

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS		REVISED BULLETIN	DATE
4.5" ANGLE GRINDER with SLIDE SWITCH			Oct. 2009
CATALOG NO. 6140-33	STARTING SERIAL NUMBER B70A	WIRING INSTRUCTION See Reverse Side	

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	05-55-0620	M5 Hex Nut	(1)
2	05-88-1100	M3 x 10 Screw	(2)
3	05-88-1200	M4 x 16 T-20 Screw	(2)
4	05-88-1210	M4 x 14 T-20 Screw	(4)
5	05-88-1250	M4 x 20 T-20 Screw	(4)
6	05-88-1275	M4 x 70 Screw	(2)
7	05-88-1280	M4 x 10 T-20 Screw	(2)
8	43-86-0010	Insulation Disc	(1)

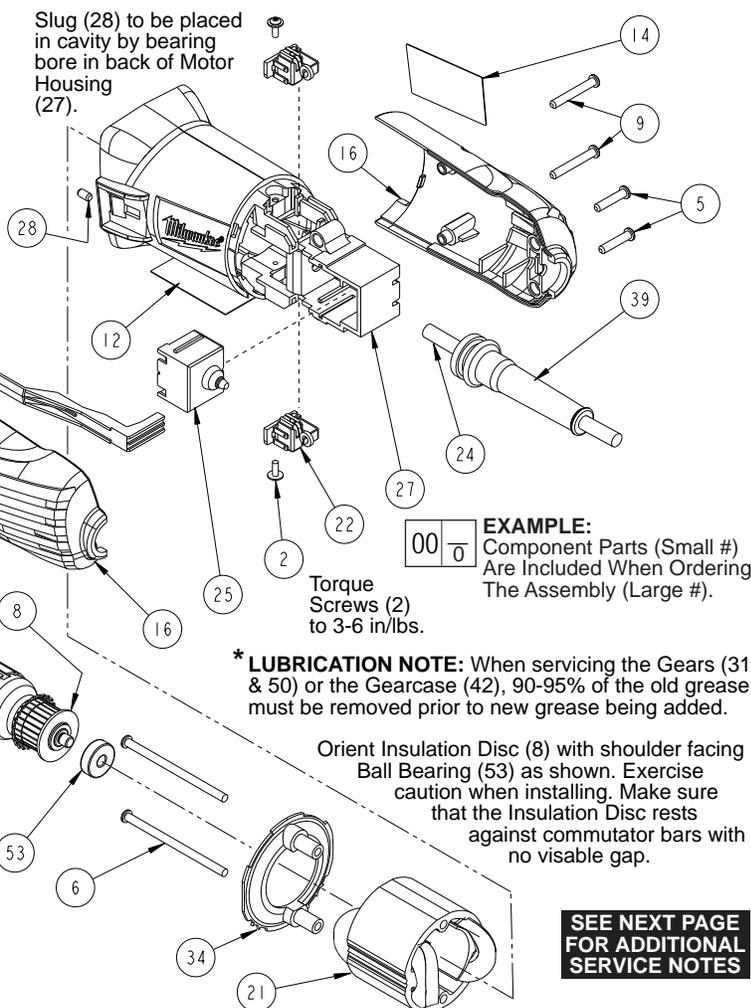
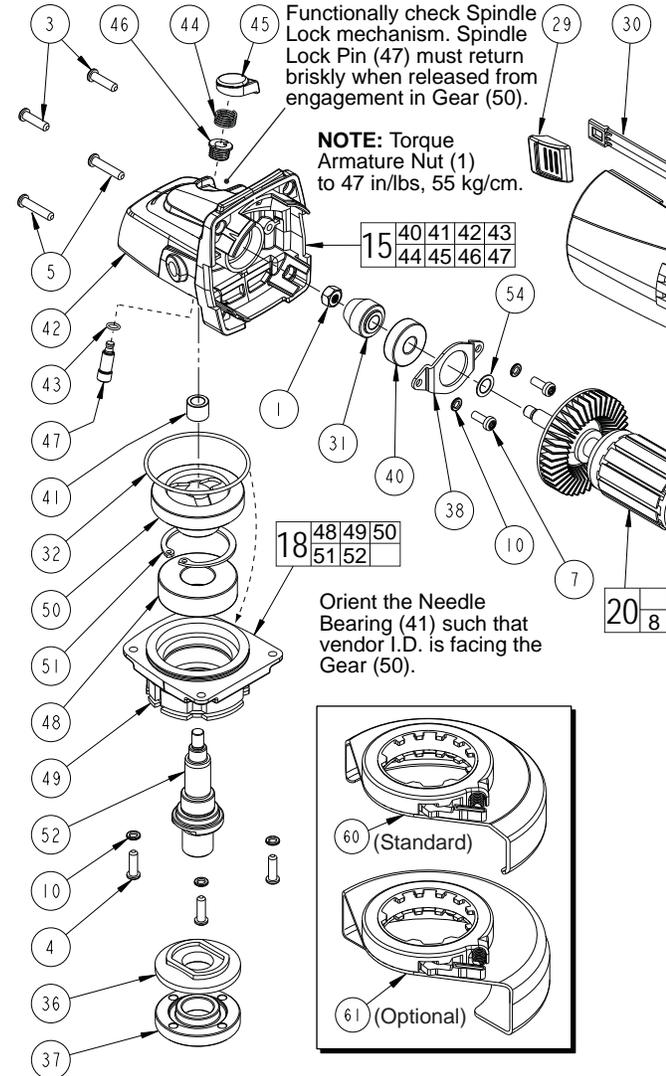
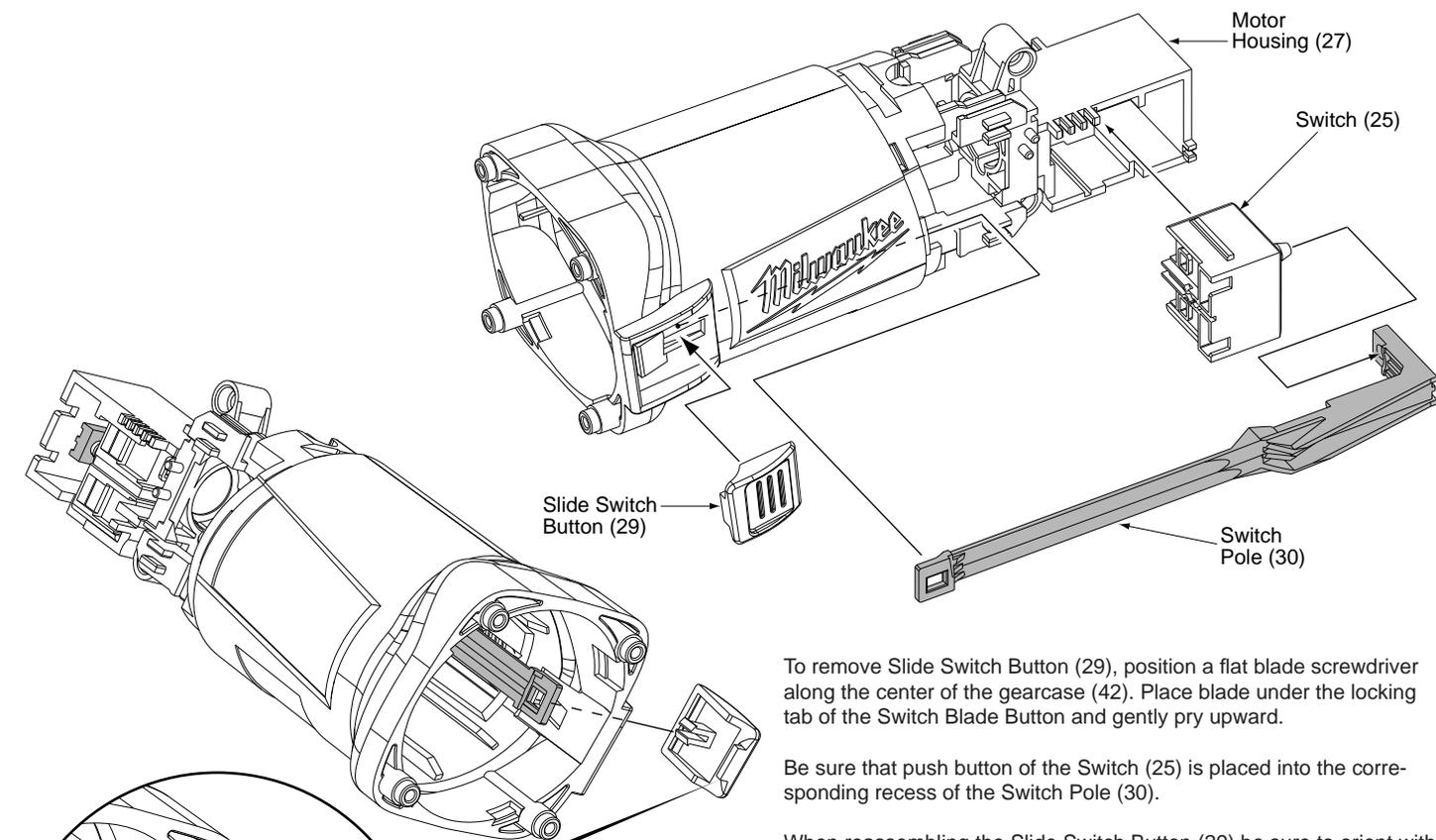


FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
9	05-88-1525	M4 x 30 T-20 Screw	(2)
10	05-90-0225	M4 Lock Washer	(6)
12	10-15-1230	Warning Label	(1)
14	12-20-6116	Service Nameplate	(1)
15	14-29-0300	Gearcase Assembly	(1)
16	14-34-0700	Rear Handle Assembly	(1)
18	14-73-0400	Spindle/Hub Assembly	(1)
20	16-10-7005	Service Armature Assembly	(1)
21	18-07-2290	Service Field	(1)
22	22-22-1560	Carbon Brush Assembly	(2)
24	22-64-2021	Cord	(1)
25	23-66-2665	Switch	(1)
27	31-50-3340	Motor Housing	(1)
28	31-53-0240	Rubber Slug	(1)
29	31-92-0430	Slide Switch Button	(1)
30	31-92-0460	Switch Pole	(1)
31	32-60-1390	Bevel Pinion	(1)
32	34-40-0560	O-Ring	(1)
34	42-14-0475	Fan Baffle	(1)
36	43-34-0036	Inner Disk Flange	(1)
37	44-40-0035	Outer Flange Nut	(1)

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
38	44-66-0450	Bearing Retainer	(1)
39	44-76-0210	Strain Relief	(1)
40	02-04-0620	Ball Bearing	(1)
41	02-50-1195	Needle Bearing	(1)
42	28-14-0710	Gearcase	(1)
43	34-40-0450	O-Ring	(1)
44	40-50-1330	Compression Spring	(1)
45	42-42-0575	Spindle Lock Button	(1)
46	42-42-0580	Spindle Lock Tube	(1)
47	42-60-1190	Spindle Lock Pin	(1)
48	02-04-1150	Ball Bearing	(1)
49	28-53-0400	Lower Gearcase Hub	(1)
50	32-05-1090	Bevel Gear	(1)
51	34-80-2275	Retaining Ring	(1)
52	38-50-1275	Spindle	(1)
53	02-04-2110	Ball Bearing	(1)
54	45-88-0406	Washer	(1)
60	43-54-1070	4.5" T27 Guard Assembly (Standard)	(1)
61	43-54-1090	4.5" T1 Guard Assembly (Optional)	(1)
	42-62-0100	Side Handle (Not Shown)	(1)
	49-96-7205	Spanner Wrench (Not Shown)	(1)

FIG. LUBRICATION (*See lubrication note above):
 31,50 Type "Y" Grease, No. 49-08-5270, Must Be Applied To All Gear Teeth.
 32,42 Lightly coat with grease O-Ring and bearing bore in Gearcase.
 42 .3 -.4 Ounces (9-12 Grams) Type "Y" Grease, No. 49-08-5270.

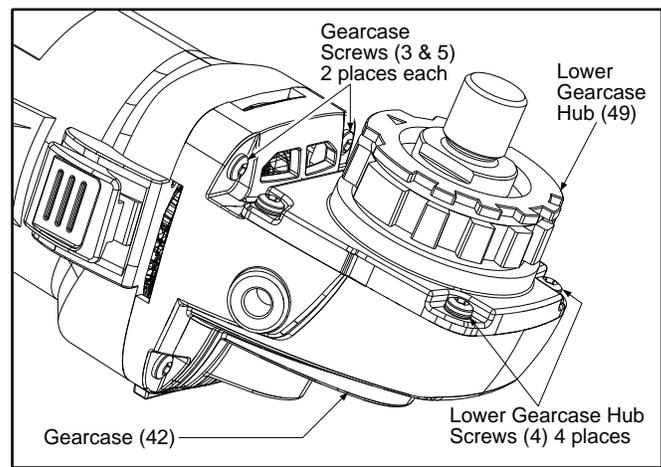


To remove Slide Switch Button (29), position a flat blade screwdriver along the center of the gearcase (42). Place blade under the locking tab of the Switch Blade Button and gently pry upward.

Be sure that push button of the Switch (25) is placed into the corresponding recess of the Switch Pole (30).

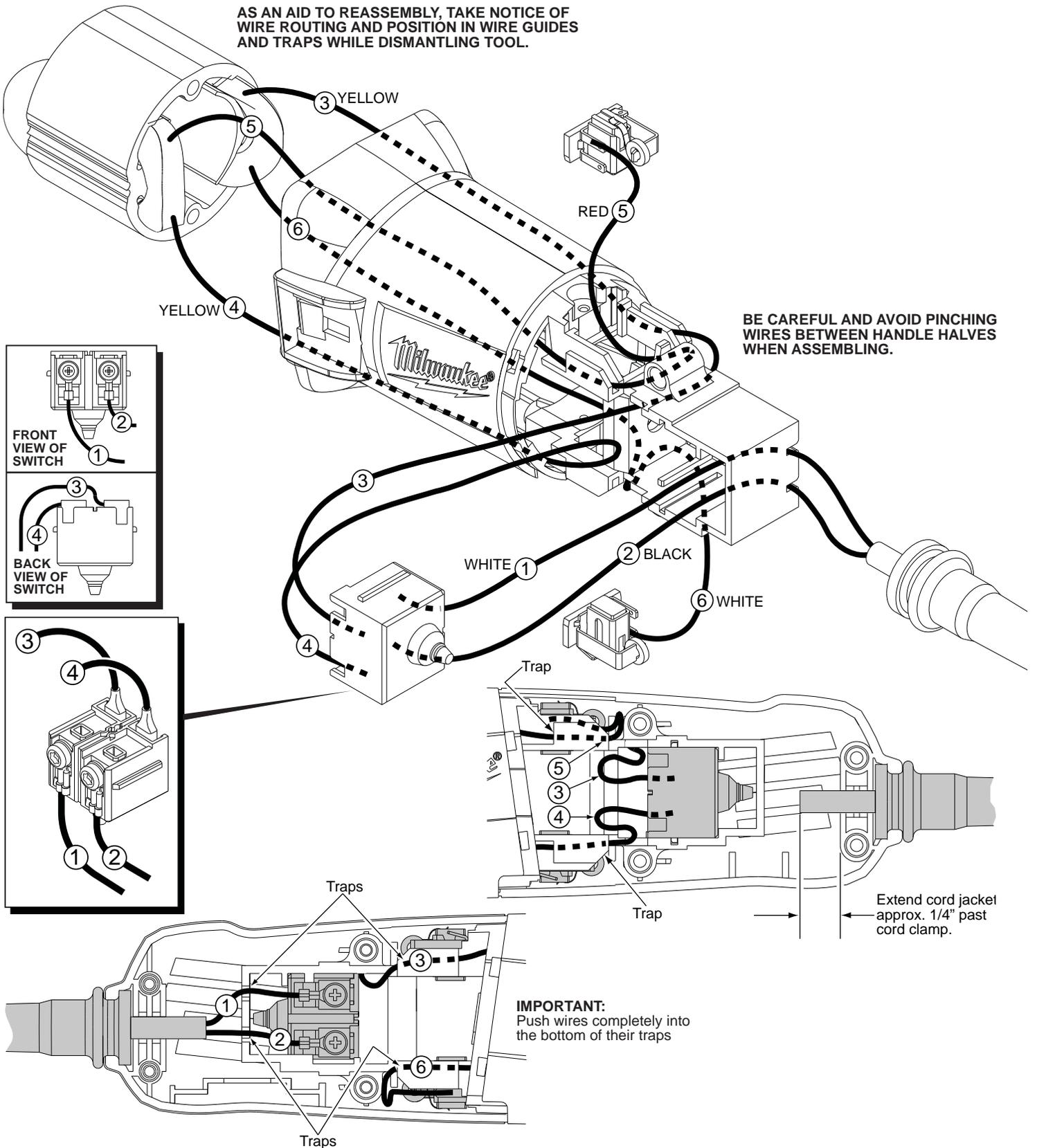
When reassembling the Slide Switch Button (29) be sure to orient with the locking tab as shown, towards the gearcase (42).

When servicing the Motor Housing (27) or the Switch Pole (30) it is recommended to snap the Slide Switch Button (29) into the Switch Pole, as shown prior to installing the Field (21).

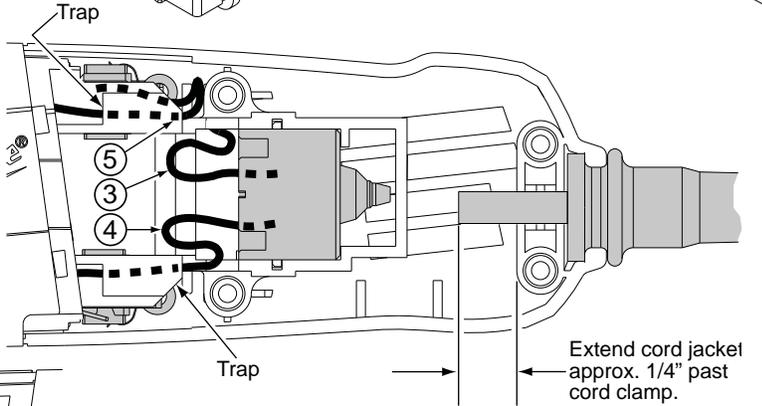
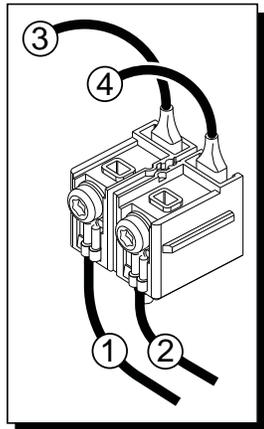
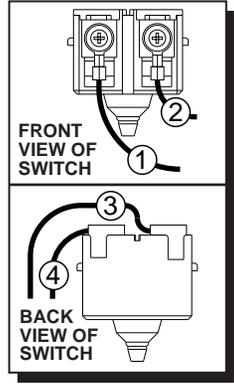


When servicing the Gearcase (42), first remove the four Screws (4) and Lower Gearcase Hub (49) to prevent damage to the bottom two Screws (5) that secure the Gearcase.

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



BE CAREFUL AND AVOID PINCHING WIRES BETWEEN HANDLE HALVES WHEN ASSEMBLING.



IMPORTANT:
Push wires completely into the bottom of their traps

WIRING SPECIFICATIONS

Wire No.	Wire Color	Origin or Part No.	Gauge	Length	Terminals, Connectors and End Wire Preparation
1	White	22-64-2021	--	--	Component of cord set.
2	Black	22-64-2021	--	--	Component of cord set.
3	Yellow	18-07-2290	--	--	Component of field.
4	Yellow	18-07-2290	--	--	Component of field.
5	Red	18-07-2290	--	--	Component of field.
6	White	18-07-2290	--	--	Component of field.

BULK LEAD WIRE - BULLETIN 58-01-0003

NOTE:

All leads must be held to $\pm 1/16"$.
All lead lengths are before stripping.

TERMINAL DESCRIPTION		
Code	Part No.	Qty.
CONNECTOR DESCRIPTION		