## SERVICE PARTS LIST

Milwaukee

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS

M12™ PEX Expander

2432-20 CATALOG NO.

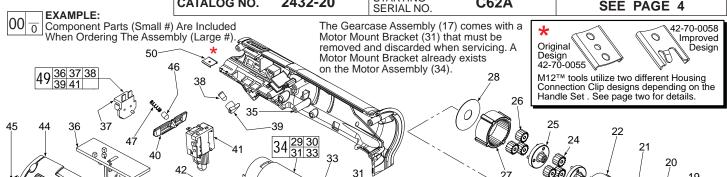
STARTING SERIAL NO

**C62A** 

**REVISED BULLETIN** 

DATE June 2014

WIRING INSTRUCTION



51 48 35 44 45 53 58

REQ.

14 18 19 20 21 22 23 24 25 26 27 28 31 32

| FIC         | DADT NO    | DECORIDATION OF DADT NO  |
|-------------|------------|--|
| FIG.        | PART NO.   | DESCRIPTION OF PART NO.  |
| .1.         | See Chart  | Head Assembly (Optional, see chart)                              |
| 1.1         |            | Segment (  |
| 1.2         |            | Garter (   |
| 1.3         |            | Ring (   |
| 2           | 43-40-0950 | Frame  |
| 2<br>3<br>4 | 34-40-1050 | O-Ring (   |
| 4           | 42-76-0950 | Rotating Collar  |
| Ė           | 40-50-1575 | Collar Spring (  |
| 5           |            | Pin  |
| 5<br>6<br>7 | 44-60-1580 |  |
| /           | 31-76-0300 | Drive Collar   |
| 8           | 40-50-1035 | Return Spring (  |
| 9           | 32-75-1190 | Spindle (  |
| 10          | 44-96-0230 | Roller (   |
| 11          | 44-60-1585 | Roller Pin (   |
| 12          | 28-20-1390 | Gearcase Cover Assembly  |
| 13          | 06-82-5320 | 8-32 x 5/8" Pan Hd. Slt. Tapt. T-20 Scr. (                       |
| 14          | 02-04-1005 | Ball Bearing   |
| 15          |            | Cam and Shaft Assembly (   |
| 17          | 36-10-0680 |  |
|             | 28-14-2330 | Gearcase Assembly  |
| 18          |            | 4th Carrier (  |
| 19          |            | 4th Planet Gear  |
| 20          |            | 4th Sun Gear   |
| 21          |            | 3rd Planet Gear  |
| 22          |            | 3rd and 4th Ring Gear  |
| 23          |            | 3rd Sun Gear   |
| 24          |            | 2nd Planet Gear (  |
| 25          |            | 2nd Sun Gear   |
| 26          |            | 1st Planet Gear  |
| 27          |            | 1st and 2nd Ring Gear  |
| 28          |            | Washer   |
| 29          | 05-90-0050 | Spring Washer  |
| 30          | 05-81-0205 | M3 x 6 Pan Hd. Motor Screw                                       |
| 31          | 42-36-0840 | Motor Mount Bracket  |
| 32          |            | Motor Mount Pin (  |
|             | 44-60-1530 |  |
| 33<br>34    |            | Motor Pinion   |
| 34          | 23-30-0625 | Motor Assembly   |
| 35          |            | Handle Halve - Left (  |
| 36<br>37    |            | PCBA (   |
| 37          |            | Connector Block  |
| 38<br>39    |            | LED  |
|             |            | LED Holder (   |
| 40          | 31-76-0325 | Shuttle (  |
| 41          |            | Switch (   |
| 42          | 44-10-0825 | Trigger Lever  |
| 43          | 31-92-0570 | Trigger (  |
| 44          |            | Handle Halve - Right   |
| 45          | 06-82-1080 | M3 x 14 Pan Hd. Plast. T-10 Screw                                |
| 46          | 43-72-0430 | Shuttle Detent   |
| 47          | 40-50-1475 | Shuttle Detent Spring  |
| 48          | 31-44-2475 | Handle Kit (   |
| 49          | 23-66-2840 |  |
|             |            | Switch Assembly (  |
| 50          | 42-70-0055 | Housing Connection Clip (  |
| 51          | 12-20-2432 | Service Nameplate  |
| 52          | 42-55-2400 | Carrying Case, Optional (<br>M3 x 20 Pan Hd. Plast. T-10 Screw ( |
| 53          | 05-88-0675 | M3 X 20 Pan Hd. Plast. I-10 Screw                                |
| 54          | 06-82-5316 | 8-32 x 1/2" Pan Hd. Slt. Tapt. T-20 Scr. (                       |
| 55          | 43-74-0730 | Belt Hook (  |
| 56          | 02-04-1022 | Ball Bearing (   |
| 57          | 10-20-2002 | Warning Label (Not Shown) (                                      |
| 58          |            | Fuel Găuge Label (Not Shówn)                                     |

Fuel Gauge Label (Not Shown)

Flat Washer

57 58

45-88-1485

12<sub>56</sub> 13 15 10 59 55



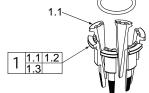
To remove an Expander Head, unscrew from tool in a counterclockwise direction.

Be sure Expander Head is free of any dirt and debris.

Use a clean, lint-free cloth to apply a thin coat of **Milwaukee Expander Cone Grease**, **No. 49-08-2400** to the cone of the Spindle (9). Do not over-lubricate.

See page 3 for additional lubrication notes.

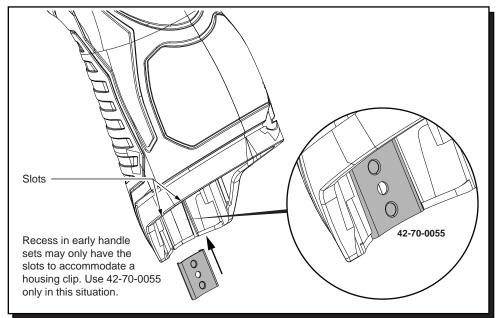
Reinstall Expander Head onto tool in a clockwise direction. Hand tighten securely. Do not over tighten. The Expander Head must fit snuggly against the shoulder of the tool



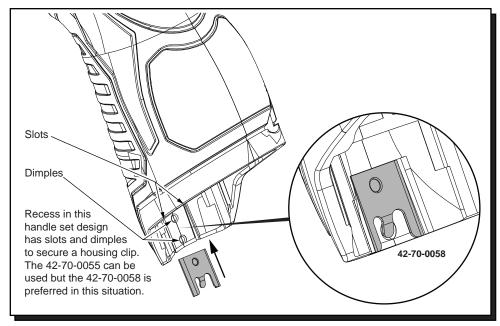
1.3

1.2

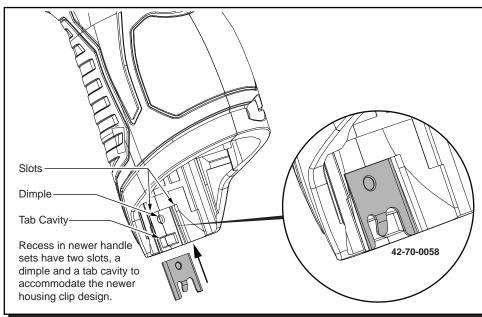
MILWAUKEE ELECTRIC TOOL CORPORATION 13135 W. Lisbon Road, Brookfield, WI 53005 Drwg. 4



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.

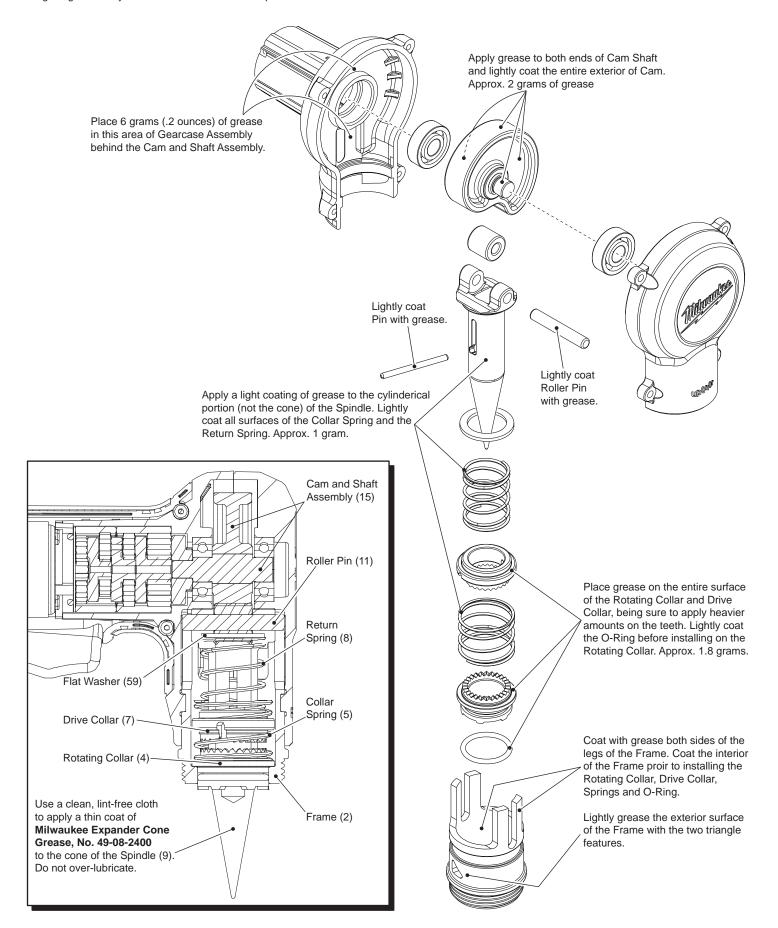


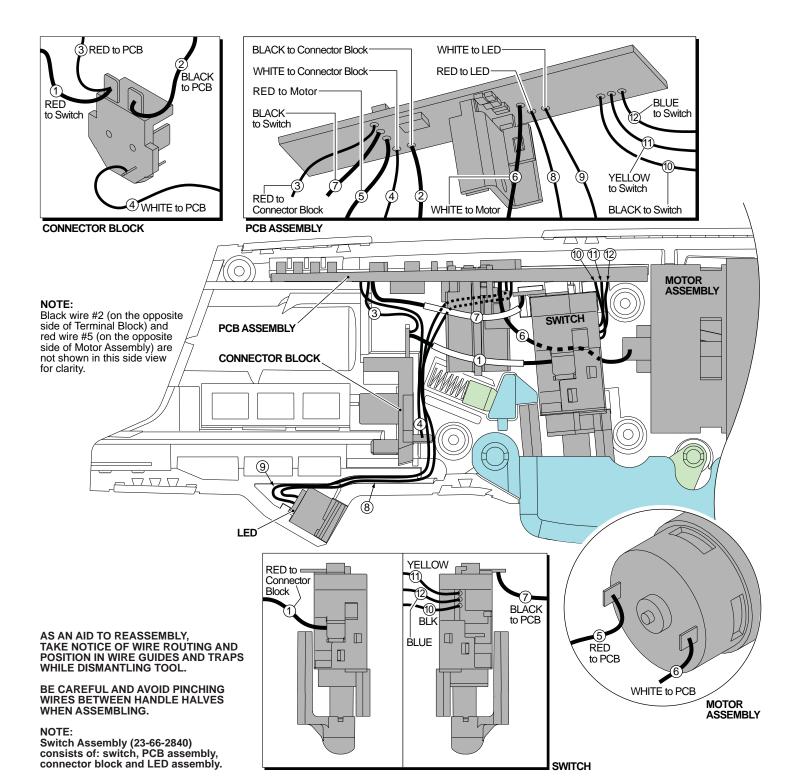
Newer M12™ Handle Sets utilize Housing Connection Clip No. 42-70-0058. Install this clip design by aligning the side rails of the clip with the two slots in the handle set. Gently push into place with the aid of a small flat blade screwdriver or a similar instrument. Be sure that the clip is properly 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.

**LUBRICATION NOTES:** 

Use Type 'L' Grease, No. 49-08-4175 Total amount approx. 12 grams (.4 ounces)

When servicing, remove 90-95% of the existing grease prior to installing Type 'L'. Original grease maybe similar in color but not compatible with 'L'.





|      | WIRING SPECIFICATIONS |            |        |  |  |
|------|-----------------------|------------|--------|--|--|
| Wire | Wire                  | Origin or  | Land   | Torrigale Occasion and Apr 0 Feel Wire December  |  |
| No.  | Color                 | Gauge      | Length | Terminals, Connectors and 1 or 2 End Wire Preparation                                  |  |
| 1    | Red                   | 23-66-2840 |        | Component of switch assembly. Soldered to switch and connector block as shown.         |  |
| 2    | Black                 | 23-66-2840 |        | Component of switch assembly. Soldered to connector block and PCB assembly as shown.   |  |
| 3    | Black                 | 23-66-2840 |        | Component of switch assembly. Soldered to connector block and PCB assembly as shown.   |  |
| 4    | White                 | 23-66-2840 |        | Component of switch assembly. Soldered to connector block and PCB assembly as shown.   |  |
| 5    | Red                   | 23-66-2840 |        | Component of switch assembly. Soldered to motor assembly and PCB assembly as shown.    |  |
| 6    | White                 | 23-66-2840 |        | Component of switch assembly. Soldered to motor assembly and PCB assembly as shown.    |  |
| 7    | Black                 | 23-66-2840 |        | Component of switch assembly. Soldered to switch and PCB assembly as shown.            |  |
| 8    | Red                   | 23-66-2840 |        | Component of switch assembly. Routed from LED and soldered to PCB assembly as shown.   |  |
| 9    | White                 | 23-66-2840 |        | Component of switch assembly. Routed from LED and soldered to PCB assembly as shown.   |  |
| 10   | Black                 | 23-66-2840 |        | Component of switch assembly. Route from switch and soldered to PCB assembly as shown. |  |
| 11   | Yellow                | 23-66-2840 |        | Component of switch assembly. Route from switch and soldered to PCB assembly as shown. |  |
| 12   | Blue                  | 23-66-2840 |        | Component of switch assembly. Route from switch and soldered to PCB assembly as shown. |  |