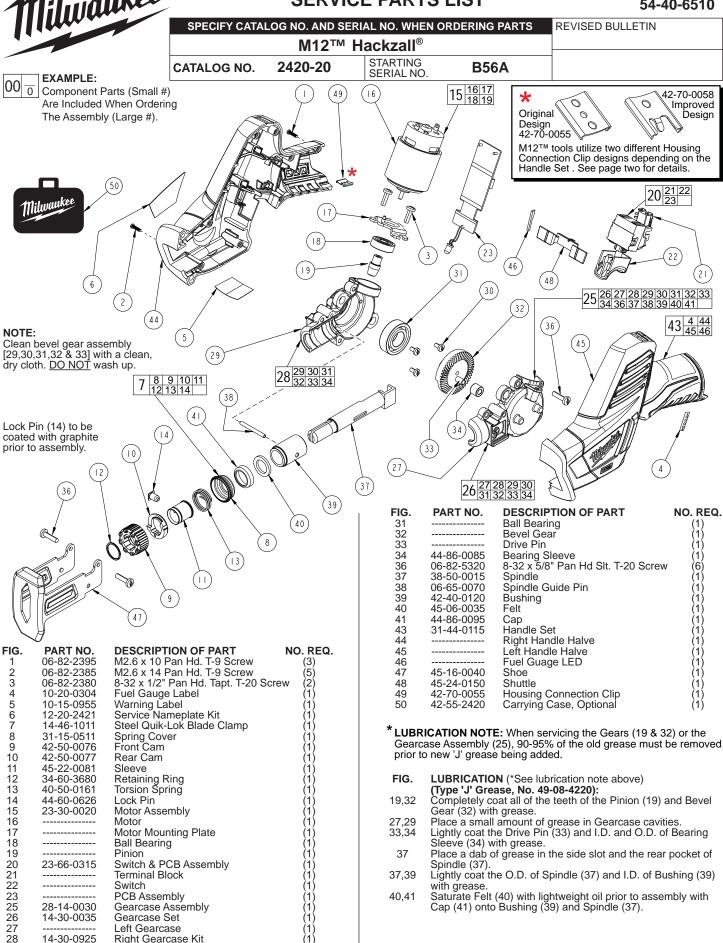
SERVICE PARTS LIST

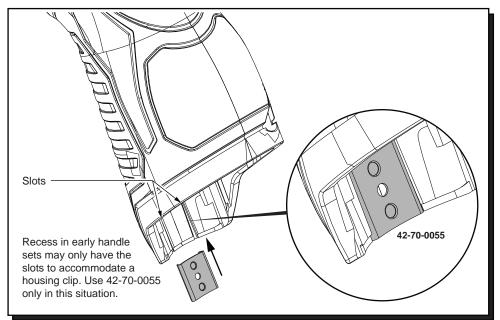
Milwankee

Right Gearcase

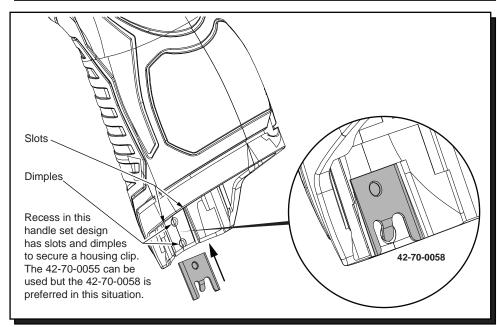
6-32 x 1/4" Pan Hd. Slt. T-15 Screw

30

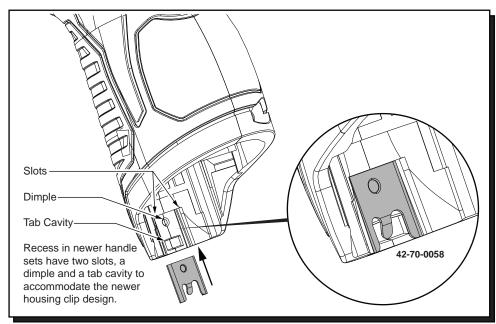




Early M12™ Handle Sets utilize Housing Connection Clip No. 42-70-0055. Install this clip design by aligning the side rails of the clip with the two slots in the handle set. Gently push into place with the aid of a small flat blade screwdriver or a similar instrument. Be sure that the clip is properly 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.

Disassembly

3-15-25-36

Motor assembly [15] can be easily remove from gearcase assembly [25] by removing screws [3] and loosening two screws [36] from the motor ball bearing [18] area of gearbox [25]

5 - 43

Before separating housing set [43] carefully cut thru the center of warning label [5] following the seam of the housing halves

Reassembly

15 - 17 -25

When reinstalling motor assembly [15] into gearcase assembly [25] make sure alignment pin side of motor mounting plate [17] faces top of Gearcase assembly [25] (Fig. A)

29 - 38

Press spindle guide pin [38] flush to outside casting of right gearcase [29]

20 - 23 - 45

When reassembling switch assembly [20/23] into left motor housing half [45], place LED into housing first then position LED wiring into housing wire traps as shown in (Fig. B)

23 - 45 - 48

For proper back and forth movement of shuttle [48] PCB [23] must be inserted into left housing half [45] support slots as shown in (Fig. C)

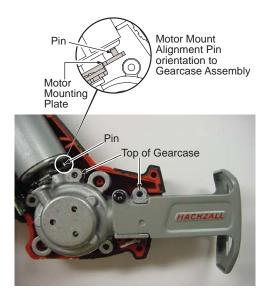
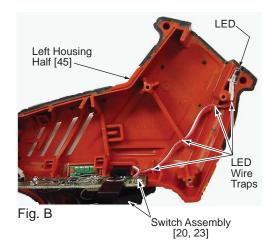


Fig. A



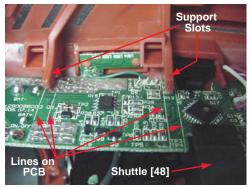


Fig. C

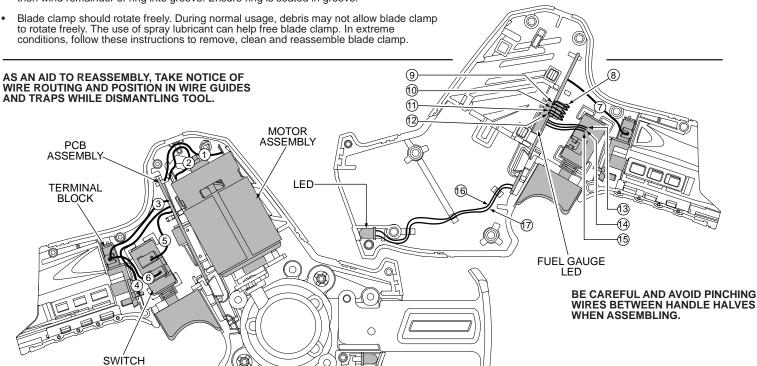
PCB Support slots found in Left Housing Half <u>must align with</u> <u>lines</u> on PCB for proper shuttle movement

REMOVING THE STEEL QUIK-LOK® BLADE CLAMP

- · Remove external retaining ring (12) and pull front cam (9) off.
- Pull lock pin (14) out and remove remainder of parts and discard.

REASSEMBLY OF THE STEEL QUIK-LOK® BLADE CLAMP

- Coat new lock pin with powdered graphite.
- Hold tool in a vertical position.
- Place spring cover (8) onto spindle.
- Slide torsion spring (13) onto spindle with spring leg on hole side of spindle.
- Slide sleeve (11) onto spindle aligning hole on sleeve with hole in spindle.
- · Slide rear cam (10) over sleeve until it bottoms on sleeve shoulder, ensure spring leg inserts into hole in rear cam.
- Rotate rear cam in the direction of the arrows located on spring cover until there is clearance for lock pin (14) to be inserted into sleeve/spindle holes. Insert lock pin.
- Align front cam (9) inner ribs with rear cam outer slots and slide front cam onto sleeve until it bottoms.
 Retaining ring (12) groove should be completely visible.
- Attach retaining ring by separating coils and inserting end of ring into groove, then wind remainder of ring into groove. Ensure ring is seated in groove.



WIRING SPECIFICATIONS					
Wire No.	Wire Color	Origin or Gauge	Length	Termir	nals, Connectors and 1 or 2 End Wire Preparation
	1	Red -			Component of the Switch & PCB Assembly.
	2	White -			Component of the Switch & PCB Assembly.
	3	Red -			Component of the Switch & PCB Assembly.
	4	White -			Component of the Switch & PCB Assembly.
	5	Black -			Component of the Switch & PCB Assembly.
	6	Red -			Component of the Switch & PCB Assembly.
	7	Black -			Component of the Switch & PCB Assembly.
	8	Gray -			Component of the Switch & PCB Assembly.
	9	Green -			Component of the Switch & PCB Assembly.
	10	Red -		 	Component of the Switch & PCB Assembly.
	11	Black -			Component of the Switch & PCB Assembly.
	12	White -			Component of the Switch & PCB Assembly.
	13	Yellow -			Component of the Switch & PCB Assembly.
	14	Blue -			Component of the Switch & PCB Assembly.
	15	Black -	 		Component of the Switch & PCB Assembly.
	16	Red -			Component of the Switch & PCB Assembly.
	17	White -			Component of the Switch & PCB Assembly.

Outer Slot

12