6221010	COUPLING	-	1
13	6211120	GUARD	1	1
14	6211500	ADAPTER	1	1
15	6211510	SHELL, MOTOR	1	1
16	6211670	LEVER	1	1
17	6211680	SPRING	1	1
18	6211690	NAME PLATE	1	1
19	7014050	FITTING, LUBRICATION	1	1
20	7034070	MALE PLUG	1	1
21	7680090	O-RING	1	1
22	7680140	O-RING	1	1
23	7802220	MUFFLER	1	1
24	8029020	SCREW	1	1
25	8241050	SCREW	1	1
26	8335000	SET SCREW	1	1
27	8620080	PIN	1	1
28	8640030	DRIVE SCREW	4	4
29	7301850	HOSE / OPTIONAL	1	1
30	7301860	FITTING / OPTIONAL	1	1
31	7310600	HOSE ASSEMBLY / OPTIONAL	1	1
32				

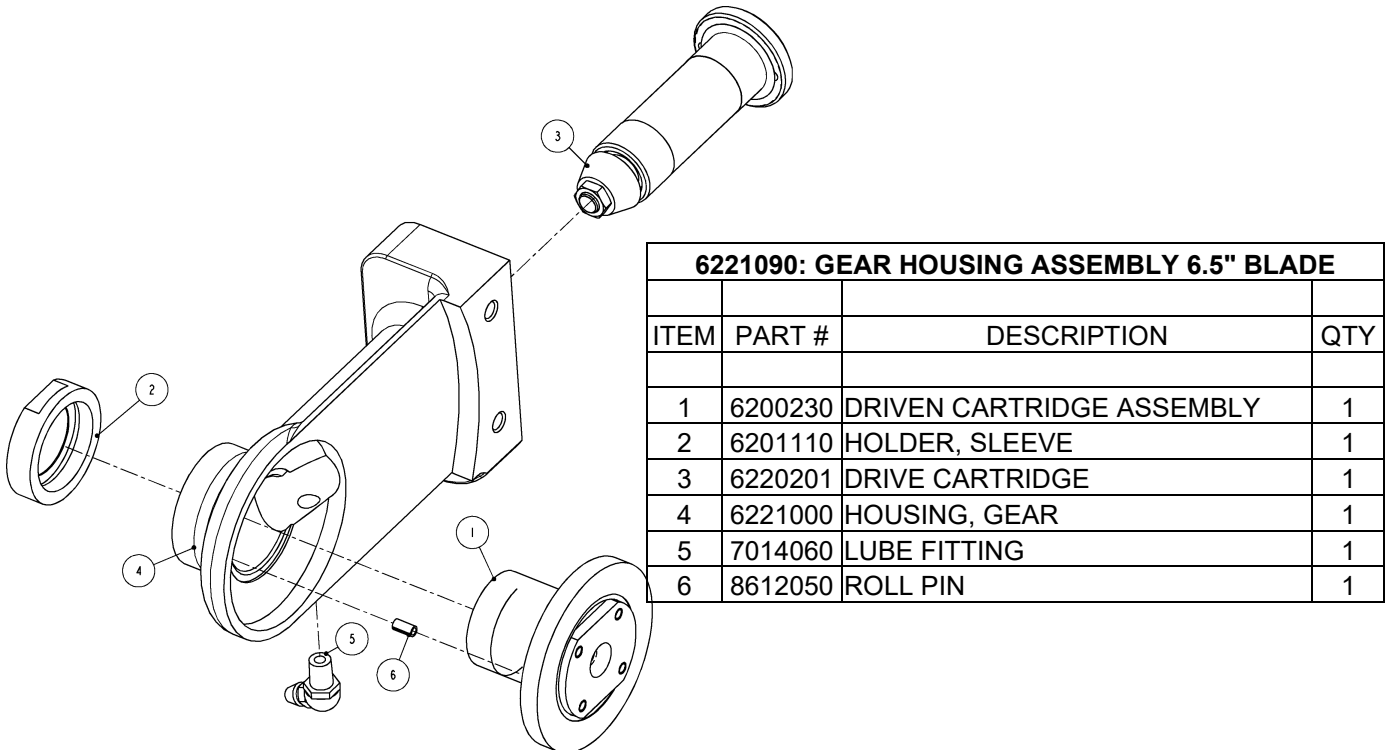
Figure 5 BOM FOR MODELS SC-500 & SC-650

GEARS AND GEAR HOUSING ASSEMBLY



6201250: GEAR HOUSING ASSEMBLY 4" & 5.5" BLADE			
ITEM	PART #	DESCRIPTION	QTY
1	6200201	DRIVE CARTRIDGE	1
2	6200230	DRIVEN CARTRIDGE ASSEMBLY	1
3	6201000	HOUSING, GEAR	1
4	6201110	HOLDER, SLEEVE	1
5	7014060	LUBE FITTING	1
6	8612050	ROLL PIN	1

Figure 6 6201250: GEAR HOUSING ASSEMBLY, SC-400 & SC-550



6221090: GEAR HOUSING ASSEMBLY 6.5" BLADE			
ITEM	PART #	DESCRIPTION	QTY
1	6200230	DRIVEN CARTRIDGE ASSEMBLY	1
2	6201110	HOLDER, SLEEVE	1
3	6220201	DRIVE CARTRIDGE	1
4	6221000	HOUSING, GEAR	1
5	7014060	LUBE FITTING	1
6	8612050	ROLL PIN	1

Figure 7 6221090: GEAR HOUSING ASSEMBLY, SC-650

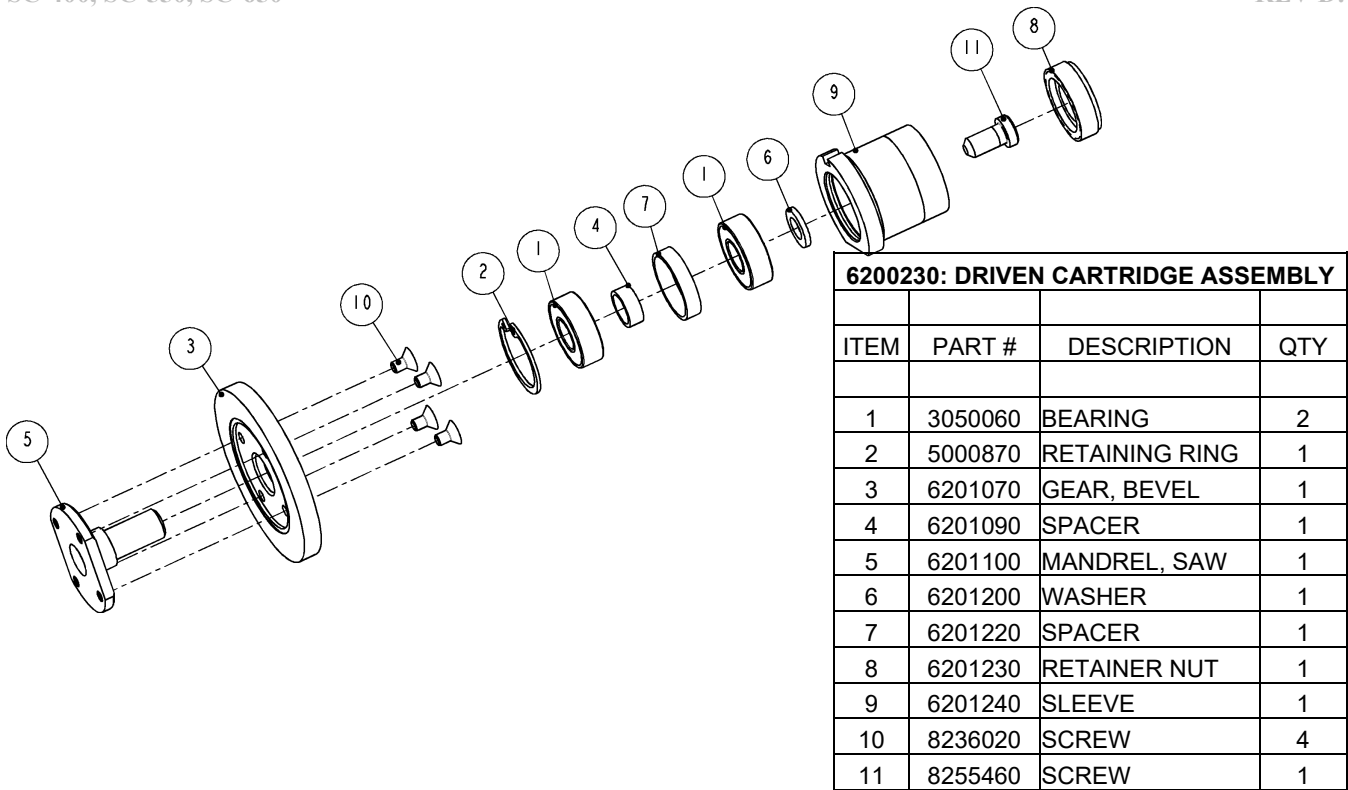


Figure 8 6200230: DRIVEN CARTRIDGE ASSEMBLY

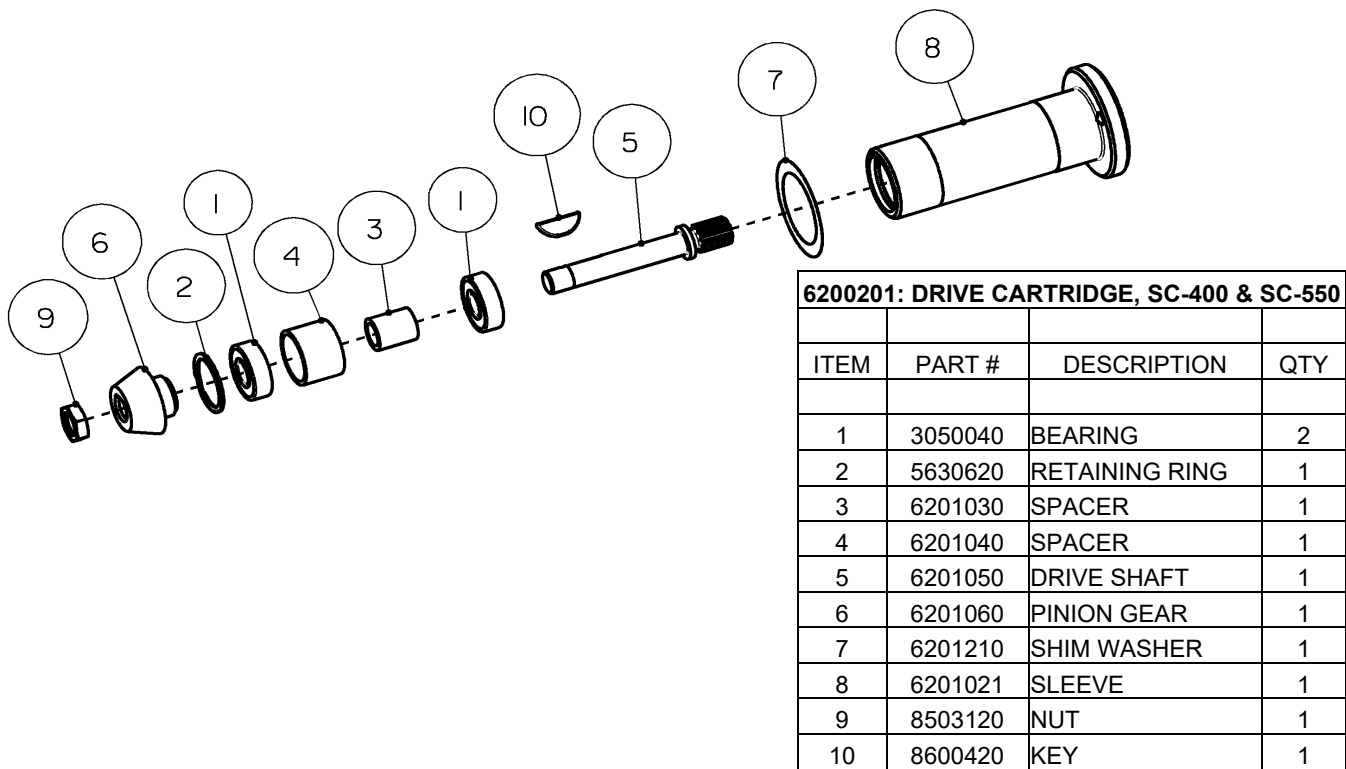


Figure 9 6200201: DRIVE CARTRIDGE ASSEMBLY, SC-400 & SC-550

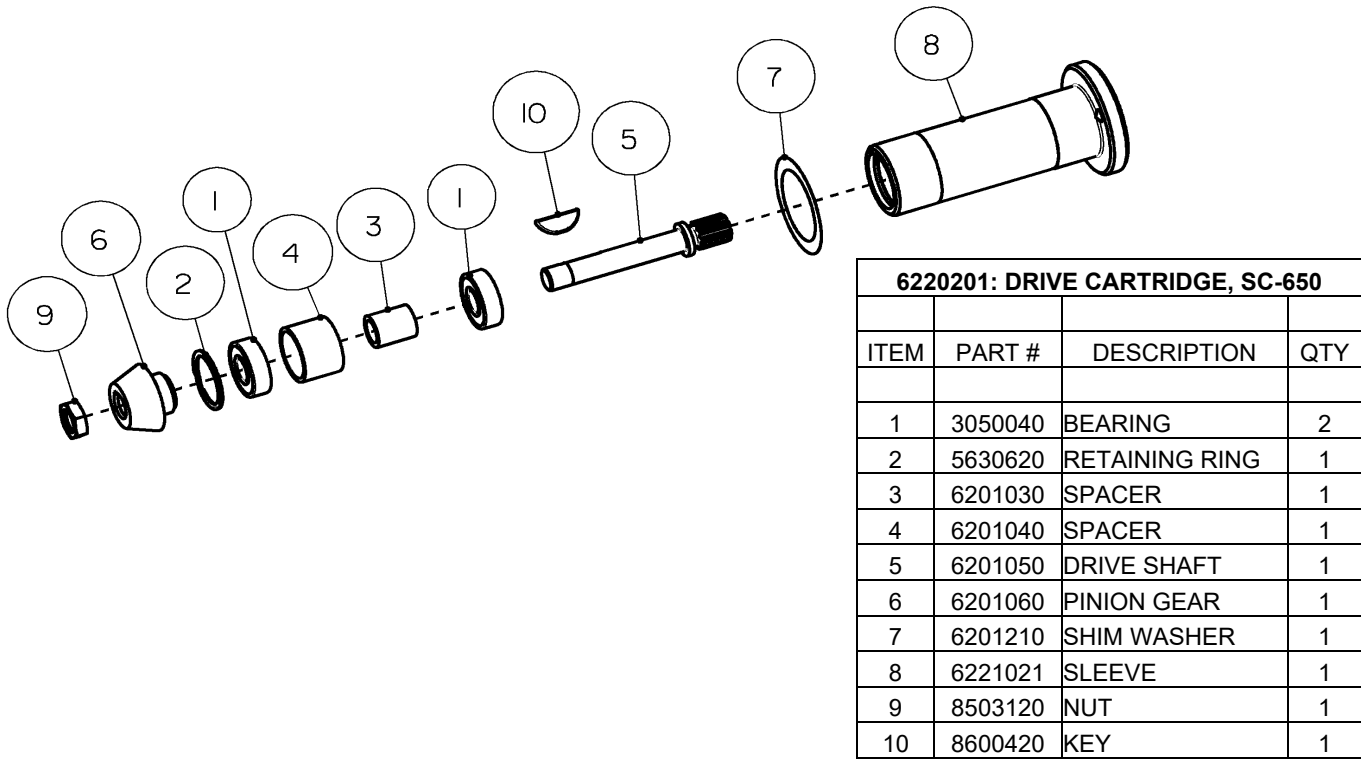


Figure 10 6220201: DRIVE CARTRIDGE ASSEMBLY, SC-650

SPECIAL TOOLS (OPTIONAL)

4501470	GREASE GUN
4501460	WRENCH, DRIVE SHAFT SLEEVE
4501450	WRENCH, ADAPTER (1-1/2)
4501440	WRENCH, LOCKNUT (1-3/8)
4501430	WRENCH, SLEEVE HOLDER (1-1/4)
ITEM	DESCRIPTION
SPECIAL TOOLS (OPTIONAL)	

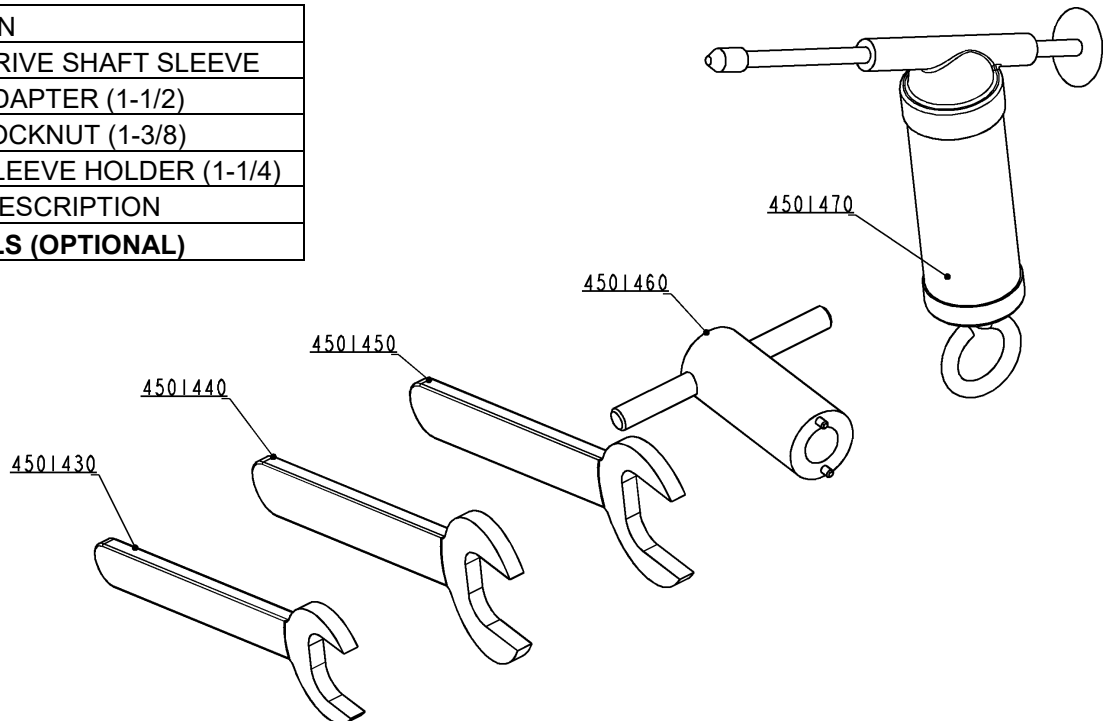
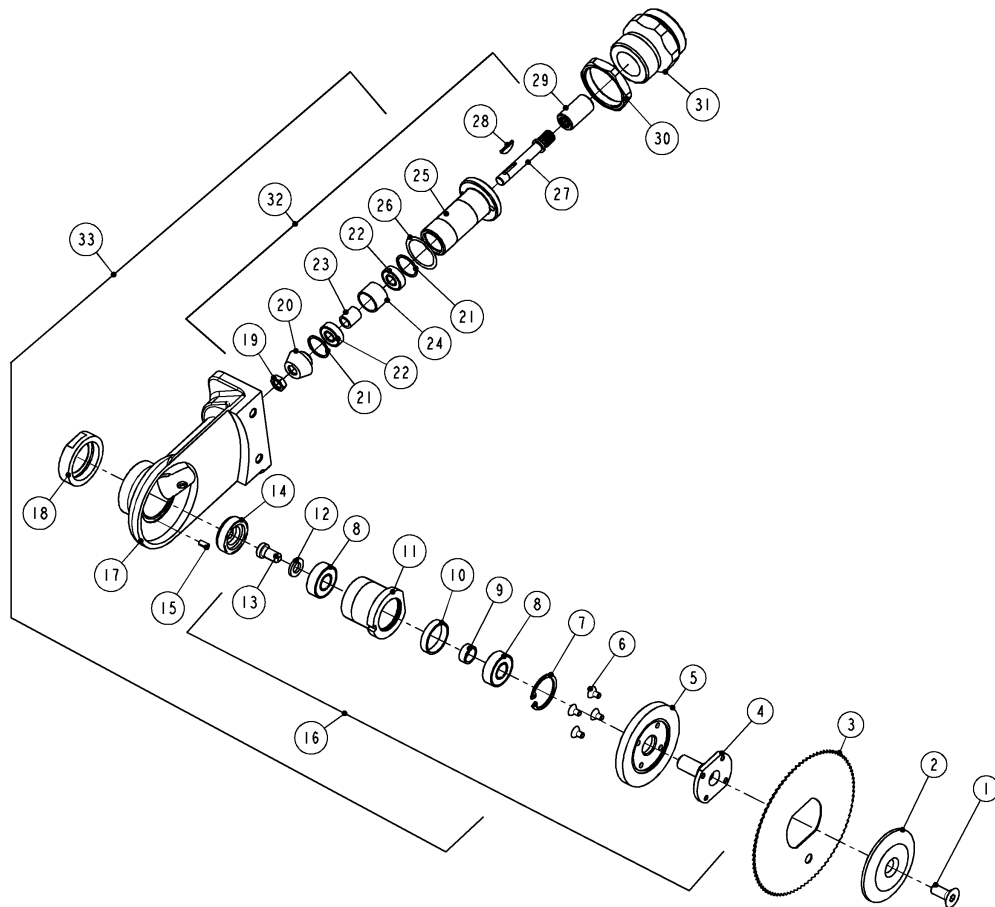


Figure 11 SC-, SPECIAL TOOLS (OPTIONAL)



GEAR HOUSING DISASSEMBLY

⚠ WARNING ALWAYS WEAR WIRE MESH GLOVES WHEN INSTALLING OR REMOVING BLADE FROM TOOL.

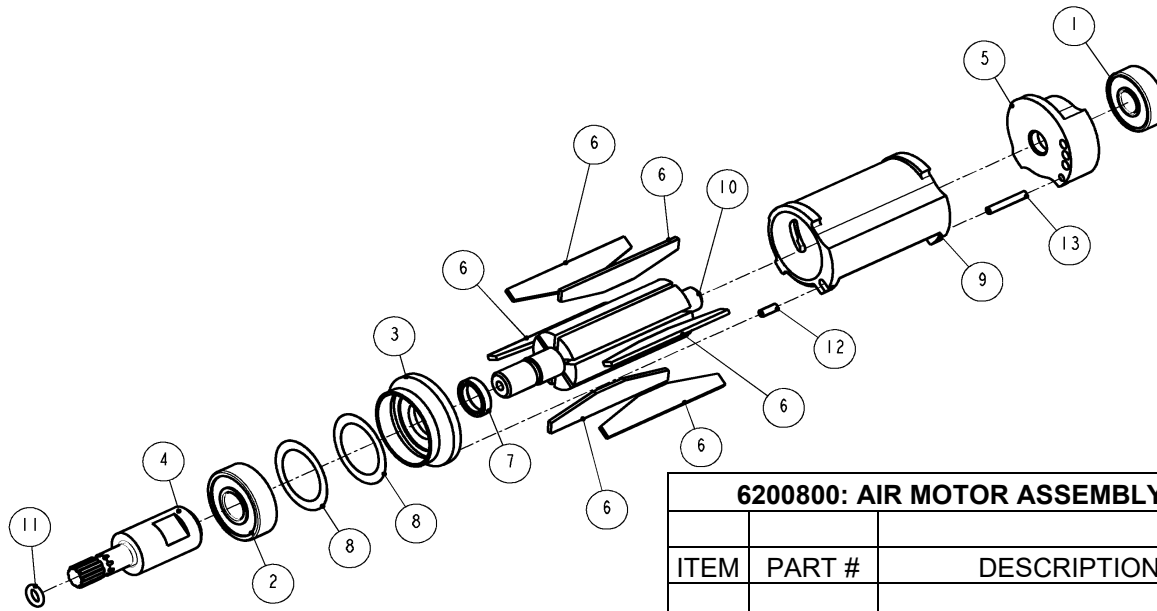
1. REMOVE SCREW, HOLDER AND BLADE, ITEMS 1-3.
2. REMOVE HOLDER, ITEM 18. THE CARTRIDGE ASSEMBLY, ITEM 16, SHOULD JUST SLIDE OUT.
3. REMOVE NUT AND SCREW, ITEMS 13 AND 14.
4. PRESS MANDREL, ITEM 4, OUT THRU BEARINGS, ITEM 8.
5. REMOVE (4) SCREWS, ITEM 6, TO DISASSEMBLE GEAR AND MANDREL, ITEMS 4 AND 5.
6. REMOVE RETAINING RING, ITEM 7, PRIOR TO PRESSING OUT BEARINGS, ITEM 8.
7. LOOSEN LOCKNUT, ITEM 30, AND REMOVE ADAPTOR, ITEM 31.
8. USING WRENCH, ITEM 4501460, SCREW OUT CARTRIDGE ASSEMBLY, ITEM 32.
9. REMOVE NUT, ITEM 19. GEAR, ITEM 20, SHOULD JUST COME OFF.
10. PRESS OUT KEY AND SHAFT, ITEMS 27 & 28.
11. REMOVE (2) RETAINING RINGS, ITEM 21, PRIOR TO PRESSING OUT BEARINGS AND SPACERS, ITEMS 22-24.

GEAR HOUSING REASSEMBLY

1. SHARPEN OR REPLACE BLADE AS NECESSARY.
2. CLEAN AND LUBRICATE ALL PARTS.
3. REPLACE PARTS AS NEEDED.
4. REASSEMBLE PARTS IN REVERSE ORDER.

Figure 12 GEAR HOUSING ASSEMBLY PROCESS

AIR MOTOR ASSEMBLY



6200800: AIR MOTOR ASSEMBLY, SC-400			
ITEM	PART #	DESCRIPTION	QTY
1	3072380	BEARING	1
2	3122000	BEARING	1
3	6201570	PLATE, BEARING FRONT	1
4	6201580	ADAPTER, SPLINE	1
5	6201590	PLATE, REAR BEARING	1
6	6211520	BLADE, MOTOR	6
7	6211540	SPACER, ROTOR	1
8	6211560	SHIM	2
9	6211610	CYLINDER	1
10	6211710	ROTOR - 6 VANES	1
11	7680080	O-RING	1
12	8611540	ROLL PIN	1
13	8611600	ROLL PIN	1

MOTOR DISASSEMBLY

1. TO DISASSEMBLE, PRESS ROTOR, ITEM 10, OUT THRU BEARING, ITEM 1. MOTOR ASSEMBLY SHOULD SLIDE APART.
2. TO SEPARATE ADAPTOR FROM ROTOR, ITEMS 4 AND 10, REMOVE BLADES, ITEM 6. INSERT A PIECE OF MATERIAL ABOUT .06" THICK (1.5mm) INTO BLADE SLOT. IT SHOULD EXTEND ABOUT 1/2" (12mm) ABOVE ROTOR SURFACE. PLACE IN VISE WITH SOFT JAWS. THIS WILL PREVENT ROTOR FROM TURNING WHEN REMOVING ADAPTOR WITH A WRENCH.
3. PRESS ROTOR, ITEM 10, OUT OF BEARING, ITEM 2.

MOTOR REASSEMBLY

1. CLEAN AND LUBRICATE ALL PARTS.
2. REPLACE PARTS AS NEEDED.
3. REASSEMBLE PARTS IN REVERSE ORDER.

Figure 13 6200800: MOTOR ASSEMBLY, SC-400 & MOTOR ASSEMBLY PROCESS

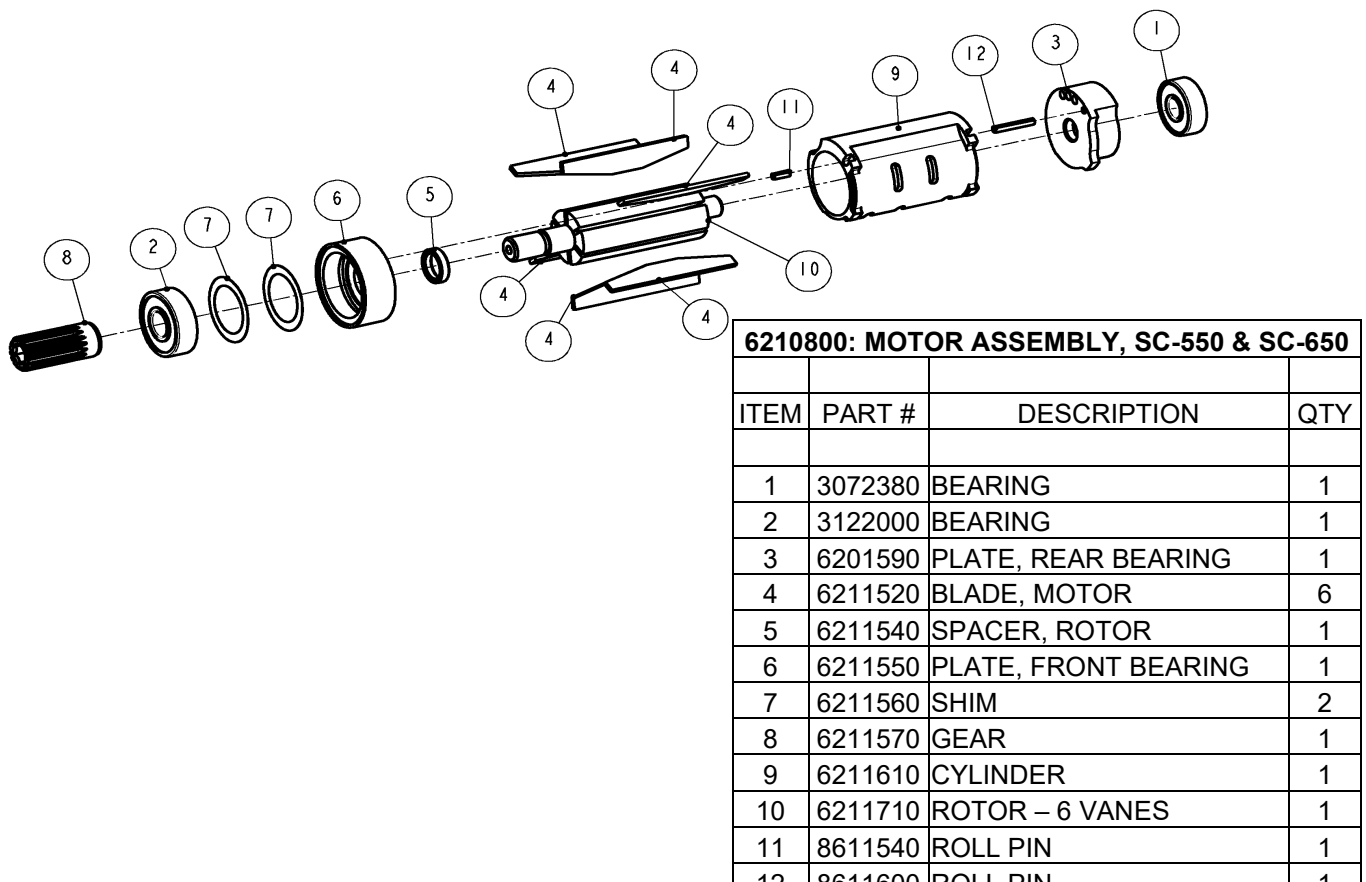


Figure 14 6210800: AIR MOTOR ASSEMBLY, SC-550 & SC-650

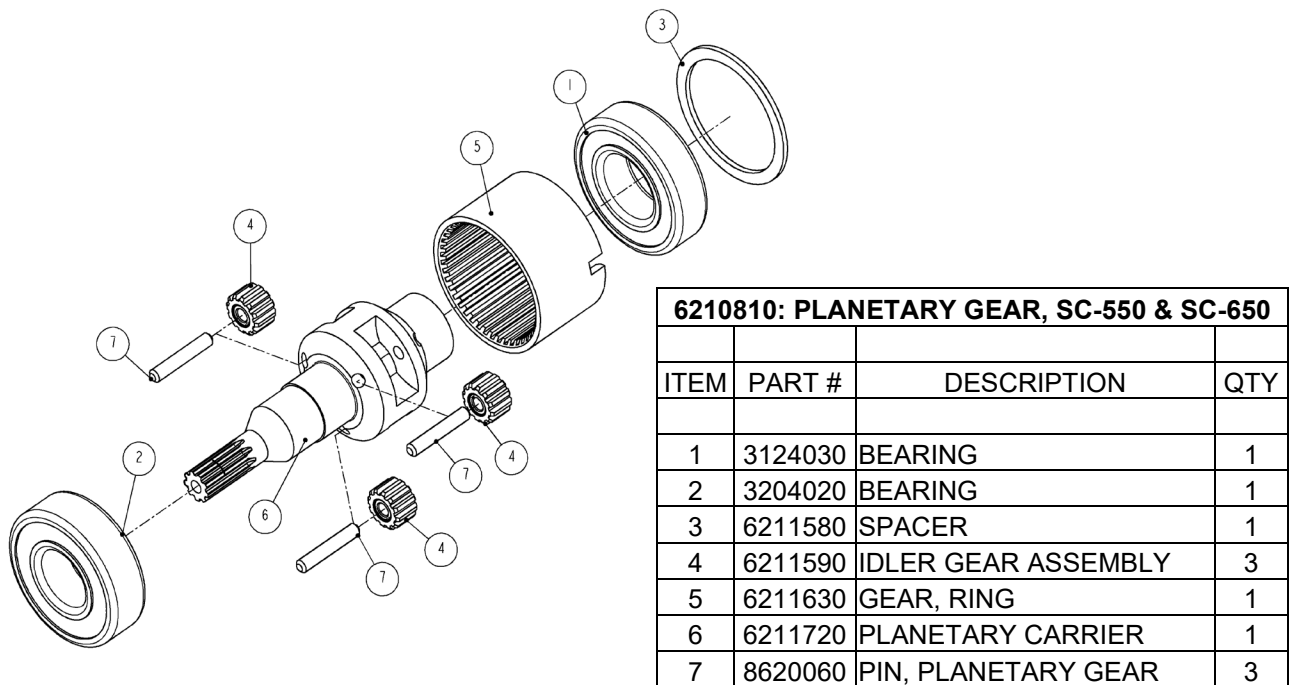
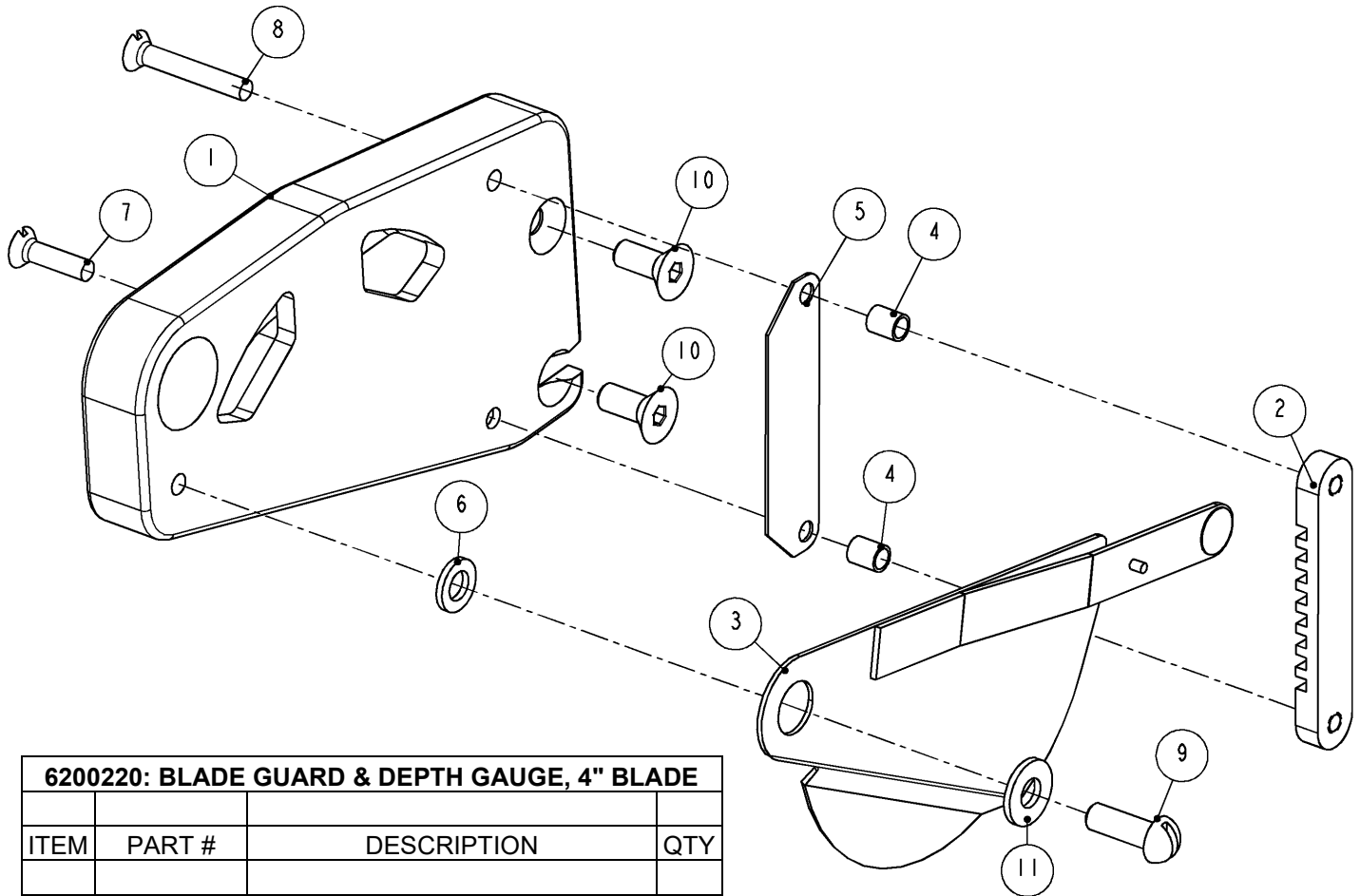


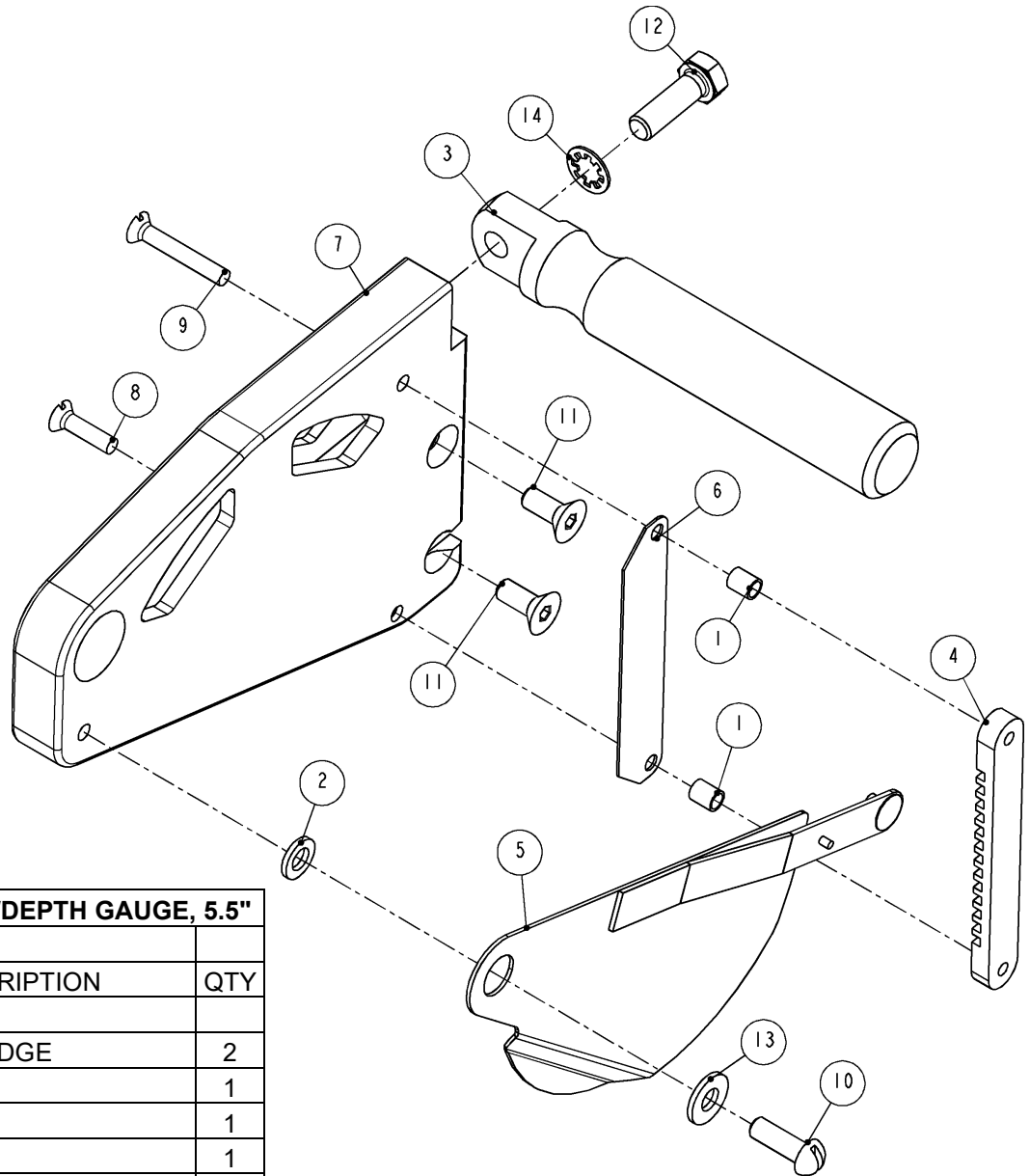
Figure 15 6210810: PLANETARY GEAR ASSEMBLY, SC-550 & SC-650

BLADE GUARD AND DEPTH GAUGE



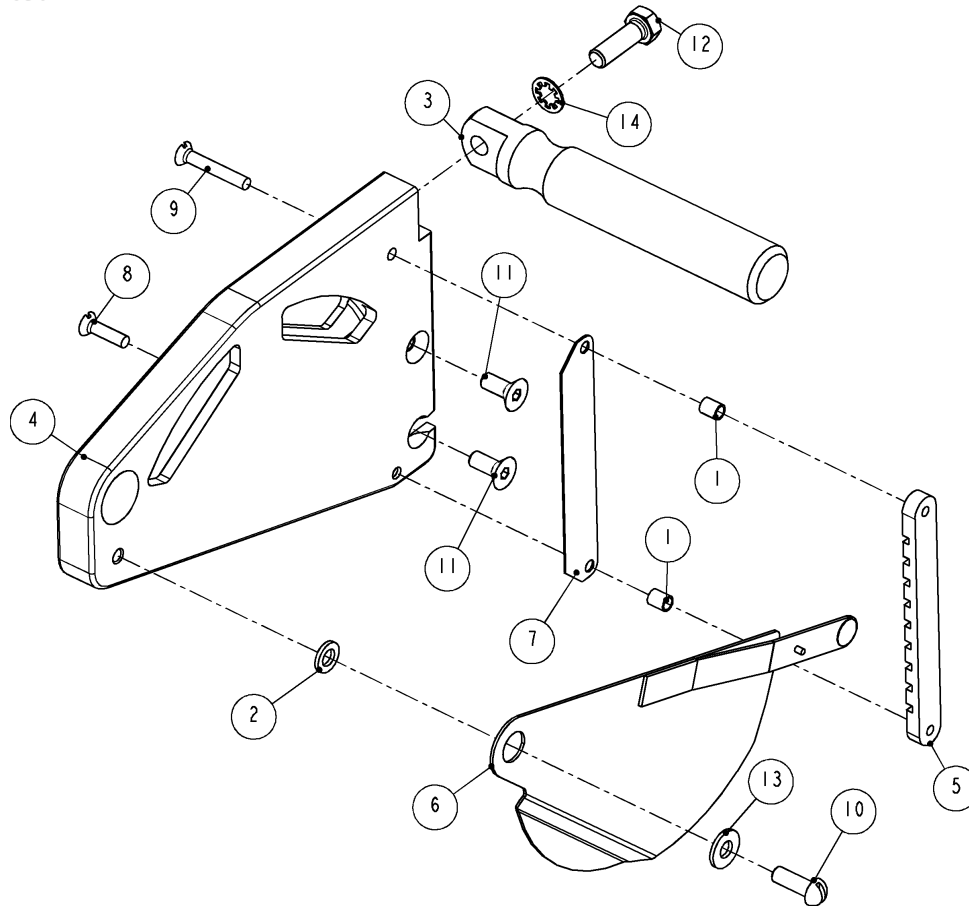
6200220: BLADE GUARD & DEPTH GAUGE, 4" BLADE			
ITEM	PART #	DESCRIPTION	QTY
1	6201130	GUARD, BLADE 4.0"	1
2	6201140	BRIDGE, 4" BLADE	1
3	6201150	DEPTH GAUGE, 4" BLADE	1
4	6201180	SPACER, BRIDGE	2
5	6201190	PLATE, FRICTION	1
6	6201200	WASHER	1
7	8010060	SCREW	1
8	8010100	SCREW	1
9	8031060	SCREW	1
10	8241050	SCREW	2
11	8505100	WASHER	1

Figure 16 6200220: GUARD AND DEPTH GAUGE, 4.0" BLADE



6210220: BLADE GUARD w/DEPTH GAUGE, 5.5"			
ITEM	PART #	DESCRIPTION	QTY
1	6201180	SPACER, BRIDGE	2
2	6201200	WASHER	1
3	6211030	HANDLE	1
4	6211040	BRIDGE	1
5	6211050	DEPTH GAUGE, 5.5" BLADE	1
6	6211070	PLATE, FRICTION	1
7	6211110	GUARD, BLADE 5.5"	1
8	8010060	SCREW	1
9	8010100	SCREW	1
10	8031060	SCREW	1
11	8241050	SCREW	2
12	8413080	SCREW	1
13	8505100	WASHER	1
14	8507150	WASHER	1

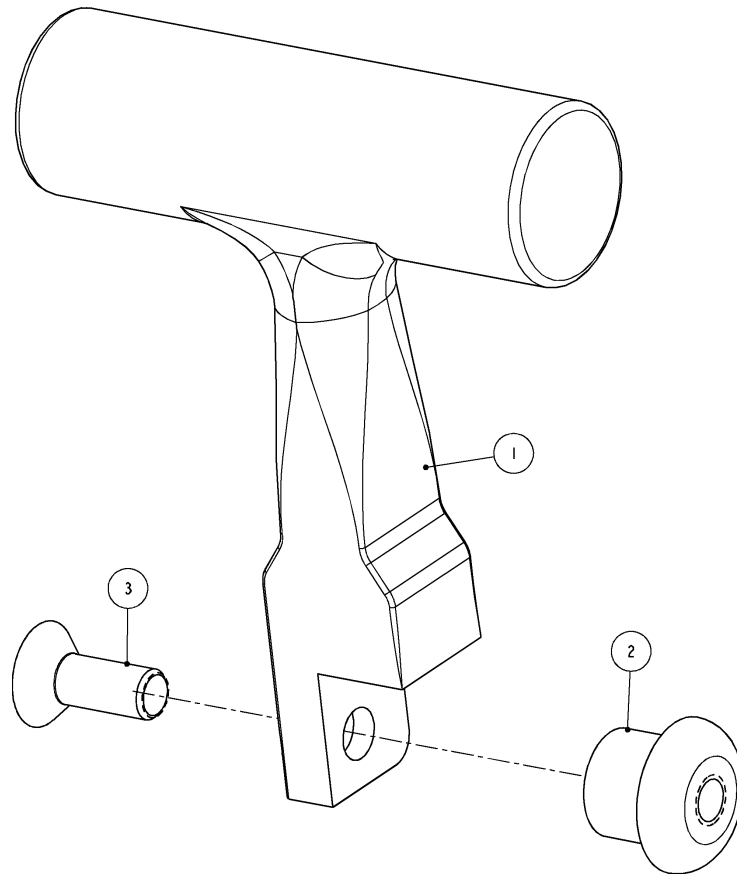
Figure 17 6210220: GUARD AND DEPTH GAUGE, 5.5" BLADE



6220220: GUARD AND DEPTH GAUGE, 6.5"			
ITEM	PART #	DESCRIPTION	QTY
1	6201180	SPACER, BRIDGE	2
2	6201200	WASHER	1
3	6211030	HANDLE	1
4	6221030	GUARD	1
5	6221040	BRIDGE	1
6	6221050	DEPTH GAUGE, 6.5" BLADE	1
7	6221070	PLATE, FRICTION	1
8	8010060	SCREW	1
9	8010100	SCREW	1
10	8031060	SCREW	1
11	8241050	SCREW	2
12	8413080	SCREW	1
13	8505100	WASHER	1
14	8507150	WASHER	1

Figure 18 6220220: GUARD AND DEPTH GAUGE, 6.5" BLADE

FRONT HANDLE (OPTIONAL)

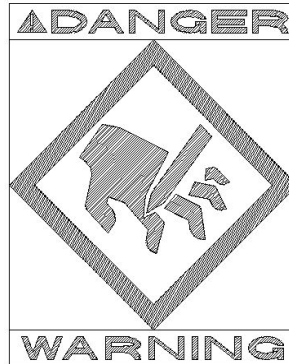


6201640: FRONT HANDLE (OPTIONAL)			
ITEM	PART #	DESCRIPTION	QTY
1	6201620	FRONT HANDLE	1
2	6201630	NUT	1
3	8245080	SCREW	1

Figure 19 6201640: FRONT HANDLE (OPTIONAL)

NOTICE TO EMPLOYER AND PURCHASER OF TOOL
NOTICE TO SAFETY DIRECTOR

You have purchased a powerful tool that, if misused, can cause severe injury and harm to your employees. You must instruct your employees in the safe and proper use of this tool and to follow the safety procedures and instructions that have been supplied by the manufacturer of this tool. Please follow the following instructions.



1. Instruct tool operators to test the tool each day before using it to be sure it does not malfunction. Remove and repair any tool that malfunctions.
2. Instruct tool operators to immediately stop using a tool that malfunctions or is defective.
3. Instruct personnel to immediately remove all tools that malfunction. Be sure to disconnect tool from power supply.
4. Instruct all personnel to stay clear of tool, and not to stand or walk in front of, or next to tool when in use.
5. Point out to all personnel the dangers related to the misuse of tool and the importance of following safety procedures and instructions.
6. Do not make, or allow others to make, alterations or modifications to this tool. Replace all lost or illegible labels.
7. Follow all safety, installation and maintenance instructions provided with this tool. Establish proper safety procedures in accordance with local and national requirements to prevent accidental energizing of tool that can cause injuries.
8. If this tool is sold or change in ownership takes place, you must provide the new owner all safety instructions, notices and maintenance instructions you were originally provided. You can obtain additional copies of the instructions from Kentmaster, free of charge upon request.
9. Give copies of instructions to: **(A) Tool Operators**
(B) Maintenance Supervisor
(C) Clean-up Supervisor

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