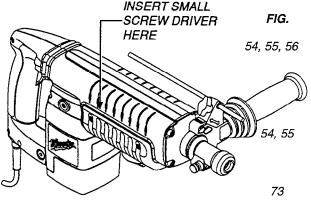


FIG.	PART NO.	DESCRIPTION OF PART NO. REQ.	BULLETIN NO. 54-24-0427 Jan. '99 PAGE 2 OF 2
1	02-02-0120	1/8" Steel Ball (12)	LUBRICATION NOTES: (TYPE "N' GREASE, NO. 49-08-4230)
3	02-02-0250	1/4" Steel Ball	
5	02-04-0911	Ball Bearing (1)	Fill Piston #95 with grease and
6	02-04-1510	Ball Bearing (1)	assemble to Connecting Rod #100
8	02-04-2000	Ball Bearing (1)	with Wrist Pin #94. Front surface
9	02-50-2470	Needle Bearing (3)	of Piston to be free of grease.
10	02-50-4020	Needle Bearing (1)	
11	02-50-9000	Needle Bearing (1)	
12 14	02-50-9985 05-74-0670	Needle Bearing (1) M6 x 1.0 x 70 Skt. Hd. Cap Screw T-27 (4)	Lubricate O-Ring #66
17	06-65-0828	Groove Pin (1)	with grease.
* 18	06-65-1660	Dowel Pin (1)	
22	06-82-8842	8-32 x 3/8" Pan Hd. Slt. Taptite T-20 (1)	Place 1.5 oz. grease here. Place a total of 1.0 oz. grease
23	06-95-6280	M4 x 0.7 x 14 Pan Hd. Slt. Taptite T-20 (8)	in the barrel cavity in the crankcase #44.
* 28	34-60-2580	External Retaining Ring (1)	Place .5 oz. in each corner in barrel
★ 43	30-89-0010	Bearing Retainer (1)	chamber.
* 44	28-14-2295	Crankcase (1)	
45	28-20-1325	Crankcase Cover (1)	
46 48	28-50-6445 14-52-0020	Intermediate Housing (1) Nose Assembly (1)	
40 49	31-12-0270	Cap-Cover (1)	
49 57	32-05-2250	Bevel Gear (1)	
58	32-60-2590	Clutch Pinion (1)	
61	34-40-1375	O-Ring (1)	
63	34-40-4310	Rubber Damping Washer (1)	Place 1.5 oz. grease in bottom of crankcase prior to
64	34-40-4320	Seal-Cover (1)	installing crankshaft
65	34-40-4330	O-Ring (1)	assembly. FRONT OF CRANKCASE
66	34-40-4350	O-Ring (3)	
67	34-60-0700	Retaining Ring (1)	Apply grease to Apply grease to spline surface #71.
69 70	34-80-5090 36-14-0760	Retaining Ring-Beveled (1) Clutch Shaft (1)	lobed surface #97.
*71	36-14-0770	Hollow Clutch Shaft (1)	Apply grease to
72	14-09-0140	Crankshaft Assembly (1)	lobed surface #96.
73	38-50-6030	Spindle (1)	
74	40-50-8420	Bit Lock Spring (1)	YANA THE VILLAN
75	40-50-8575	Compression Spring (1)	
78	40-50-8590	Belleville Spring (2)	
81	42-98-0240	Barrel (1)	
83	43-34-0740	Spring Flange (1) Gasket (1)	
84 91	43-44-0970● 44-20-0222	Gasket (1) Bit Lock (1)	(5311 only)
94	44-60-1400	Wrist Pin (1)	Apply grease to radius
95	44-62-0210	Piston (1)	and spline surface #70.
96	44-66-6030	Splined Clutch Plate (1)	
97	44-66-6045	Fixed Clutch Plate (1)	
98	44-82-0170	Ram (1)	Apply .5 oz. grease on clutch
* 99	44-90-4400	Shift Ring (1)	assembly, filling the spring coils.
100 101	44-94-0395 49-62-0095●	Connecting Rod Assembly (1) Dust Seal-Hex (5/pkg.) (1)	
101	49-62-0095	Dust Seal-Hex (5/pkg.)(1)Dust Seal-Round (5/pkg.)(1)	
102	45-06-0560	Oil Seal (1)	Seal to be installed with
104	45-56-2610	Striker (1)	garter spring to left as shown.
105	45-76-0490	Clutch Tube (1)	
106	45-88-5176	Felt Seal (1)	Dip Felt Washer #106 into light oil.
107	45-88-8520	Thrust Washer (2)	Press Oil Seal #102 and Felt Washer
108	45-88-8530	Barrel Thrust Washer (1)	into Nose #48 to dimension shown using Nose Service Tool
109	45-88-8535	Striker Cushion Washer (1) Wave Washer (1)	
★113 ★115	45-88-8730 06-14-0040	Wave Washer (1) Hex Head Bolt-Special (1)	75+/015
*116	42-16-0150	Side Handle Band (1)	102 Lightly grease
*117	14-34-0516	Side Handle Assembly (1)	Spring #74 and
* 118	14-34-0551	Depth Rod Mount Assembly (1)	106 / bit lock #92.
119	44-94-0165	Depth Gauge Rod (1)	
★ 120	44-86-0620	Band Retainer (1)	
★ 121	31-44-2020	Side Handle Housing (1)	
61-10-0670 Nose Service Tool			
NOTE: Check the clutch torque. Clutch must slip at 30 to 40 ftlbs.			
NOT		e, checked clockwise as viewed from the front	
of the tool.			Lubricate O-Ring #66 with grease.
Install O-Ring onto Ram #98			
▲ SEE BACK PAGE OF THIS BULLETIN			Assemble Ram into Barrel #81,
		R ADDITIONAL LUBRICATION	Place .5 oz. grease in O-Ring end first. Set end of Ram
		AND SERVICE NOTES	lower clutch pinion cavity flush with end of Barrel. Do not

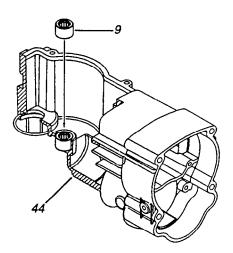
lower clutch pinion cavity.

flush with end of Barrel. Do not

push Ram deep into Barrel.



100 100 (BOTH SIDES)



▲ NOTES

TO REMOVE BELLY SHROUD #56 FROM TOOL, INSERT SMALL SCREW DRIVER INTO GROOVE BETWEEN BELLY AND SIDE SHROUDS #54 AND #55, ABOUT 1/3 OF THE WAY FROM THE MOTOR END, <u>AS SHOWN</u>. PRY OUT AND DOWN ON BOTH SIDES OF THE TOOL.

TO INSTALL THE SIDE SHROUDS #54 AND #55, THE TOP HINGE OF THE SHROUDS MUST BE COMPLETELY INTERLOCKED, THEN THE BACK SIDE ROTATED CLOSED AROUND THE TOOL.

- LUBRICATE ALL BORES IN SPINDLE #73 WITH A MEDIUM COATING OF GREASE.
- 63, 108, 109 LUBRICATE RUBBER DAMPING WASHER #63, BARREL THRUST WASHER #108 AND STRIKER CUSHION WASHER #109 WITH A MEDIUM COATING OF GREASE BEFORE ASSEMBLY.
 - 10, 100 PRESS NEEDLE BEARING #10 IN ROD #100 SO THAT THE SAME AMOUNT STICKS OUT ON BOTH SIDES OF THE ROD, <u>AS SHOWN</u>.
 - 9, 71 PRESS (2) NEEDLE BEARINGS #9 INTO HOLLOW CLUTCH SHAFT #71, FLUSH WITH THE ENDS OF THE SHAFT.
 - 58, 70 PRESS CLUTCH PINION #58 FLUSH WITH THE END OF THE CLUTCH SHAFT #70.
- 11, 12, 46 PRESS NEEDLE BEARINGS #11 AND #12 FLUSH TO THE MACHINED FACES ON BOTH ENDS OF THE INTERMEDIATE HOUSING #46.
 - 9, 44 PRESS NEEDLE BEARING #9 INTO CRANKCASE #44, FLUSH WITH TOP OF BORE, <u>AS SHOWN</u>.
 - 81 <u>LIGHTLY</u> GREASE INSIDE OF BARREL #81 BEFORE ASSEMBLY.
- 48, 73 SMALL OUTSIDE DIAMETER OF SPINDLE #73 IS TO BE LUBRICATED WITH A LIGHT COAT OF GREASE BEFORE ASSEMBLING THE NOSE ASSEMBLY #48 TO THE TOOL.
- 48, 73, 102 NOSE ASSEMBLY #48 MUST BE PLACED SQUARELY OVER SPINDLE #73, WHEN ASSEMBLING, TO PREVENT DAMAGE TO OIL SEAL #102.
- 14, 19, 20, 23 FASTENERS #14, #19, #20 AND #23 ARE TO BE RE-ASSEMBLED USING BLUE LOCTITE.
 - 48, 102 LUBRICATE BORE IN NOSE ASSEMBLY #48 BEFORE PRESSING OIL SEAL #102 INTO PLACE.
- 61, 62, 66 LUBRICATE O-RINGS #61, #62 AND #66 WITH GREASE.
 - 69 INSTALL BEVEL SNAP RING #69 WITH BEVEL SIDE UP.
- 4, 50, 80 PLACE BEARING CUP #80 ON SMALL ARMATURE BEARING #4 BEFORE INSTALLING MOTOR COVER #50.
 - 41 BRUSH SPRINGS #41 ARE TO BE WOUND 1/2 TURN TO ENGAGE BRUSHES.
 - 4 RUBBER SEAL SIDE OF BALL BEARING #4 TO FACE FAN.
- 95, 98 FACES OF PISTON #95 AND RAM #98 ARE TO BE FREE OF GREASE.