



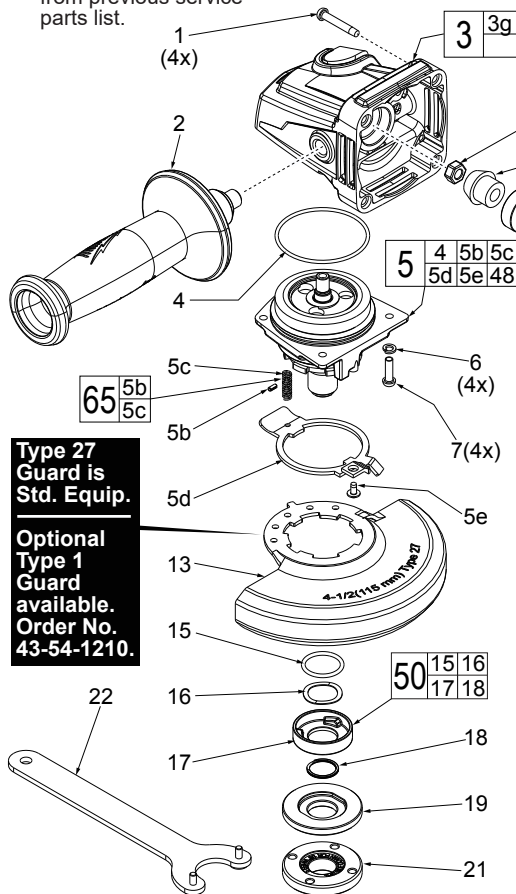
SERVICE PARTS LIST

BULLETIN NO.
54-38-2223

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS		REVISED BULLETIN	DATE
4.5" COMPACT ANGLE GRINDER w/ SLIDE SWITCH		54-38-2222	June 2025
CATALOG NO.	6146-33	WIRING INSTRUCTION	
SERIAL NO.	D04D	See Page 2	

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
★ 1	05-88-1650	M4 x 25mm Pan Hd. ST Screw T-20	(4)
★ 2	42-62-0120	Side Handle Assembly	(1)
★ 3	14-30-1156	Gearcase Assembly	(1)
3g	02-04-0620	Ball Bearing	(1)
4	34-40-0560	O-Ring	(1)
★ 5	14-73-0460	5/8-11 Spindle Hub Kit	(1)
★ 5b	-----	Steel Pin	(1)
★ 5c	-----	Spring	(1)
★ 5d	44-20-0875	Guard Locking Tang	(1)
★ 5e	45-04-0031	M3 x 5mm Pan Hd. ST t-8 Screw	(1)

★ = Part number change
from previous service
parts list.

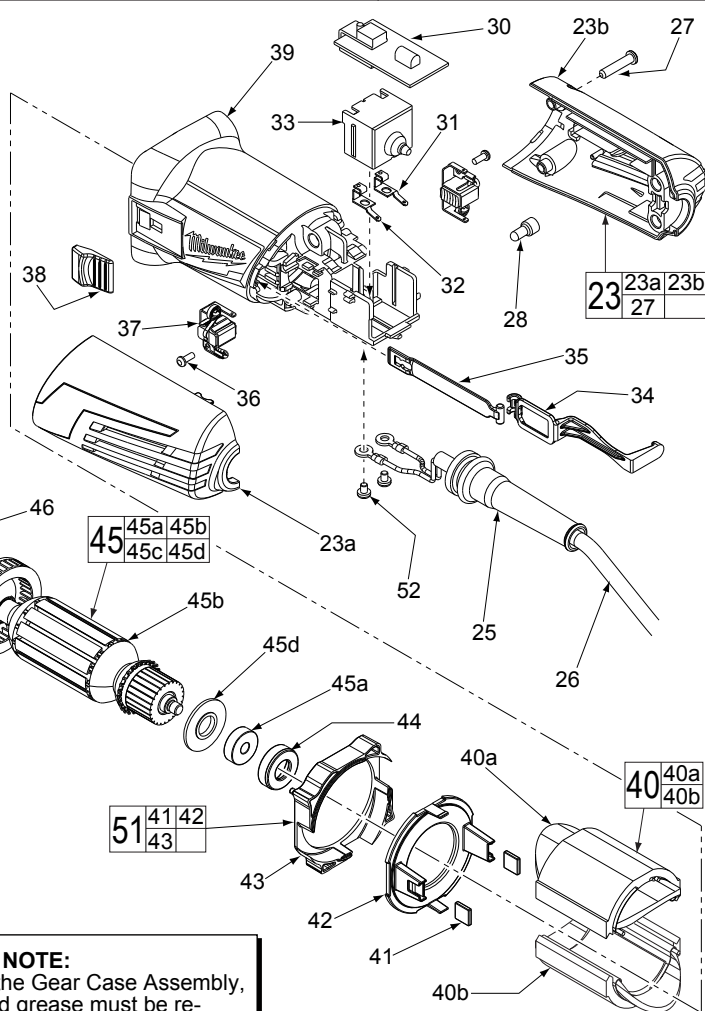


Type 27
Guard is
Std. Equip.

Optional
Type 1
Guard
available.
Order No.
43-54-1210.

***LUBRICATION NOTE:**
When servicing the Gear Case Assembly,
90-95% of the old grease must be re-
moved prior to new grease being added.

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

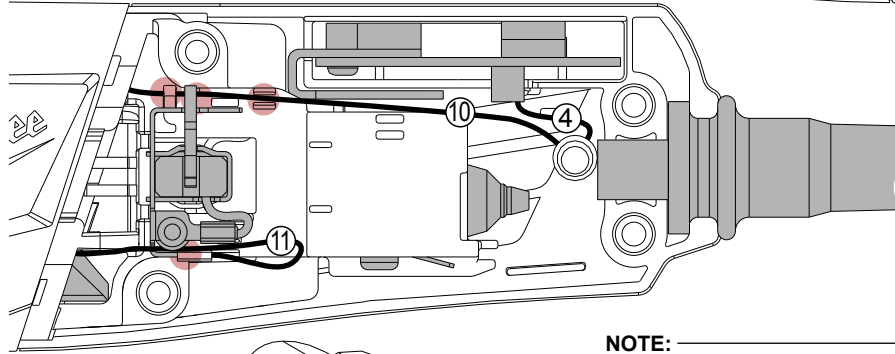
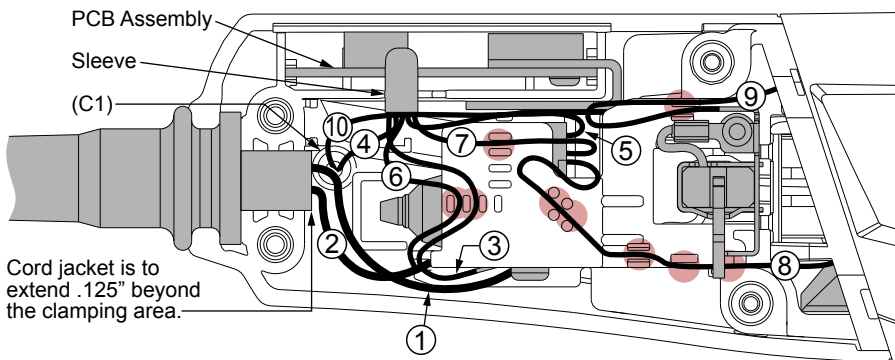


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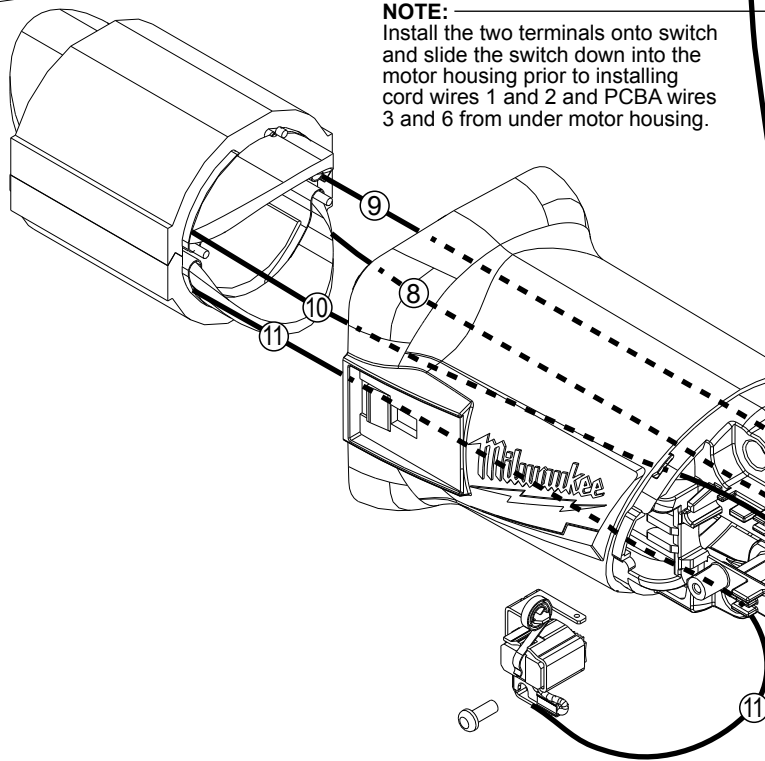
EXAMPLE:
Component Parts (Small #)
Are Included When Ordering
The Assembly (Large #).

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
6	05-90-0225	Spring Washer	(6)
7	05-78-5316	M4 x 14mm Pan Hd. Tapt. Screw T-20	(4)
★ 13	43-54-1200	4.5" Type 27 Guard (Standard Equip.)	(1)
★ 13	43-54-1210	4.5" Type 1 Guard (Optional, Not Shown)	(1)
15	-----	O-Ring	(1)
16	-----	Wavey Spring	(1)
17	-----	Flange with Ramps	(1)
18	-----	Retaining Ring	(1)
19	43-34-0935	Inner Disc Flange	(1)
21	44-40-0035	Outer Flange Nut	(1)
★ 22	49-96-7215	Spanner Wrench	(1)
23	14-34-6105	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)
27	05-88-1300	M4 x 28mm Pan Hd. ST Screw T-20	(4)
28	22-56-0150	Close End Connector	(1)
30	22-09-1820	PCB Assembly	(1)
31	23-74-1620	Terminal	(1)
32	23-74-1615	Terminal	(1)
33	23-66-2665	On-Off Switch	(1)
34	31-84-0080	Slide Pole - Back	(1)
35	31-84-0085	Slide Pole - Front	(1)
36	05-88-0030	M3 x 8.5mm Pan Hd. ST Screw T-10	(2)
37	22-18-2240	Carbon Brush Assembly (Set of 2)	(1)
38	31-89-0245	Slide Switch Button	(1)
39	31-50-0676	Motor Housing	(1)

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
40	18-07-0275	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	42-96-0017	Rubber Bearing Cap	(1)
45	16-10-0850	Armature Assembly	(1)
45a	02-04-2110	Ball Bearing	(1)
45b	-----	Armature	(1)
45c	45-88-0406	Washer	(1)
45d	31-86-0090	Plastic Disc	(1)
46	05-78-0105	M4 x 10mm Pan Hd. Tapt. Screw T-20	(2)
47	44-86-0155	Bearing Retainer	(1)
★ 48	-----	Pinion	(1)
49	05-55-0620	M5 Hex Nut	(1)
50	14-46-6105	Flange with Ramps Assembly	(1)
51	42-14-0520	Baffle Assembly	(1)
52	05-78-0305	M3.5 x 7mm Pan Hd. Phil. Switch Scr.	(2)
53	12-20-1560	Service Nameplate (Not Shown)	(1)
56	44-86-0145	Bearing Retaining Plate Assembly	(1)
★ 65	14-46-0241	Spring/Pin Kit	(1)

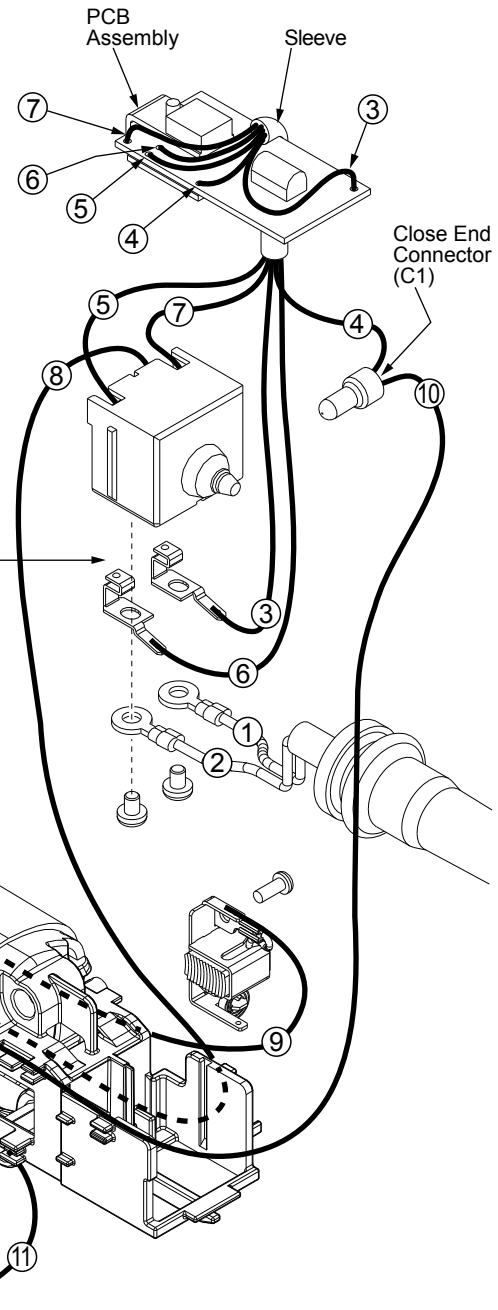


● = WIRE TRAPS or GUIDES



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	22-09-1820	--	--	Component of PCBA. Connect to Switch.
4	Red	22-09-1820	--	--	Component of PCBA. Connect to C1 with wire #10.
5	White	22-09-1820	--	--	Component of PCBA. Connect to Switch.
6	White	22-09-1820	--	--	Component of PCBA. Connect to Switch.
7	Black	22-09-1820	--	--	Component of PCBA. Connect to Switch.
8	Black	18-07-0275	--	--	Component of Field. Connect to Switch.
9	Black	18-07-0275	--	--	Component of Field. Connect to Right Brush Assy.
10	Black	18-07-0275	--	--	Component of Field. Connect to C1 with wire #4.
11	Black	18-07-0275	--	--	Component of Field. Connect to Left Brush Assy.

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

C1	22-56-0150	1
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