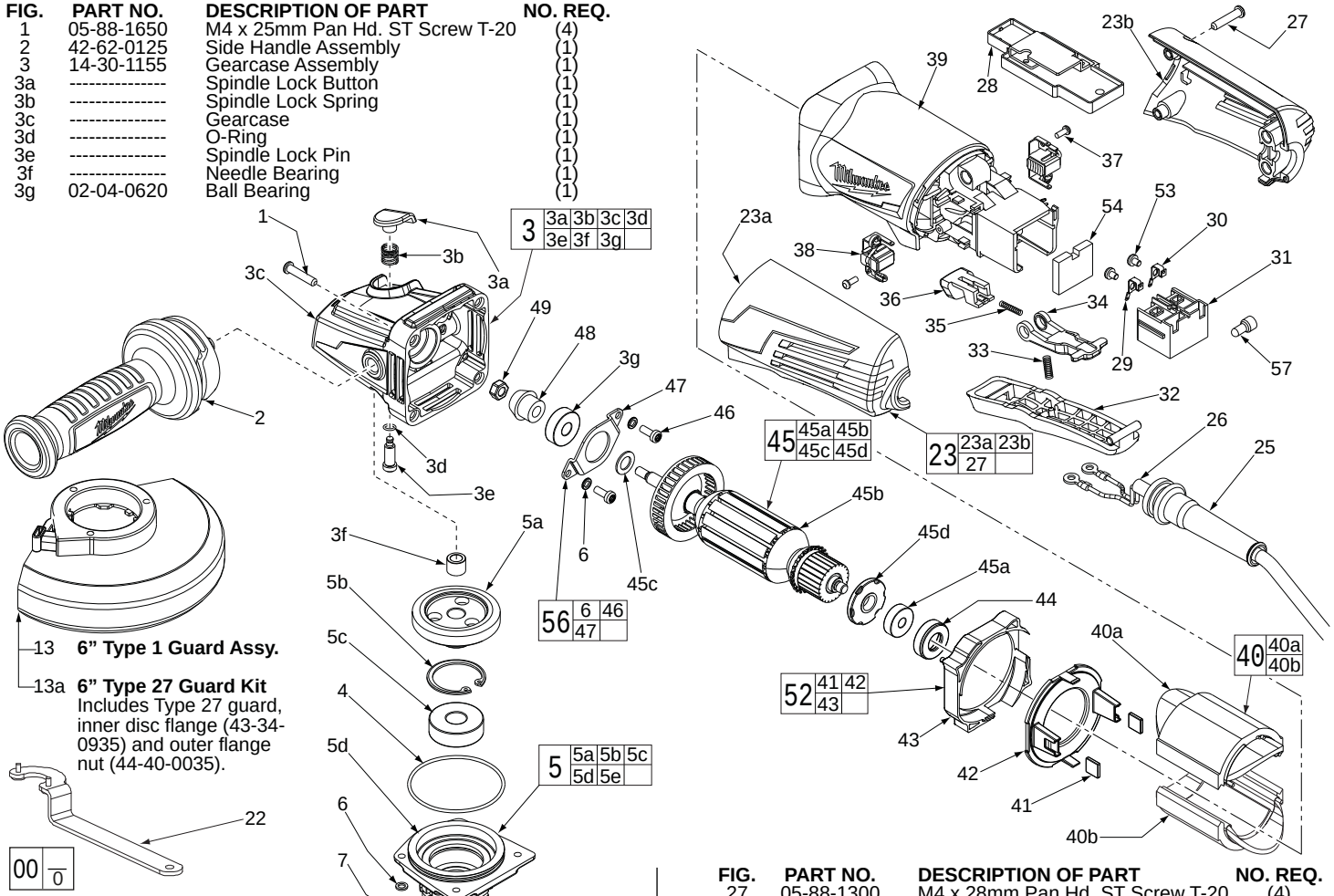
SERVICE PARTS LIST

BULLETIN NO. 54-38-2250

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS	REVISED BULLETIN	DATE
6" HP ANGLE GRINDER with PADDLE SWITCH with lock-on		May 2012
CAT. NO. 6161-30 STARTING SERIAL NUMBER **D07A**	WIRING INSTRUCTION	**See Reverse Side**

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	05-88-1650	M4 x 25mm Pan Hd. ST Screw T-20	(4)
2	42-62-0125	Side Handle Assembly	(1)
3	14-30-1155	Gearcase Assembly	(1)
3a	----------	Spindle Lock Button	(1)
3b	----------	Spindle Lock Spring	(1)
3c	----------	Gearcase	(1)
3d	----------	O-Ring	(1)
3e	----------	Spindle Lock Pin	(1)
3f	----------	Needle Bearing	(1)
3g	02-04-0620	Ball Bearing	(1)



13 **6" Type 1 Guard Assy.**

13a **6" Type 27 Guard Kit** Includes Type 27 guard, inner disc flange (43-34-0935) and outer flange nut (44-40-0035).

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

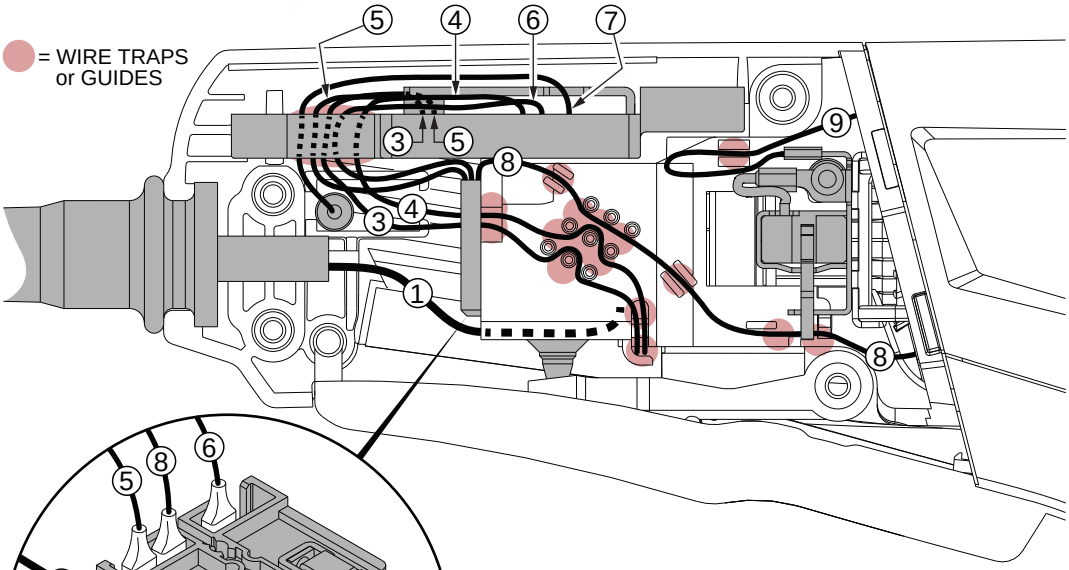
***LUBRICATION NOTE:**
When servicing the Gears (5a & 48) or the Gearcase (3c), 90-95% of the old grease must be removed prior to new grease being added.

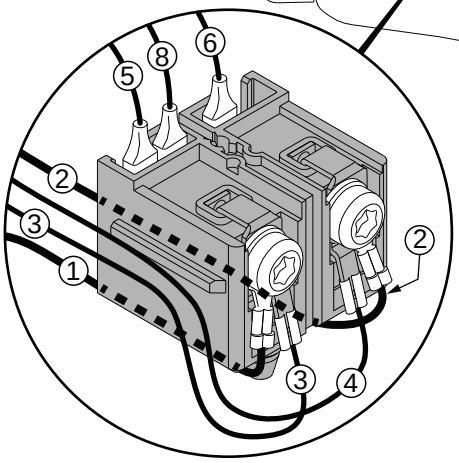
FIG.	LUBRICATION*
5a,48	Type "Y" Grease, No. 49-08-5270, Must Be Applied To All Gear Teeth.

4	34-40-0560	O-Ring	(1)
5	14-73-0430	Spindle Hub Assembly	(1)
5a	----------	Spiral Bevel Gear	(1)
5b	----------	Retaining Ring	(1)
5c	----------	Ball Bearing	(1)
5d	----------	Spindle Hub	(1)
5e	----------	5/8" Spindle	(1)
6	05-90-0225	Spring Washer	(6)
7	05-88-1210	M4 x 14mm Pan Hd. Mach. Screw T-20	(4)
13	14-32-0225	6" Type 1 Guard Assembly	(1)
13a	14-46-0406	6" Type 27 Guard Service Kit with flanges	(1)
15	----------	O-Ring	(1)
16	----------	Wavey Spring	(1)
17	----------	Flange with Ramps	(1)
18	----------	Retaining Ring	(1)
19	43-34-0205	6" T1 Inner Flange (For type 1 wheels only)	(1)
21	44-40-0205	6" T1 Outer Flange (For type 1 wheels only)	(1)
22	49-96-7205	Spanner Wrench	(1)
23	31-44-0645	Rear Handle Set	(1)
23a	----------	Left Handle Halve	(1)
23b	----------	Right Handle Halve	(1)
25	44-76-0095	Cord Protector	(1)
26	22-64-3430	Power Cord	(1)

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
27	05-88-1300	M4 x 28mm Pan Hd. ST Screw T-20	(4)
28	22-09-1845	PCB Assembly	(1)
29	23-74-1620	Terminal	(1)
30	23-74-1615	Terminal	(1)
31	23-66-2665	On-Off Switch	(1)
32	31-92-0275	Paddle Trigger	(1)
33	40-50-1140	Paddle Trigger Spring	(1)
34	44-14-0400	Paddle Linkage	(1)
35	40-50-1155	Lock Button Spring	(1)
36	42-42-0495	Lock-On Button	(1)
37	05-88-0030	M3 x 8.5mm Pan Hd. ST Screw T-10	(2)
38	22-18-2250	Carbon Brush Assembly (Set of 2)	(1)
39	31-50-2165	Motor Housing	(1)
40	18-07-0300	Field Assembly	(1)
40a	----------	Field Halve	(1)
40b	----------	Field Halve	(1)
41	42-28-0085	Rubber Block	(2)
42	----------	Baffle Foot	(1)
43	----------	Baffle	(1)
44	42-96-0016	Rubber Bearing Cap	(1)
45	16-10-0845	Armature Assembly	(1)
45a	02-04-2110	Ball Bearing	(1)
45b	----------	Armature	(1)
45c	45-88-0406	Washer	(1)
45d	----------	Magnetic Disc	(1)
46	05-88-1280	M4 x 10mm Pan Hd. Mach. Screw T-20	(2)
47	44-86-0155	Bearing Retainer	(1)
48	32-60-0305	Pinion	(1)
49	05-55-0620	M5 Hex Nut	(1)
50	14-46-6105	Flange with Ramps Assembly	(1)
52	42-14-0515	Baffle Assembly	(1)
53	05-78-0305	M3.5 x 7mm Pan Hd. Phil. Switch Scr.	(2)
54	23-16-0075	Foam Block	(1)
56	44-86-0145	Bearing Retaining Plate Assembly	(1)
57	22-56-0150	Closed End Wire Connector	(1)
	12-20-1560	Service Nameplate (Not Shown)	(1)
	10-20-2225	Bi-Lingual Warning Label (Not Shown)	(1)

MILWAUKEE ELECTRIC TOOL CORPORATION
13135 W. Lisbon Road, Brookfield, WI 53005



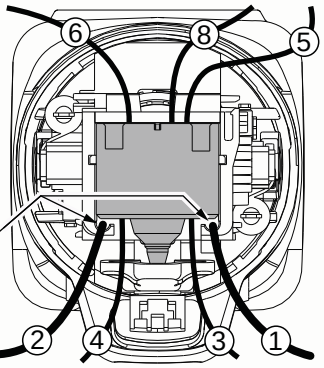


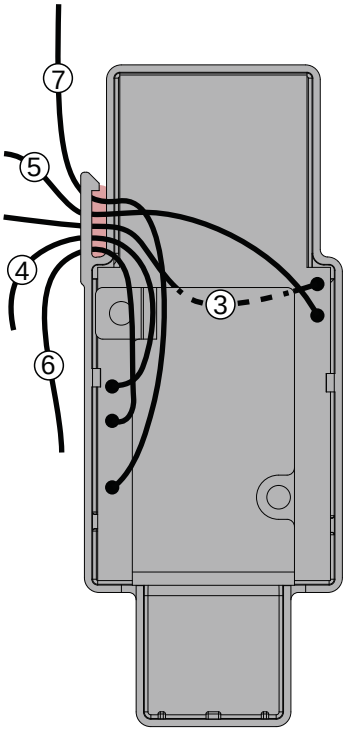
Attach all wires to the switch as shown prior to inserting switch into the motor housing. Be sure that foam block is seated in the switch opening of motor housing before switch is installed.

Back view of Motor Housing

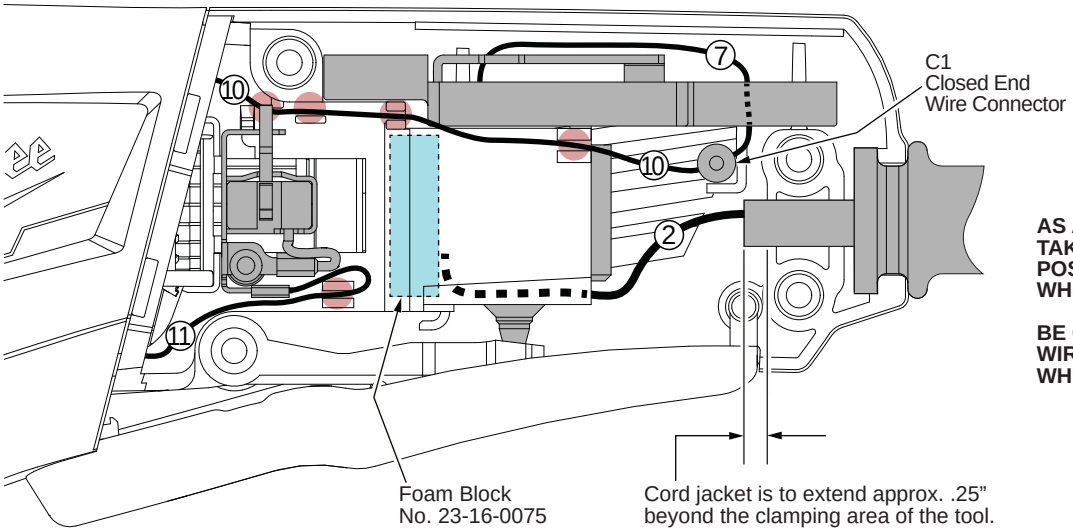
Cord wires #1 and #2 are to be routed under switch, in the channels of motor housing. Wires #3 and #4 are to be in the open area between the channels.

Channels for cord wires.





Top view of PCB Assembly



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.

WIRING SPECIFICATIONS

Wire No.	Wire Color	Origin or Part No.	Gauge	Length	Terminals, Connectors and End Wire Preparation
1	Black	22-64-3430	--	--	Component of Cord Set. Connect to Switch.
2	White	22-64-3430	--	--	Component of Cord Set. Connect to Switch.
3	Black	22-09-1845	--	--	Component of PCBA. Connect to Switch.
4	White	22-09-1845	--	--	Component of PCBA. Connect to Switch.
5	Black	22-09-1845	--	--	Component of PCBA. Connect to Switch.
6	White	22-09-1845	--	--	Component of PCBA. Connect to Switch.
7	Red	22-09-1845	--	--	Component of PCBA. Connect to C1 with wire #10.
8	Black	18-07-0300	--	--	Component of Field. Connect to Switch.
9	Black	18-07-0300	--	--	Component of Field. Connect to Right Brush Assy.
10	Black	18-07-0300	--	--	Component of Field. Connect to C1 with wire #7.
11	Black	18-07-0300	--	--	Component of Field. Connect to Left Brush Assy.

BULK LEAD WIRE - BULLETIN 58-01-0003

NOTE:
All leads must be held to ± 1/16".
All lead lengths are before strip-

TERMINAL DESCRIPTION		
Code	Part No.	Qnty.
CONNECTOR DESCRIPTION		
C1	22-56-0150	1