



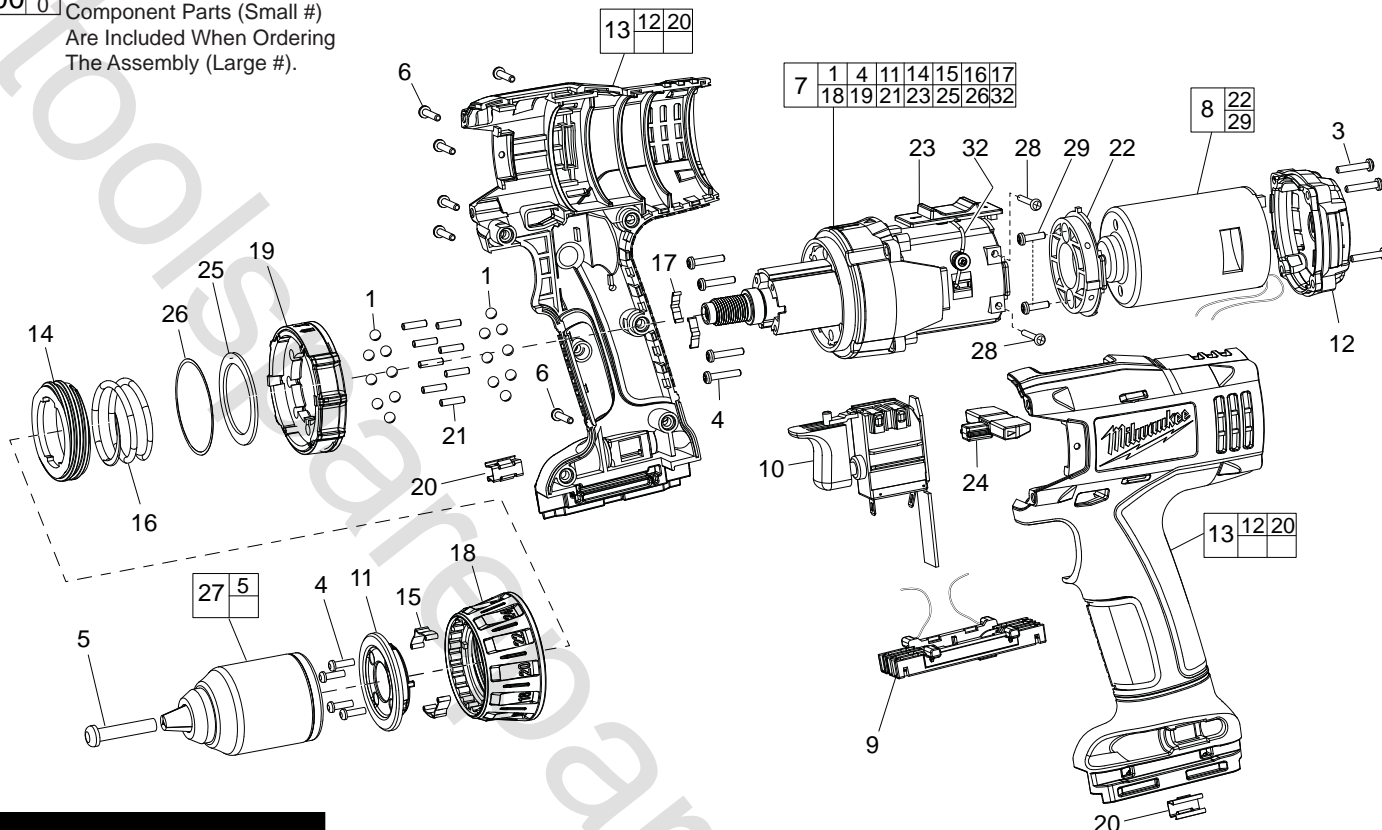
SERVICE PARTS LIST

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BULLETIN NO.
54-06-0840

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS		REVISED BULLETIN	DATE
18 VOLT 1/2" DRIVER-DRILL			Sept. 2008
CATALOG NO.	0822-20	STARTING SERIAL NO.	A98A
		WIRING INSTRUCTION SEE REVERSE SIDE	

EXAMPLE:
00 0 Component Parts (Small #)
Are Included When Ordering
The Assembly (Large #).



**SEE REVERSE SIDE
FOR SERVICE &
GREASE NOTES**

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.	FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	02-02-1300	Clutch Ball	16	17	40-50-0425	Selector Detent Spring	2
3	05-88-0205	Back Cover Screw	4	18	42-76-0075	Torque Ring	1
4	05-88-0210	Screw	8	19	42-76-0145	Application Selector	1
5	05-88-0310	Chuck Screw	1	20	43-72-0460	Bit Holder	2
6	06-82-1020	Housing Screw	6	21	44-60-0175	Pins	8
7	14-29-0205	Gearcase Assembly	1	22	44-66-1250	Motor Mount Plate	1
8	14-50-0200	Motor Assembly	1	23	45-24-0120	Speed Selector	1
9	22-56-0990	Connector Block Assembly	1	24	45-24-0125	Forward/Reverse Button	1
10	23-66-2780	Switch	1	25	45-88-1805	Washer	1
11	28-12-0075	Cover Plate	1	26	45-88-1810	Thrust Washer	1
12	31-15-0655	Back Cover	1	27	48-66-1575	Chuck	1
13	31-50-3350	Housing Set	1	28	05-81-0535	Gearcase Mount Screw	4
14	31-58-0075	Clutch Spring Nut	1	29	05-81-0530	Motor Mount Screw	2
15	40-50-0395	Torque Ring Detent Spring	2	31	12-20-0822	Service Nameplate (not shown)	1
16	40-50-0415	Clutch Spring	1	32	44-14-0300	Speed Selector Wire Link	1
					51-15-0405	Side Handle (not shown)	1

Service Notes

8

Do not attempt to remove flag terminals from rear of motor (8), unsolder motor leadwires from switch only.

8, 22

Install motor mount plate (22) onto motor (8) with .320 "U" notch opening positioned to the top of the motor.

29

Place one drop of Red TYPE 262 Loctite® or equivalent onto threads of two motor mount screws (29) if removed during service.

5

Place one drop of Blue TYPE 242 Loctite® or equivalent onto threads of reversing chuck screw (5).

1, 7, 25

Install washer (25) (.059) over top eight clutch balls (1) of gear case assembly (7).

25, 26

Install thrust washer (26) (.031) over washer (25) in the assembly.

Anytime negative and positive leadwires require removal from bottom switch prongs/tabs, install a new ¾" long piece of black heat shrink tubing over each of the soldered switch connector tab-leadwires.

14, 16

Open end of clutch spring nut (14) to face clutch spring (16) in assembly.

Lubrication Instructions

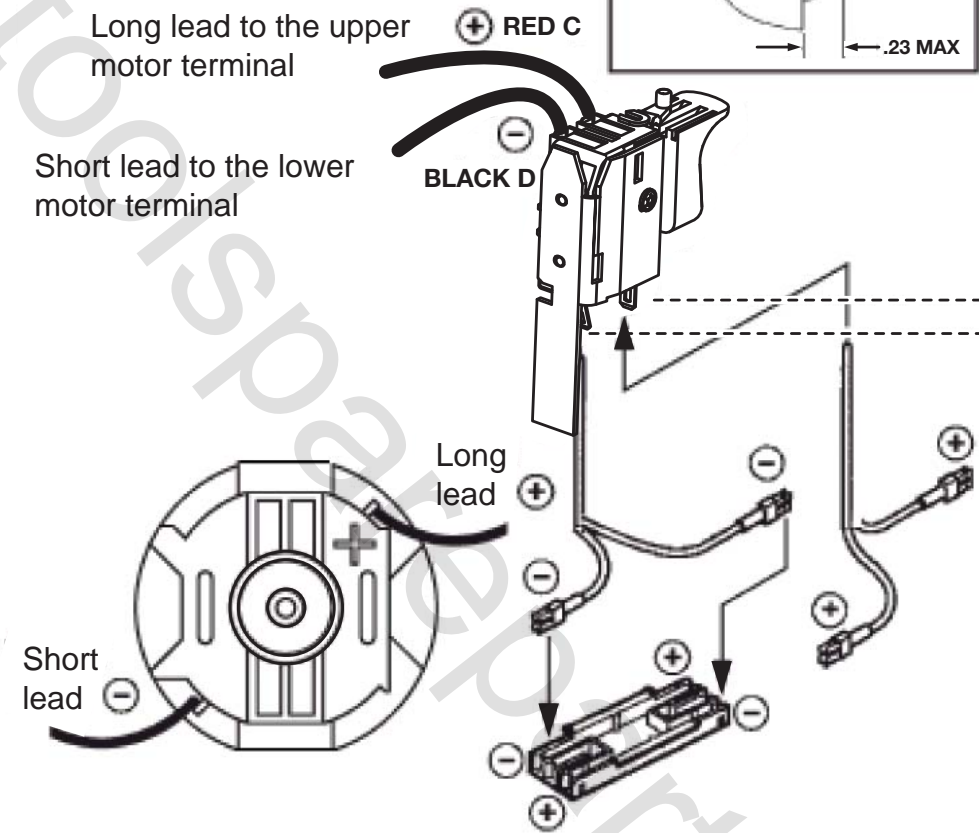
Type "Z" (49-08-7655)

1. Apply a thin coat of grease to lobe of torque ring detent springs (15) prior to installing cover plate (11) into internal detents of torque ring (18).
2. Apply a thin coat of grease to lobe of selector detent springs (17) prior to installing application selector (19) onto gearcase assembly (7).
3. Apply a thin coat of grease to planetary gears in gearcase assembly (7) if dry.

WIRING INSTRUCTIONS

NOTE:

Proper polarity in the terminal block requires leads to be crossed, as illustrated.



Install a 3/4" long piece of black shrink tubing over leadwire assemblies and connect the terminals of leadwire assemblies to the tabs on the bottom of the switch and solder, as shown. Position previously installed heat shrink tubing around tabs and shrink new tubing with a heat gun (be careful not to apply too much heat to melt the wires).



WARNING!
Switch polarity sensitive if wired incorrectly with the connector block assembly (9).
The switch will be damaged and destroyed.

WIRING SPECIFICATIONS				
Wire No.	Wire Color	Orgin of Gauge	Length	Terminals, Connectors and 1 or 2 End Wire Preparation
A	Black	23-94-0135	-----	Leadwire assembly set, Black and Red leads
B	Red		-----	
C	Red	◆	5"	Strip end .25 and solder to switch
D	Black		4"	Strip end .25 and solder to switch

BULK LEAD WIRE - BULLETIN 58-01-0003

TERMINAL DESCRIPTION		
Code	Part No.	Qty.