Milwaukee®

SERVICE PARTS LIST

BULLETIN NO.
54-06-2416

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS	REVISED BULLETIN 54-06-2415	DATE June 2011
12 VOLT 3/8" RAD DRILL		
CATALOG NO. 2415-20 — STARTING SERIAL NO. **C23B**	**WIRING INSTRUCTION SEE REVERSE SIDE**	

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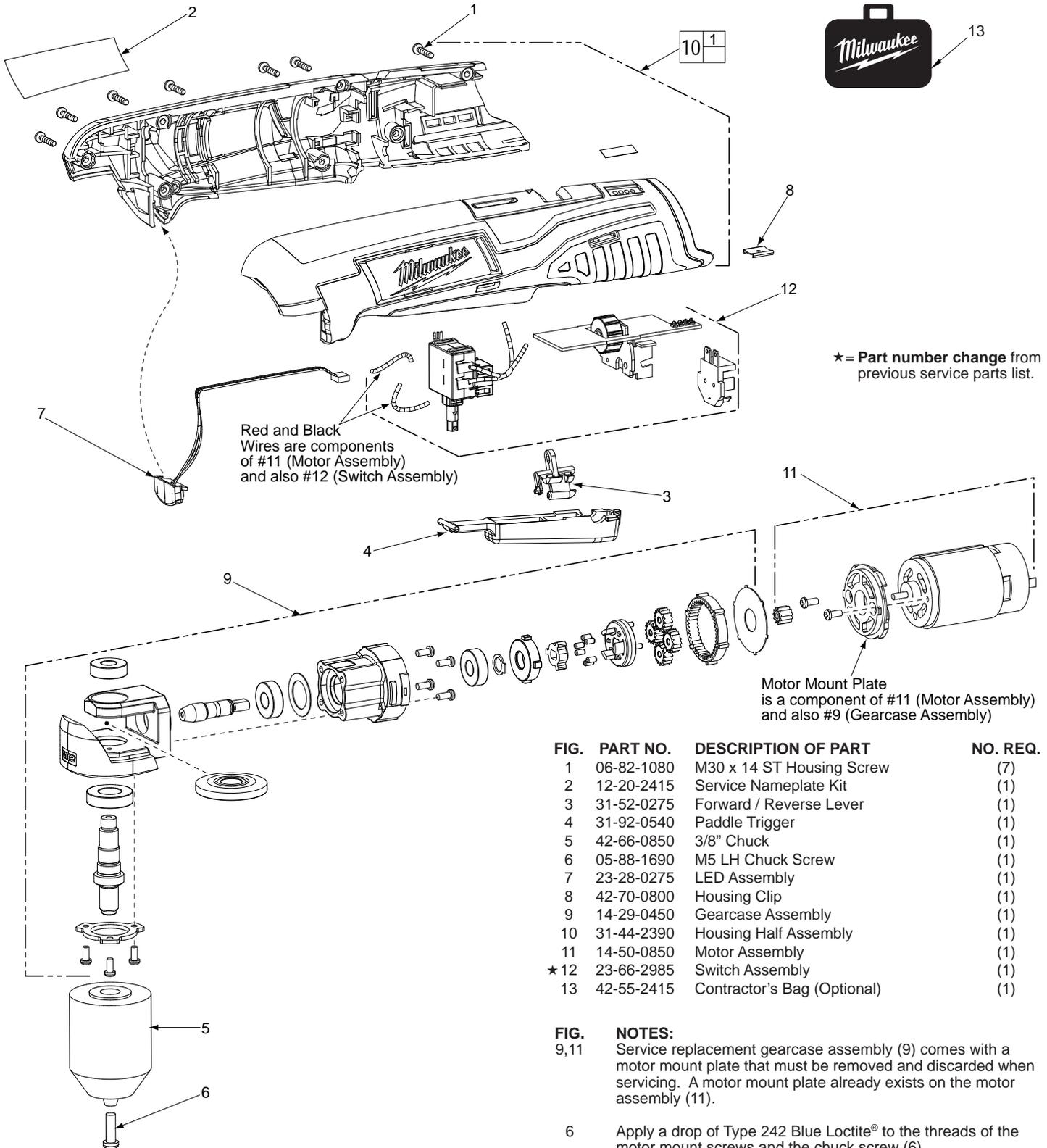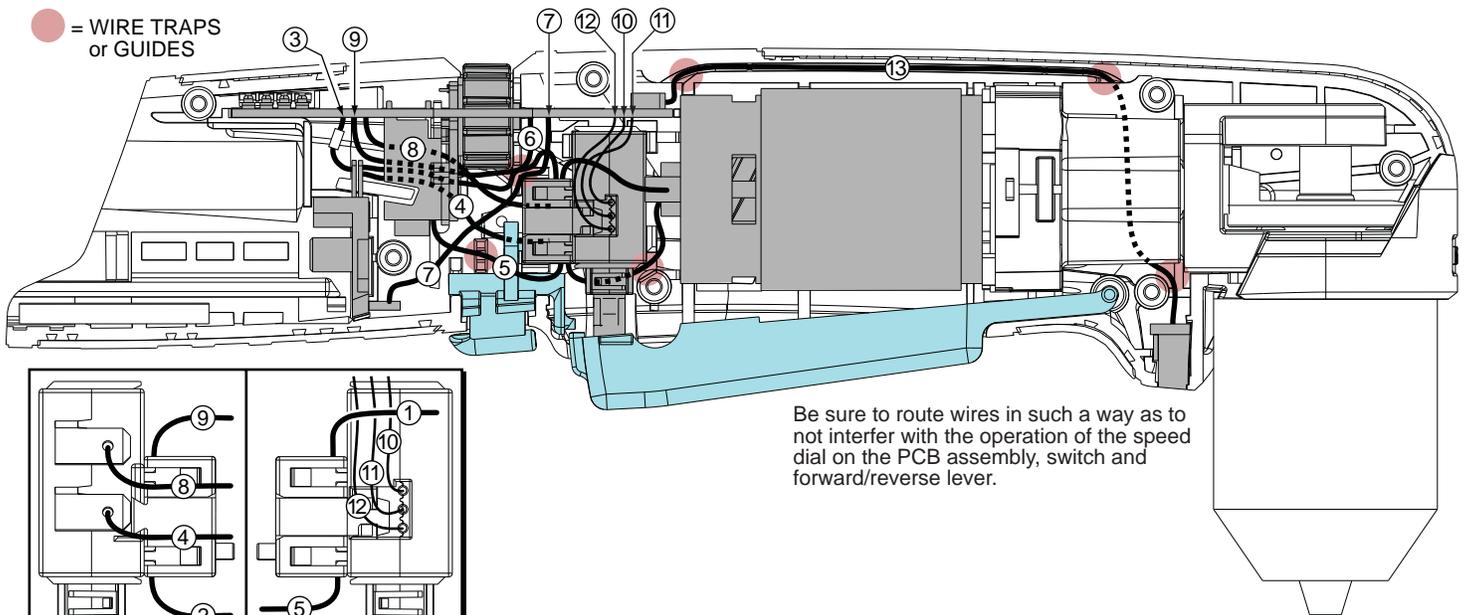00̄0̄ Component Parts (Small #) Are Included When Ordering The Assembly (Large #).

Red and Black Wires are components of #11 (Motor Assembly) and also #12 (Switch Assembly)

★= **Part number change** from previous service parts list.

Motor Mount Plate is a component of #11 (Motor Assembly) and also #9 (Gearcase Assembly)

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	06-82-1080	M30 x 14 ST Housing Screw	(7)
2	12-20-2415	Service Nameplate Kit	(1)
3	31-52-0275	Forward / Reverse Lever	(1)
4	31-92-0540	Paddle Trigger	(1)
5	42-66-0850	3/8" Chuck	(1)
6	05-88-1690	M5 LH Chuck Screw	(1)
7	23-28-0275	LED Assembly	(1)
8	42-70-0800	Housing Clip	(1)
9	14-29-0450	Gearcase Assembly	(1)
10	31-44-2390	Housing Half Assembly	(1)
11	14-50-0850	Motor Assembly	(1)
★12	23-66-2985	Switch Assembly	(1)
13	42-55-2415	Contractor's Bag (Optional)	(1)

FIG. **NOTES:**
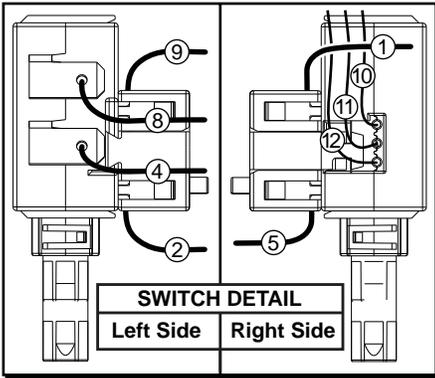
9,11 Service replacement gearcase assembly (9) comes with a motor mount plate that must be removed and discarded when servicing. A motor mount plate already exists on the motor assembly (11).

6 Apply a drop of Type 242 Blue Loctite® to the threads of the motor mount screws and the chuck screw (6).
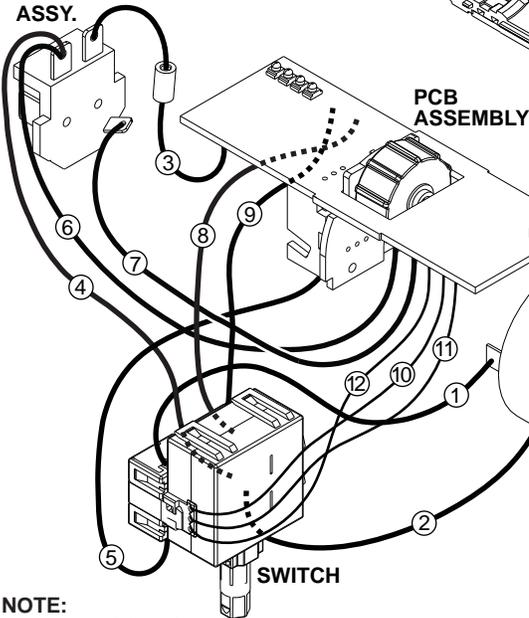
= WIRE TRAPS or GUIDES

③ ⑨ ⑦ ⑫ ⑩ ⑪ ⑬
⑧ ⑥ ④ ⑦ ⑤

Be sure to route wires in such a way as to not interfer with the operation of the speed dial on the PCB assembly, switch and forward/reverse lever.

SWITCH DETAIL

Left Side	Right Side

⑨ ⑧ ④ ② ① ⑩ ⑪ ⑫ ⑤

TERMINAL BLOCK ASSY.

PCB ASSEMBLY

③ ⑥ ⑧ ⑨ ⑬ ⑦ ④ ⑫ ⑩ ⑪ ① ⑤ ②

SWITCH

MOTOR ASSEMBLY

GEARCASE ASSEMBLY

LEFT HANDLE HALF

LED ASSEMBLY

NOTE:
SWITCH ASSEMBLY (23-66-2980) CONSISTS OF: SWITCH, PC BOARD AND TERMINAL BLOCK ASSY.

WIRING SPECIFICATIONS				
Wire No.	Wire Color	Origin or Gauge	Length	Terminals, Connectors and 1 or 2 End Wire Preparation
1	Black	Motor Assy.	-----	Connect from Motor (pos. terminal) to Switch.
2	Red	Motor Assy.	-----	Connect from Motor (neg. terminal) to Switch.
3	Black	Switch Assy.	-----	Attached to the PC Board and Terminal Block.
4	Red	Switch Assy.	-----	Attached to the Switch and Terminal Block.
5	White	Switch Assy.	-----	Attached to the Switch and the PC Board.
6	Red	Switch Assy.	-----	Attached to the PC Board and Terminal Block.
7	White	Switch Assy.	-----	Attached to the PC Board and Terminal Block.
8	Black	Switch Assy.	-----	Attached to the Switch and the PC Board.
9	Red	Switch Assy.	-----	Attached to the Switch and the PC Board.
10	Yellow	Switch Assy.	-----	Attached to the Switch and the PC Board.
11	Blue	Switch Assy.	-----	Attached to the Switch and the PC Board.
12	Black	Switch Assy.	-----	Attached to the Switch and the PC Board.
13	-----	LED Assy.	-----	Attach connector end of 4 wire ribbon to PC Board.