SERVICE PARTS LIST

Milwaukee

51

48

49

50 51 52

55

56 57

31-44-2475 23-66-2840

42-70-0055 12-20-2432 42-55-2400

05-88-0675 06-82-5316

43-74-0730 02-04-1022

10-20-2002

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS

M12™ PEX Expander

2432-20 CATALOG NO.

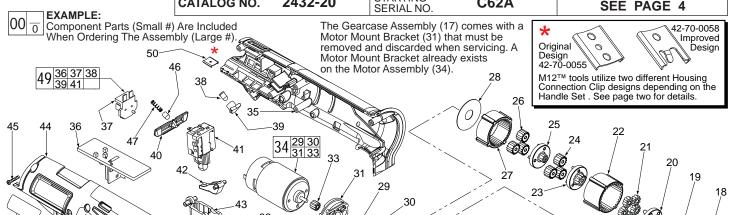
STARTING SERIAL NO

C62A

REVISED BULLETIN

DATE Feb. 2014

WIRING INSTRUCTION



48 35 44 45 53 58 14 18 19 20 21 22 23 24 25 26 27 28 31 32 FIG. PART NO. DESCRIPTION OF PART NO. REQ. See Chart Head Assembly (Optional, see chart) 1.1 Segment -----Garter 1.3 2 3 4 5 Ring 43-40-0950 Frame 34-40-1050 42-76-0950 40-50-1575 O-Ring Rotating Collar Collar Spring 44-60-1580 Pin 6 7 8 9 31-76-0300 40-50-1035 32-75-1190 Drive Collar Return Spring Spindle 10 11 44-96-0230 Roller 44-60-1585 Roller Pin 12 13 28-20-1390 Gearcase Cover Assembly 8-32 x 5/8" Pan Hd. Slt. Tapt. T-20 Scr. 06-82-5320 02-04-1005 36-10-0680 14 15 Ball Bearing Cam and Shaft Assembly 17 28-14-2330 Gearcase Assembly 4th Carrier
4th Planet Gear
4th Sun Gear
3rd Planet Gear
3rd Planet Gear
3rd and 4th Ring Gear 19 20 21 22 23 24 25 26 27 28 29 30 31 32 3rd Sun Gear 2nd Planet Gear ----------2nd Sun Gear 1st Planet Gear -----1st and 2nd Ring Gear Washer Spring Washer
M3 x 6 Pan Hd. Motor Screw
Motor Mount Bracket 05-90-0050 05-81-0205 42-36-0840 44-60-1530 Motor Mount Pin 33 34 35 36 37 38 39 Motor Pinion 23-30-0625 Motor Assembly Handle Halve - Left PCRA Connector Block LED LED Holder 40 41 42 31-76-0325 Shuttle Switch 44-10-0825 Trigger Lever 43 31-92-0570 Trigger Handle Halve - Right
M3 x 14 Pan Hd. Plast. T-10 Screw
Shuttle Detent 44 45 46 06-82-1080 43-72-0430 47 40-50-1475 Shuttle Detent Spring

Handle Kit

Belt Hook

Switch Assembly

Housing Connection Clip
Service Nameplate
Carrying Case, Optional
M3 x 20 Pan Hd. Plast. T-10 Screw
8-32 x 1/2" Pan Hd. Slt. Tapt. T-20 Scr.

Ball Bearing Warning Label (Not Shown) Fuel Gauge Label (Not Shown)

12₅₆ 13 15 10 54 55

1.3

1.2

1.1

FIG. 1 (Hea	ad Assortment)
PART NO.	SIZE
49-16-2403	3/8" Head Assy.
49-16-2404	1/2" Head Assy.
49-16-2405	5/8" Head Assy.
49-16-2406	3/4" Head Assy.
49-16-2408	1" Head Assy.

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

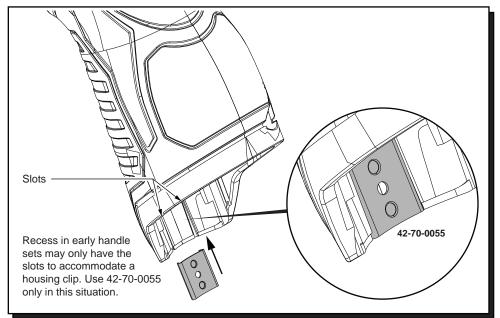
Be sure Expander Head is free of any dirt and debris.

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.

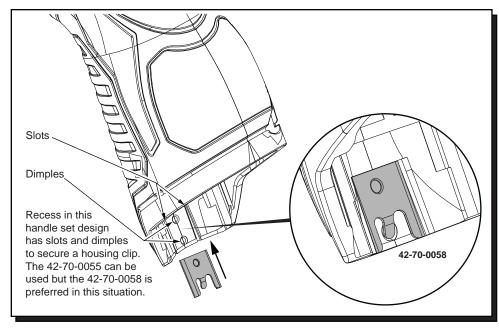
See page 3 for additional lubrication notes.

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

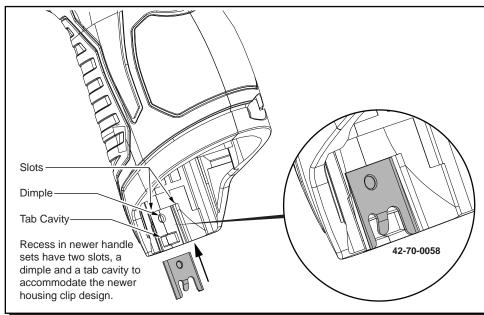
MILWAUKEE ELECTRIC TOOL CORPORATION 13135 W. Lisbon Road, Brookfield, WI 53005



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.

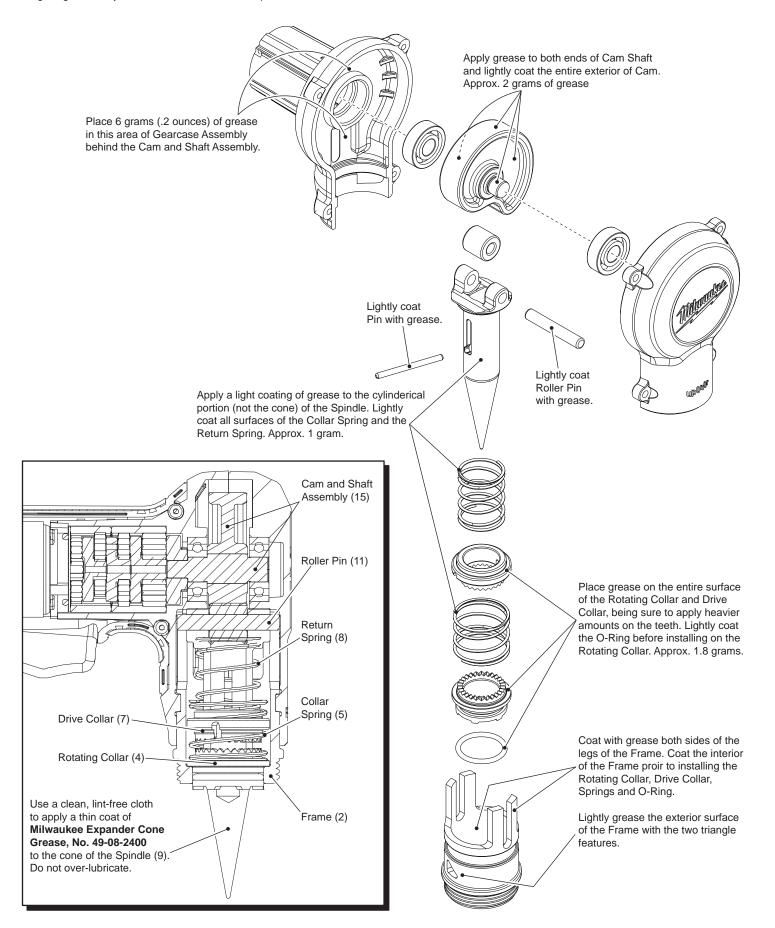


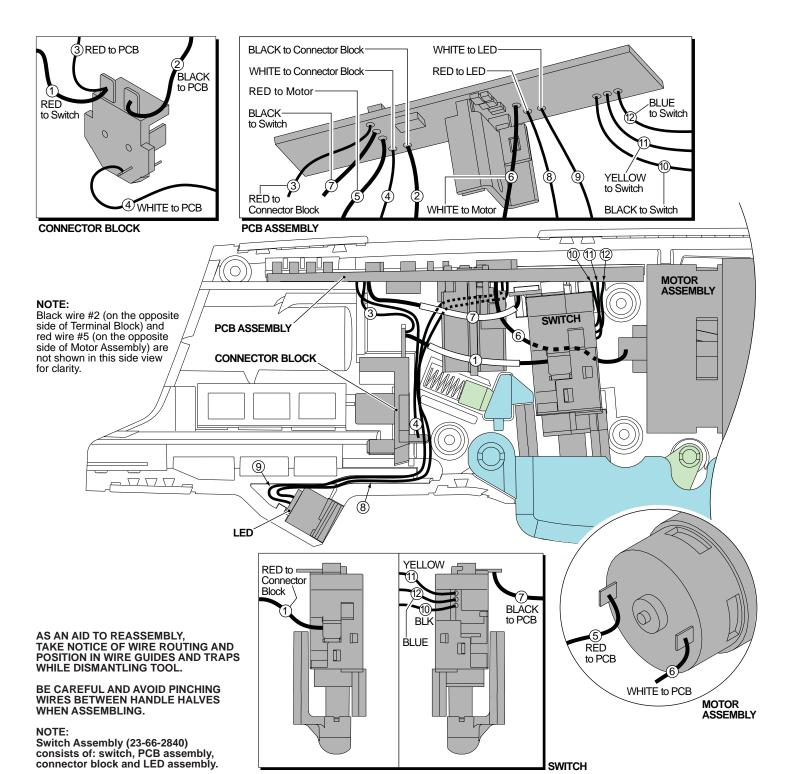
Newer M12™ Handle Sets utilize Housing Connection Clip No. 42-70-0058. Install this clip design by aligning the side rails of the clip with the two slots in the handle set. Gently push into place with the aid of a small flat blade screwdriver or a similar instrument. Be sure that the clip is properly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