# **SERVICE PARTS LIST**

Milwaukee

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

M12<sup>™</sup> Copper Tubing Cutter

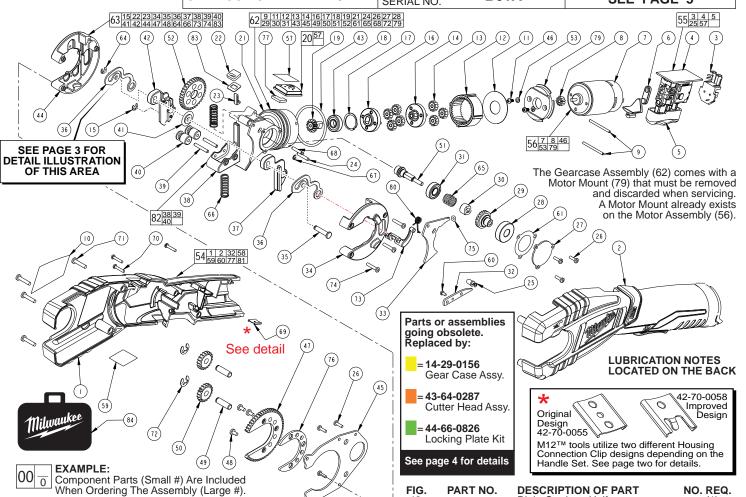
CATALOG NO. 2471-20 STARTING SERIAL NO

**B61A** 

REVISED BULLETIN

DATE Mar. 2015

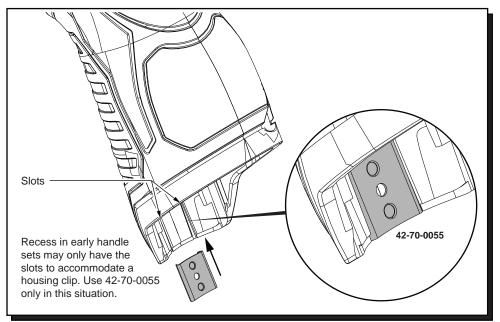
WIRING INSTRUCTION SEE PAGE 5



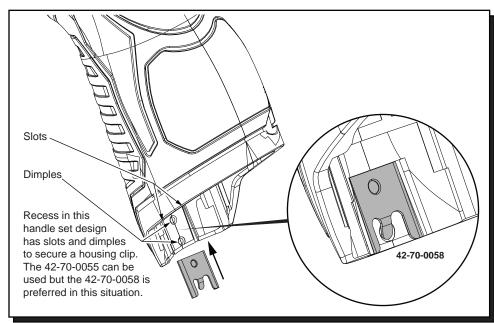
00	Component F When Orderir	Parts (Small #) Are Included ng The Assembly (Large #).	FIG.	PART NO.	DESCRIPTION OF PART	1	
		3 , ( 3 - ,		42		Right Carriage Half	
FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.	43	34-40-1900	O-Ring	
1		Right Handle	(1)	44		Cutter Head - Right	
2		Left Handle	(1)	45		C Plate	
2		Connector Block	(1)	46		M3 x 6 Screw	
4		PCBA	(1)	47	32-30-0155	Head Gear	
5		Switch	(1)	48	05-80-0475	4-40 x 1/4" Flat Head Screw	
6	31-52-0125	Reversing Lever	(1)	49		Axle Pin	
7		Motor	(1)	50		Idler Gear	
8		Pinion	(1)	51		Drive Axle	
9	44-60-1530	Pin	(2)	52		Drive Gear	
10	12-20-2470	Service Nameplate Kit	(1)	53 54	31-44-0246	M3 Washer Handle Set	
11		Plate	(1)	55 55	23-66-0875	Switch PCBA	
12		Ring Gear	(1)	56	14-50-0205	Motor Assembly	
13		Planet - 1st Stage	(2)	57	10-20-4420	Fuel Guage Label	
14	40.70.0505	Carriage - 1st Stage	(1)	59	10-20-4420	Warning Label	
15 16	42-70-0505	E Clip	(1)	60		M2.6 x 5 Screw	
17		Carriage	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	61	43-44-0075	Gasket	
18		Snap Řing Bearing	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	62	14-29-0155	Gearcase Assembly	
19		Bevel Pinion	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	63	43-64-0285	Cutter Head Assembly	
20	22-06-0130	Fuel Gauge Assembly	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	64	42-70-0500	E Clip	
21		Gearcase Housing	\i\	65	40-50-0525	Clutch Spring	
21 22	44-66-0825	Locking Plate	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	66	40-50-0580	Carriage Spring	
23		Lifter	(1)	67	42-70-0525	E Clip	
24 25 26		Stop Pin	(1)	68		Pin Pivot	
25	23-28-0020	Service LED	(1)	69	42-70-0055	Housing Connection Clip	
26	06-82-5268	4-40 x 3/8" Pan Hd. Slt. Tapt. T-10	(6)	70	06-82-2385	M2.6 x 14 Screw	
27		Plate Cover	(1)	71	06-81-0005	M3.5 x 1.34 Screw	
28		Bearing	(1)	72	42-70-0550	E Clip	
29	32-05-0205	Bevel Ğear	(1)	73	36-10-0840	Cam Shaft	
30	32-10-0240	Clutch Cam	(1)	74	05-81-0245	4-40 x 5/8" Phillips Hd. Screw	
31		Bearing	(1)	75	34-40-1905	O-Ring	
32		Fixed Čam	(1)	76	32-30-0160	Head Gear Spacer	
33	44-10-0490	Stop Lever	(1)	77	42-28-0075	Rubber Block	
34 35	40.40.0040	Cutter Head - Left	(1)	79		Motor Mount	
35	42-12-0210	Axle	(1)	80	40-50-0605	Torsion Spring	
36 37	40-50-0585	Cutting Spring	(2)	82	43-72-0285	Roller Carriage Assembly	
37 38		Left Carriage Half	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	83	45-36-0205	Locking Plate Spacer	
39		Roller Carriage Roller Pin	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	84	42-55-2471		
40		Roller	\ <del>2</del> \	04	42-00-247	Carrying Case, Optional	
41	48-38-0010	Cutting Wheel (Pkg. of 2)	(2) (2) (1)		IV	IILWAUKEE ELECTRIC TOOL CO	ORP
71	70 00 00 10	Jaking Wilcol (1 kg. of 2)	(1)			42425 W. Lieber Deed Dreek	

(1) (1) (2) (1) (1) (3) (4) (2) (1) (3)

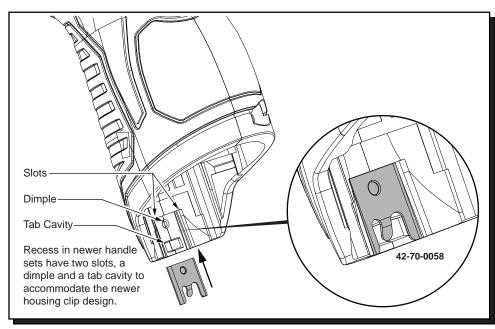
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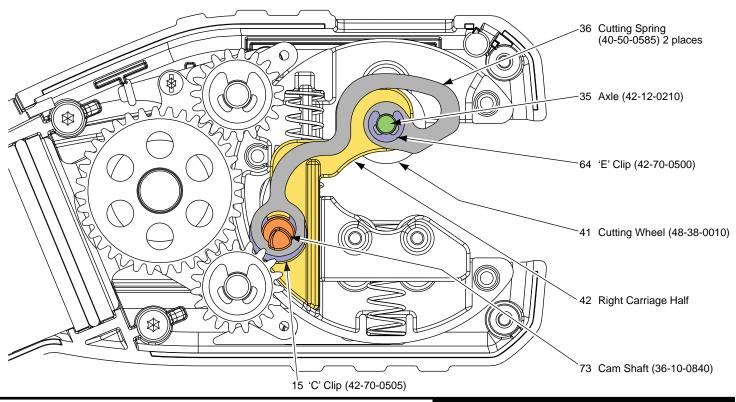
Early M12™ Handle Sets utilize Housing Connection Clip No. 42-70-0055. Install this clip design by aligning the side rails of the clip with the two slots in the handle set. Gently push into place with the aid of a small flat blade screwdriver or a similar instrument. Be sure that the clip is properly 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.

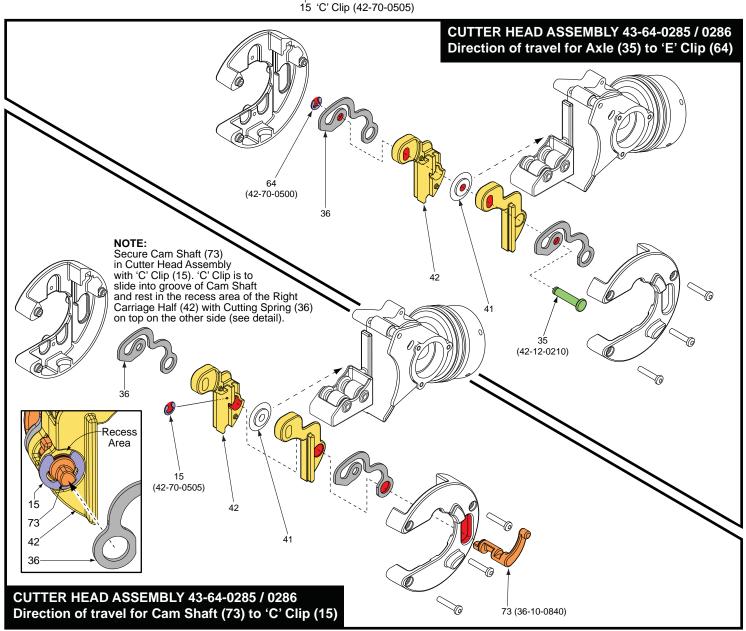


Updated M12™ Handle Sets utilize Housing Connection Clips No. 42-70-0055 and 42-70-0058. (The 42-70-0058 is a preferred upgrade). Install this clip design by aligning the side rails of the clip with the two slots in the handle set. Gently push into place with the aid of a small flat blade screwdriver 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.



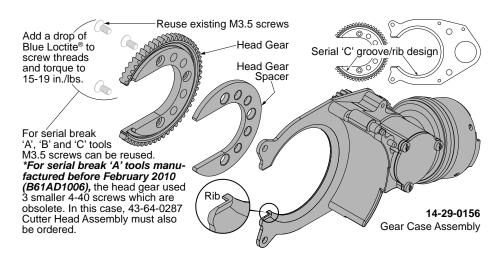


### 14-29-0156 GEAR CASE ASSEMBLY

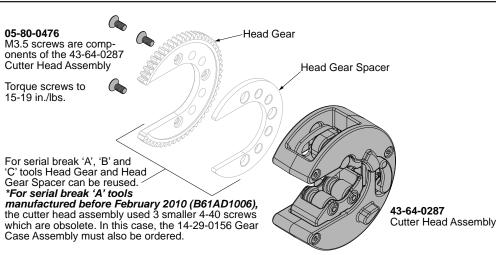
#### NOTE

The installation of this service kit upgrades your 2471-XX, M12<sup>™</sup> Copper Tubing Cutter to the latest serial break design. It is recommended to use a Sharpie or equivalent <u>indelible marker</u> to record '<u>B61C</u>' (for 2471-20) or '<u>D30B</u>' (for 2471-059) in the serial number box. This should be done to assure that the tool can be properly serviced in

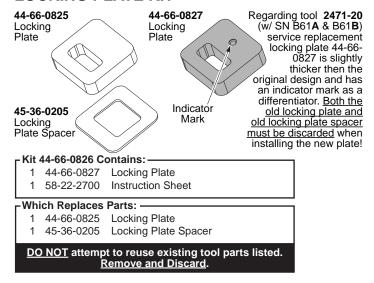


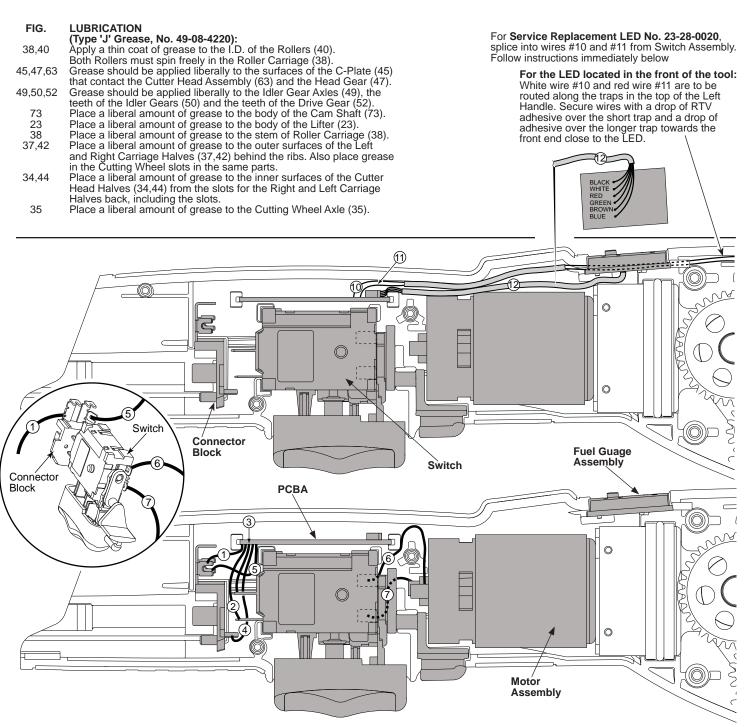


## 43-64-0287 CUTTER HEAD ASSEMBLY



# 44-66-0826 LOCKING PLATE KIT





WIRING SPECIFICATIONS								
Wire No.	Wire Color	Origin or Gauge	Length	Terminals, Connectors and 1 or 2 End Wire Preparation				
1	Red	23-66-0875		Component of the Switch Assembly.				
2	White	23-66-0875		Component of the Switch Assembly.				
3	Blue	23-66-0875		Component of the Switch Assembly.				
4	White	23-66-0875		Component of the Switch Assembly.				
5	Black	23-66-0875		Component of the Switch Assembly.				
6	Red	14-50-0205		Component of the Motor Assembly.				
7	Black	14-50-0205		Component of the Motor Assembly.				
10	White	23-66-0875		Component of the Switch Assembly.				
11	Red	23-66-0875		Component of the Switch Assembly.				
12	Black	22-06-0130		Component of the Fuel Guage Assembly.				
12	White	22-06-0130		Component of the Fuel Guage Assembly.				
12	Red	22-06-0130		Component of the Fuel Guage Assembly.				
12	Green	22-06-0130		Component of the Fuel Guage Assembly.				
12	Brown	22-06-0130		Component of the Fuel Guage Assembly.				
12	Blue	22-06-0130		Component of the Fuel Guage Assembly.				

AS AN AID TO REASSEMBLY, TAKE NOTICE OF WIRE ROUTING AND POSITION IN WIRE GUIDES AND TRAPS WHILE DISMANTLING TOOL.

BE CAREFUL AND AVOID PINCHING WIRES BETWEEN HANDLE HALVES WHEN ASSEMBLING.