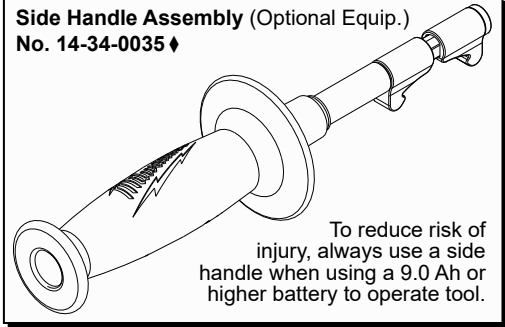




SERVICE PARTS LIST

BULLETIN NO.
54-24-2513

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS		REVISED BULLETIN 54-24-2512	DATE Feb. 2021
M18™ 1/2" HAMMER-DRILL			
CATALOG NO.	2607-20	STARTING SERIAL NO.	F25E & F25F
		WIRING INSTRUCTION SEE PAGE 3	



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

★ = Part number change from previous service parts list.

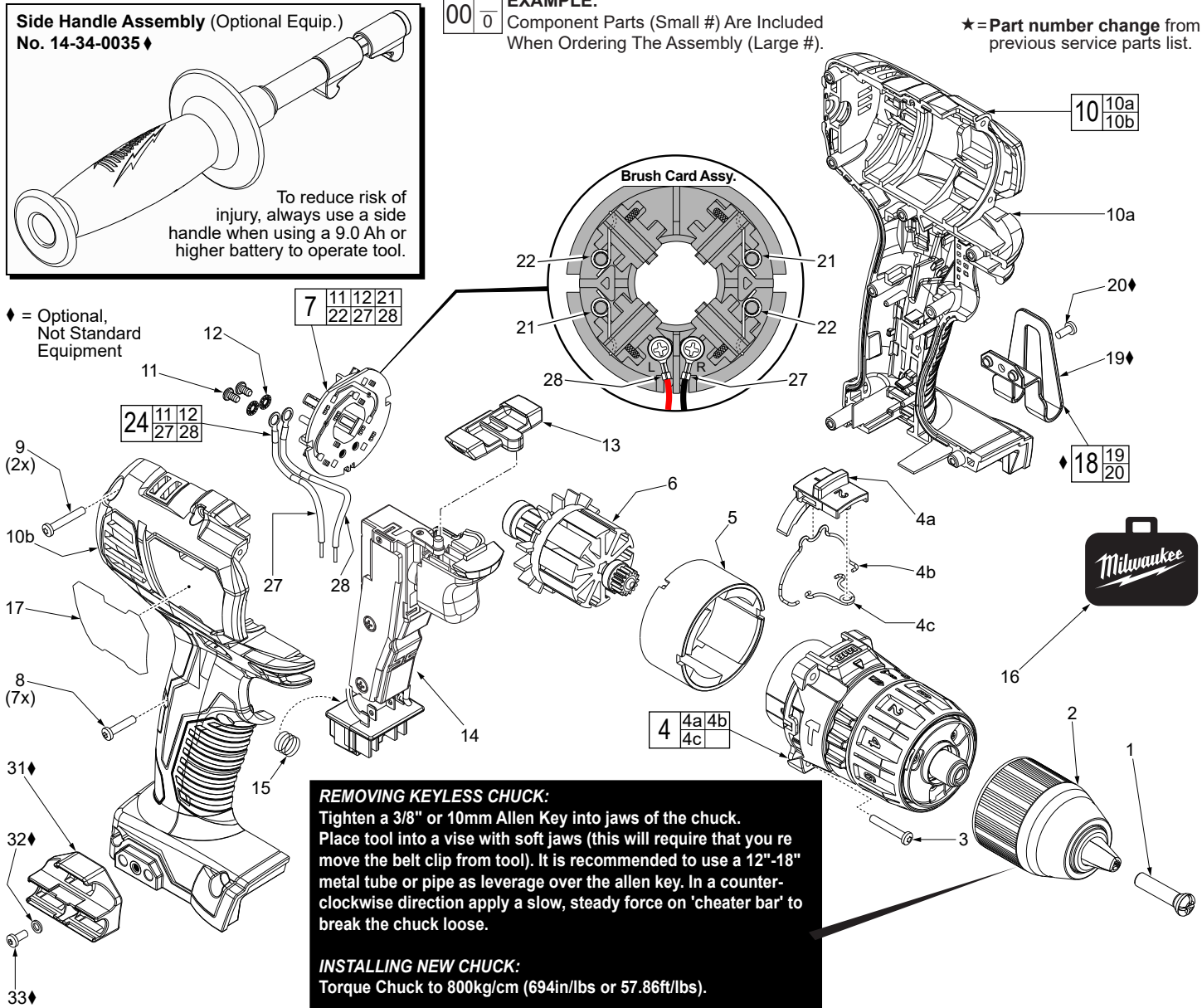
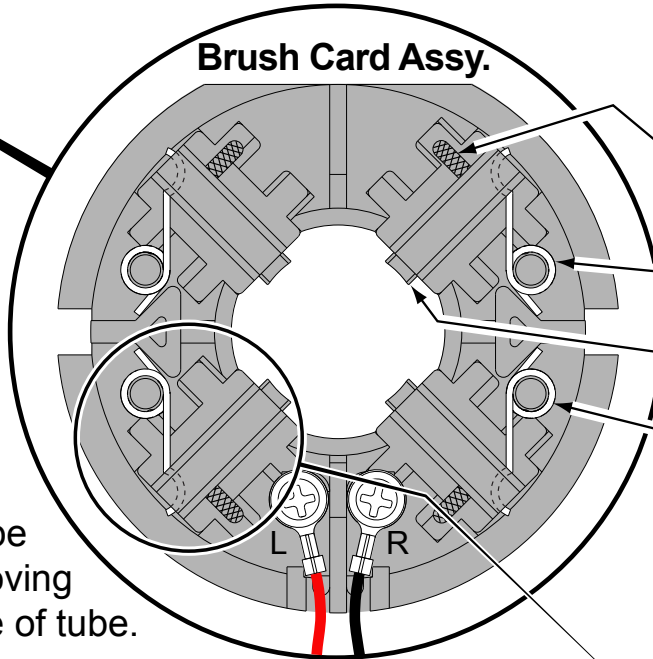
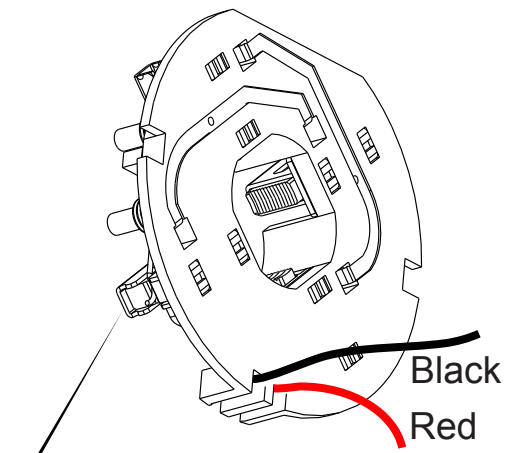


FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.	FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	05-88-1500	M6 x 27mm LH Chuck Screw	1	15	40-50-1090	Terminal Block Spring	1
★ 2	42-66-0023	Keyless 1/2" Chuck	1	16	42-55-2606	Blow Molded Carrying Case	1
3	06-82-0135	M3 x 18mm Pan Hd. Plastite T-10 Screw	4	17	12-20-2607	Service Nameplate	1
4	14-29-2607	Gear Box Assembly	1	18	42-70-2653	Belt Clip Assembly, <i>Optional</i>	1
4a	45-24-2607	Speed Selector Slide	1	19	-----	Belt Clip, <i>Optional</i>	1
4b	44-10-2607	Speed Change Lever	1	20	-----	Belt Clip Screw, <i>Optional</i>	1
4c	40-50-2607	Torsion Spring	1	21	-----	Brush Spring - Right Hand	2
5	18-01-3020	Service Field	1	22	-----	Brush Spring - Left Hand	2
6	16-07-2607	Service Armature	1	24	14-46-2394	Leadwire/Screw/Washer Kit	1
7	22-22-2602	Brush Card Assembly	1	27	-----	Leadwire Assembly - Black - Right Side	1
8	06-82-6350	M3 x 16mm Pan Hd. Plastite T-10 Screw	7	28	-----	Leadwire Assembly - Red - Left Side	1
9	06-82-7336	M3 x 20mm Pan Hd. Plastite T-10 Screw	2	31	43-72-0550	Bit Holder, <i>Optional</i>	1
★ 10	31-44-0228	Handle Assembly	1	32	05-90-0225	Washer, <i>Optional</i>	1
10a	-----	Left Handle Halve	1	33	06-82-5275	6-32 x 5/16" Pan Hd. T-15 Screw, <i>Optional</i>	1
10b	-----	Right Handle Halve	1				
11	05-88-0928	M3 x 5mm Pan Hd. T-10 Screw	2				
12	45-88-1980	Spring Washer	2				
13	42-42-2607	Forward/Reverse Shuttle	1				
★ 14	23-66-0296	Electronics Assembly (Consists of Switch, PCBA, LED and Battery Terminal Block)	1				

INSTALLING BRUSH SPRINGS ON A BRUSH CARD ASSEMBLY WITH FOUR (4) BRUSHES

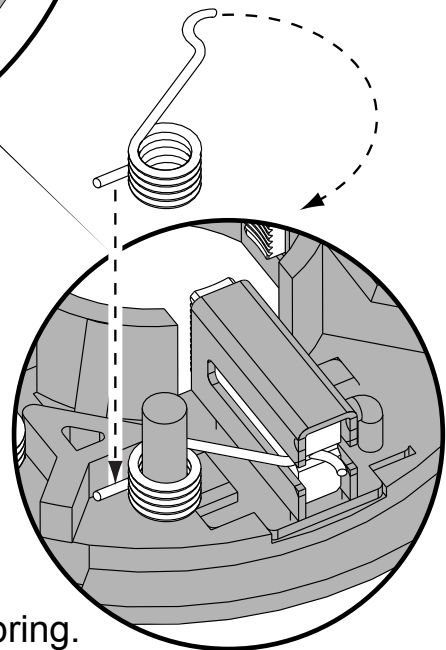
There are two Right Hand Brush Springs and two Left Hand Brush Springs. Follow the instructions below for proper installation.



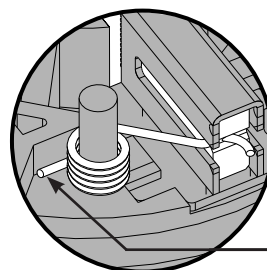
Be sure carbon brush is in brush tube with brush shunt moving freely in side groove of tube.

Place brush spring over post with short leg positioned downward as shown. Be sure spring is completely down with short leg trapped against 'Y' shaped wall on brush card.

While holding spring in place, bring the long leg of spring over the brush tube and through rear opening of tube. Position rounded hook of spring in groove on back of carbon brush. Be sure to check for free movement between carbon brush, brush shunt and brush spring.

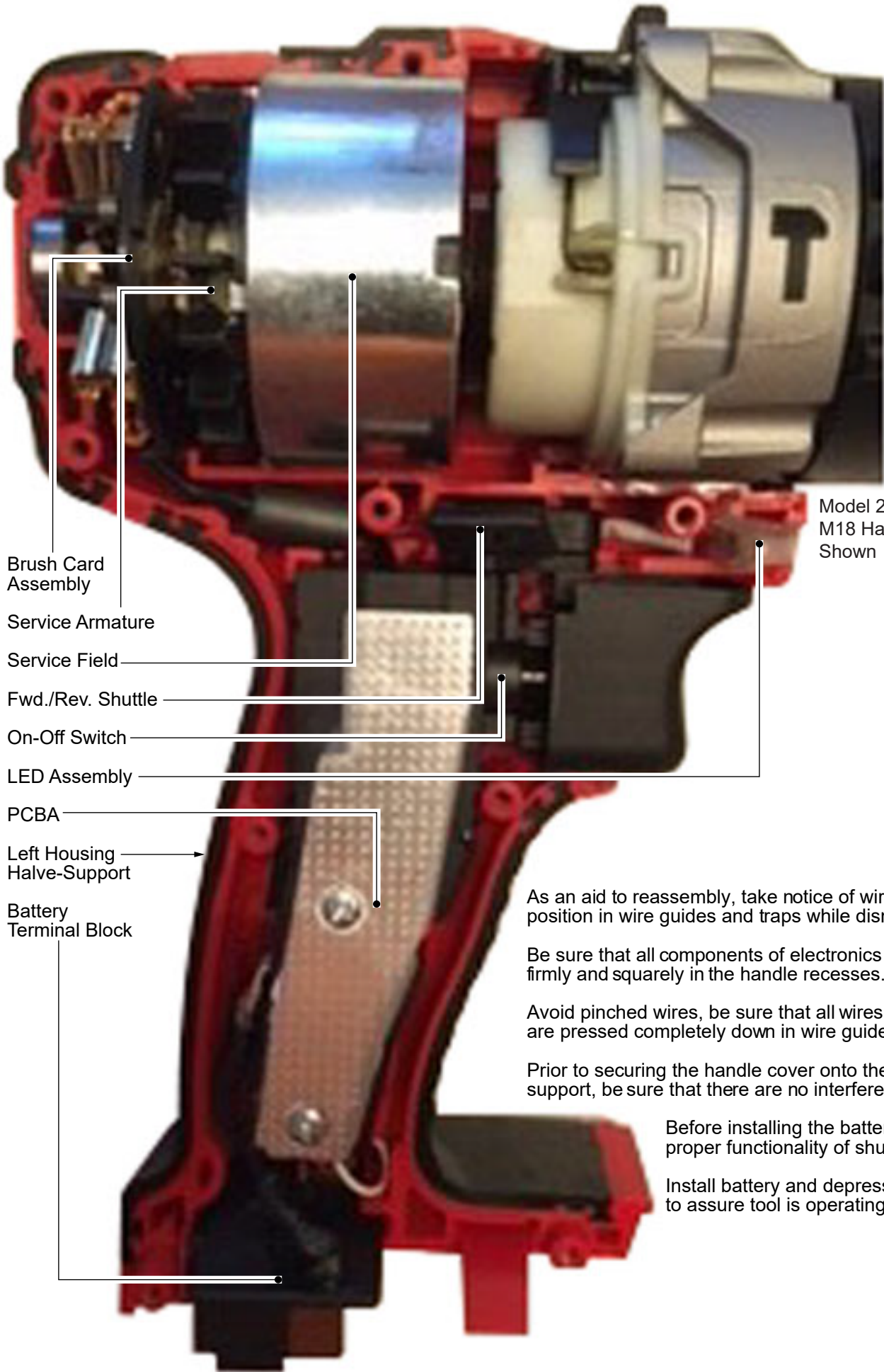


Wrong



Correct

Short leg of spring to the bottom



Model 2607-20
M18 Hammer-Drill
Shown

Brush Card
Assembly

Service Armature

Service Field

Fwd./Rev. Shuttle

On-Off Switch

LED Assembly

PCBA

Left Housing
Halve-Support

Battery
Terminal Block

As an aid to reassembly, take notice of wire routing and position in wire guides and traps while dismantling tool.

Be sure that all components of electronics kit are seated firmly and squarely in the handle recesses.

Avoid pinched wires, be sure that all wires and sleeves are pressed completely down in wire guides and traps.

Prior to securing the handle cover onto the handle support, be sure that there are no interferences.

Before installing the battery, check for proper functionality of shuttle and triggers.

Install battery and depress switch trigger to assure tool is operating properly.

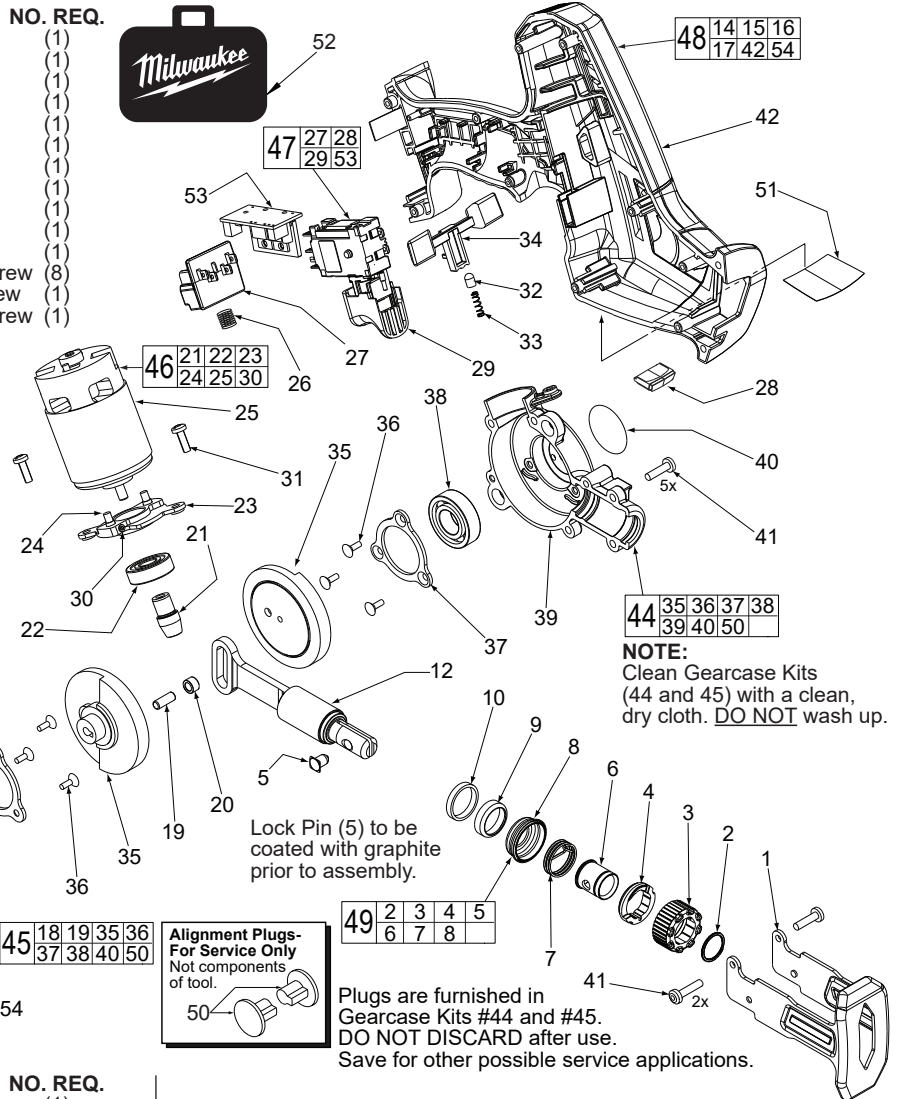
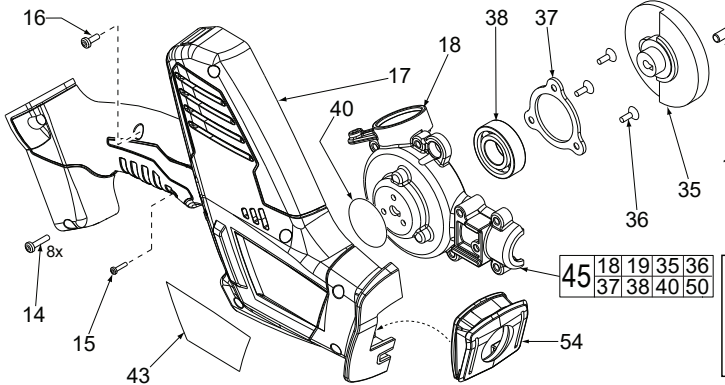
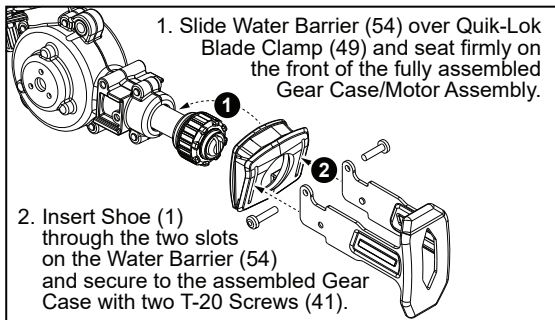


SERVICE PARTS LIST

BULLETIN NO.
54-40-2615

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS		REVISED BULLETIN	DATE
M18™ CORDLESS HACKZALL™ Reciprocating Saw		54-40-2614	Nov. 2022
CATALOG NO.	2625-20	WIRING INSTRUCTION SEE PAGE 3	
STARTING SERIAL NO.	C41F		

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	45-16-0925	Shoe	(1)
2	34-60-3680	Retaining Ring	(1)
3	42-50-0076	Front Cam	(1)
4	42-50-0077	Rear Cam	(1)
5	44-60-0626	Lock Pin	(1)
6	45-22-0081	Sleeve	(1)
7	40-50-0161	Torsion Spring	(1)
8	31-15-0511	Spring Cover	(1)
9	44-86-0740	Front Cap	(1)
10	45-06-0880	Felt Seal	(1)
12	38-50-0411	Spindle and Bushing Kit	(1)
14	05-88-1712	M3.5 x 22 Pan Hd. Plastite T-15 Screw	(8)
15	06-82-2395	M2.6 x 10 Pan Hd. Plastite T-8 Screw	(1)
16	05-88-1610	M3.5 x 10 Pan Hd. Plastite T-10 Screw	(1)



NOTE:
Clean Gearcase Kits (44 and 45) with a clean, dry cloth. **DO NOT** wash up.

Lock Pin (5) to be coated with graphite prior to assembly.

Alignment Plugs- For Service Only
Not components of tool.

Plugs are furnished in Gearcase Kits #44 and #45. **DO NOT DISCARD** after use. Save for other possible service applications.

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
17	-----	Handle Halve - Right	(1)
18	-----	Gearcase Support - Right Halve	(1)
19	-----	Drive Pin	(1)
20	44-86-0800	Drive Pin Sleeve	(1)
21	-----	Spiral Bevel Pinion	(1)
22	-----	Ball Bearing	(1)
23	-----	Motor Mount Plate	(1)
24	-----	Shoulder Pin	(2)
25	-----	Motor	(1)
26	40-50-1090	Terminal Block Spring	(1)
27	-----	Terminal Block	(1)
28	-----	LED Assembly	(1)
29	-----	Switch	(1)
30	-----	Set Screws	(2)
★31	06-82-2380	8-32 x 1/2" Pan Hd. Taptite T-20 Screw	(1)
32	43-72-0430	Detent Holder	(1)
33	40-50-1475	Detent Spring	(1)
34	45-24-0680	Locking Shuttle	(1)
35	-----	Spiral Bevel Gear	(2)
★36	-----	Bearing Plate Screws	(3)
★37	-----	Bearing Plate	(1)
★38	-----	Ball Bearing	(1)
39	-----	Gearcase Cover- Left Halve	(1)
40	23-70-3350	Aluminum Tape	(1)
★41	06-82-5320	8-32 x 5/8" Pan Hd. Tapt. T-20 Screw	(6)
42	-----	Handle Halve - Left	(1)
43	12-20-2625	Service Nameplate	(1)
★44	14-30-1051	Gearcase Cover Kit - Left Halve	(1)
45	14-30-1031	Gearcase Support Kit - Right Halve	(1)
46	23-30-0901	Motor Assembly Kit	(1)
47	23-66-2977	Switch Kit	(1)

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
48	31-44-2499	Handle Kit	(1)
49	14-46-1011	Steel Quik-Lok® Blade Clamp Kit	(1)
★50	44-68-0021	Alignment Plug - Service Tool (Not component of tool - one per in kits 44 & 45)	(1)
51	10-15-1090	Warning Label	(1)
52	48-55-3500	Contractor Tool Bag	(1)
53	-----	VASMO PCBA	(1)
★54	45-06-0017	Water Barrier	(1)
★55	05-88-1200	M4 x 16mm Pan Hd. ST T-20 Screw	(1)
★56	06-82-1020	M4 x 14mm Pan Hd. ST T-20 Screw	(1)

FIG. LUBRICATION (Type 'L' Grease, No. 49-08-4175):

9,10 Saturate Felt (10) with lightweight oil prior to assembly with Cap (9) onto Bushing (11) and Spindle (12).

11,12 Lightly coat the O.D. of Spindle Shaft (12) and I.D. of Bushing (11) with grease.

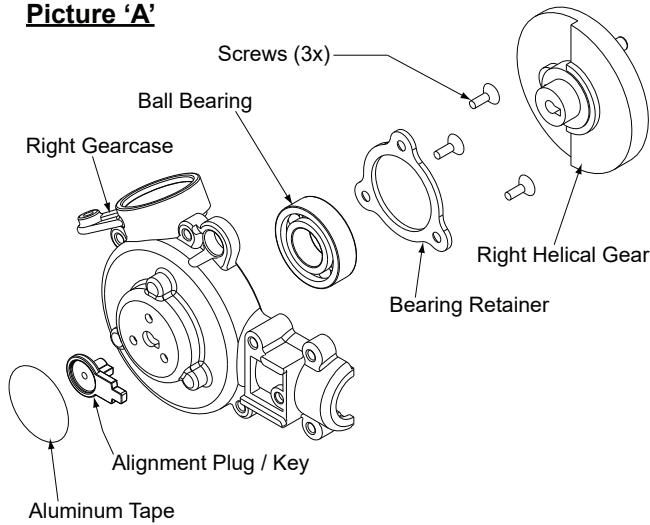
12 Place a dab of grease in the rear slot of Spindle Shaft (12).

18,39 Place .25 ounce grease in gear cavity of Gearcases (18,39). Coat the spindle shaft pocket in Gearcases (18,39).

19,20 Lightly coat the Drive Pin (19) and I.D. and O.D. of Bearing Sleeve (20) with grease.

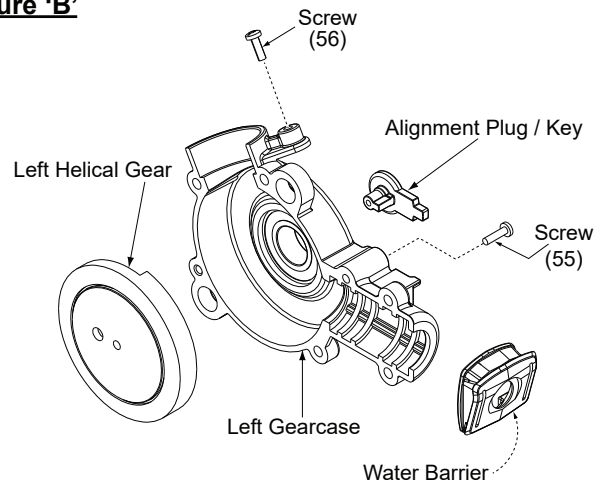
21,35 Completely coat all of the teeth of the Spiral Bevel Pinion (21) and Spiral Bevel Bevel Gears (35) with grease.

Picture 'A'



Components of **Right Gearcase Kit #14-30-1031**

Picture 'B'



Components of **Left Gearcase Kit #14-30-1051**

Picture "A and B" show the components that make-up the Right and Left Gearcase kits for M18 Cordless Hackzall 2625-20. Each kit contains one [1] Alignment Plug / Key. The right gearcase kit has an aluminum adhesive backed disc (not sold separately) which will be needed when servicing / replacing the right gearcase assembly.

The Right and Left helical gear assemblies are supported independently in their respective gearcase assembly and turn independently. Each of the helical gears have a counter weight and when the two gearcase halves are assembled together **gearing must be synchronized to eliminate excessive vibration.**

Synchronization of the two gear case halves can be accomplished by using the Alignment Plug / Key supplied with each gearcase kit. Anytime motor assembly 23-30-0901 has to be removed from the gearcase halves, helical gears will need to be resynchronized using the alignment plug / keys.

Synchronizing / Assembling Gearcase Kit Assemblies 14-30-1031 – 14-30-1051

Once the **motor assembly** has been removed from the gearcase assembly the keyway cut into each **helical gear** will no longer be aligned with the **gearcase keyway** (fig. 1) due to the counter balance of the helical gear.

1. Rotate (by hand) **helical gear** in right gearcase (picture "A") until **helical gear keyway** is in-line with the **gearcase keyway** (fig. 2).
2. Install **plug / key** from kit into gearcase / helical gear keyway (fig. 3).
3. Install **drive pin sleeve** onto pin located on right helical gear (coat with type "L" grease).

FIG. 1

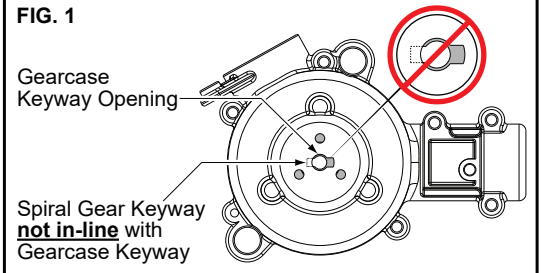
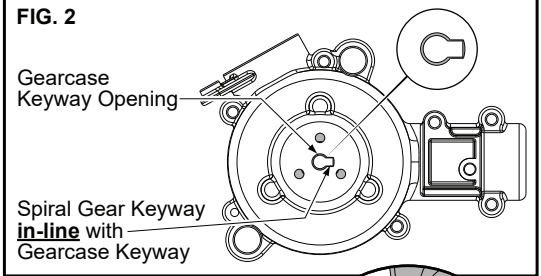


FIG. 2



Alignment Plug / Key installed in Gearcase

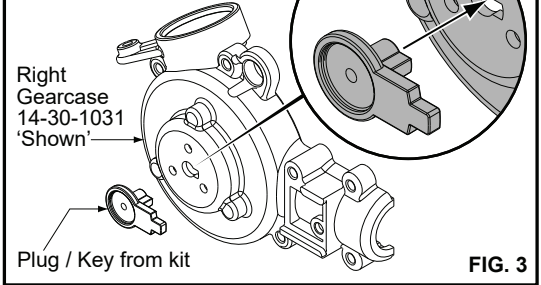


FIG. 3

4. Install **spindle / gearcase bushing assembly** into right gearcase (coat components with type "L" grease and make sure spindle lock pin hole faces right gearcase).
Note: If new felt seal is being installed saturate seal with a lightweight oil.
5. Place approximately 1/8oz. Type "L" grease onto teeth of right helical gear. (Set assembly aside).
6. Rotate (by hand) **helical gear** in left gearcase (picture "B") until **helical gear keyway** is in-line with the **gearcase keyway** (fig. 2).
7. Install **plug / key** from kit into gearcase / helical gear keyway (fig. 3).
8. Place approximately 1/8oz. Type "L" grease onto teeth of left helical gear.
9. Assemble lubricated left gearcase assembly onto lubricated right gearcase assembly and install five [5] gearcase screws.
10. Install motor assembly 23-30-0901 and secure to gearcase assembly.
11. Remove left and right alignment plug (s) and apply aluminum tape disc from kit to the right of gearcase (fig.4). **SAVE PLUGS incase motor needs servicing or replacing.**

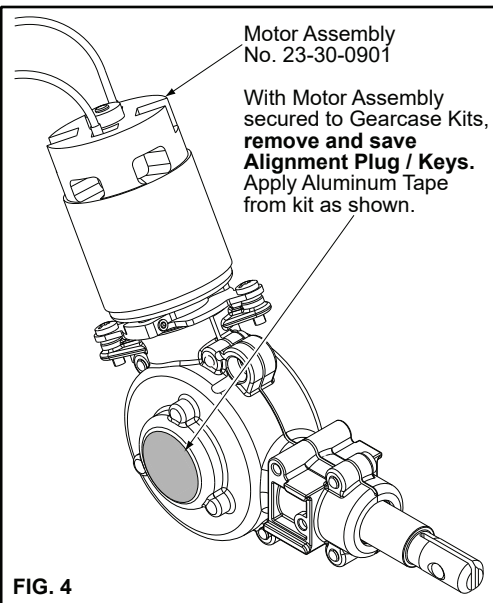


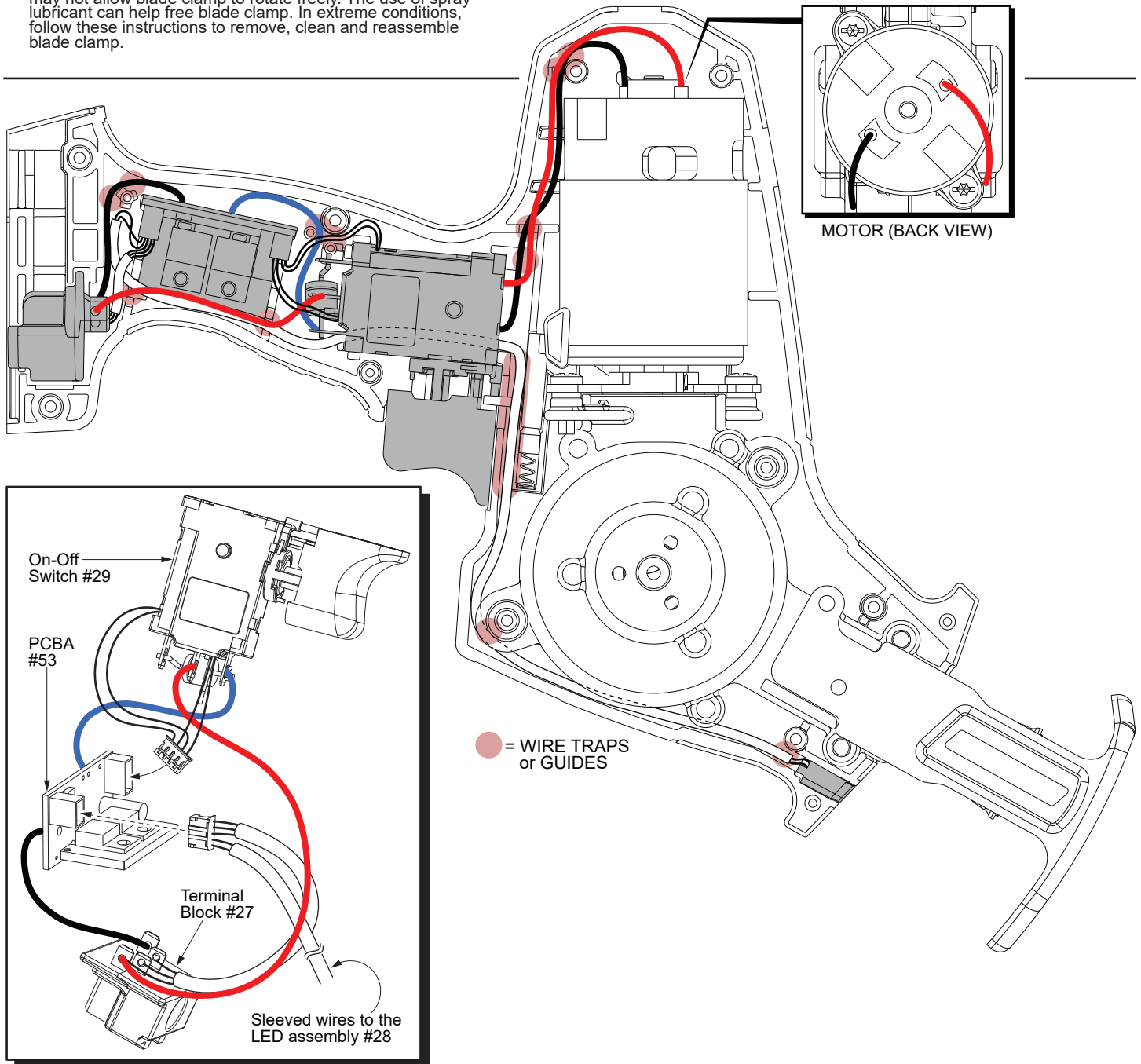
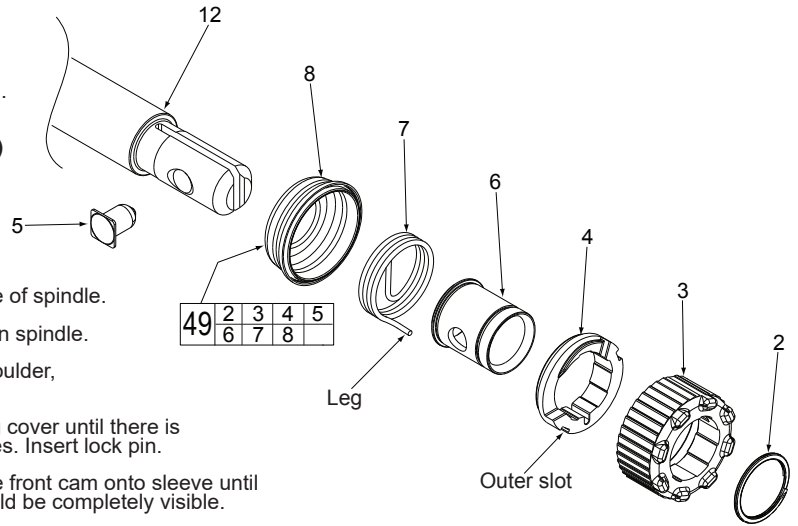
FIG. 4

REMOVING THE STEEL QUIK-LOK® BLADE CLAMP (49)

- Remove external retaining ring (2) and pull front cam (3) off.
- Pull lock pin (5) out and remove remainder of parts and discard.

REASSEMBLY OF THE STEEL QUIK-LOK® BLADE CLAMP (49)

- Coat new lock pin with powdered graphite.
- Hold tool in a vertical position.
- Place spring cover (8) onto spindle.
- Slide torsion spring (7) onto spindle with spring leg on hole side of spindle.
- Slide sleeve (6) onto spindle aligning hole on sleeve with hole in spindle.
- Slide rear cam (4) over sleeve (6) until it bottoms on sleeve shoulder, ensure leg of spring (7) inserts into outer slot in rear cam (4).
- Rotate rear cam in the direction of the arrows located on spring cover until there is clearance for lock pin (5) to be inserted into sleeve/spindle holes. Insert lock pin.
- Align front cam (3) inner ribs with rear cam outer slots and slide front cam onto sleeve until it bottoms. Retaining ring groove on the spindle shaft (12) should be completely visible.
- Attach retaining ring (2) by separating coils and inserting end of ring into groove, then wind remainder of ring into groove. Ensure ring is seated in groove.
- Blade clamp should rotate freely. During normal usage, debris may not allow blade clamp to rotate freely. The use of spray lubricant can help free blade clamp. In extreme conditions, follow these instructions to remove, clean and reassemble blade clamp.





SERVICE PARTS LIST

BULLETIN NO.
54-26-2500

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS		REVISED BULLETIN	DATE
M18™ 1/4" Hex Impact Driver - Single Speed			May 2019
CATALOG NO.	2656-20	STARTING SERIAL NO.	F26A
		WIRING INSTRUCTION SEE PAGE 2	

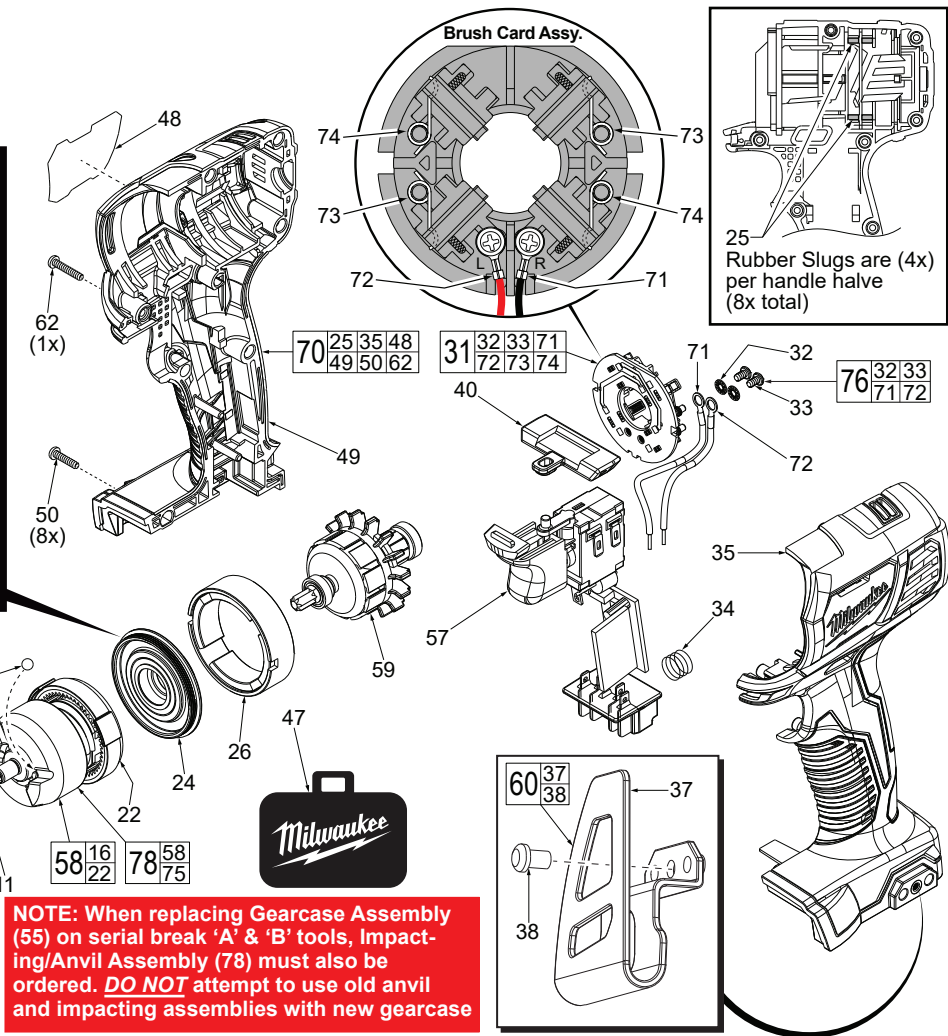
EXAMPLE:
00 0 Component Parts (Small #)
Are Included When Ordering
The Assembly (Large #).

IMPORTANT NOTE: Gearcase end cap #24 is LEFT HAND THREAD!

As an aid to assembly, carefully lower the complete front end of tool (gearcase / impacting system) onto the gearcase end cap. Gently hand tighten front end assembly onto gearcase end cap. Be careful not to cross-thread! Once installed by hand, seat gearcase end cap with a good adjustable wrench using light pressure. Do not over tighten!

LEFT HAND THREAD

NOTE: Components of the impacting assembly (58) can drop out of the gearcase (54). Care must be taken to hold those elements in place when assembling onto the gearcase end cap (24).



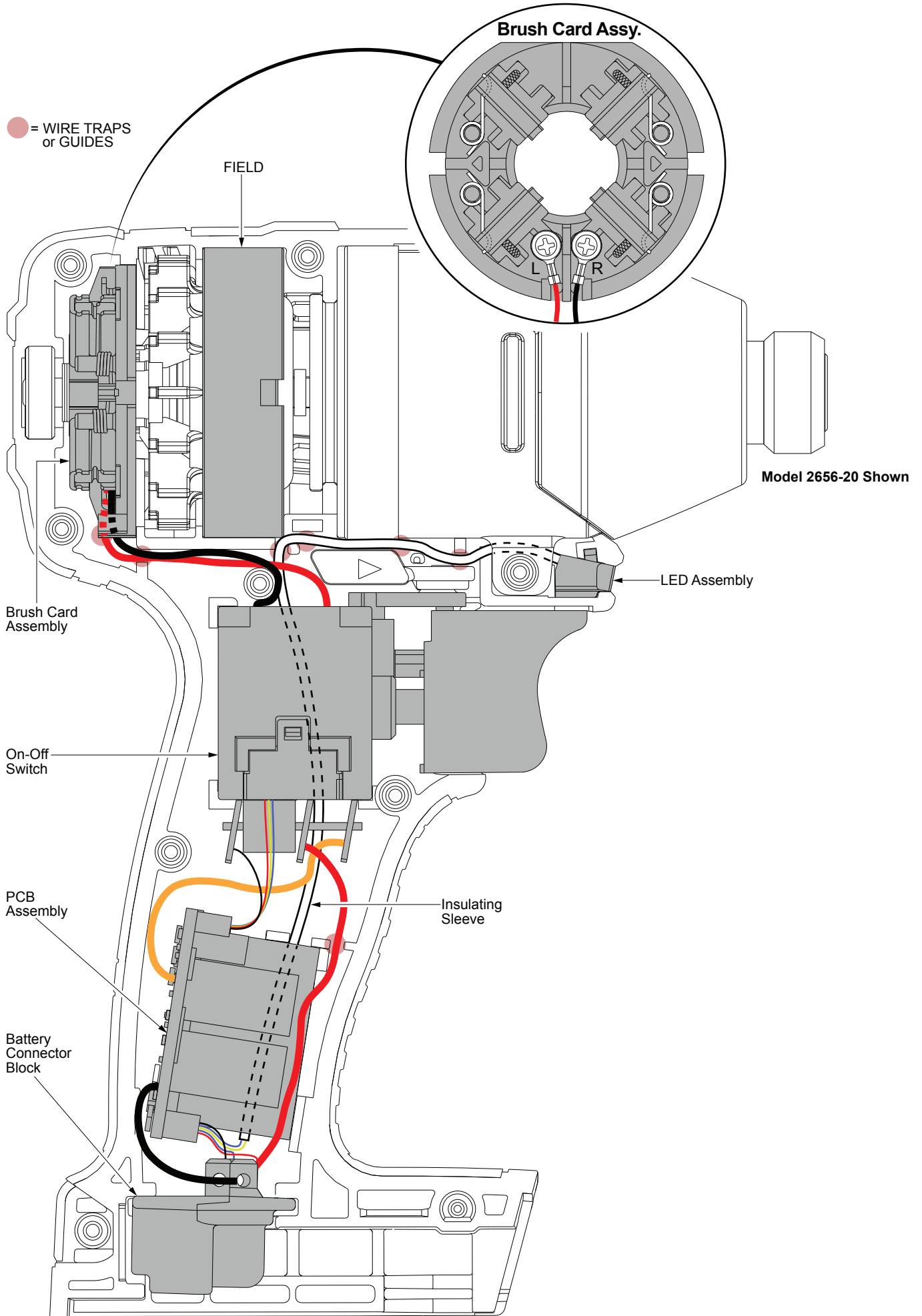
NOTE: When replacing Gearcase Assembly (55) on serial break 'A' & 'B' tools, Impacting/Anvil Assembly (78) must also be ordered. DO NOT attempt to use old anvil and impacting assemblies with new gearcase

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	34-60-0725	Retaining Ring	1
2	45-88-2026	Washer	1
3	40-50-1470	Spring	1
4	45-22-2657	Sleeve	1
8	45-88-2653	Nylon Washer	1
9	02-02-1100	4.0mm Steel Ball	2
10	-----	1/4" Hex Anvil	1
11	02-02-1300	5.0mm Steel Ball	1
16	02-02-0180	4.7mm Steel Ball	2
22	-----	Ring Gear	1
24	44-66-0415	Gearcase End Cap with Ball Bearing	1
25	45-30-2653	Rubber Slug	8
26	18-01-2657	Field Assembly	1
31	22-22-2657	Brush Card Assembly	1
32	45-88-1980	Spring Washer	2
33	05-88-0926	M3 x 5mm Pan Hd. T-10 Screw	2
34	40-50-1090	Terminal Block Spring	1
35	-----	Handle Half - Left	1
37	-----	Belt Clip	1
38	06-82-0130	6-32 x 5/16" Pan Hd. T-15 Mach. Screw	1
40	45-24-2657	Forward/Reverse Shuttle	1
47	42-55-2657	Carrying Case	1
48	12-20-2618	Service Nameplate	1
49	-----	Handle Half - Right	1
50	06-82-7236	4-20 x 5/8" Pan Hd. Plastite T-10 Screw	8
54	28-50-2657	Gearcase with Bushing	1
55	14-30-2659	Gearcase Assembly	1
57	23-66-2659	Electronics Assembly - Single Speed Consists of: On-Off Switch, PCBA, LED and Battery Terminal Block	1

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
58	-----	Impacting Assembly	1
59	16-07-2657	Armature Assembly	1
60	42-70-2653	Belt Clip Assembly	1
62	06-82-7336	4-20 x 3/4" Pan Hd. Plastite T-10 Screw	1
70	31-44-2656	Handle Assembly - Single Speed	1
71	-----	Leadwire Assembly - Black - Right Side	1
72	-----	Leadwire Assembly - Red - Left Side	1
73	-----	Brush Spring - Right	2
74	-----	Brush Spring - Left	2
75	-----	1/4" Hex Anvil Assembly	1
76	14-46-2394	Leadwire/Screw/Washer Kit	1
77	10-20-1126	Warning Label (Not Shown)	1
78	14-46-2658	Impacting/Anvil Assembly	1

- FIG. LUBRICATION (Type 'J' Grease, No. 49-08-4220):**
- 10 Lightly coat front washer surface of anvil (10) with grease, place a dab in the ball holes of anvil.
 - 22,58 Lightly coat the I.D. of the ring gear (22) and the center of the planet gears of impacting assembly with grease.
 - 54 Coat inside of bushing inside front gearcase with grease.
 - 59 Coat pinion of armature assembly (59) with grease.

● = WIRE TRAPS or GUIDES





SERVICE PARTS LIST

BULLETIN NO.
54-06-2736

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS		REVISED BULLETIN 54-06-2735	DATE Oct. 2017
CORDLESS 18 VOLT LED WORKLIGHT			
CATALOG NO.	2735-20	STARTING SERIAL NO.	C12B
WIRING INSTRUCTION			

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

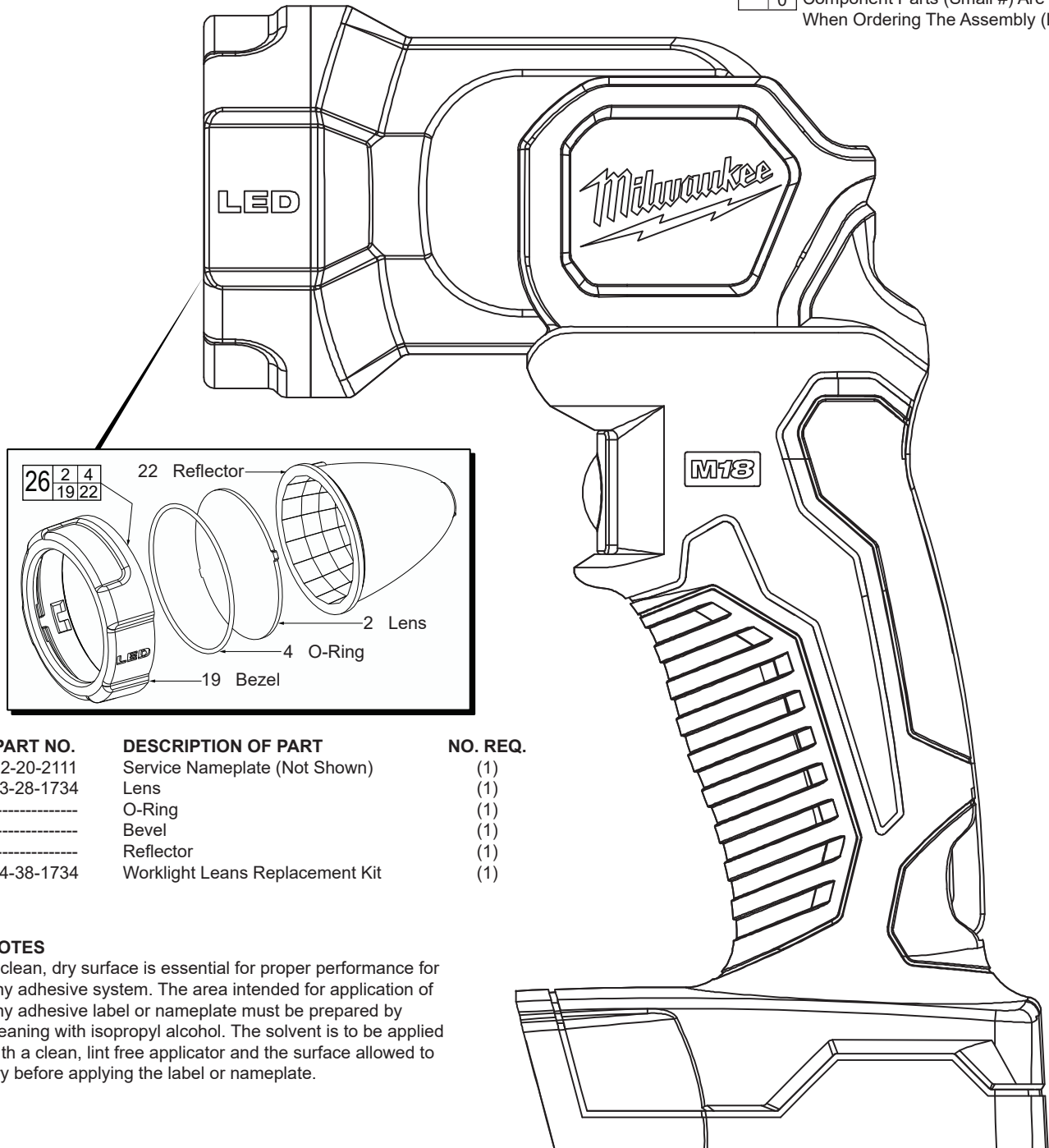


FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	12-20-2111	Service Nameplate (Not Shown)	(1)
2	23-28-1734	Lens	(1)
4	-----	O-Ring	(1)
19	-----	Bezel	(1)
22	-----	Reflector	(1)
26	14-38-1734	Worklight Leans Replacement Kit	(1)

FIG. NOTES

- 1 A clean, dry surface is essential for proper performance for any adhesive system. The area intended for application of any adhesive label or nameplate must be prepared by cleaning with isopropyl alcohol. The solvent is to be applied with a clean, lint free applicator and the surface allowed to dry before applying the label or nameplate.

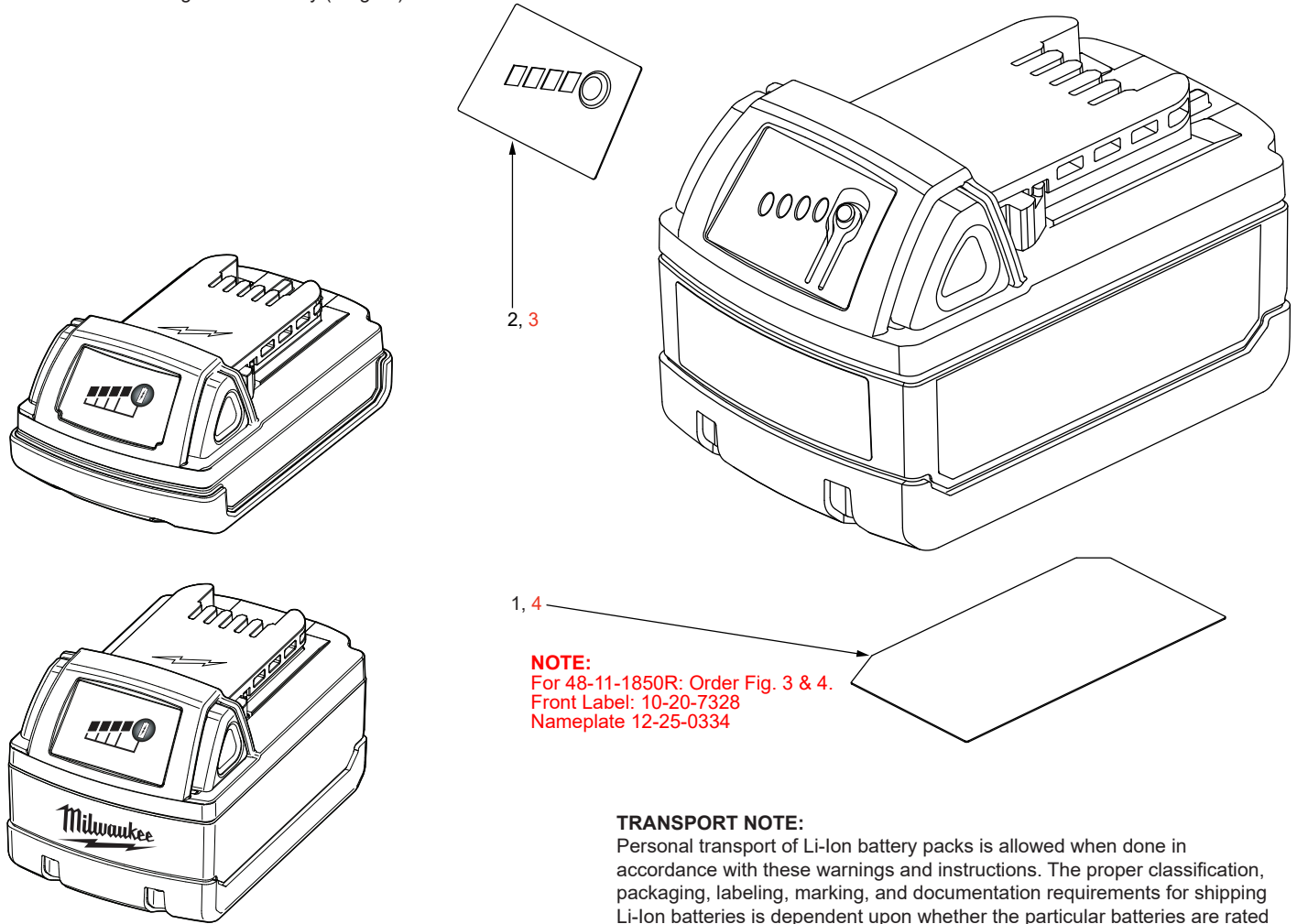


SERVICE PARTS LIST

BULLETIN NO.
54-04-1820

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS	REVISED BULLETIN	DATE
M18™ BATTERY		Sept. 2022
CATALOG NO. 48-11-1812, 48-11-1815, 48-11-1820, 48-11-1828, 48-11-1835, 48-11-1840, 48-11-1850, 48-11-1850R, 48-11-1860, 48-11-1865, 48-11-1880, 48-11-1890	WIRING INSTRUCTION	

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



NOTE:
For 48-11-1850R: Order Fig. 3 & 4.
Front Label: 10-20-7328
Nameplate 12-25-0334

TRANSPORT NOTE:
Personal transport of Li-Ion battery packs is allowed when done in accordance with these warnings and instructions. The proper classification, packaging, labeling, marking, and documentation requirements for shipping Li-Ion batteries is dependent upon whether the particular batteries are rated greater than or less than 100 Wh. Generally, Li-Ion batteries rated 100 Wh or less are "excepted" from certain Class 9 DG requirements. Always check compliance of Li-Ion battery consignments against the current regulations governing the chosen mode of transport. When in doubt, contact the carrier or another trained Dangerous Goods professional to confirm acceptability. Li-Ion packs are shipped under classification UN 3480 (battery only) or UN 3481 (batteries contained in or packed with equipment).

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	12-20-0131	Service Nameplate	(1)
2	10-20-4305	Front Label	(1)
3	10-20-7328	Front Label for 48-11-1850R	(1)
4	12-25-0334	Nameplate for 48-11-1850R	(1)

FIG. 1, 2 NOTES
The service nameplate and front label will fit on all catalog numbers listed above except **48-11-1850R: Order Fig. 4.**

A clean, dry surface is essential for proper performance for any adhesive system. The area intended for application of any adhesive label or nameplate must be prepared by cleaning with isopropyl alcohol. The solvent is to be applied with a clean, lint free applicator and the surface allowed to dry before applying the label or nameplate.



SERVICE PARTS LIST

BULLETIN NO.
54-04-0010

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS			REVISED BULLETIN	DATE
M12™ and M18™ Multi Voltage Battery Charger				Jan. 2013
CATALOG NO.	48-59-1812	SERIAL NUMBER	D63A	
			WIRING INSTRUCTION	

EXAMPLE:

00	0
----	---

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

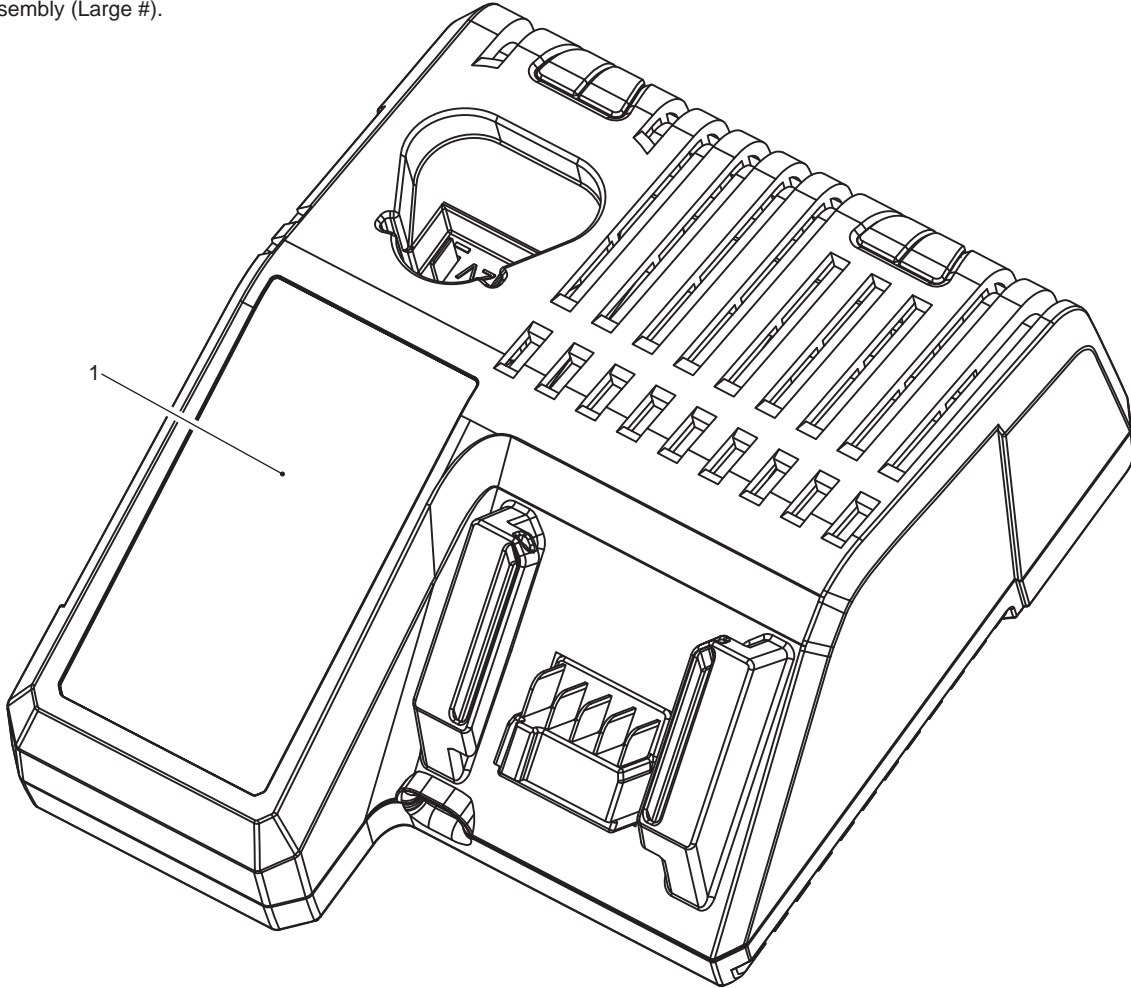


FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	12-20-1812	Service Nameplate	(1)

FIG. NOTES
 1 A clean, dry surface is essential for proper performance for any adhesive system. The area intended for application of any adhesive label or nameplate must be prepared by cleaning with isopropyl alcohol. The solvent is to be applied with a clean, lint free applicator and the surface allowed to dry before applying the label or nameplate.