

Drwg. 3

SERVICE BOM LISTING

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.	FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	-----	Flange Bolt	(1)	60	23-66-0116	Switch	(1)
2	-----	Outer Flange	(1)	60b	-----	Switch Screws (Not Shown)	(2)
3	43-34-0790	Inner Flange	(1)	62	-----	Handle Cover	(1)
4	-----	External Retaining Ring	(1)	63	06-82-7470	#6-19 17mm Torx T-15 Screw	(9)
5	31-15-9005	Sleeve Ring	(1)	64	-----	Flat Washer	(1)
7	06-82-5285	#6-32 T-15 Pan Hd. Screw	(6)	65	-----	Depth Shaft	(1)
8	-----	Spindle Lock Cover	(1)	66	-----	Depth Adjustment Lever	(1)
9	45-06-1260	Felt Seal	(1)	67	05-74-7190	M3.5 x 30mm Pan Hd. Torx T-10 Screw	(2)
10	40-50-8046	Spindle Lock Spring	(1)	68	-----	Front Pommel	(1)
11	-----	Spindle Lock Plate	(1)	69	05-78-0032	M5 x 13mm Machine Screw	(1)
12	-----	Output Gear Sub-Assembly	(1)	70	-----	M2 x 10mm Pan Hd. Torx T-6 B Screw	(1)
16	45-04-0485	M4 x 19.8mm PH Torx T-20 Taptite Screw	(1)	74	50-55-3560	Contractor Bag (Accessory)	(1)
17	42-38-0224	Rubber Bumper	(1)	75	48-40-0740	Circular Saw Blade (Accessory)	(1)
18	-----	Pivot Shoulder Bolt	(1)	76	12-20-2805	Service Nameplate	(1)
19	-----	Upper Guard Gearcase	(1)	77	10-22-3007	Warning Label (#2)	(1)
20	-----	M6 x 6mm Hexagon Nut	(1)	78	05-78-5320	M2.3 x 5mm Pan Hd. Torx T-8 Screw	(1)
21	-----	Spindle Lock Button	(1)	79	-----	Flat Washer	(3)
22	06-82-5314	#10-24 Pan Hd. Torx T-25 Taptite Screw	(1)	80	06-82-0248	M3 x 16.5mm FH Phillips #2 B ST Screw	(2)
23	-----	Lower Guard Lever	(1)	81	28-20-0038	Coin Cell Battery Cover	(1)
24	-----	Lower Guard	(1)	83	-----	M2 x 5mm T-8 PT Screw	(3)
25	49-68-5212	Spring	(1)	84	-----	Vaclink ONE-KEY UI Panel	(1)
26	05-78-1005	M3.5 x 12mm Philips M Screw	(1)	85	-----	Vaclink ONE-KEY UI Button	(1)
27	-----	Dust Port	(1)	86	06-82-7475	#6-19 Torx T-15 PH L=.875" ST Screw	(1)
29	06-10-0110	Carriage Bolt (Short Neck)	(1)	87	10-22-3006	Warning Label (#1)	(1)
31	-----	Hexagon Nut	(1)	88	10-15-9730	ID Label	(1)
32	-----	Bowed E-Ring	(1)	100	31-44-0323	Handle Kit	(1)
33	-----	Depth Adjustment Knob	(1)	101	14-46-9961	Dust Tube Kit	(1)
34	-----	Washer	(1)	102	14-46-9962	Spindle Lock Kit	(1)
35	06-10-0025	M6 x 1 Bevel Machine Screw	(1)	103	14-47-1270	Output Gear Assembly	(1)
36	-----	Shoe Assembly	(1)	104	14-46-9963	Gearcase Kit	(1)
37	40-50-0650	Rip Fence Spring	(1)	105	14-20-0404	PCBA & Stator Assembly	(1)
38	-----	Rip Fence Knob	(1)	106	45-16-3260	Shoe Kit	(1)
39	45-88-9320	Blade Bolt Wrench	(1)	107	16-01-6530	Rotor Assembly	(1)
40	-----	O-Ring	(1)	108	14-46-9965	Plunge Lever Kit	(1)
44	05-74-1030	M5 x 12mm Torx T-25 Pan. Hd. Screw	(2)	109	14-46-9966	Blade Retention Kit	(1)
45	-----	Rotor Sub-Assembly	(1)	110	14-46-9968	Lock-Off Trigger Kit	(1)
46	05-78-1010	M3.5 x 12mm Pan Hd. Torx T-10 Screw	(2)	111	31-44-0325	Pommel Kit	(1)
47	42-32-0028	M4 x 70mm Pan Hd. Torx T-20 Screw	(3)	112	49-22-9940	Rip Fence Kit	(1)
50	06-82-0243	M2 x 6mm Torx T-6 PT Screw	(3)	113	14-46-9967	Rafter Hook Assembly	(1)
51	06-82-9637	M6 x 28mm Pan Hd. Torx T-30 Screw	(2)	114	28-41-2040	Lower Guard Assembly	(1)
57	-----	Handle Support	(1)	115	31-44-0344	UI Kit	(1)
58	-----	Button Flake	(1)	130	-----	Coin Cell Battery (CR2032)	(1)
59	-----	Switch Lock Button	(1)			- See local hardware store	

SCREW TORQUE SPECIFICATIONS

FIG.	PART NO.	DESCRIPTION OF FASTENER	QTY	WHERE USED	SEAT TORQUE	
					(kgf-cm)	(lb-in)
1	-----	Flange Bolt	1	For Flange	10 ± 1	9 ± 1
7	06-82-5285	#6-32 T-15 Pan Hd. Screw	6	For Outhub and Spindle Lock Cover	17 ± 3	15 ± 2.6
16	45-04-0485	M4 x 19.8mm PH Torx T-20 Taptite Screw	1	For Rubber Bumper	35 ± 4	30 ± 3.5
18	-----	Pivot Shoulder Bolt	1	For Bevel Pivot	22 ± 2	19 ± 1.7
22	06-82-5314	#10-24 Pan Hd. Torx T-25 Taptite Screw	1	For Lower Guard Lever	35 ± 4	00 ± 3.5
31	-----	Hexagon Nut	1	For Bevel	22 ± 2	19 ± 1.7
44	05-74-1030	M5 x 12mm Torx T-25 Pan. Hd. Screw	2	For Bearing Retainer Plate	30 ± 3	26 ± 2.6
46	05-78-1010	M3.5 x 12mm Pan Hd. Torx T-10 Screw	2	For Right Handle	10 ± 1	9 ± 1
47	42-32-0028	M4 x 70mm Pan Hd. Torx T-20 Screw	3	For Stator	18 ± 2	16 ± 1.7
50	06-82-0243	M2 x 6mm Torx T-6 PT Screw	3	For Hall Board	2.5 ± 0.3	2.2 ± 0.3
51	06-82-9637	M6 x 28mm Pan Hd. Torx T-30 Screw	2	For Rafter Hook Bracket	25 ± 3	22 ± 2.6
60b	-----	Switch Screws	2	For Switch	10 ± 1	9 ± 1
63	06-82-7470	#6-19 17mm Torx T-15 Screw	9	For Left Handle	11 ± 1	10 ± 1
65	-----	Depth Shaft	1	For Depth Shaft	40 ± 4	35 ± 3.5
67	05-74-7190	M3.5 x 30mm Pan Hd. Torx T-10 Screw	2	For Left Handle	13 ± 2	11 ± 1.7
69	49-16-2718	M5 x 13mm Machine Screw	1	For Depth Lever	30 ± 3	26 ± 2.6
70	-----	M2 x 10mm Pan Hd. Torx T-6 B Screw	1	For Worklight	2.8 ± 0.3	2.4 ± 0.3
78	05-78-5320	M2.3 x 5mm Pan Hd. Torx T-8 Screw	1	For Left Handle	1.6 ± 0.5	1.4 ± 0.4
80	06-82-0248	M3 x 16.5mm FH Phillips #2 B ST Screw	2	For Coin Cell Battery Cover	4.5 ± 0.3	3.9 ± 0.3
83	-----	M2 x 5mm T-8 PT Screw	3	For UI Panel	2.4 ± 0.3	2.1 ± 0.3
86	06-82-7475	#6-19 Torx T-15 PH L=.875" ST Screw	1	For Pommel	14 ± 2	12 ± 1.7

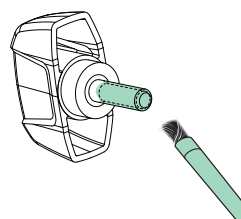
LUBRICATION INSTRUCTIONS

► Type "J" Grease

No. 49-08-4220, 1 lb can

Apply thin coat of grease to areas indicated.

NOTE: When servicing, remove 90-95% of the existing grease prior to installing Type "J". Original grease may be similar in color but not compatible with "J".

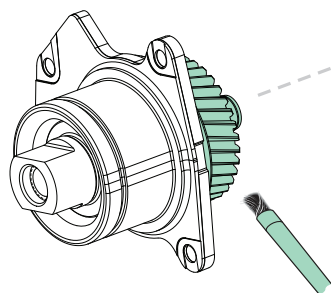


Apply about 0.2 g of Grease
on the Knob Thread (38)

Apply about 4.5 ~5 g of Grease
on the surface of the Upper
Guard Gearcase (19)



Apply about 0.05 g of
Grease on the surface
of the O-Ring (40)



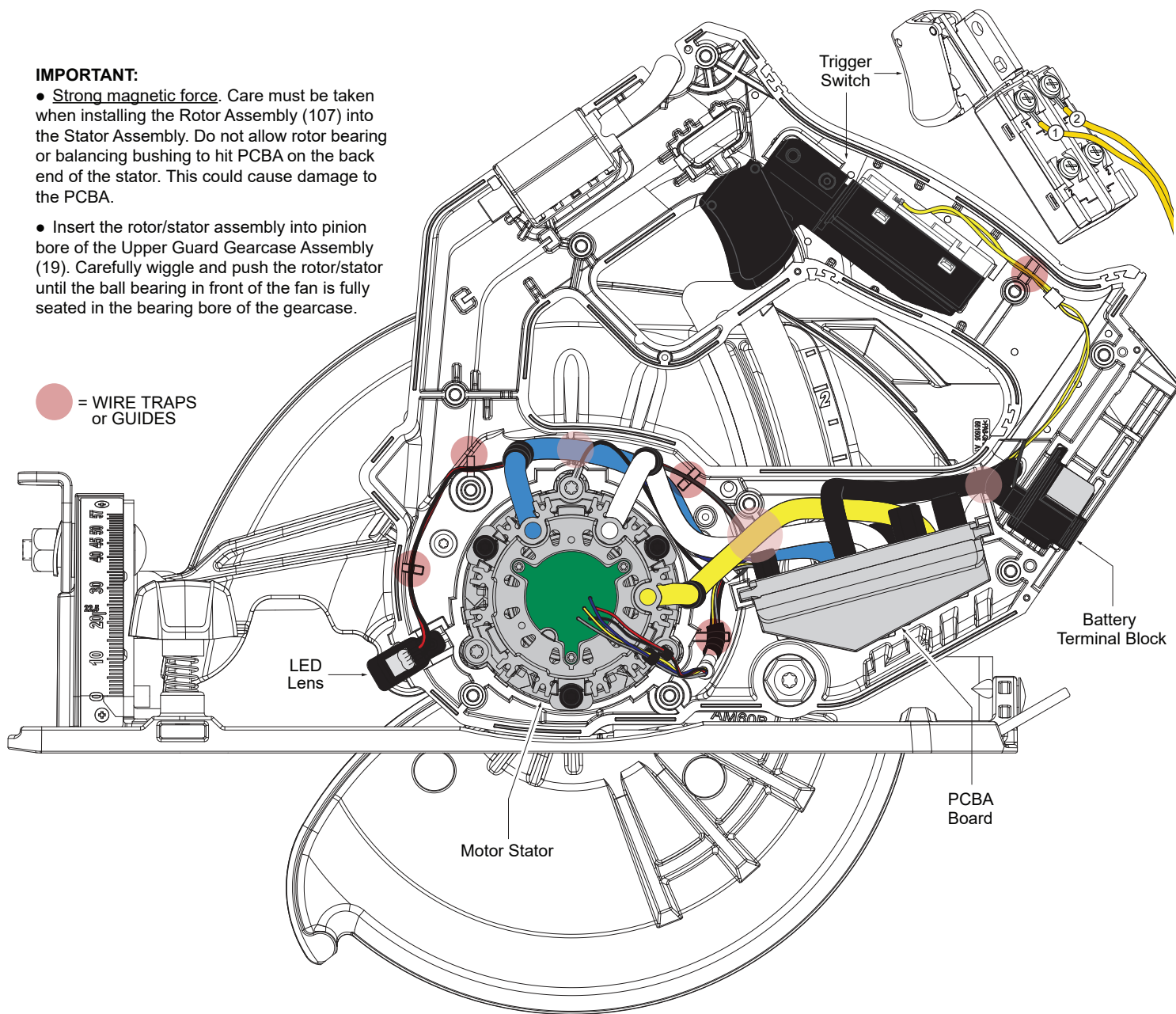
Apply about 2 ~2.5 g of Grease
on the surface of the Gear and
Output Shaft (12)

WIRING DIAGRAM

IMPORTANT:

- Strong magnetic force. Care must be taken when installing the Rotor Assembly (107) into the Stator Assembly. Do not allow rotor bearing or balancing bushing to hit PCBA on the back end of the stator. This could cause damage to the PCBA.
- Insert the rotor/stator assembly into pinion bore of the Upper Guard Gearcase Assembly (19). Carefully wiggle and push the rotor/stator until the ball bearing in front of the fan is fully seated in the bearing bore of the gearcase.

● = WIRE TRAPS
or GUIDES



HOW TO REPLACE THE ELECTRONICS ASSEMBLY (FIG.105)

NOTE: Tool model 2834-20 shown in pictures



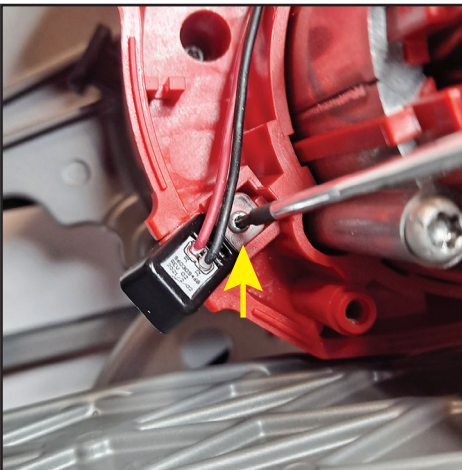
Remove two T-30 screws (fig.51) from rafter hook assembly.



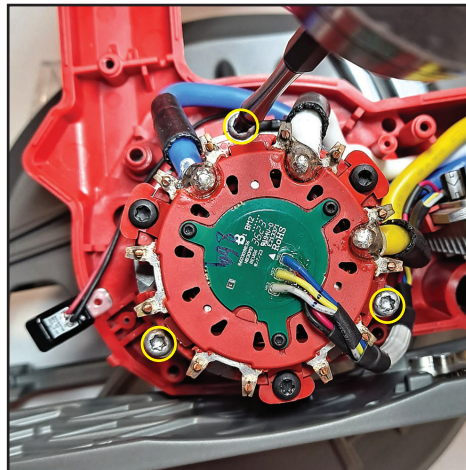
Remove T-25 screw (fig.69) from inside plunge lever.



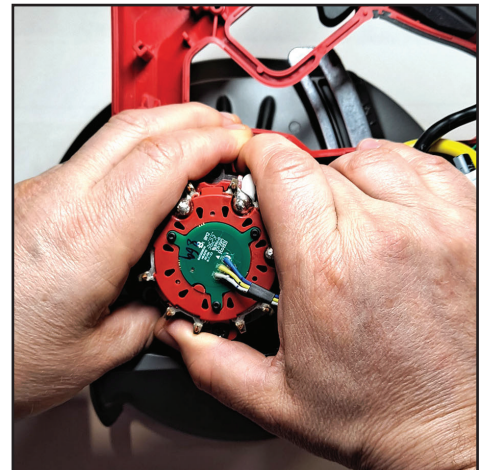
Remove from left housing/handle nine T-15 screws (fig.63) circled in yellow, two T-10 screws (fig.67) circled in white and one T-8 screw (fig.78) circled in green.



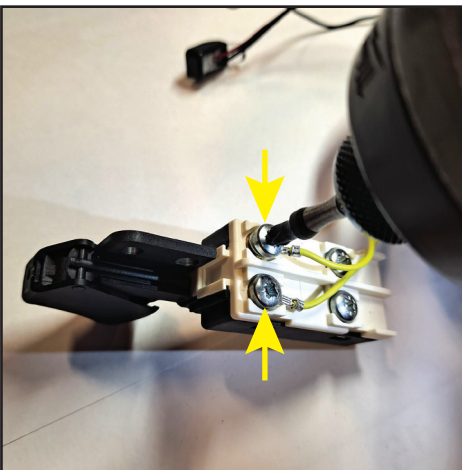
Remove T-6 screw (fig.70) from LED light with screwdriver.



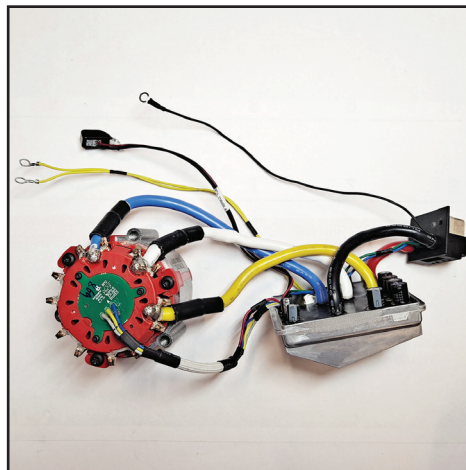
Remove three T-20 screws (fig.47) from stator.



Firmly grasp the stator with both hands and forcibly pull the stator from the magnetic force of the rotor assembly.



Remove 2 top screws from switch (fig.60) with philips head bit or screwdriver. Detach yellow wires from screws/switch.



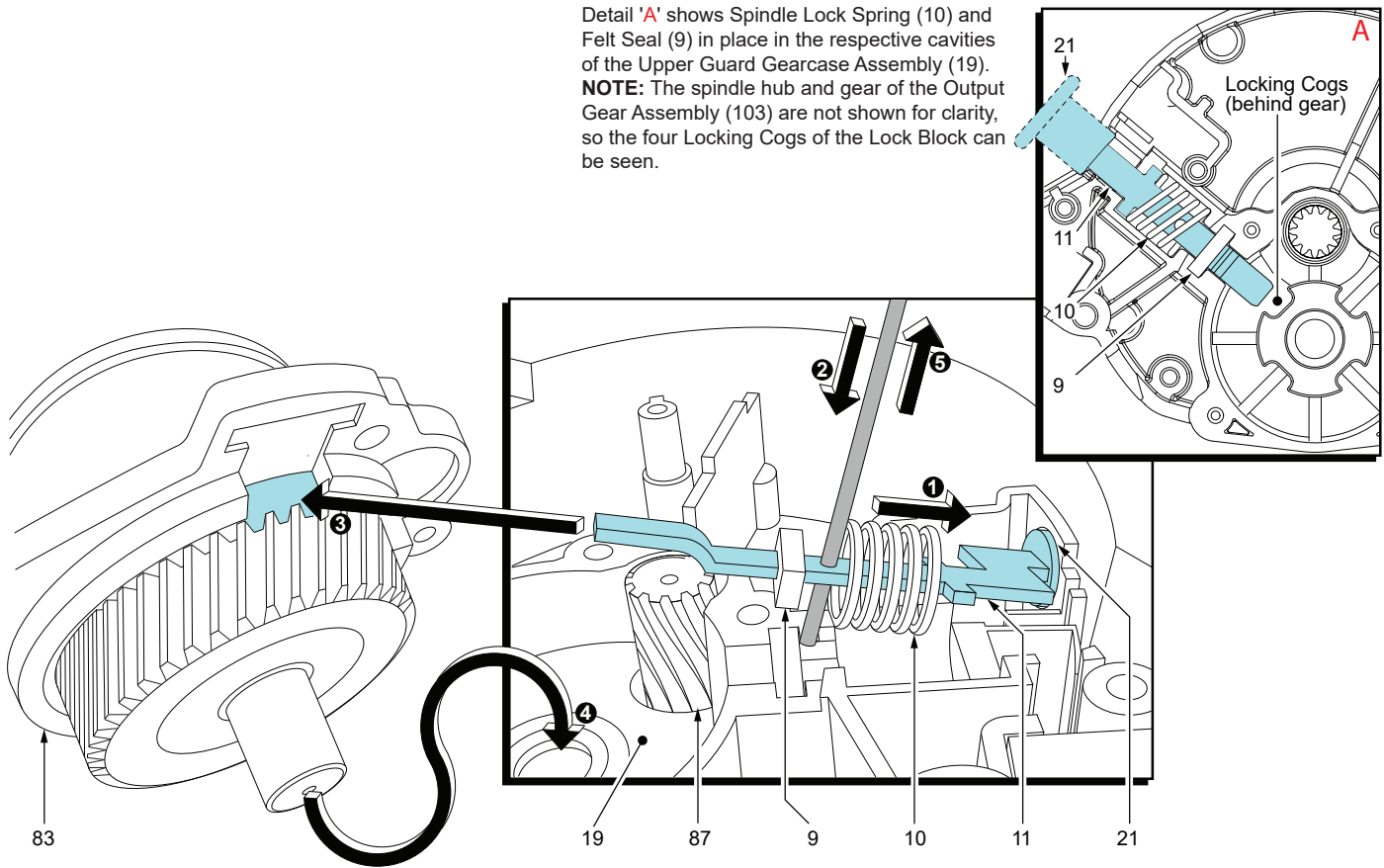
Remove old PCBA & Stator assembly and replace with new PCBA & Stator service assembly 14-20-0404 (fig.105).



Follow directions in reverse order to put assembly/tool back together. Be sure there are no interferences and wires are properly placed within traps/channels.

ASSEMBLING OUTPUT GEAR ASSEMBLY INTO UPPER GUARD GEARCASE

Detail 'A' shows Spindle Lock Spring (10) and Felt Seal (9) in place in the respective cavities of the Upper Guard Gearcase Assembly (19).
NOTE: The spindle hub and gear of the Output Gear Assembly (103) are not shown for clarity, so the four Locking Cogs of the Lock Block can be seen.



To prevent damage to the Felt Seal (9) it is recommended to temporarily remove the felt seal until steps 1 and 2 are completed.

1. With the use of both hands, compress the Spindle Lock Spring (10) back on the Spindle Lock Plate (11) past the small hole on the plate.
2. While holding the spring back with one hand, quickly insert a thin metal instrument into the small hole on the plate. The metal instrument should capture the entire spring (all coils should be behind that tool).

With the spindle lock spring trapped behind the small hole on the spindle lock plate, slide the felt seal back onto the spindle lock plate. Position the felt seal above the corresponding cavity in the Upper Guard Gearcase (19).

3. Insert the open end of the Spindle Lock Plate (11) into the opening of the Output Gear Assembly (103) behind the gear, as shown.

4. Insert the bearing shaft portion of the output shaft assembly into the needle bearing of the upper guard gearcase assembly. Carefully wiggle the entire output shaft assembly until the gearing of the output shaft assembly engages with the pinion gearing of the Rotor (107) and the output shaft assembly slides into place.

Secure the output shaft assembly to the upper guard gearcase assembly with the use of four screws (7), not shown. It is recommended to alternate the tightening of the screws.

5. Remove the thin metal instrument. Check for the proper functioning of the spindle locking mechanism. Rotate the spindle shaft and depress the Spindle Lock Button (21) at the same time. The spindle lock plate should drop into one of four cogs that lock the spindle. Spindle lock mechanism must return briskly when released from engagement in the lock block cog.