## **BULLETIN NO.** 54-47-0445

# SERVICE PARTS LIST

Milwaukee SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS M12™ FUEL 1/4" LONG REACH RATCHET

REVISED BULLETIN

DATE June 2019

CATALOG NO.

2559-20

SERIAL NUMBER

**K84A** 

See Pages 2 and 3

WIRING INSTRUCTION

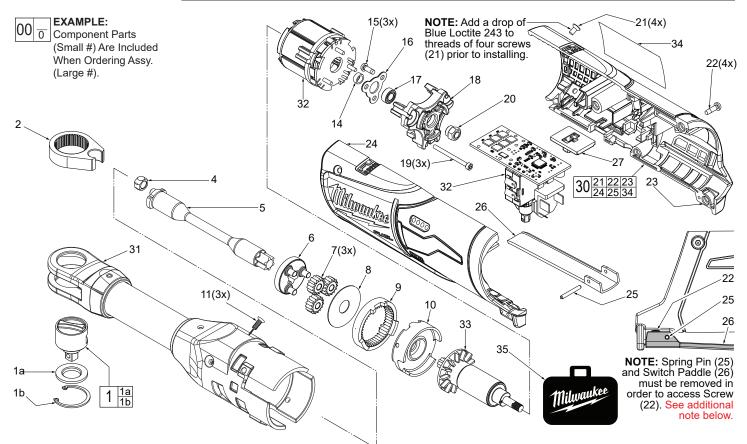


FIG. PART NO.  1 42-06-2556 1a	(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)
31 14-46-0473 1/4" Yoke / Beam / Gearc	ase Assembly (1) & 3/8" ratchet) (1) ratchet) (1) (1) (1) Shown) (1)

## FIG.

- 23,34 Prior to installing a new service nameplate, apply isopropyl alcohol to the handle cover with a clean, lint free applicator and allowed to dry.
- 25 Use a thin blunt punch with the same OD or a similiar tool like a finishing nail with the same OD and the pointed tip ground down to remove spring pin from the handle halves and switch paddle. As an aid, be sure to prop up that corner end of ratchet to support the tapping out of the spring pin. When reinstalling pin, align the holes and carefully press or tap the pin in place.

#### FIG. LUBRICATION

## (Type 'E' Grease, No. 49-08-4122):

- 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. 5
- Apply a moderate coating of grease to the three axles of the carrier assembly prior to installing the planet gears. 6
- 8 Apply a light coat of grease to the surface of the washer.
- Apply a heavy coating of grease to the inside diameter gear teeth of the ring gear and the teeth of the motor pinion. 9,33

### NOTE:

Wires of the electronics assembly (32) are routed in traps and cavities in the right handle halve (23).

### To replace the Electronics Assembly (32):

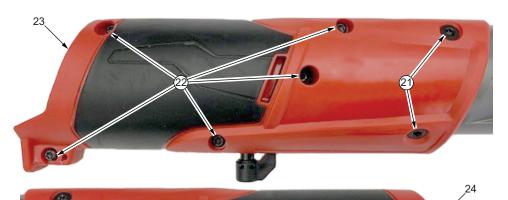
Remove four T-10 handle screws (22) from right handle halve (23) and two T-10 handle/gear case screws (21) from right handle halve.

Gently turn tool over and remove two T-10 handle/gear case screws (21) from left handle

Carefully remove the left handle halve to expose the electronics assembly.

Use a hex key to remove the three socket head screws (19) and slide stator/rotor/motor mount plate out of yoke housing assembly (31).

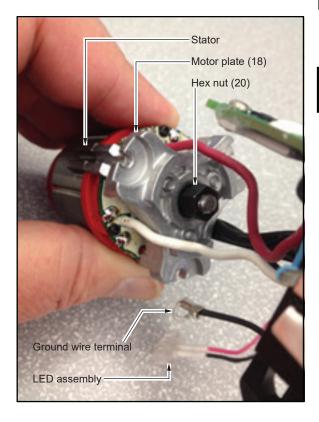
Rotor assembly (33) must be removed from the stator by securing the rotor fan and unscrewing the hex nut (20) outside of motor plate (18).





Switch lock

out (27)



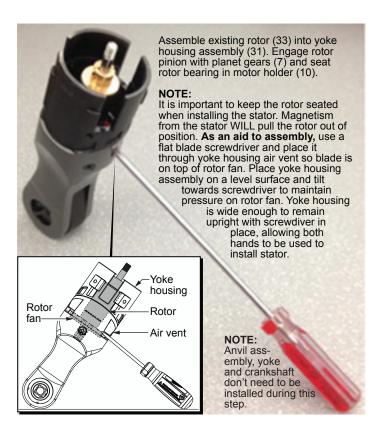
SEE NEXT PAGE FOR SERVICE INSTRUCTIONS TO AID WITH THE REMOVAL AND INSTALLATION OF ELECTRONICS ASSEMBLY (32).

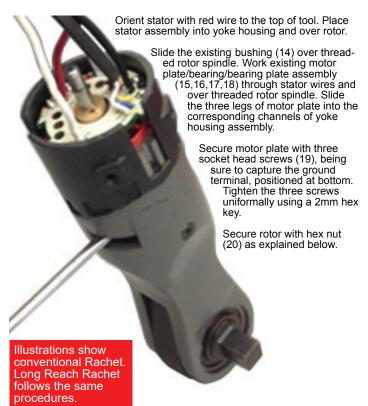
Battery terminal

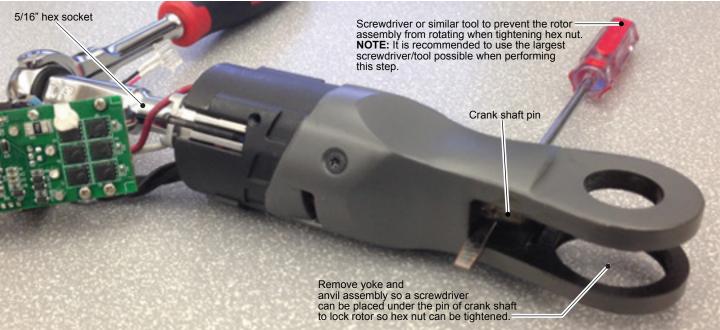
block

On-off

switch







To properly tighten hex nut (20) to rotor (33), it is important to lock rotor and keep it from spinning. The recommended approach is illustrated above.

With a snap ring pliers, remove snap ring (1k). Carefully remove the anvil kit (1) being sure to keep the friction plate (1j) pressed against it. Remove yoke (2) and bushing (4) exposing the 'pin' of crank shaft (5).

With a screwdriver or similar tool, slide under crank shaft pin and wedge between pin and yoke housing, preventing crank shaft and all gearing (including rotor pinion) from moving. Use a 5/16" socket to secure hex nut to rotor spindle. Tighten to 33-37 kg-cm (approx. 28-32 in-lbs).

Remove screwdriver and reinstall bushing and yoke onto crank shaft pin. Carefully place anvil kit and friction plate back into yoke and secure with snap ring.

Place yoke assembly in right handle halve. Prior to installing switch and PCBA, place LED assembly in housing halve. Route LED wires and ground wire through channels and traps, than behind the switch as shown above. Be sure all wires are pressed down firmly.

Place switch, PCBA and battery terminal block into the handle slots and cavities. Be sure those components are seated firmly and squarely. Pay particular attention that excess wires are tucked behind the battery terminal block and that no wires will interfer with the installation of the other handle halve.

Install the switch lock-out slide (27). Carefully place the left handle halve (24) onto the right handle halve. Be sure the handles fit together properly and secure with screws (21 and 22).

Check for proper functionality of switch and switch lock-out slide. Install battery to make sure tool runs properly.

Install switch paddle (26) and secure with spring pin (25).