# 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**

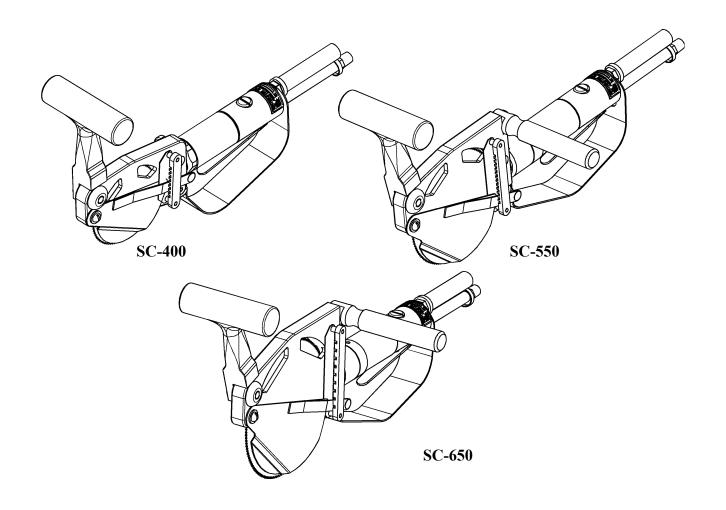
#### **TOOL DATA**

MODEL: SC-400 ASSEMBY NO. 6200000 TYPE: AIR OPERATED

NET WEIGHT: -

INLET AIR PRESSURE: 90 P.S.I. (6 BARS)

MODEL: SC-550 ASSEMBY NO. 6210000 TYPE: AIR OPERATED NET WEIGHT: -INLET AIR PRESSURE: 90 P.S.I. (6 BARS) MODEL: SC-650 ASSEMBLY NO. 6220000 TYPE: AIR OPERATED NET WEIGHT: -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.

**!**\ WARNING

**CAUTION** = 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**

DO NOT OPERATE THIS TOOL UNTIL YOU HAVE READ AND UNDERSTOOD THE SAFETY INSTRUCTIONS AND OPERATING MANUALS.	
DO NOT OPERATE THIS TOOL UNTIL YOU HAVE RECEIVED TRAINING IN THE HANDLING, OPERATION AND USE OF THIS TOOL.	
STOP USING A MALFUNCTIONING OR DEFECTIVE TOOL IMMEDIATELY. REPORT ANY PROBLEMS OR DEFECTS TO YOUR SUPERVISOR FOR REMOVAL OF THE TOOL FROM SERVICE.	
MARNING DO NOT ATTEMPT TO REPAIR THE TOOL YOURSELF.	
WARNING DO NOT ALLOW UNAUTHORIZED PERSONS TO USE TOOL.	
REMOVE AND DISCONNECT POWER FROM THE TOOL WHEN TOOL IS LEFT UNATTENDED OR IS NOT IN USE.	
NEVER TIE DOWN, BYPASS, ALTER OR MODIFY THE ACTIVATING SWITCHES OR TRIGGERS OF THIS TOOL.	F
NEVER MAKE ALTERATIONS OR MODIFICATIONS TO THIS TOOL.	
BE CONSTANTLY AWARE AND ALERT FOR UNSAFE CONDITIONS AND REPORT THEM IMMEDIATELY TO YOUR SUPERVISOR.	
NEVER PLACE YOUR HAND OR ANY PART OF YOUR BODY IN THE CUTTING PATH OF THE TOOL.	
NEVER ALLOW ANYONE ELSE TO PLACE THEIR HANDS OR ANY PART OF THEIR BODY IN THE CUTTING PATH OF THE TOOL.	
DO NOT ACTIVATE CONTROL SWITCHES OR TRIGGERS OF THIS TOOL UNLESS YOU INTEND TO TEST OR OPERATE THIS TOOL.	
DO NOT USE THIS TOOL FOR ANY PURPOSE OTHER THAN IT'S INTENDED PURPOSE.	
WHEN OPERATING THIS TOOL WEAR THE PROTECTIVE GEAR AND SAFETY EQUIPMENT SUPPLIED TO YOU.	
THE NOISE EMISSION (SOUND PRESSURE LEVEL) AT THE WORKSTATION MAY EXCEED 80 dB  (A). EAR AND SOUND PROTECTION GEAR IS REQUIRED.	

#### **OPERATING INSTRUCTIONS**

## NARNING 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.

- 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.

#### 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.
- 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.

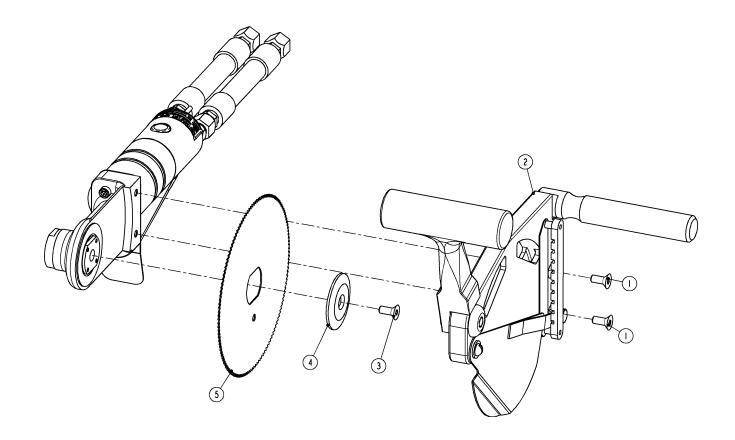


Figure 1 SC-

# **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**

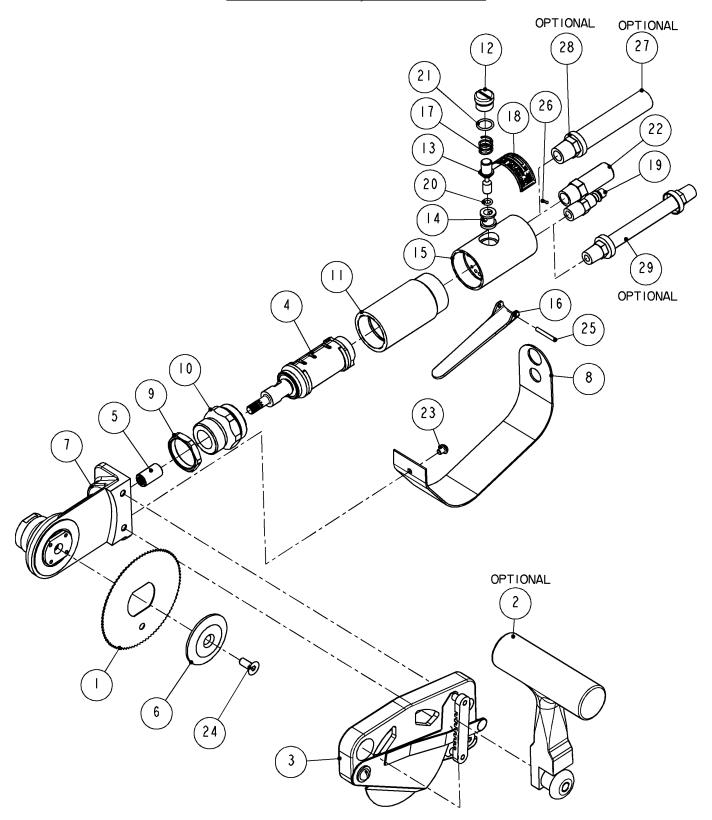


Figure 2 MODEL SC-400

	6200000: SC-400, AIR OPERATED SCRIBE SAW			
ITEM	PART#	DESCRIPTION	QTY	
1	4000600	4.0" SAW BLADE	1	
2	6201640	FRONT HANDLE / <b>OPTIONAL</b>	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 HOSING 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		1	
13	6201540	VALVE	1	
14	6201550	BUSHING, VALVE	1	
15		BODY, VALVE	1	
16	6211670	LEVER	1	
17	6211680		1	
18	6211690	NAME PLATE	1	
19	7034070	MALE PLUG	1	
20	7680090	O-RING	1	
21	7680140		1	
22		MUFFLER	1	
23	8029020		1	
24	8241050	SCREW	1	
25	8620080		1	
26		DRIVE SCREW	4	
27		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

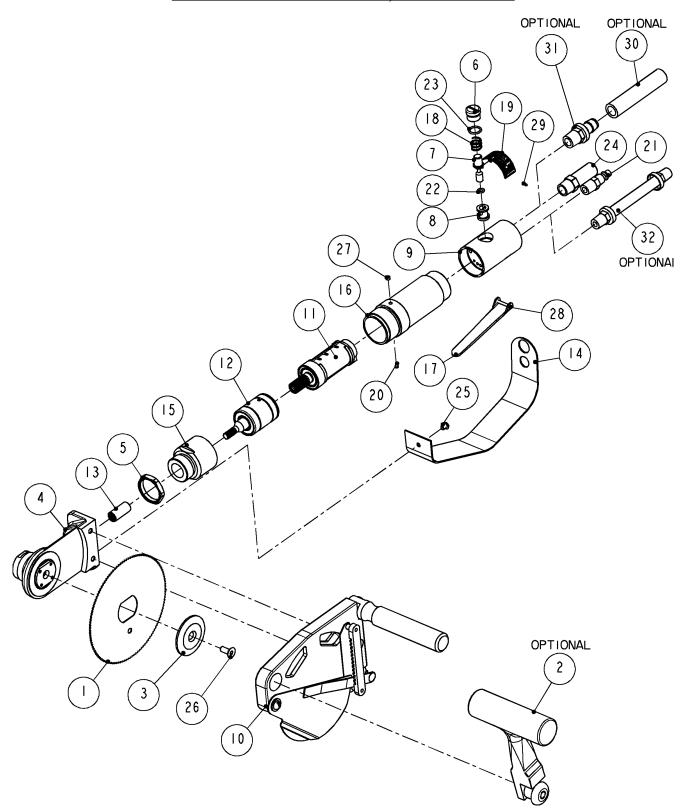


Figure 4 MODEL SC-500 & SC-650

6210000: SC-550 & 622000: SS-650				
			6210000	6220000
			SC-550	SC-650
ITEM	PART#	DESCRIPTION	QTY	QTY
	4000610	5.5" SAW BLADE, 120 TOOTH	1	-
	4000630	5.5" SAW BLADE, 65 TOOTH	1	-
1	4000640	5.5" SAW BLADE, SKIP TOOTH, 65 TOOTH	1	-
1	4000050	6.5" SAW BLADE, 140 TOOTH	-	1
	4000620	6.5" SAW BLADE, 70 TOOTH	-	1
2	4000650	6.5" SAW BLADE, SKIP TOOTH, 70 TOOTH	-	1
2	6201640	FRONT HANDLE / OPTIONAL	1	1
3	6201120	HOLDER, BLADE	1	1
		GEAR HOUSING ASSEMBLY 4" & 5.5" BLADE	1	-
		GEAR HOUSING ASSEMBLY 6.5" BLADE	-	1
5		LOCK NUT	1	1
6	6201530		1	1
	6201540		1	1
		BUSHING, VALVE	1	1
		BODY, VALVE	1 1	1
		BLADE GUARD w/DEPTH GAUGE, 5.5" BLADE	1 1	_
10		BLADE GUARD w/DEPTH GAUGE, 6.5" BLADE	-	1
11		AIR MOTOR ASSEMBLY	1	1
		PLANETARY GEAR ASSEMBLY	1 1	1
		COUPLING	1 1	
13		COUPLING	<del>                                     </del>	1
14	6211120		1 1	1
		ADAPTER	1 1	1
16		SHELL, MOTOR	1 1	1
17	6211670	,	<del>                                     </del>	1
18	6211680		1 1	1
19		NAME PLATE	1 1	1
20		FITTING, LUBRICATION	1 1	1
21		MALE PLUG	1 1	1
22	7680090		1 1	1
23	7680140		1 1	1
24		MUFFLER	1 1	1
25	8029020		1 1	1
26	8241050		1	1
27		SET SCREW	1	1
28	8620080		1	1
29		DRIVE SCREW	4	4
30		HOSE / OPTIONAL	1	1
		FITTING / OPTIONAL	1	1
31				
32	1310000	HOSE ASSEMBLY / OPTIONAL	1	1

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

# **GEARS AND GEAR HOUSING ASSEMBLY**

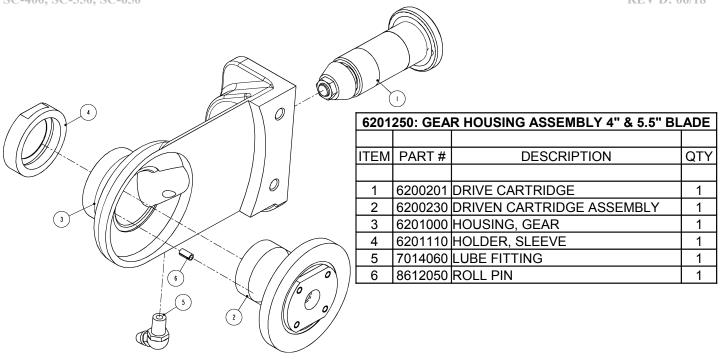


Figure 6 6201250: GEAR HOUSING ASSEMBLY, SC-400 & SC-550

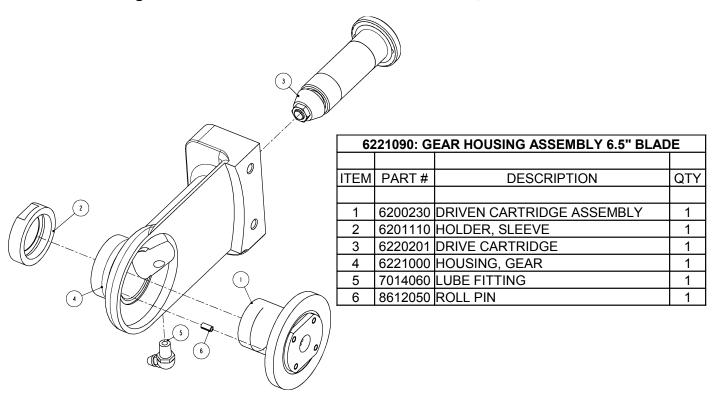
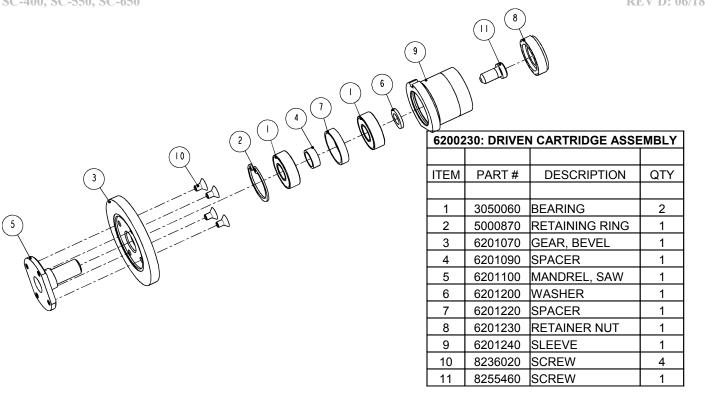
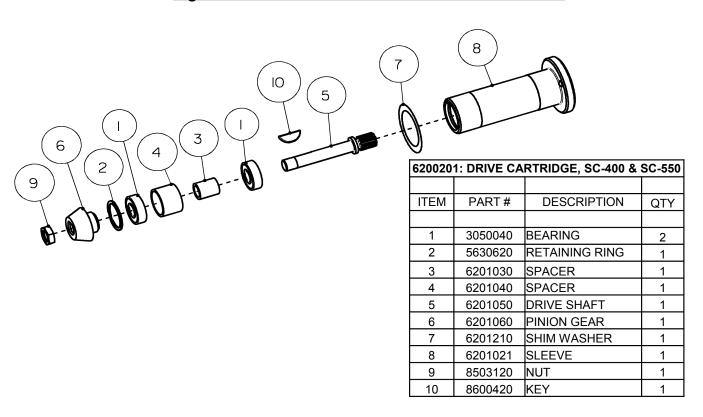


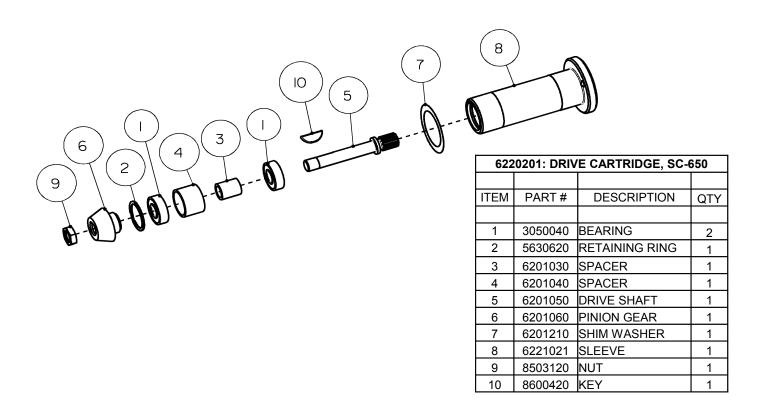
Figure 7 6201250: GEAR HOUSING ASSEMBLY, SC-650



## 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)**

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

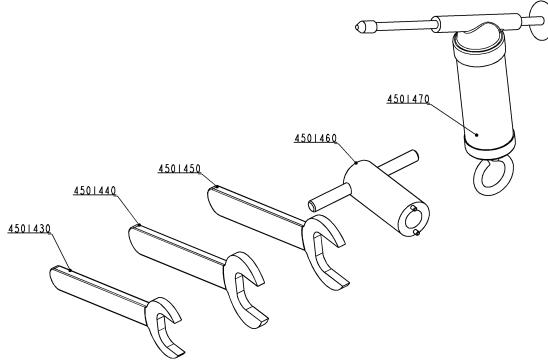
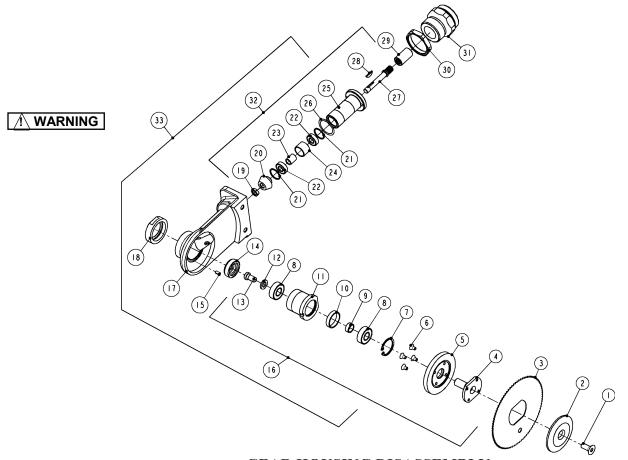


Figure 11 SC-, SPECIAL TOOLS (OPTIONAL)



**GEAR HOUSING DISASSEMBLY** 

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

**KENTMASTER MFG. CO., INC.** 1801 SOUTH MOUNTAIN AVE., MONROVIA, CALIFORNIA 91016 UNITED STATES OF AMERICA ① TELEPHONE: (626) 359-8888 FAX: (626) 303-5151

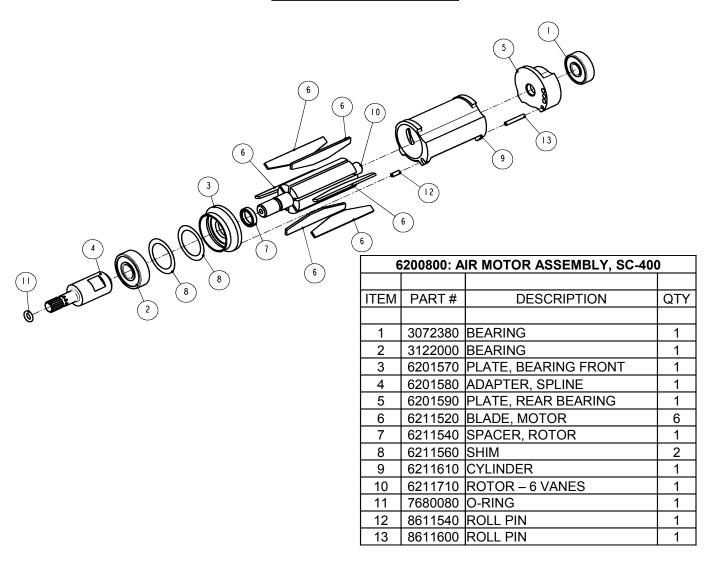
- 1. REMOVE SCREW, HOLDER AND BLADE, ITEMS 1-3.
- 2. REMOVE HOLDER, ITEM 18. THE CARTRIDGE ASSEMBLY, ITEM 16, SHOULD JUST SLIDE OUT.
- 3. REMOVE NUT AND SCREW, ITEMS 13 AND 14.
- 4. PRESS MANDREL, ITEM 4, OUT THRU BEARINGS, ITEM 8.
- 5. REMOVE (4) SCREWS, ITEM 6, TO DISASSEMBLE GEAR AND MANDREL, ITEMS 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



#### **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

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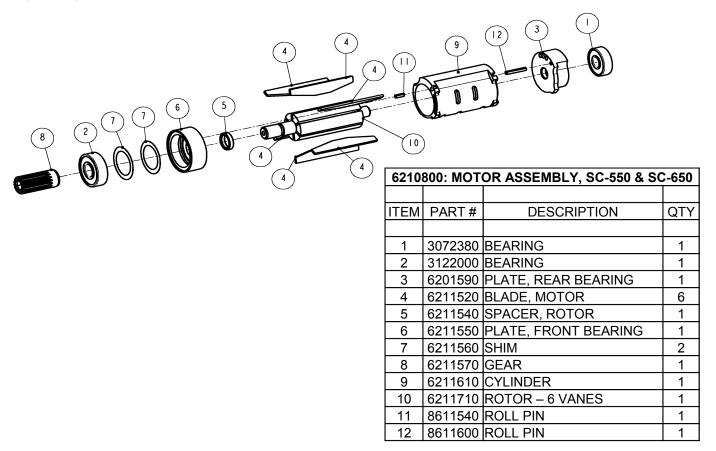


Figure 14 6210800: AIR MOTOR ASSEMBLY, SC-550 & SC-650

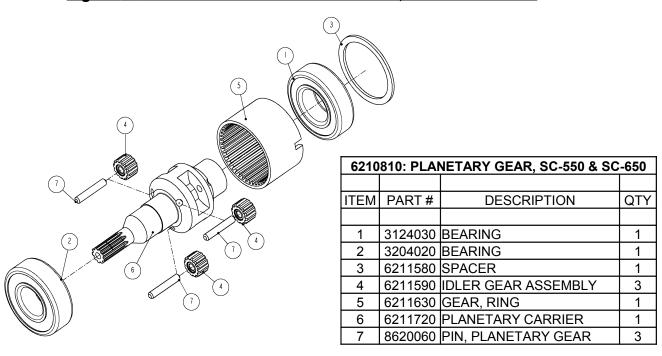


Figure 15 6210810: PLANETARY GEAR ASSEMBLY, SC-550 & SC-650

SC-400, SC-550, SC-650

#### **BLADE GUARD AND DEPTH GAUGE**

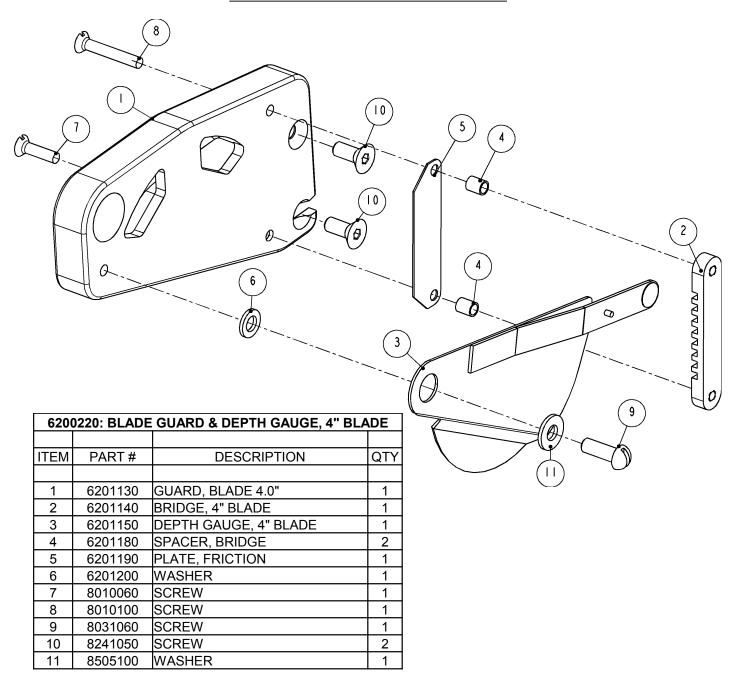


Figure 16 6200220: GUARD AND DEPTH GAUGE, 4.0" BLADE

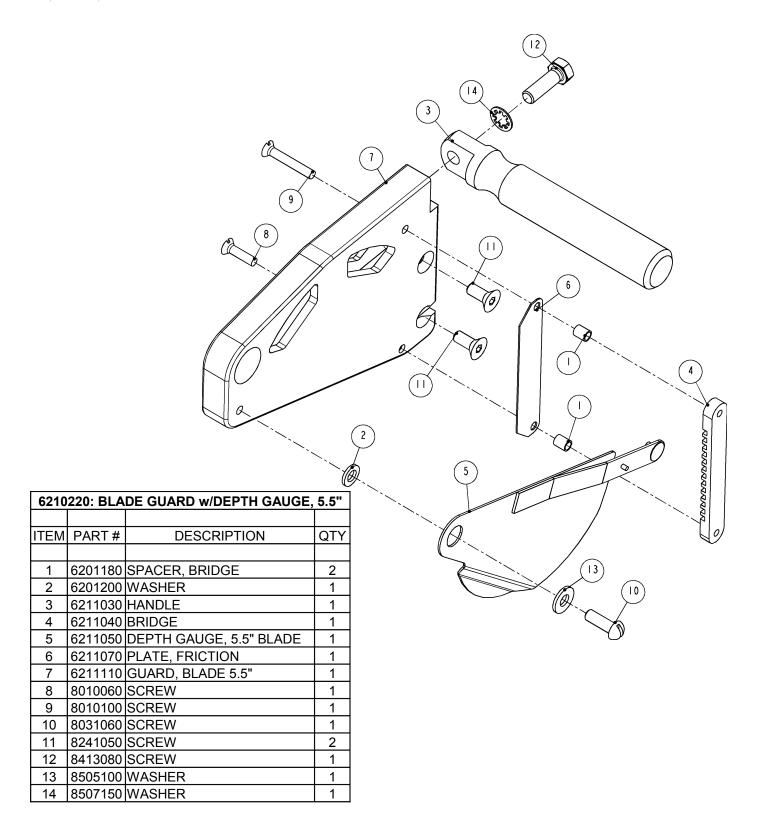
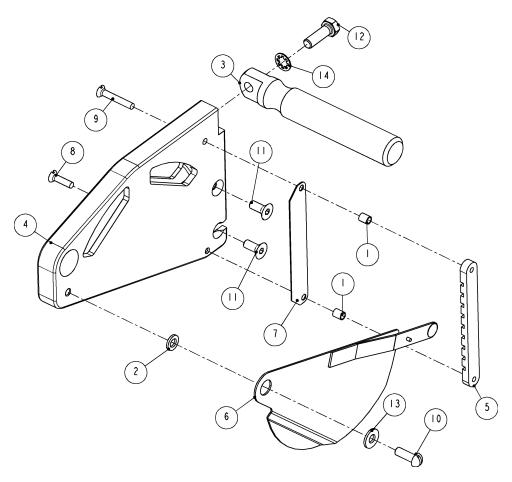


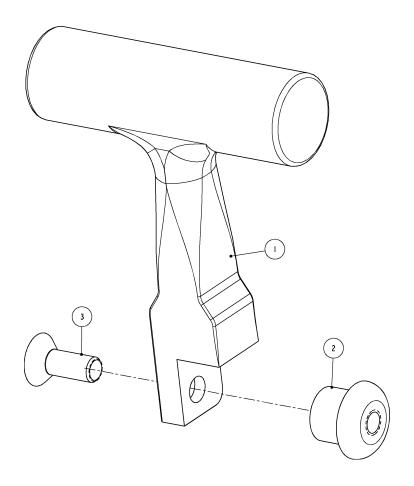
Figure 17 6210220: GUARD AND DEPTH GAUGE, 5.5" BLADE



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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