Milwaukee

Component Parts (Small #) Are Included When Ordering The Assembly (Large #).

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EXAMPLE:

SERVICE PARTS LIST

BULLETIN NO. 54-37-0225

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS 2.25 MAX. H.P. BODY GRIP ROUTER w/ ELECTRONICS REVISED BULLETIN

DATE Feb. 2009

CATALOG NO. 5616-20/5616-29

SERIAL NUMBER

A19A

WIRING INSTRUCTION 58-01-0717

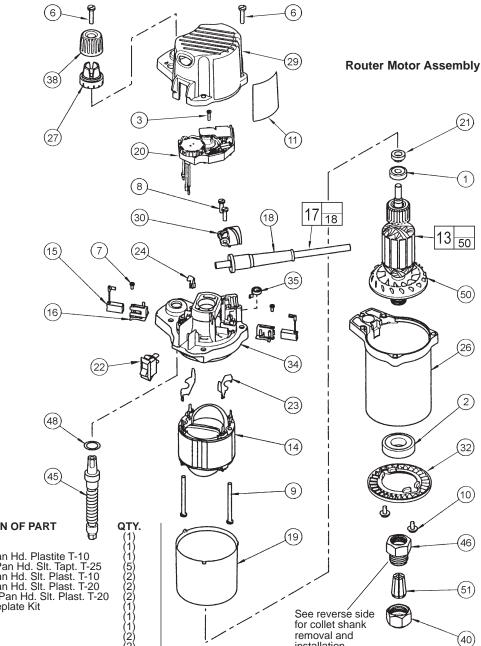


FIG. PART NO. **DESCRIPTION OF PART** 02-04-0852 **Ball Bearing** Ball Bearing
4-20 x 1/2" Pan Hd. Plastite T-10
10-24 x 7/8" Pan Hd. Slt. Tapt. T-25
4-20 x 1/4" Pan Hd. Slt. Plast. T-10
8-16 x 5/8" Pan Hd. Slt. Plast. T-20 02-04-2006 (1) (1) (5) (2) (2) (2) (1) (1) (1) (2) (2) (1) (1) 06-82-7225 06-82-5574 06-82-7212 06-82-7270 06-82-7455 8-16 x 2-3/8" Pan Hd. Slt. Plast. T-20 11 12-20-0255 Service Nameplate Kit 16-30-0015 18-30-1015 13 14 Armature Field 22-16-0410 22-22-0165 Carbon Brush 15 16 Brush Tube Cord Set Assembly Cord Protector 22-64-0320 44-76-0210 19 23-16-0405 Field Insulator 20 21 22 14-20-0055 23-38-0200 Electronic Feedback Module Tachometer 23-66-2280 Rocker Switch 23 24 26 27 29 23-74-0025 Field Terminal 23-74-0055 Connector Terminal 28-50-0105 Motor Housing 31-01-0025 31-15-0095 Depth Scale Motor Cover Cord Clamp <u>3</u>0 31-17-0070 31-55-0025 Contamination Shield 31-50-0106 Motor Frame Brush Spring
Depth Knob
Collet Nut (2 supplied with tool)
Depth Shaft Assembly
Collet Shank (See reverse) 35 40-50-0190 38 40 43-98-0531 44-40-0095 45 45-08-0030 46 45-10-0081 45-88-0045 Washer Fan Assembly 1/4" Collet 1/2" Collet 22-84-0380 48-66-0985 48-66-1010 1-1/8" Open End Wrench (Not Shown) 49-96-0365

FIG. NOTES:

When servicing the motor frame (34) and the brush tube (16) has to be removed, replace with a new brush tube. 16,34,35 Note: Make sure that the brush spring (35) is positioned properly onto the new motor frame to insure proper brush tension to the commutator.

installation.

Press tachometer (21) flush ±.020 to the end of the armature shaft (13). Conical side to the bearing (1). 21

40,51 Collet must be snapped into the collet nut prior to assembly onto the collet shank.

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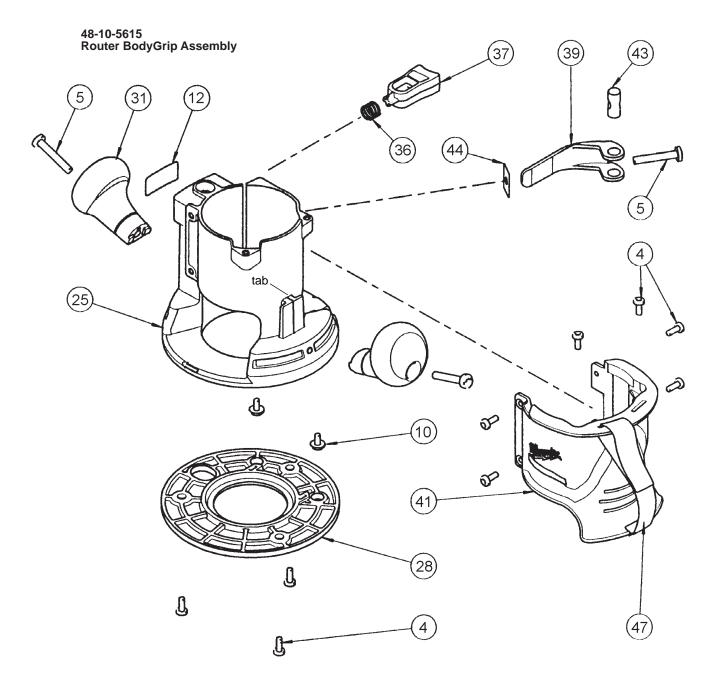
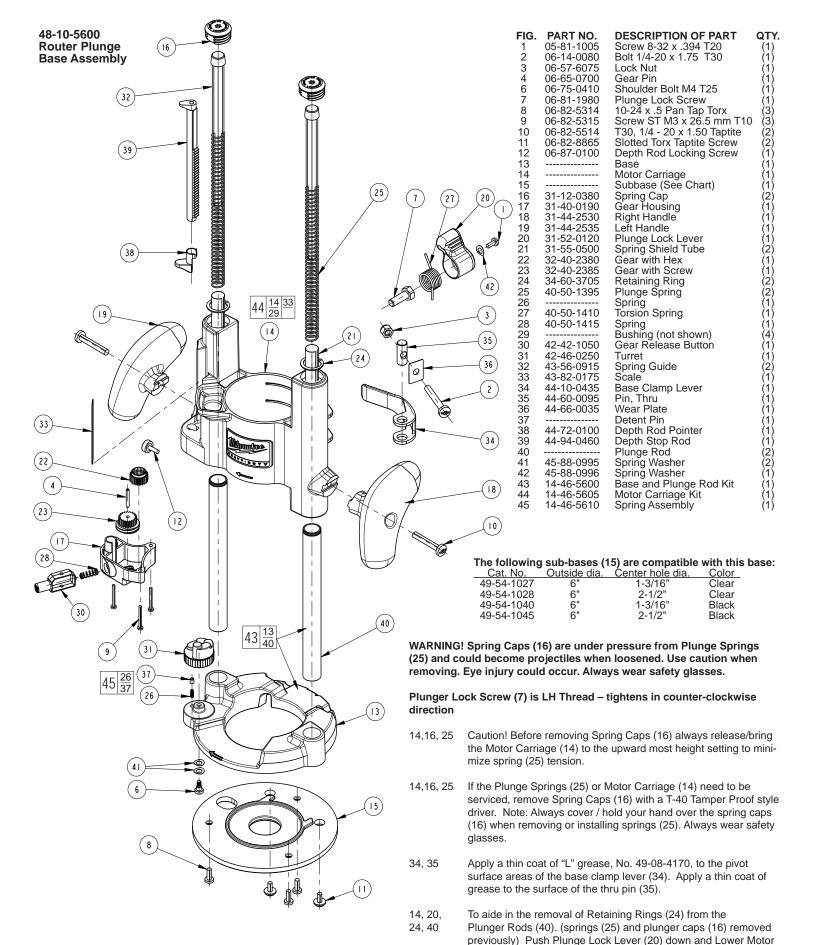


FIG.	PART NO.	DESCRIPTION OF PART	QTY.
4	06-82-5314	10-24 x 1/2" Slt. Pan Hd. Tapt. T-25	(9)
4 5	06-82-5514	1/4-20 x 1-1/2" Slt. Pan Hd. Tapt. T-30	(9) (3)
10	06-82-8865	10-32 x 7/16" Pan Hd. Tapt. Sems T-25	(4)
12	12-25-0235	Nameplate	(1)
25	26-06-0100	Base	(1)
28	49-54-1045	Sub Base	(1)
31	31-44-0130	Knob Handle	(2)
36	40-50-4005	Compression Spring	(1)
37	42-42-0126	Release Button	(1)
39	44-10-0435	Base Clamp Lever	(1)
41	44-52-0020	Body Grip '	(1)
43	44-60-0095	Thrú Pin'	(1)
44	44-66-0035	Wear Plate	(1)
47	45-56-0225	Handle Strap Assembly	(1)

FIG. 5,39

- **NOTES:** Clamping force for the base clamp lever (39) is adjusted with base clamp screw (5). Tighten the screw using 10-20 lbs. force to close the lever to the locked position. Motor unit must be in base when checking force.
- 25,36,37 To service the release button (37) and the compression spring (36) a long, thin tool like a flat blade screwdriver must be used. From the bottom of the base (25), insert the screwdriver into the cavity located under the release button. Press on the button detent to release.
 25,41,47 The metal clip from the handle strap (47) is to be placed around the tab on the base (25). The body grip (41) is to be placed onto the base from the top so that the cavity on the inside of the body grip slips over the tab on the base, securing the handle strap.
 - Apply a thin coat of "L" grease, No. 49-08-4170, to the pivot surface areas of the base clamp lever (39). Apply a thin coat of grease to the surface of the thru pin 39,43



Carriage (14) down until Retaining Rings (24) are just below the

internal Spring Cap threads inside the Motor Carriage.

Repair Instructions for the 5616-20/5616-29 2-1/4 H.P. Router

45-10-0081 Collet Shank – removal / installation

Removal of the Collet Shank from the Armature shaft...

Note: The Armature shaft has a 3/8" internal hex; The Collet Shank threads onto the Armature shaft.

- **Step 1** applied at the time of assembly, mild heat to the Collet Shank will soften Loctite[®] Threadlocker and will aide in the disassembly. Care should be taken with a heat gun, not to damage the seal of the Ball Bearing or Contamination Shield.
- **Step 2** to hold the Armature **securely from turning**, pass a 3/8" t-handle Hex Key through the Collet Shank and into the Armature's 3/8" internal hex.



Hex Key

Step 3 using the Router's standard equipment Forged 1-1/8"

Open End Wrench on the external hex of the Collet

Shank, turn the Collet Shank counter-clockwise of to remove.

Installation of the Collet Shank to the Armature shaft... torque specification of the Collet shank to the Armature shaft is **16.5 ft-lbs** [vigorously hand-tight]...

Installation of the Collet Shank [45-10-0081] for a 5616-20/5616-29 Body Grip Router can best be accomplished by using a 3/8" t-handle Hex Key, a 1-1/8" Crowfoot Wrench and a Torque Wrench.

- Step 1 apply two drops of Loctite® 'Blue' 242® or 243 Oil Tolerant, Threadlocker or equivalent, 180° apart, to threads of the Armature shaft before threading the Collect Shank onto the Armature... care should be taken not to get tread locking sealant on the ball bearing journal of the Armature shaft.
- **Step 2** pass a 3/8" t-handle Hex Key through the Collect Shank and into the Armature's 3/8" internal hex to hold the Armature securely from turning.
- Step 3 using a 1-1/8" Crowfoot Wrench and a Torque Wrench combination turn the 1-1/8" hex of the Collet Shank in a clockwise ℧ direction until tight and the specified minimum of 16.5 ft-lbs of torque is reached.

