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

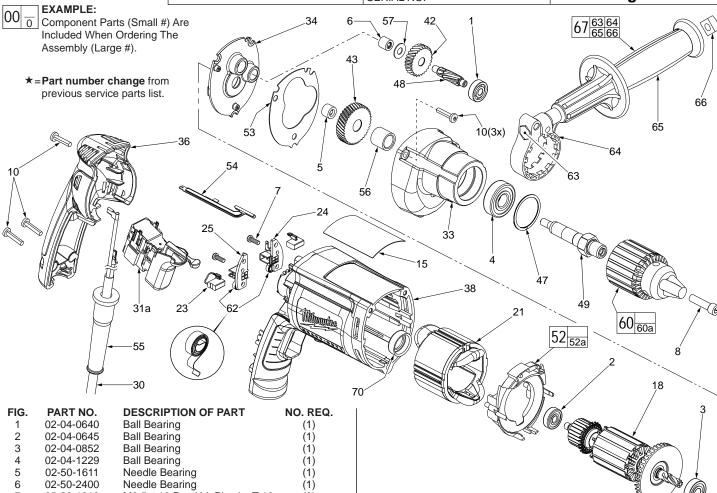
0299-20

CATALOG NO.

1/2" PISTOL GRIP DRILL

STARTING SERIAL NO **A15D**  REVISED BULLETIN DATE 54-06-0127 Sept. 2013 WIRING INSTRUCTION

See Pages 2 & 3



1	02-04-0640	Ball Bearing	(1)
2	02-04-0645		(1)
3	02-04-0852		(1)
4	02-04-1229		(1)
5	02-50-1611		(1)
6	02-50-2400		(1)
7	05-88-1610	M3.5 x 10 Pan Hd. Plastite T-10	(2)
8	06-75-3150	1/4-20 x 1 L.H. Thread Slt. Screw	(1)
10	06-82-7275	7-18 x 3/4 Slotted Plastite T-20	(6)
15	12-99-2565	Service Nameplate	(1)
18	16-10-2210	Armature	(1)
21	18-07-7220	Field	(1)
23	22-18-1310	Brush Assembly	(2)
24	22-20-0090	Left Brush Holder	(1)
25	22-20-0095	Right Brush Holder	(1)
30	22-64-1130	Cord Set	(1)
31a	23-66-2605	Switch (Defond) See page 2 wiring	(1)
31b	23-66-2585	Switch (Marquardt) See page 3 wiring	(1)
33	28-14-2390	Gearcase	(1)
34	28-28-2320	Diaphragm	(1)
36	31-15-2020	Handle Halve	(1)
<b>★</b> 38	31-50-0527	Motor Housing	(1)
42	32-40-0100	Intermediate Gear	(1)
43	32-75-0100	Spindle Gear	(1)
47	34-80-2300		(1)
48	36-66-0100	Intermediate Shaft	(1)
49	38-50-5735	Spindle	(1)
52	42-14-0450	Baffle Assembly	(1)
52a	45-30-0030	Slug (Not shown)	(2)
53	43-44-0985		(1)
54	44-60-1700		(1)
55	44-76-0210		(1)
56	45-36-1095		(1)
57	45-88-7990		(1)
60	48-66-1355		(1)
60a	48-66-3280		(1)
62	23-52-1610	Brush Spring	(2)
63	06-75-2850		(1)
64	42-68-0800		(1)
65	43-62-0845	Side Handle	(1)

FIG.	PART NO.	DESCRIPTION OF PART NO	. REC
66	06-54-0325	3/8-16 Square Nut	(1)
67	49-15-0265	Side Handle Assembly	(1)
<b>★</b> 70	43-86-0125	Bearing Cup	(1)
	23-94-0490	White Leadwire Assy. (See pages 2 & 3)	(1)
	23-94-0495	Red Leadwire Assy. (See pages 2 & 3)	(1)
	48-66-4040	Chuck Key Holder (Not Shown)	(1)

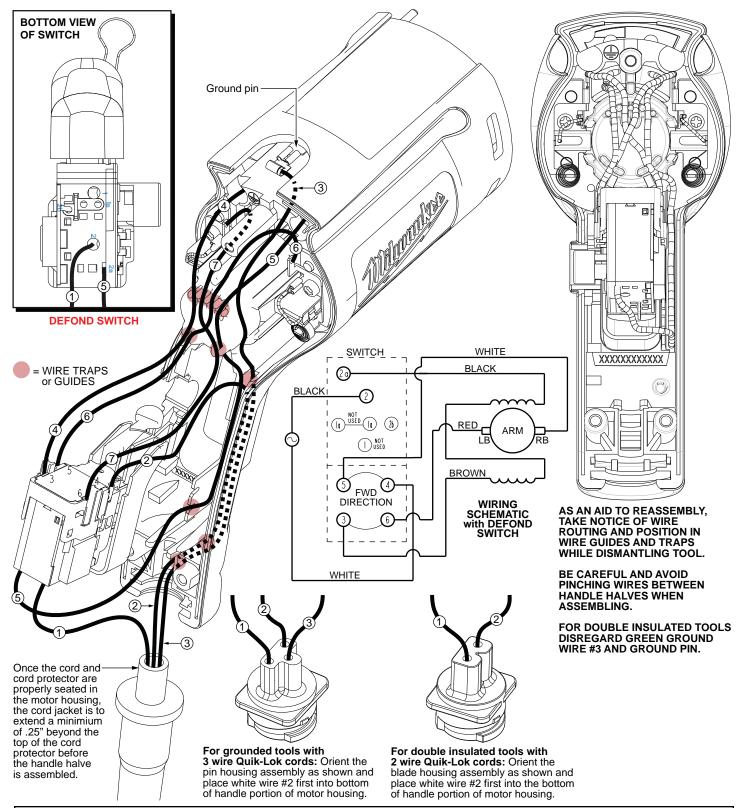
- LUBRICATION (Type "Y" Grease, No. 49-08-5270)
  Place 5 gm. (.02 oz.) of grease on top of the inserted intermediate ball bearing (1) and on the intermediate pinion (48).
- After inserting all gearing, place 13 gm. (.46 oz.) of grease at the armature pinion location in the gearcase (33) and fill to the top of the intermediate gear (42). Grease must contact at least 25% of the intermediate gear teeth.

## Before assembly, lightly coat all press fit areas with lightweight spindle oil.

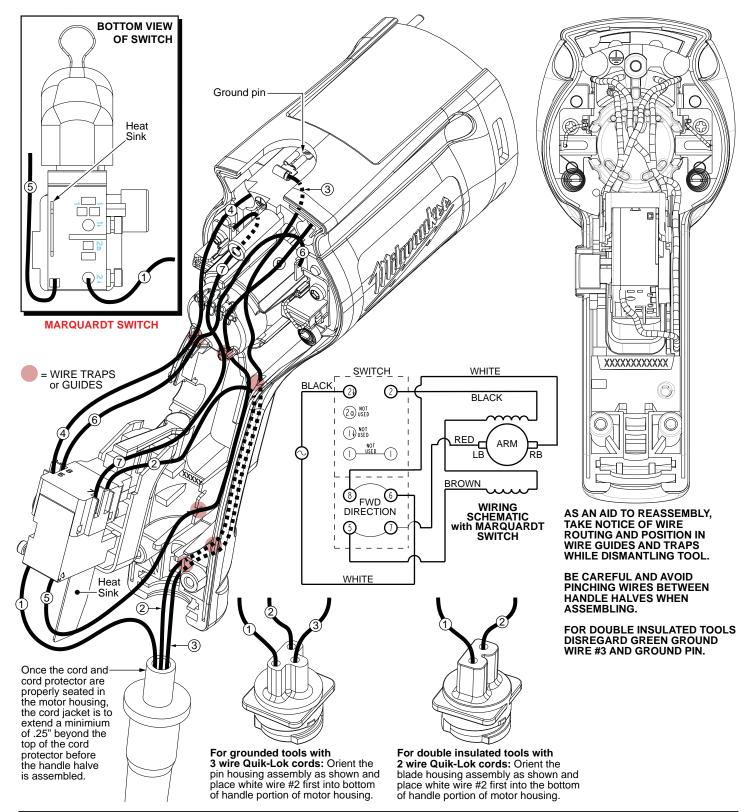
## FIG.

- Support the output ball bearing inside the gearcase before 4,43 pressing off the spindle gear.
- 5,6 Needle bearings to be pressed flush to .010 under flush from the end which has the vendors identification.

## MILWAUKEE ELECTRIC TOOL CORPORATION 13135 W. LISBON RD., BROOKFIELD, WI 53005



WIRING SPECIFICATIONS				
Wire No.	Wire Color	Origin or Gauge	Length	Terminals, Connectors and 1 or 2 End Wire Preparation
1	Black	*		*Component of cord set, pin hsg. assy. or blade hsg. assy. Connect to #2 on switch bottom.
2	White	*		*Component of cord set, pin hsg. assy. or blade hsg. assy. Connect to #4 on switch top.
3	Green	*		*Component of cord set, pin hsg. assy. or blade hsg. assy. Connect to male tab on ground terminal.
4	Brown	Field		Component of field. Connect to #3 on switch top.
5	Black	Field		Component of field. Connect to #2a on switch bottom.
6	White	23-94-0490		Leadwire assembly. Connect to right brush holder and #5 on switch top.
7	Red	23-94-0495		Leadwire assembly. Connect to left brush holder and #6 on switch top.
BULK LEAD WIRE - BULLETIN NO. 58-01-0003				



	WIRING SPECIFICATIONS			
Wire No.	Wire Color	Origin or Gauge	Length	Terminals, Connectors and 1 or 2 End Wire Preparation
1	Black	*		*Component of cord set, pin hsg. assy. or blade hsg. assy. Connect to #2\$ on switch bottom.
2	White	*		*Component of cord set, pin hsg. assy. or blade hsg. assy. Connect to #6 on switch top.
3	Green	*		*Component of cord set, pin hsg. assy. or blade hsg. assy. Connect to male tab on ground terminal.
4	Brown	Field		Component of field. Connect to #5 on switch top.
5	Black	Field		Component of field. Connect to #2 on switch bottom.
6	White	23-94-0490		Leadwire assembly. Connect to right brush holder and #8 on switch top.
7	Red	23-94-0495		Leadwire assembly. Connect to left brush holder and #7 on switch top.
	BULK LEAD WIRE - BULLETIN NO. 58-01-0003			