`32

Drwg. 1

70

SEE BACK PAGE OF THIS BULLETIN FOR ADDITIONAL SERVICE NOTES

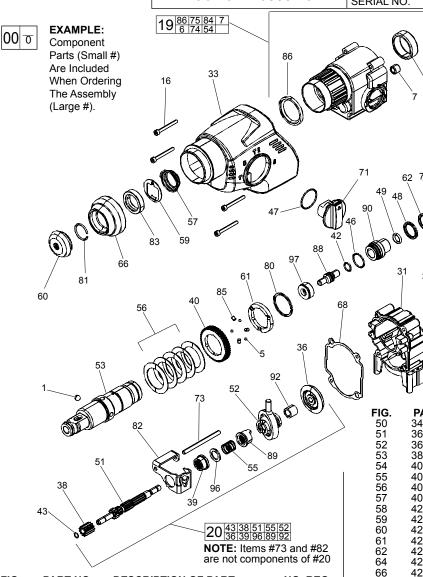
SERVICE PARTS LIST

Milwaukee

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS REVISED BULLETIN DATE Feb. 2008 18 Volt Rotary Hammer WIRING INSTRUCTION STARTING SERIAL NO 0856-20 **B42A** CATALOG NO. SEE REVERSE SIDE

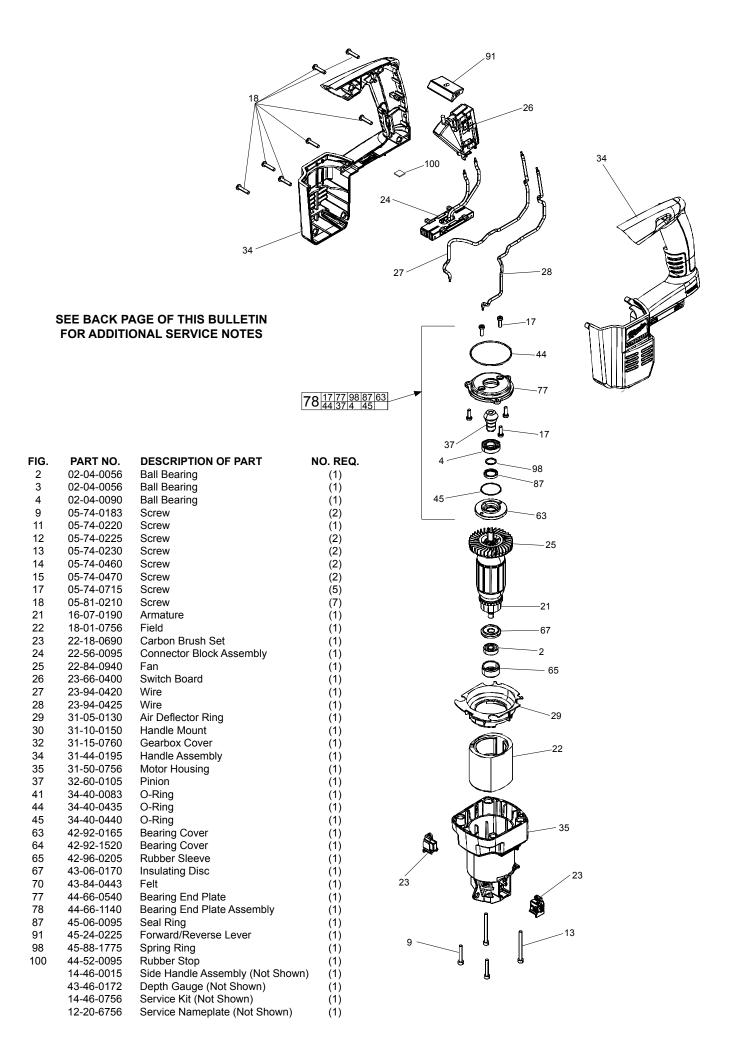
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54 75



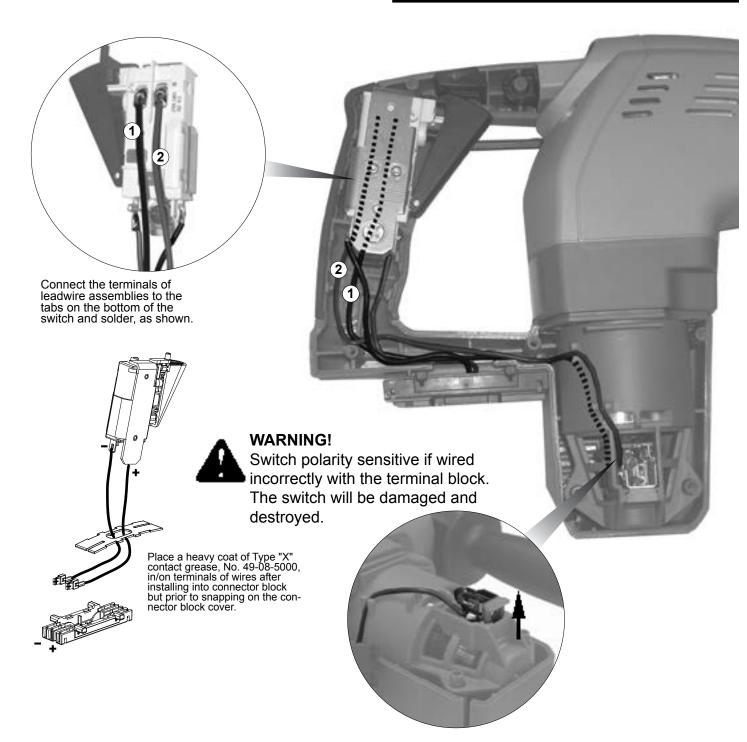
PART NO.	DESCRIPTION OF PART	NO. REQ.
02-02-0275	Ball	(1)
02-04-0056	Ball Bearing	(1)
02-04-0683	Ball	(3)
02-50-0050	Needle Bearing	(1)
02-50-2183	Needle Bearing	(1)
02-80-0210	Spindle Bearing	(1)
05-74-0215	Screw	(4)
05-74-0220	Screw	(1)
05-74-0225	Screw	(2)
05-74-0460	Screw	(2)
05-74-0470	Screw	(2) (2) (2)
05-74-0685	Screw	(4)
	Gear Box Assembly	(1)
14-73-0305	Wobble Shaft Assembly	(1)
		(1)
		(1)
31-15-0760	Gearbox Cover	(1)
	Gear Box Housing Cover	(1)
		(1)
		(1)
		(1)
		(1)
	O-Ring	(1)
		(1)
		(1)
		(1)
	O-Ring	(1)
		(1)
34-40-4451	O-Ring	(1)
	02-02-0275 02-04-0056 02-04-0683 02-50-0050 02-50-2183 02-80-0210 05-74-0215 05-74-0220 05-74-0460 05-74-0470 05-74-0685 14-50-0100 14-73-0305 31-10-0150 31-15-0756	02-02-0275 Ball 02-04-0056 Ball Bearing 02-04-0683 Ball 02-04-0683 Ball 02-50-0050 Needle Bearing 02-80-0210 Spindle Bearing 05-74-0215 Screw 05-74-0220 Screw 05-74-0460 Screw 05-74-0460 Screw 05-74-0485 Screw 05-74-0685 Screw 14-50-0100 Gear Box Assembly 31-10-0150 Handle Mount 31-15-0756 Gearbox Cover 31-40-0185 Gear Box Housing Cover 32-05-0500 Bevel Gear 32-60-0140 Gear 32-60-0145 Intern. Gear 32-75-0060 Spindle Gear 34-40-0083 O-Ring 34-40-0445 O-Ring 34-40-1025 O-Ring 34-40-1305 O-Ring 34-40-1305 O-Ring

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
50	34-40-4465	Seal Ring	(1)
51	36-66-0185	Reduction Gear Shaft	(1)
52	36-92-0583	Wobble Plate	(1)
53	38-50-0250	Spindle	(1)
54	40-50-0800	Pressure Spring	(1)
55	40-50-0883	Spring C : (E: B : 1)	(<u>1</u>)
56	40-50-0983	Belleville Spring (Five Required)	(5)
57	40-50-8045	Pressure Spring	(1)
58	42-36-0185	Mount Bracket	(1)
59 60	42-36-1755	Support Plate	(1) (1)
61	42-52-0420 42-70-0040	Dust Cap Clutch Disc	(1)
62	42-76-0830	Thrust Collar	\\\\ \\\
64	42-92-1520	Bearing Cover	(1)
66	42-96-0210	Sleeve	(1)
68	43-44-0875	Seal	\i\
70	43-84-0443	Felt	\i\
71	44-10-0670	Shift Lever	(1)
72	44-60-0483	Wrist Pin	(1)
73	44-60-0756	Pin	(1)
74	44-60-1105	Spring Guide pin	(1)
75	44-60-1110	Guide Pin	(1)
76	44-62-0186	Cylinder	(1)
79	44-90-0183	Spring Ring	(1)
80	44-90-0350	Spring Ring	(1)
81	44-90-0375	Spring Ring	(1)
82	44-90-0500	Shift Ring	(1)
83	44-90-0830	Holding Ring	(1)
84	44-90-0832	Locking Plate	(1)
85	44-96-0183	Roller	(3)
86 88	45-06-0090 45-08-0480	Seal Ring Striker	(1) (1)
89	45-22-0610	Coupling Sleeve	(1)
90	45-22-0010	Sleeve	(1)
92	45-36-1700	Spacer	(1)
93	45-56-0076	Ram	(1)
94	45-88-0176	Washer	(1)
95	45-88-0283	Disc (Set of two)	(1)
96	45-88-1180	Disc	(1)
97	45-88-1770	Stop Washer	(1)
99	45-88-1780	Spring Ring	(1)
	M	IILWAUKEE ELECTRIC TOOL COF	PORATION
	IV	13135 W. Lisbon Road, Brookfie	
			, 00000



WIRING INSTRUCTIONS

BULLETIN NO. 54-24-0840 Feb. 2008 PAGE 3 OF 6



WIRING SPECIFICATIONS					
Wire No.	Wire Color	Origin or Gauge	Length	Terminals, Connectors and 1 or 2 End Wire Preparation	
1	Black	23-94-0410		Strip one end .25 and solder to switch / Strip the other end .18 and solder to brush assy.	
2	Red	23-94-0415		Strip one end .25 and solder to switch / Strip the other end .18 and solder to brush assy.	
BULK LEAD WIRE - BULLETIN NO. 58-01-0003					

SERVICE NOTES Disassembly: When, removing shift lever (71) from gear case cover (33) follow 33. 71

instructions listed on service bulletin. [see fig. 1] 19, 33 Release locking tabs on gearbox cover (33) using two flat bladed screwdrivers when removing from gearbox assembly (19). [see fig. 3]

4, 21, 37 Remove armature pinion (37) from armature (21) using Special Service Fixtures 61-10-0035. Note: Place separator plates 61-10-0011

under ball bearing (4) as illustrated in fig. 5.

To remove retaining ring (80) from spindle (53) use service fixture 40, 53, 56, 80 61-30-0290. Note: Spindle gear / clutch gear (40) must be

compressed against Belleville spring washers (56) before retaining ring can be removed. (see fig.8)

Remove carbon brushes (23) from motor housing (35) prior to 21, 23, 35 removing armature assembly (21).

Reassembly:

53, 97

81, 83

Small diameter end of striker (88) must face stop washer (97) in assembly. 88, 97

Chamfer side of stop washer (97) to face front of spindle (53).

31, 5 Raised bosses on mount bracket (58) must face crankcase (31) in assembly.

33, 71 When reinstalling shift lever (71) into gearcase cover (33) follow

instructions shown in fig. 2.

9, 10, 11, 12, 13, Apply Blue Loctite ® METCo part # 44-22-0090 to fasteners listed if removed and being reinstalled. New fasteners in service kit will not 14, 15, 16, 17

require additional Loctite®.

Taper of holding ring (83) to face spring ring (81) in assembly.

57, 59 Wide portion of conical spring (57) to face plate (59).

36, 51, 92 When reassembling bevel gear (36) onto reduction gear shaft (51) a .001 - .002 clearance must be maintain between bevel gear (36) and

spacer (92). [see fig.2]

4, 87 Flared edge of seal (87) to face ball bearing (4) in assembly.

53, 56 Reassemble Belleville Spring washers (56) onto spindle (53) as shown in fig. 7.

21. 25 When replacing a fan (25) on armature assembly (21), refer to illustration shown in fig. 6 for press dimensions.

43, 51 Install a new spring ring retainer (43) if removed from reduction gear shaft (51).

NOTE: CHECK THE CLUTCH TORQUE. CLUTCH MUST SLIP AT 17 TO 26 FT. LBS. AT THE SPINDLE. CHECKED CLOCKWISE AS VIEWED FROM THE FRONT OF THE TOOL. SELECTOR KNOB MUST BE SET TO THE HAMMER ONLY SETTING.

LUBRICATION

Type "Q" grease, No. 49-08-4255 Coat with a total of 1/4 oz.

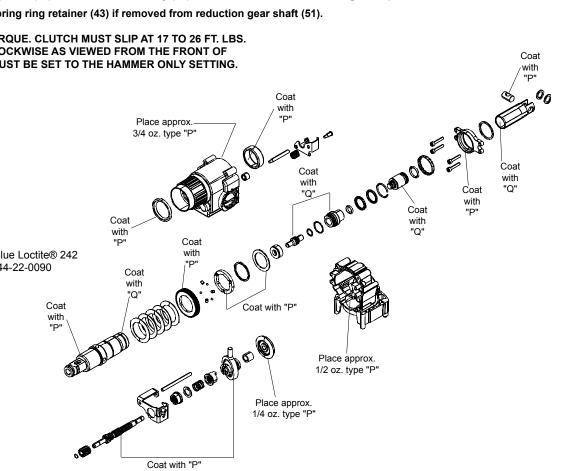
Type "P" grease, No 49-08-5350 Cover with a total of 1-3/4 oz. (1-1/2 oz. to fill, 1/4 oz. to coat)

TORQUE SPECIFICATIONS

Screws in plastic 15 in. lbs.

Screws in metal 22 in. lbs. Use Blue Loctite® 242

Metco Cat. No. 44-22-0090



Service Kit 14-46-0756 Contains:

Part No.

05-74-0183

05-74-0215

05-74-0220

05-74-0225

05-74-0230

05-74-0460

05-74-0470

05-74-0685

05-74-0715

22-18-0690

34-40-0083

34-40-0130

34-40-0430

34-40-0435

34-40-0440

34-40-0445

34-40-1025

34-40-1305

34-40-4451

34-40-4465

42-52-0420

42-76-0830

42-96-0205

42-96-0210

43-44-0875

43-84-0443

44-90-0183

44-90-0350

45-06-0090

45-06-0095

45-88-1775

45-88-1780

49-08-5350

49-08-4255

9

10

11

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23

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80

86

87

98

Desc. Of Part

Screw

Screw

Screw

Screw

Screw

Screw

Screw

Screw

Screw

O-Ring

O-Ring

O-Ring

O-Ring

O-Ring

O-Ring

O-Ring

O-Ring

Seal Ring

Dust Cap

Sleeve

Seal

Felt

Thrust Collar

Spring Ring

Spring Ring

Seal Ring

Seal Ring

Spring Ring

Spring Ring

Type "P" Grease

Type "Q" Grease

Rubber Sleeve

Spring Ring

Carbon Brush Set

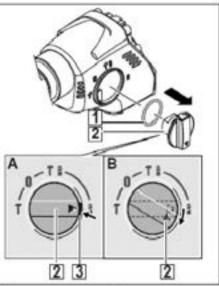
Qty.

2



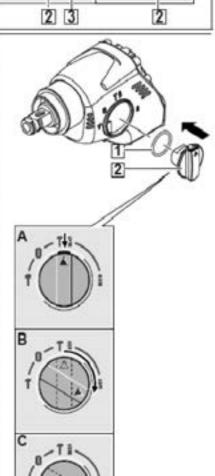
Removing the shift lever

- 1 Bring the shift lever (2) into the Drill-Only position (Illustration A).
- 2 Press in and hold the locking device (3) (Illustration A) and turn the shift lever past the drill icon (Illustration B) until the shift lever (2) can be pulled from the housing.
- 3 Remove the O-ring (1).



Installing the shift lever

- 1 Lightly grease the O-ring (1) and install it into the Shift Lever (2).
- 2 Position the triangle located on the shift lever to the Hammer / Drill icon and insert it into the gearcase (Illustration A). Press the locking device and turn clockwise (Illustration B) until the shift lever (2) engages audibly. After that, turn it back to the required position (C) and release the locking device.



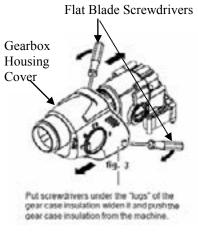
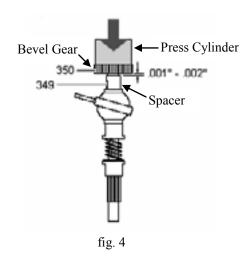
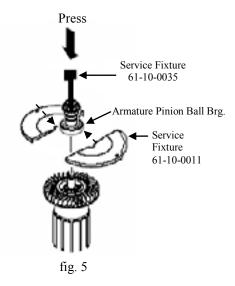
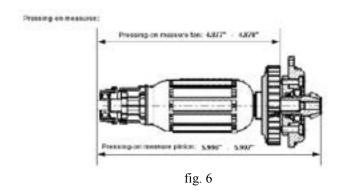


fig. 3







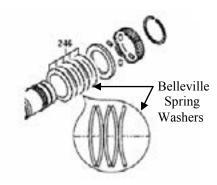


fig. .7

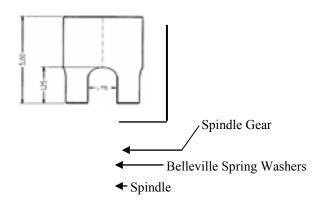


fig. 8