## SERVICE PARTS LIST

Milwaukee SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS

M12™ 1/4" RATCHET

REVISED BULLETIN 54-47-0220

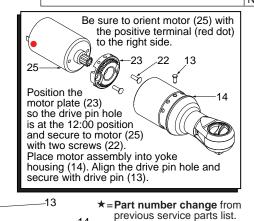
DATE Dec. 2013

CATALOG NO.

2456-20

SERIAL **D53B** NUMBER

WIRING INSTRUCTION See Reverse Side



17

(1)

FIG. **LUBRICATION** 

(Type 'E' Grease, No. 49-08-4122): 17 Apply a moderate coating of grease to the small cylindrical surface that goes into driver bushing and to the large cylindrical surface that is surrounded by the two needle bearings.

18 Apply a moderate coating of grease to the three axles of the carrier assembly prior to installing the planet gears.

Apply a heavy coating of grease to the inside diameter gear 20,25 teeth of the ring gear and the teeth of the motor pinion.

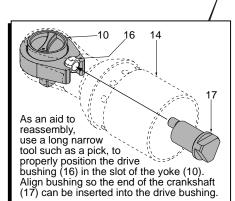
21 Apply a light coat of grease to the surface of the washer.

## FIG. **NOTES**

EXAMPLE:

Prior to installing a new service nameplate, apply isopropyl alcohol to the handle cover with a clean, lint free applicator 28,31 and allowed to dry.

34 Use a similar size tool or pin to remove the spring pin from the handle halves and switch paddle. When reinstalling pin, align the holes and carefully press or tap the pin in place.



44-60-0575

Spring Pin

38 10 14 15 16 42

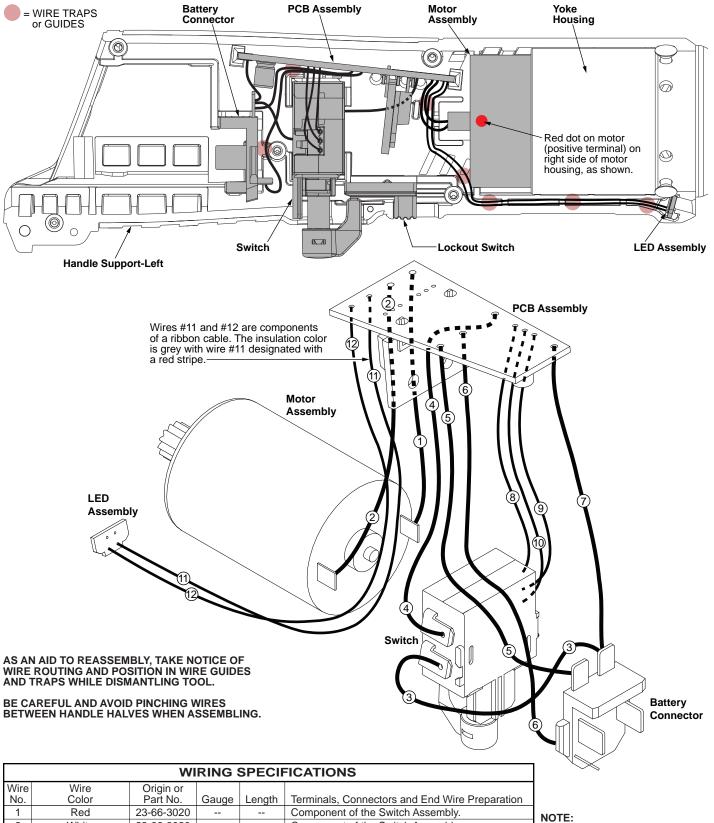
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		Parts (Small #)	22	
	Are Included	When Ordering		
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600	and the second	40		43
NO. REQ.			11	Tilwaukee 43
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(1)		40 34 36 4	1	

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FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
10		Yoke	(1)
11		Friction Plate	(1)
12		Retaining Ring	(1)
13	44-60-0890	Drive Pin	(1)
14		Yoke Housing	(1)
15		Needle Bearing	(2)
16		Driver Bushing	(1)
17	36-17-0300	Crankshaft	(1)
18	28-23-0500	Carrier Assembly	(1)
19	32-62-0400	Planet Gear	(3)
20	32-65-0350	Ring Gear	(1)
21	45-88-2105	Washer	(1)
22	05-81-0105	M3 x 10 T-10 Screw	(6)
23	44-66-1240	Motor Plate	(1)
24		LED Assembly (Component of PCBA)	(1)
25	23-30-0650	Motor Assembly	(1)
26	06-82-2385	M2.6 x 14 ST T-8 Screw	(4)
27	06-82-2395	M2.6 x 10 ST T-8 Screw	(1)
28		Handle Cover - Right	(1)
29		Switch	(1)
30		PCB Assembly with LED	(1)
31	12-20-2454	Service Nameplate (Not Shown)	(1)
32	23-66-2910	Lockout Switch	(1)
33		Battery Connector	(1)

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
35	44-10-0740	Switch Paddle	(1)
36		Handle Support - Left	(1)
<b>★</b> 38	14-46-2450	1/4" Yoke Housing Assembly	(1)
39	23-66-3020	Switch Assembly	(1)
40	31-44-2710	Handle Kit	(1)
41		Fuel Gauge Label	(1)
<b>★</b> 42	42-06-1000	1/4" Anvil Service Kit	(1)
43	42-55-2456	Contractors Bag	(1)
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	WIRING SPECIFICATIONS				
Wire	Wire	Origin or			
No.	Color	Part No.	Gauge	Length	Terminals, Connectors and End Wire Preparation
1	Red	23-66-3020			Component of the Switch Assembly.
2	White	23-66-3020			Component of the Switch Assembly.
3	Red	23-66-3020			Component of the Switch Assembly.
4	Black	23-66-3020			Component of the Switch Assembly.
5	Black	23-66-3020			Component of the Switch Assembly.
6	White	23-66-3020			Component of the Switch Assembly.
7	Red	23-66-3020			Component of the Switch Assembly.
8	Yellow	23-66-3020			Component of the Switch Assembly.
9	Blue	23-66-3020			Component of the Switch Assembly.
10	Black	23-66-3020			Component of the Switch Assembly.
11	Grey w/ Red Stripe	23-66-3020			Component of the Switch Assembly.
12	Grey	23-66-3020			Component of the Switch Assembly.
	BULK LEAD WIRE - BULLETIN 58-01-0003				

All leads must be held to  $\pm 1/16$ ". All lead lengths are before strip-

TERMINAL DESCRIPTION			
Part No.	Qnty.		
NECTOR DESCRI	PTION		