



SERVICE PARTS LIST

BULLETIN NO.
54-38-0725

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS		REVISED BULLETIN	DATE
CORDLESS 28 VOLT 4-1/2" GRINDER			June 2008
CATALOG NO. 0725-20	STARTING SERIAL NO. B40A	WIRING INSTRUCTION SEE REVERSE SIDE	

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

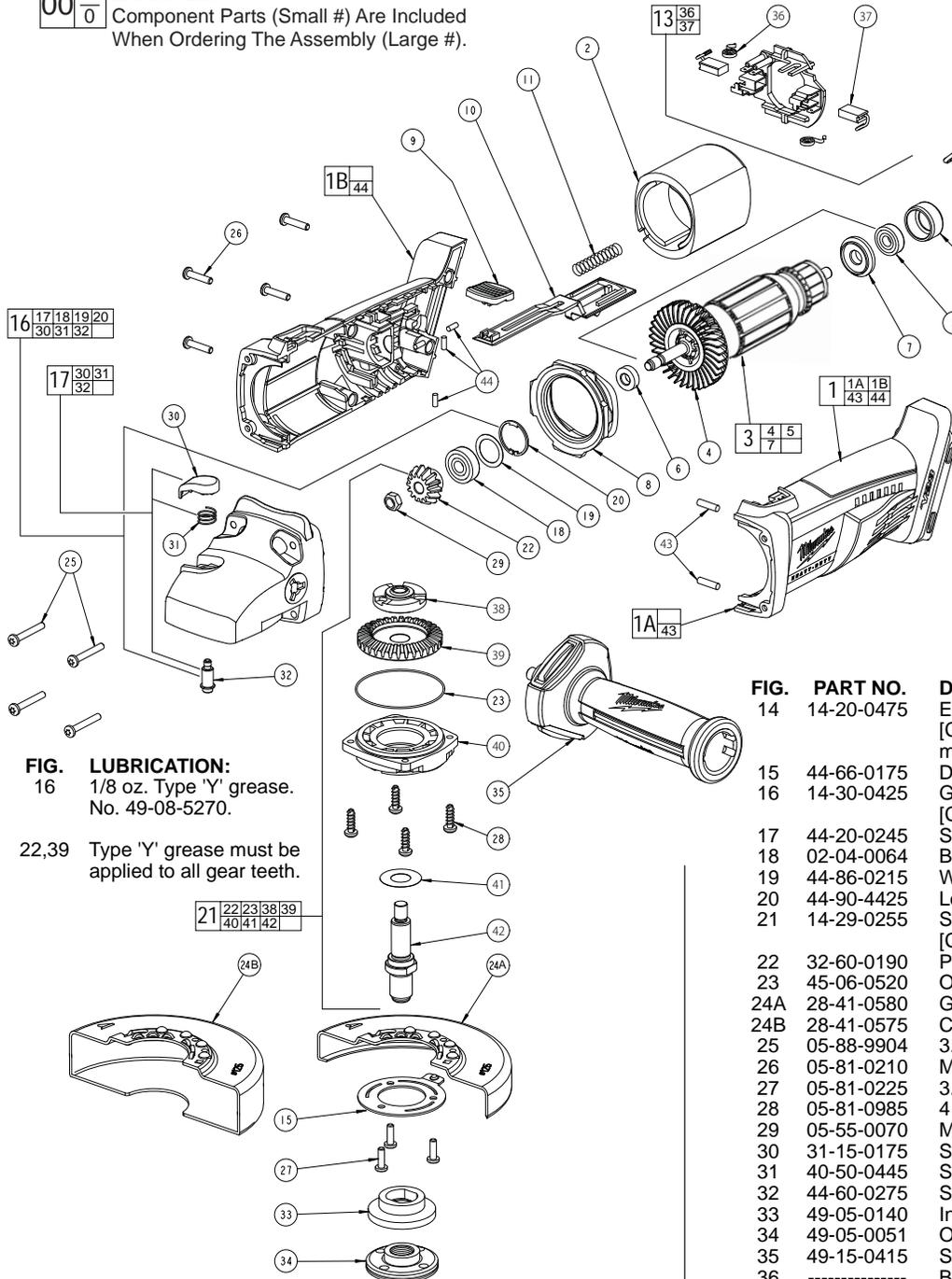


FIG. 1A, 2 **NOTES:**
Place notch in field [2] on pointed field boss located on the top front of left handle half [1A].

1A, 8 Insert baffle [8] into slots on front of left handle half [1A]. Baffle has pointed tabs at the 3 o'clock and 9 o'clock positions. Orient baffle with blunter point against wall in [1A].

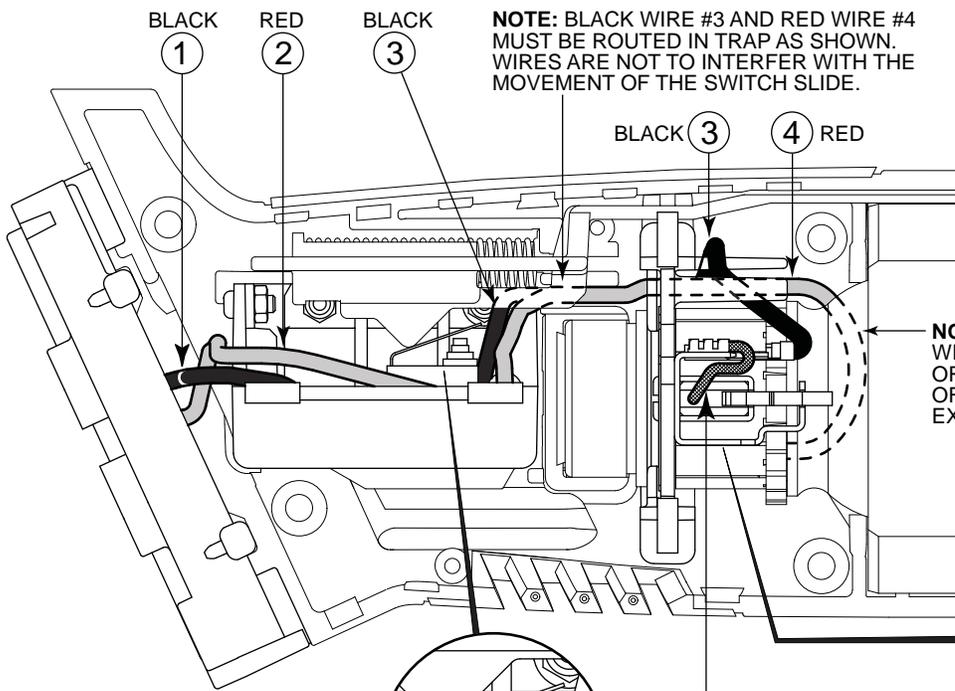
15,27,28 Screws [27] and detent plate [15] must be removed before installing or removing screws [28].

FIG. LUBRICATION:
16 1/8 oz. Type 'Y' grease. No. 49-08-5270.

22,39 Type 'Y' grease must be applied to all gear teeth.

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
14	14-20-0475	Electronics Module Assembly [Consists of connector block and micro switch]	(1)
15	44-66-0175	Detent Plate	(1)
16	14-30-0425	Gearcase Assembly [Consists of 17,18,19,20,30,31,32]	(1)
17	44-20-0245	Spindle Lock Assy. [Contains 30,31,32]	(1)
18	02-04-0064	Ball Bearing	(1)
19	44-86-0215	Washer	(1)
20	44-90-4425	Locking Ring	(1)
21	14-29-0255	Spindle Hub & Gear Set [Consists of 22,23,38,39,40,41,42]	(1)
22	32-60-0190	Pinion Gear	(1)
23	45-06-0520	O-Ring	(1)
24A	28-41-0580	Grinding Guard	(1)
24B	28-41-0575	Cutting Guard	(1)
25	05-88-9904	3.9 x 32 Pan Hd. Torx Screw	(4)
26	05-81-0210	M4 x 18 Pan Hd. Torx Screw	(4)
27	05-81-0225	3.9 x 13 Pan Hd. Torx Screw	(3)
28	05-81-0985	4 x 15 Pan Hd. Torx Screw	(4)
29	05-55-0070	M7 x 1 Armature Nut	(1)
30	31-15-0175	Spindle Lock Cover	(1)
31	40-50-0445	Spindle Lock Spring	(1)
32	44-60-0275	Spindle Lock Shaft	(1)
33	49-05-0140	Inner Flange	(1)
34	49-05-0051	Outer Flange	(1)
35	49-15-0415	Side Handle	(1)
36	-----	Brush Spring	(2)
37	-----	Carbon Brush	(2)
38	-----	Locking Cog	(1)
39	-----	Bevel Gear	(1)
40	-----	Spindle Hub w/ Bearing	(1)
41	-----	Washer	(1)
42	-----	Spindle Shaft	(1)
43	-----	Rubber Slug	(2)
44	-----	Rubber Slug	(3)
	12-20-0725	Service Nameplate (Not Shown)	(1)
	10-20-1165	Warning Label (Not Shown)	(1)
	49-96-7205	Spanner Wrench (Not Shown)	(1)

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	31-50-0725	Housing Set [Consists of 1A and 1B]	(1)
1A	-----	Left Handle Half [Consists of 43]	(1)
1B	-----	Right Handle Half [Consists of 44]	(1)
2	18-01-0756	Field	(1)
3	16-07-0235	Armature Assy. [Consists of 4,5,7]	(1)
4	22-84-0940	Fan	(1)
5	02-04-0056	Ball Bearing	(1)
6	45-36-2030	Spacer	(1)
7	43-06-0170	Commutator Insulator	(1)
8	42-14-0125	Baffle	(1)
9	23-66-1175	Switch Button	(1)
10	31-84-0075	Switch Slide	(1)
11	40-50-0515	Lock-Spring	(1)
12	42-96-0205	Rubber Sleeve	(1)
13	22-22-0725	Brush Card Assy. [Consists of 36,37]	(1)



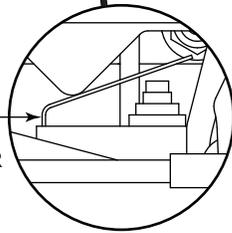
NOTE: BLACK WIRE #3 AND RED WIRE #4 MUST BE ROUTED IN TRAP AS SHOWN. WIRES ARE NOT TO INTERFERE WITH THE MOVEMENT OF THE SWITCH SLIDE.

AS AN AID TO REASSEMBLY, TAKE NOTE OF WIRE ROUTING AND POSITION IN WIRE GUIDES AND TRAPS WHILE DISMANTLING TOOL

ASSEMBLY AND WIRING OF THE COMPONENTS SHOWN ARE TO BE DONE IN THE LEFT HANDLE HALF (1A) AS SHOWN.

NOTE: RED WIRE #4 MUST BE ROUTED AS SHOWN. WIRE IS NOT TO INTERFERE WITH THE ARMATURE OR FIELD. PRESS THE LOOPED AREA TO THE BACK OF THE LEFT HANDLE HALF (1A). WIRE IS NOT TO EXCEED BEYOND THE FIELD SUPPORT BOSSES.

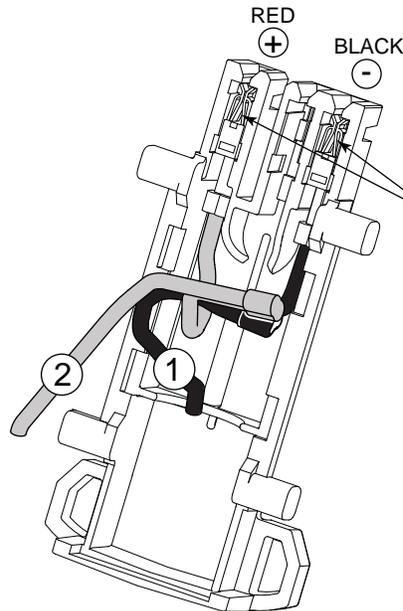
NOTE: CARE MUST BE TAKEN NOT TO BEND THE LEVER ON THE MICRO SWITCH



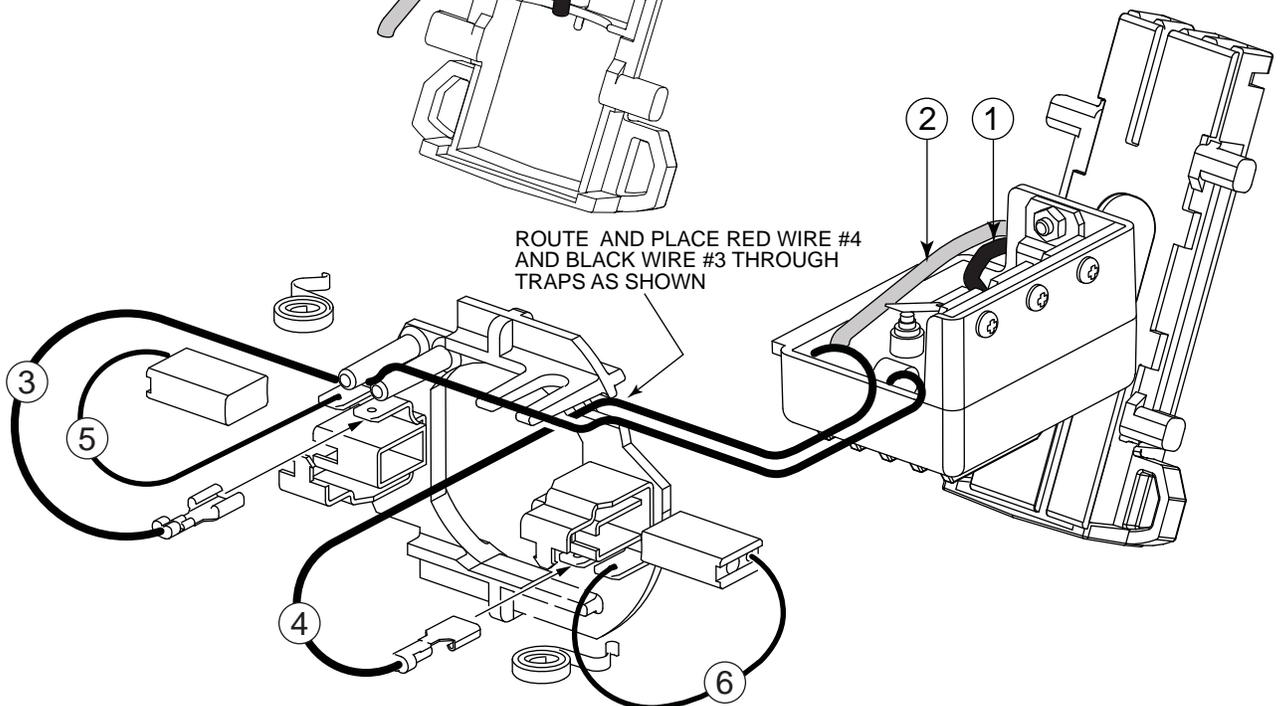
- 5 RIGHT BRUSH SHUNT (SHOWN)
- 6 LEFT BRUSH SHUNT (NOT VISABLE)



IMPORTANT: TO REINSTALL THE ARMATURE, CARBON BRUSHES MUST BE PULLED BACK IN BRUSH CARD ASSEMBLY. BRUSHES WILL BE HELD IN PLACE IN BRUSH TUBES BY PULLING BRUSH SPRINGS TO THE SIDE OF THE CARBON BRUSHES AS SHOWN. POSITION THE BRUSH CARD ASSEMBLY IN SLOTS OF LEFT HANDLE HALF (1A) BEING CAREFUL NOT TO INSERT COMPLETELY. ONCE ARMATURE IS PROPERLY INSTALLED, PRESS BRUSH CARD ASSEMBLY DOWN TO SNAP BRUSHES AND SPRINGS INTO PLACE.



POSITION LARGE OPENING OF TERMINALS FACE DOWN IN CONNECTOR BLOCK. PLACE A HEAVY COAT OF TYPE 'X' GREASE, NO. 49-08-5000, IN/ON TERMINALS OF WIRES #1 AND #2 AFTER INSTALLING INTO CONNECTOR BLOCK BUT PRIOR TO SNAPPING ON CONNECTOR BLOCK COVER.



ROUTE AND PLACE RED WIRE #4 AND BLACK WIRE #3 THROUGH TRAPS AS SHOWN