

SERVICE PARTS DIAGRAM

**Bulletin Date: Mar-20** 

Starting Serial Number:

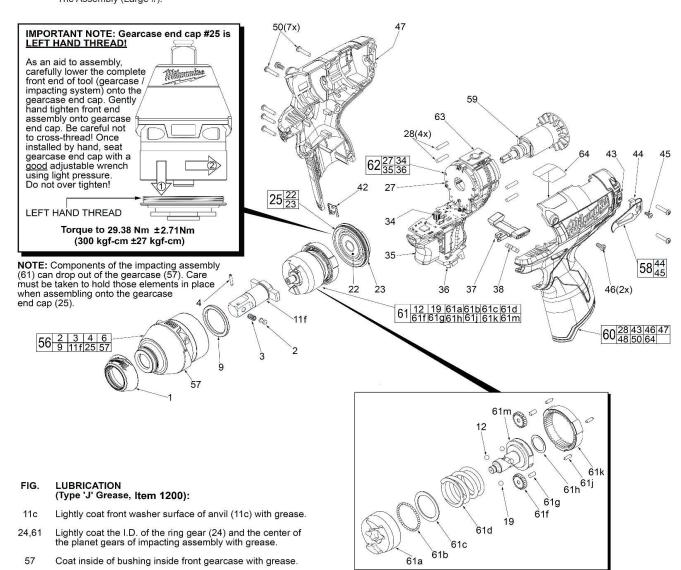
**VERSION A - H2015** 

TTI Model Number: 018 079 081, 091

M12 FUEL™ 1/2" IMPACT WRENCH

#### EXAMPLE:

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





59

1200

Coat pinion of rotor assembly (59) with grease.



SERVICE PARTS LIST

Bulletin Date:
Mar-20

Starting Serial Number:

VERSION A - H2015

# TTI Model Number: 018 079 081, 091 M12 FUEL<sup>TM</sup> 1/2" IMPACT WRENCH

| ITEM | PART NUMBER | PART DESCRIPTION                  | QTY (PCS) |
|------|-------------|-----------------------------------|-----------|
| 1    | 562971002   | RUBBER CAP                        | 1         |
| 2    | 673160010   | DETENT PIN                        | 1         |
| 3    | 693164009   | SPRING                            | 1         |
| 4    | 673021007   | COILED PIN                        | 1         |
| 6    | -           | ANVIL BUSHING (NOT SHOWN)         | 1         |
| 9    | 524651001   | PLASTIC WASHER                    | 1         |
| 11f  | 621352097   | ANVIL                             | 1         |
| 12   | 670219001   | 5MM STEEL BALL                    | 1         |
| 19   | 680015001   | 4.7MM STEEL BALL                  | 2         |
| 22   | 680676001   | BALL BEARING                      | 1         |
| 23   | 641918001   | GEARCASE END CAP                  | 1         |
| 25   | 202183001   | GEARCASE END CAP ASSEMBLY         | 1         |
| 27   | 298066003   | STATOR ASSEMBLY                   | 1         |
| 28   | 562968001   | RUBBER SLUG                       | 4         |
| 34   | 280332008   | PCBA                              | 1         |
| 35   | 760469049   | ON-OFF SWITCH                     | 1         |
| 36   | -           | TERMINAL BLOCK ASSEMBLY           | 1         |
| 37   | 524499002   | FWD/REV SHUTTLE                   | 1         |
| 38   | 633852003   | SPRING                            | 1         |
| 42   | 631542001   | HOUSING CLIP                      | 1         |
| 43   | -           | LEFT HANDLE HALVE WITH FUEL GAUGE | 1         |
| 44   | 634097001   | BELT CLIP                         | 1         |
| 45   | 661703001   | M2.5 X 6MM SCREW                  | 1         |
| 46   | 661746002   | M3 X 7MM SCREW                    | 2         |
| 47   | -           | RIGHT HANDLE HALVE                | 1         |
| 48   | 941048038   | SERVICE NAMEPLATE (NOT SHOWN)     | 1         |
| 49   | 305425001   | CARRYING CASE                     | 1         |
| 50   | 660570005   | 4-20 X 5/8" SCREW                 | 7         |
| 56   | 202180007   | GEARCASE ASSEMBLY                 | 1         |
| 57   | 202181004   | FRONT GEARCASE WITH BUSHING       | 1         |
| 58   | 202186001   | BELT CLIP ASSEMBLY                | 1         |
| 59   | 202184001   | ROTOR ASSEMBLY                    | 1         |
| 60   | 202434001   | HANDLE ASSEMBLY                   | 1         |
| 61   | 202182002   | IMPACTING ASSEMBLY                | 1         |
| 61a  | 693116053   | HAMMER                            | 1         |
| 61b  | 670221001   | 3.0MM STEEL BALL                  | 27        |
| 61c  | 634290001   | WASHER                            | 1         |
| 61d  | 693164004   | SPRING                            | 1         |



SERVICE PARTS LIST
TTI Model Number: 018 079 081, 091

Bulletin Date:
Mar-20

Starting Serial Number:

VERSION A - H2015

#### M12 FUEL™ 1/2" IMPACT WRENCH

| ITEM | PART NUMBER | PART DESCRIPTION     | QTY (PCS) |
|------|-------------|----------------------|-----------|
| 61f  | 611575003   | PLANET GEAR          | 2         |
| 61g  | 671565005   | PLANET GEAR PIN      | 2         |
| 61h  | 680335064   | WASHER               | 1         |
| 61j  | 563131001   | RUBBER BUMPER        | 3         |
| 61k  | 611574002   | RING GEAR            | 1         |
| 61m  | 621338045   | CAM SHAFT            | 1         |
| 62   | 202185002   | ELECTRONICS ASSEMBLY | 1         |
| 63   | 291114001   | POP SWITCH           | 1         |
| 64   | 940221348   | WARNING LABEL        | 1         |
| 1200 | -           | TYPE J GREASE        | 1         |



SERVICE INSTRUCTION

**Bulletin Date: Mar-20** 

Starting Serial Number:

**VERSION A - H2015** 

TTI Model Number: 018 079 081, 091 M12 FUEL™ 1/2" IMPACT WRENCH

To assemble U-Shaped Stamping/Wire Kit

Trim any excess wire stranding from 115mm wire. Place wire through hole in small tab of stamping. Twist metal strands to temporarily hold wire to stamping. Trim any excess wire stranding. Be sure to position wire straight down at the 6:00 position. Secure with minimal solder to the strand.

down at the 6:00 position.

solder to the strands.

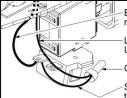
Feed heat shrink tubing over the wire and slide up over soldered tab. Use a heat gun to heat tighten/shrink around over soldered the tubing to soldered tab.



U-Shaped Stamping (Grounding Plate)

Gearcase End Cap

Gearcase End Cap groove for U-Shaped Stamping



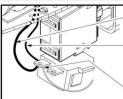
Black wire soldered to negative terminal & PCBA

Long HV wire to U-Shaped Stamping

Closed End Connector

Short HV wire soldered to negative terminal

PRODUCTION WIRING- For ease in production, the Electronics Assembly (Switch, Stator, PCBA and BatteryTerminal Block) has a short HV wire presoldered to the negative terminal. During production a longer HV wire (with a U-Shaped Stamping) is joined to short wire with an closed end connector.



Black wire soldered to negative terminal & PCBA

U-Shaped Stamping/Wire Kit (Kit must be assembled. see steps 1 and 2 above)

Snip short production HV wire at terminal here

SERVICE WIRING- When installing a service re-placement U-Shaped Stamping/Wire Kit it is recommended to snip old HV wire system at battery terminal. Remove and discard that short wire, closed end connector and longer wire with U-Shaped Stamping. Follow instructions to install new wire kit.



housing halves.

Place U-Shaped Stamping onto groove of gearcase end cap with small tab/wire positioned at the bottom. Route the wire to the left side (behind) the PCBA.

Loosly install the Electronic/Gearcase Assembly (with

Loosy Install the Electronic/Gearcase Assembly (with the U-Shaped Stamping-Wire Assembly in place) into the Left Housing Halve. Wire is to be positioned behind the fwd./rev. shuttle. Be sure the U-Shaped Stamping is properly seated in the recess of the housing. (See detail above). Take the loose end of the kit wire and place metal wire strands onto negative terminal of the battery terminal block (rear left side with black wire attached to it). Secure that end with a minimal amount of solder.

Press all electronic components in place and route all wires in the left handle halve according to the wiring diagram on page two. Be sure all mechanical and electrical components are firmly seated. Be sure all wires are pressed firmly down in traps. Be sure that the fwd./rev. shuttle and spring are reinstalled and function properly. Carefully install Right Housing Halve being sure that there are no interferences. Secure with existing screws.





ล

0

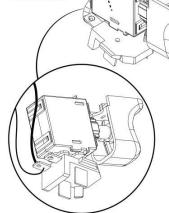
Route wire around PCBA

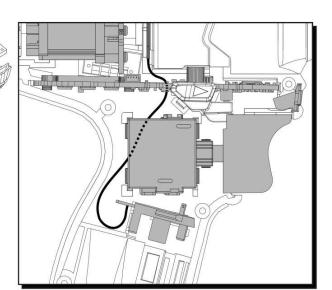
for clarity.

and fwd./rev. shuttle (See below). Solder this end of wire to rear left

NOTE: Switch and connector block are shown without wires

terminal on battery







SERVICE INSTRUCTION

**Mar-20** 

**Bulletin Date:** 

Starting Serial Number:

**VERSION A - H2015** 

TTI Model Number: 018 079 081, 091

M12 FUEL™ 1/2" IMPACT WRENCH

