# Milwaukee

# SERVICE PARTS LIST

**BULLETIN NO.** 54-38-1761

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS

5"/6" RAT-TAIL ANGLE GRINDER

REVISED BULLETIN 54-38-1760

DATE July 2010

2

41

WIRING INSTRUCTION See Page 3

**CATALOG NO. 6123-31** 

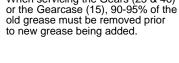
**STARTING** SERIAL NUMBER

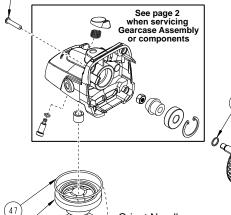
**B68B** 

 $00|_{\overline{0}}$ Component Parts (Small #) Are Included When Ordering The Assembly (Large #).

# \* LUBRICATION NOTE: When servicing the Gears (25 & 46) or the Gearcase (15), 90-95% of the old grease must be removed prior

**EXAMPLE:** 





Orient Needle Bearing (14) such that side with vendor I.D. is facing Gear (25).



(25)

(23)

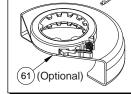
(50)

31

16-10-7010



(60



(Standard)

 $31_{33}$ 

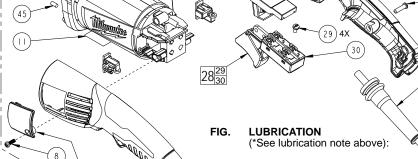
FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
2	05-88-1200	M4 x 16 Pan Hd. T-20 Screw	(4)
3	05-88-1210	M4 x 14 Pan Hd. T-20 Screw	(4)
4	05-88-1250	M4 x 20 Pan Hd. T-20 Screw	(4)
6	05-88-1290	M4 x 76 Pan Hd. T-20 Screw	(2)
7	05-88-1650	M4 x 25 Pan Hd. T-20 Screw	(3)
8	05-88-1610	M3.5 x 10 Pan Hd. T-10 Screw	(2)
9	05-90-0225	M4 Lock Washer (See page 2)	(4 or 6)
10	12-20-6116	Service Nameplate	(1)
11	10-15-1230	Warning Label	(1)
21	14-34-0810	Rear Handle Assembly	(1)
22	14-73-0410	Spindle/Hub Assembly	(1)
23	02-04-1150	Ball Bearing	(1)
24	28-53-0410	Lower Gearcase Hub	(1)
25	32-05-1310	Bevel Gear	(1)
26	34-80-2275	Retaining Ring	(1)
27	38-50-1280	Spindle	(1)
28	14-78-0525	Switch Assembly	(1)
29	05-88-1600	M4 x 10 Pan Hd. Slt. T-15 Screw	(4)
30	23-66-2685	Switch	(1)

Service Armature Assembly

(1)

 $\overline{7}$ 43 Rubber Slug (45) is to be placed in a cavity by the bearing bore in the back of Motor Housing (44). (21 (38) (39)

(10)



15,47

15

25,46 Type "Y" Grease, No. 49-08-5270, Must Be Applied To All Gear Teeth.

> Lightly coat with grease O-Ring and bearing bore in Gearcase.

.3 -.4 Ounces (9-12 Grams) Type "Y" Grease, No. 49-08-5270.

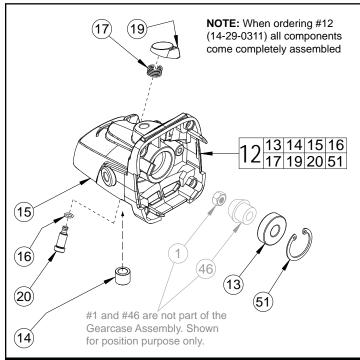
Orient Magnetic Disc Assembly (33) with 'half moon' cut outs facing Ball Bearing (35) as shown. Exercise caution when installing. Make sure that the shoulder of Magnetic Disc Assembly rests against commutator bars with no visable gap.

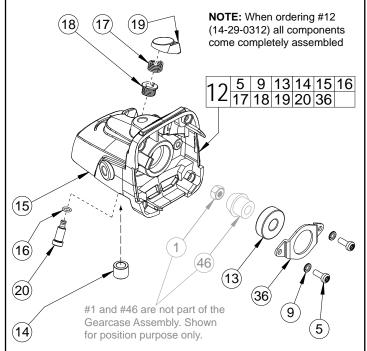
Orient Fan Baffle (48) with small notch to the top and large notch to the bottom.

Orient Retaining Rings (26 & 51) so the bevel side faces away from Ball Bearings (13 & 23).

PART NO.	DESCRIPTION OF PART	NO. REQ.
23-27-0110	Magnetic Disc Assembly	(1)
45-88-0406	Washer	(1)
02-04-2110	Ball Bearing	(1)
18-07-2325	Service Field	(1)
22-09-1800	Module Assembly	(1)
22-22-1560	Carbon Brush Assembly	(2)
22-64-2020	Cord	(1)
31-15-2205	Brush Cover - Left	(1)
31-15-2200	Brush Cover - Right	(1)
31-50-2600	Motor Housing	(1)
31-53-0240	Rubber Slug	(1)
34-40-0180	O-Ring	(1)
42-14-0490	Fan Baffle	(1)
43-34-0036	Inner Disk Flange	(1)
44-40-0035	Outer Flange Nut	(1)
44-76-0210	Strain Relief	(1)
43-54-1075	5" T27 Guard Assembly (Standard)	(1)
43-54-1080	6" T27 Guard Assembly (Standard)	(1)
43-54-1095	5" T1 Guard Assembly (Optional)	(1)
43-54-1085	6" T1 Guard Assembly (Optional)	(1)
42-62-0100	Side Handle (Not Shown)	(1)
49-96-7215	Spanner Wrench (Not Shown)	(1)
	23-27-0110 45-88-0406 02-04-2110 18-07-2325 22-09-1800 22-22-1560 22-64-2020 31-15-2205 31-15-2200 31-50-2600 31-53-0240 34-40-0180 42-14-0490 43-34-0036 44-40-0035 44-76-0210 43-54-1075 43-54-1080 43-54-1085 42-62-0100	23-27-0110 Magnetic Disc Assembly   45-88-0406 Washer   02-04-2110 Ball Bearing   18-07-2325 Service Field   22-09-1800 Module Assembly   22-22-1560 Carbon Brush Assembly   22-64-2020 Cord   31-15-2205 Brush Cover - Left   31-15-2200 Brush Cover - Right   31-50-2600 Motor Housing   31-53-0240 Rubber Slug   34-40-0180 O-Ring   42-14-0490 Fan Baffle   43-34-0036 Inner Disk Flange   44-40-0035 Outer Flange Nut   44-76-0210 Strain Relief   43-54-1075 5" T27 Guard Assembly (Standard)   43-54-1080 6" T27 Guard Assembly (Optional)   43-54-1085 6" T1 Guard Assembly (Optional)   42-62-0100 Side Handle (Not Shown)

#### MILWAUKEE ELECTRIC TOOL CORPORATION





## #12 14-29-0311 GEARCASE ASSEMBLY

## #12 14-29-0312 GEARCASE ASSEMBLY

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	05-55-0620	M5 Armature Hex Nut	(1)
12	14-29-0311	Gearcase Assembly	(1)
13	02-04-0620	Ball Bearing	(1)
14	02-50-0025	Needle Bearing	(1)
15		Gearcase	(1)
16	34-40-0450	O-Ring	(1)
17	40-50-1330	Compression Spring	(1)
19	42-42-0590	Spindle Lock Button	(1)
20	42-60-1660	Spindle Lock Pin	(1)
46	32-60-1310	Bevel Pinion	(1)
51	34-80-1001	Retaining Ring	(1)

FIG.	NOTE:
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- 1 Torque Armature Nut (1) to 47 in/lbs, 55 kg/cm.
- 14 Orient the Needle Bearing (14) such that the side with the vendor I.D. is facing the Gear (25).
- 20,25 Functionally check Spindle Lock mechanism. Spindle Lock Pin (20) must return briskly when released from engagement in Gear (25), reference illustration on first page.

FIG.	PART NO.	DESCRIPTION OF PART	NO. REQ.
1	05-55-0620	M5 Armature Hex Nut	(1)
5	05-88-1280	M4 x 10 Pan Hd. T-20 Screw	(2)
9	05-90-0225	M4 Lock Washer (2 of 6)	(6)
12	14-29-0312	Gearcase Assembly	(1)
13	02-04-0620	Ball Bearing	(1)
14	02-50-0025	Needle Bearing	(1)
15		Gearcase	(1)
16	34-40-0450	O-Ring	(1)
17	40-50-1330	Compression Spring	(1)
18	42-42-0580	Spindle Lock Tube	(1)
19	42-42-0590	Spindle Lock Button	(1)
20	42-60-1660	Spindle Lock Pin	(1)
36	44-66-0450	Bearing Retainer	(1)
46	32-60-1310	Bevel Pinion	(1)

#### FIG. NOTE:

- 1 Torque Armature Nut (1) to 47 in/lbs, 55 kg/cm.
- 9 There are 2 Lock Washers (9) that are utilized in the 14-29-0312 Gearcase Assembly (12). There are 4 Lock Washers used to help secure the Lower Gearcase Hub (24). There is a total quantity of 6. Reference illustration above and on page 1.
- 14 Orient the Needle Bearing (14) such that the side with the vendor I.D. is facing the Gear (25).
- When replacining Spindle Lock Tube (18), apply a few drops of thread locking sealant to outside threads prior to installation. Torque Spindle Lock Tube to 12 in/lbs, 14 kg/cm.
- 20,25 Functionally check Spindle Lock mechanism. Spindle Lock Pin (20) must return briskly when released from engagement in Gear (25), reference illustration on first page.

