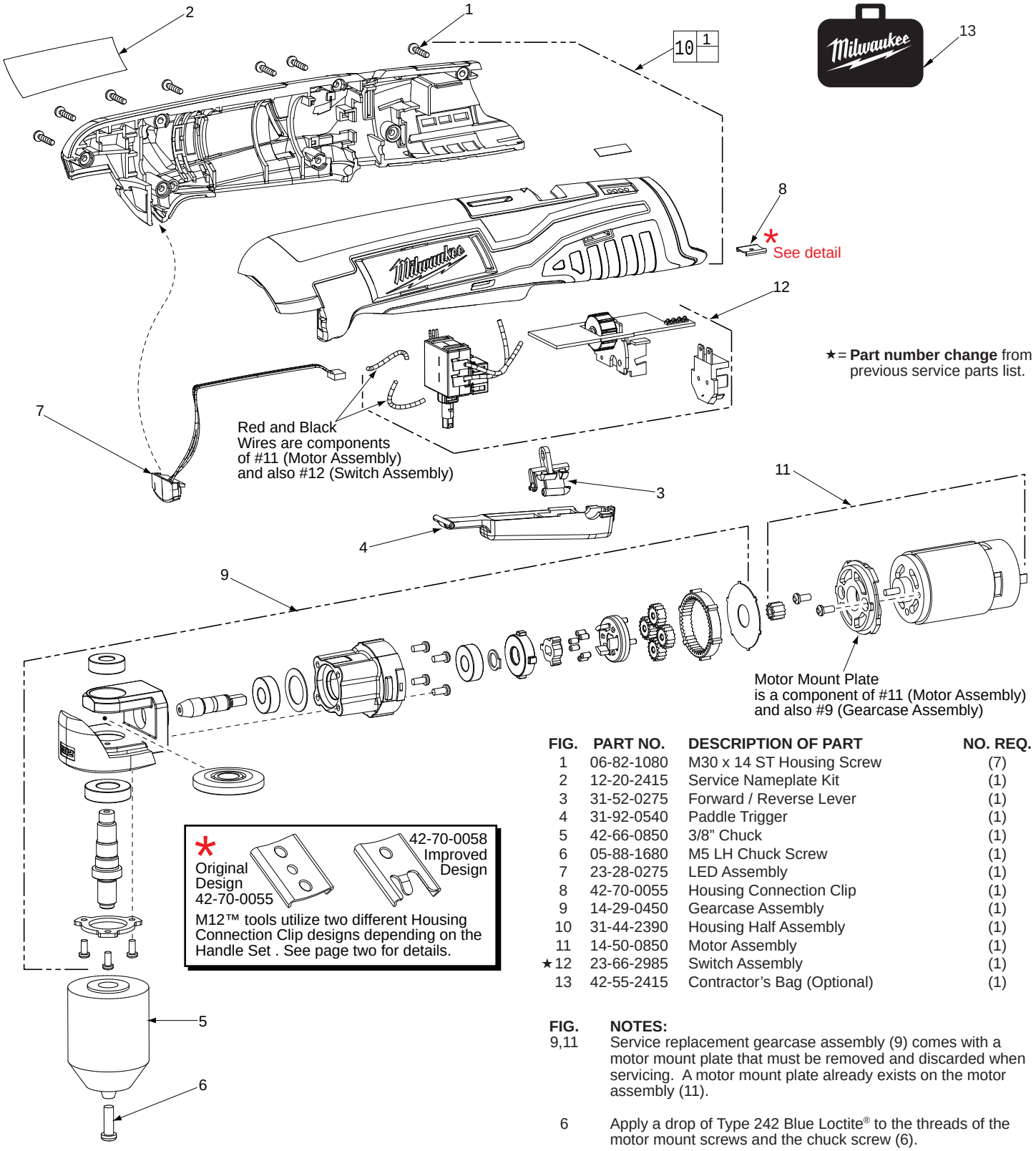
SERVICE PARTS LIST

BULLETIN NO. 54-06-2416

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS		REVISED BULLETIN	DATE
M12™ 3/8" RAD DRILL		54-06-2415	Feb. 2014
CATALOG NO. 2415-20	STARTING SERIAL NO. **C23B**	WIRING INSTRUCTION **SEE PAGE 3**	

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



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

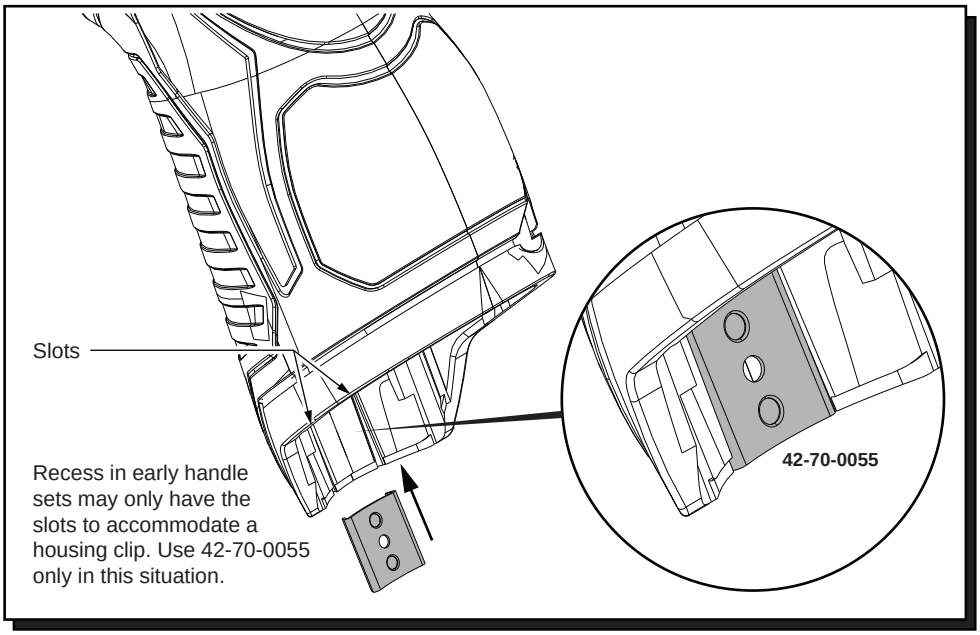
FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	06-82-1080	M30 x 14 ST Housing Screw	(7)
2	12-20-2415	Service Nameplate Kit	(1)
3	31-52-0275	Forward / Reverse Lever	(1)
4	31-92-0540	Paddle Trigger	(1)
5	42-66-0850	3/8" Chuck	(1)
6	05-88-1680	M5 LH Chuck Screw	(1)
7	23-28-0275	LED Assembly	(1)
8	42-70-0055	Housing Connection 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:

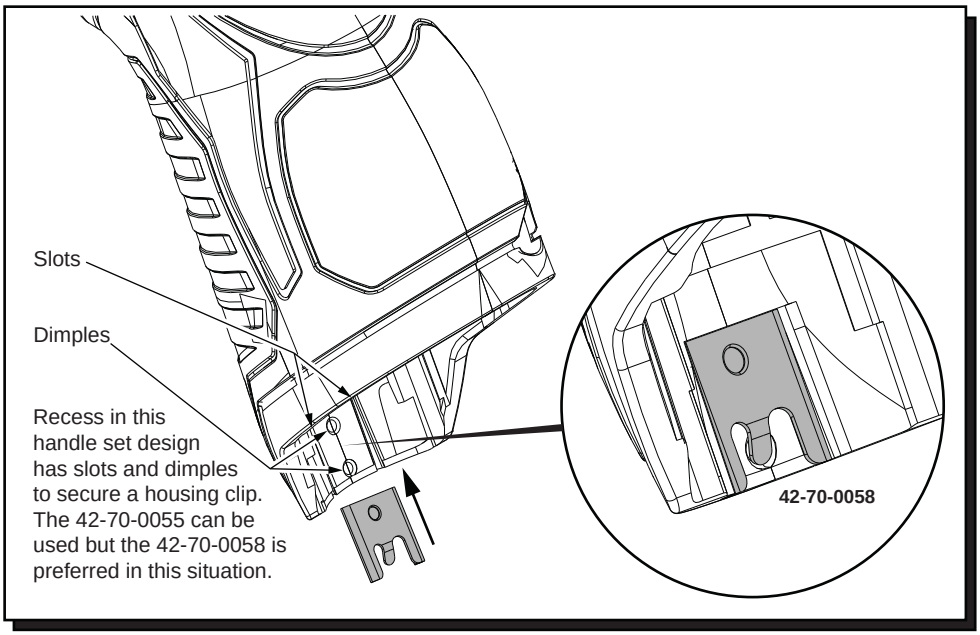
9,11 Service replacement gearcase assembly (9) comes with a motor mount plate that must be removed and discarded when servicing. A motor mount plate already exists on the motor assembly (11).

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

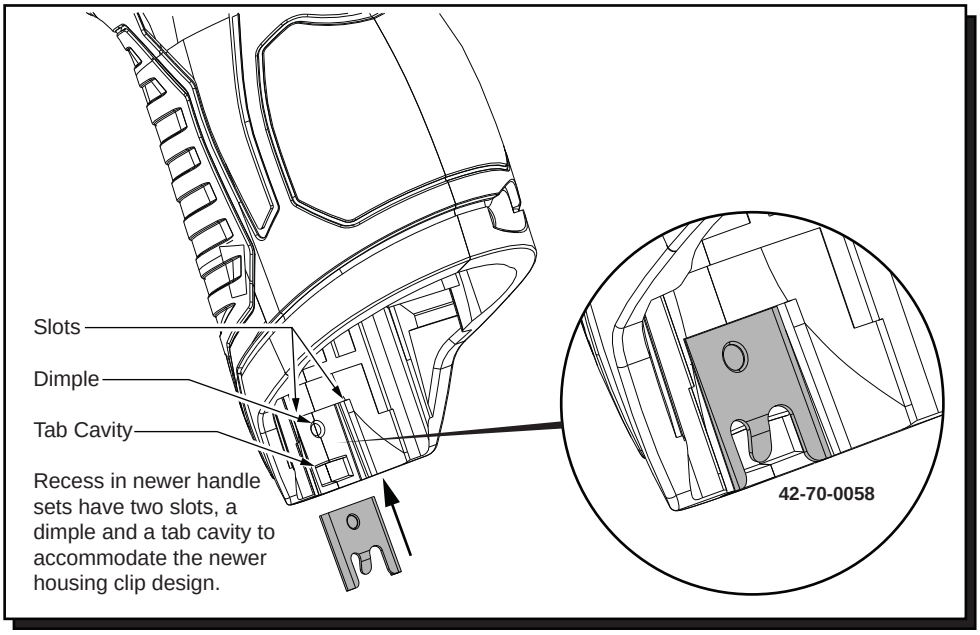
MILWAUKEE ELECTRIC TOOL CORPORATION
13135 W. Lisbon Road, Brookfield, WI 53005



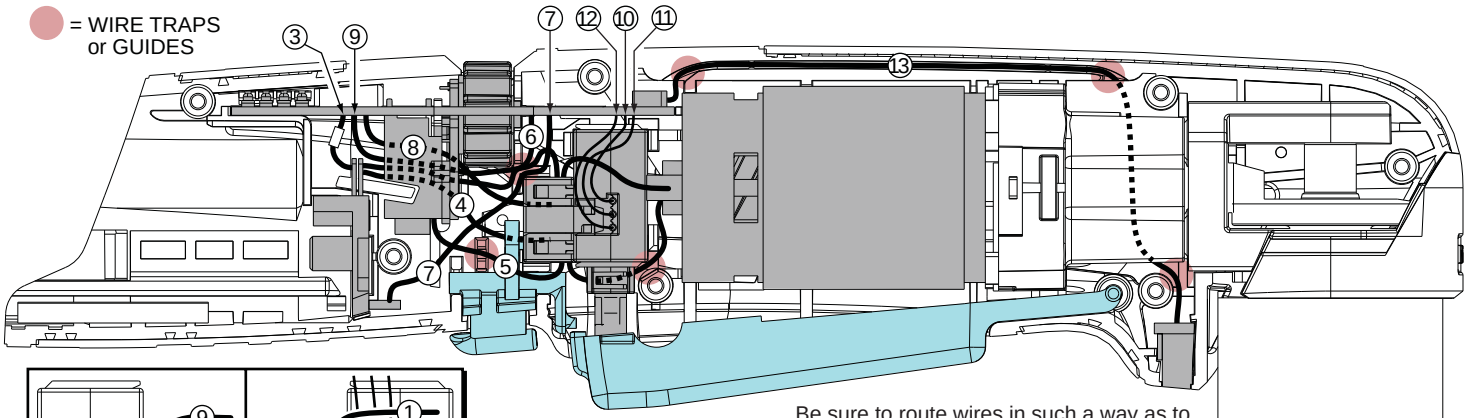
Early M12™ Handle Sets utilize **Housing Connection Clip No. 42-70-0055.** Install this clip design by aligning the side rails of the clip with the two slots in the handle set. Gently push into place with the aid of a small flat blade screwdriver or a similar instrument. Be sure that the clip is properly seated in both slots and that the clip is flush to sub-flush to the end of the handle set. To remove the clip, use the same small flat blade screwdriver or a similar instrument and push the clip out of the handle set. If the clip is loose or will not stay in place, a needle nose pliers can be used to gently bend/pinch the side rails of the clip. If the clip is damaged do not use, replace with a new 42-70-0055 housing clip.



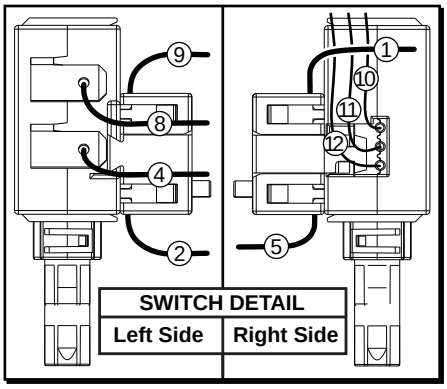
Updated M12™ Handle Sets utilize **Housing Connection Clips No. 42-70-0055 and 42-70-0058. (The 42-70-0058 is a preferred upgrade).** Install this clip design by aligning the side rails of the clip with the two slots in the handle set. Gently push into place with the aid of a small flat blade screwdriver or a similar instrument. Be sure that the clip is properly seated in both slots and that the tab of the clip snaps down in the round dimpled cavity of the handle set. Be sure that the clip is flush to sub-flush to the end of the handle set. To remove the clip, use the same small flat blade screwdriver or a similar instrument and lift up on the clip tab while pushing the clip out of the handle set. Use a needle nose pliers to gently rebend the clip tab if necessary. If the tab on the clip is damaged during this process and is loose or will not stay in place, replace with a new 42-70-0058 clip.

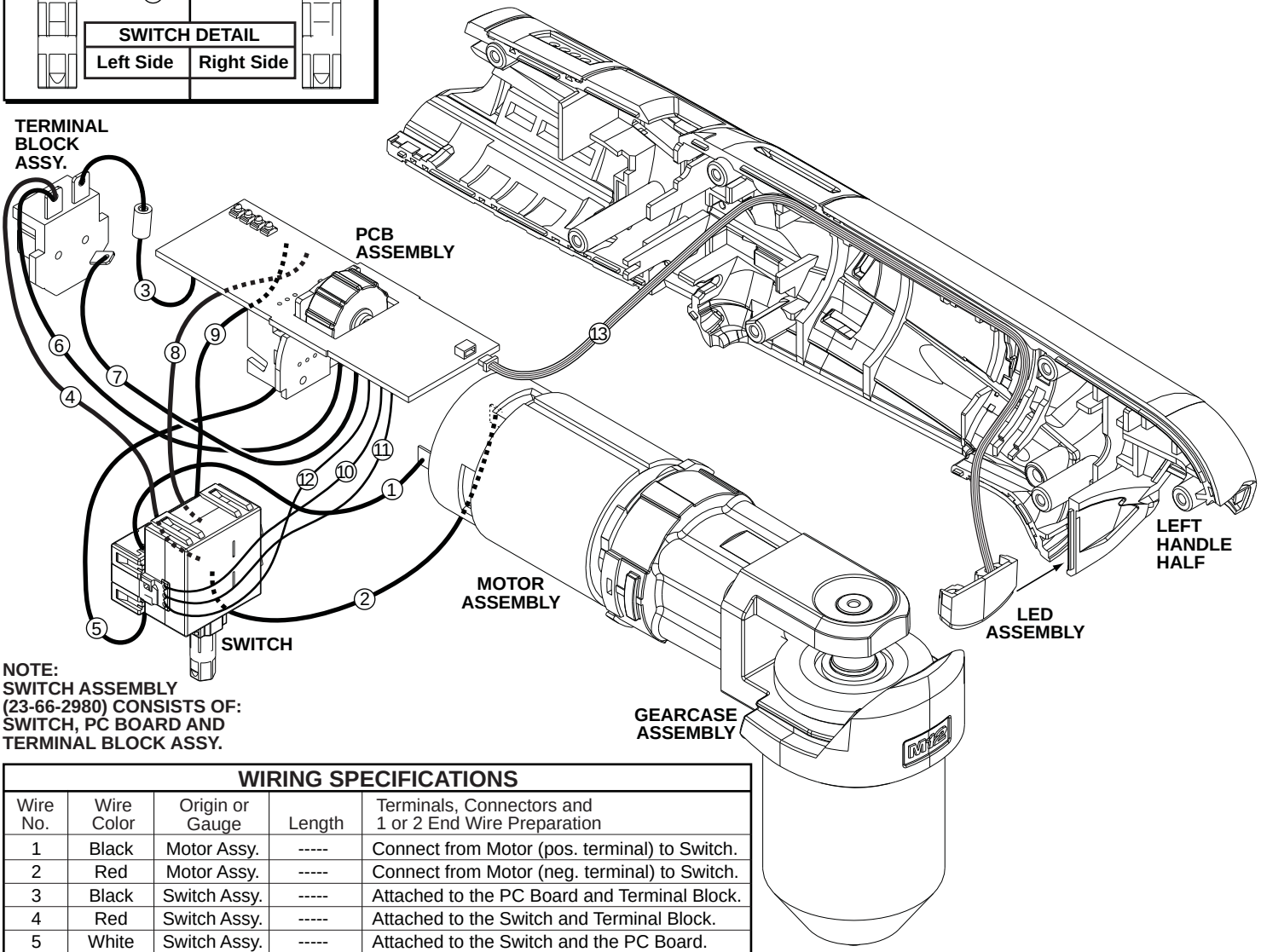


Newer M12™ Handle Sets utilize **Housing Connection Clip No. 42-70-0058.** Install this clip design by aligning the side rails of the clip with the two slots in the handle set. Gently push into place with the aid of a small flat blade screwdriver or a similar instrument. Be sure that the clip is properly seated in both slots and that the tab of the clip snaps down in the rectangular cavity of the handle set. Be sure that the clip is flush to sub-flush to the end of the handle set. To remove the clip, use the same small flat blade screwdriver or a similar instrument and lift the clip tab out of the cavity while pushing the clip out of the handle set. Use a needle nose pliers to gently rebend the clip tab if necessary. If the tab on the clip is damaged during this process and is loose or will not stay in place, replace with a new 42-70-0058 clip.



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.





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.