

SERVICE PARTS LIST

BULLETIN NO. 54-37-0175

SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS

3.5 H.P. ROUTER

CATALOG NO. 5625-20/5625-29 SERIAL NI IMBER 395A

REVISED BULLETIN DATE Apr. 2013

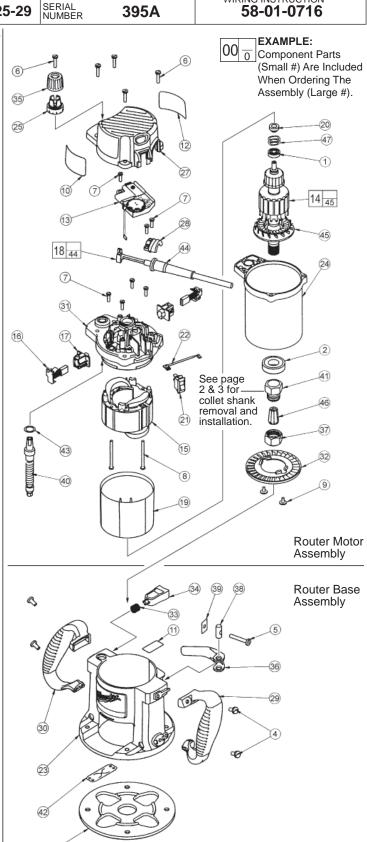
WIRING INSTRUCTION 58-01-0716

FIG. 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 8 19 20 1 22 3 24 25 6 27 8 29 30 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	PART NO. 02-04-0852 02-04-2006 06-81-0025 06-82-5338 06-82-5514 06-82-5574 06-82-7270 06-82-7455 06-82-8865 10-25-0010 12-25-0355 12-20-5625 14-20-0050 16-70-0005 18-70-1005 22-18-0075 22-22-0030 22-64-0205 23-16-0415 23-38-0200 23-66-2280 23-94-0030 23-96-0310 31-01-0025 49-54-1026 31-15-0085 31-17-0075 31-44-0136 31-50-0120 42-42-0126 43-98-0531 44-10-0435 44-60-0095 44-66-0035 45-08-0030 45-10-0081 45-12-0015 45-88-0045 44-76-0210 22-84-0380 48-66-1010 45-88-0577 49-96-0365 49-96-0370	DESCRIPTION OF PART Ball Bearing Sall Bearing 5/16-18 x. 625 Machine Screw 1/4-20 x. 50 Slt. Pan Hd. Tapt. T-30 1/4-20 x. 1.50" Slt. Pan Hd. Tapt. T-30 10-24 x. 875" Pan Hd. Slt. Tapt. T-25 8-16 x. 625" Pan Hd. Slt. Plast. T-20 8-16 x. 2.38" Pan Hd. Slt. Plast. T-20 10-32 x. 43" Pan Hd. Tapt. Sems T-25 Dial Position Label Nameplate Service Nameplate Kit Electronic Feedback Module Armature Field Brush Assembly Brush Tube Assembly Cord Set Assembly Field Insulator Tachometer Rocker Switch Leadwire Assembly Base Motor Housing Depth Scale Sub Base Motor Cover Cord Clamp Right Handle Left Handle Motor Frame Contamination Shield Compression Spring Release Button Depth Knob Base Clamp Lever Collet Nut Thru Pin Wear Plate Depth Shaft Assembly Collet Shank (See reverse side for servicing) Dust Shield Washer Cord Protector Fan Assembly 1/2" Collet Wave Spring Washer 1-1/8" Open End Wrench (Not Shown) T-Handle Depth Adjustment Wrench (Not Shown)	(1) (1) (4) (4) (1) (5) (7) (2) (2) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1

FIG. NOTES:

- 5 Apply Blue Loctite® sealant to base lever clamp screw (5). Apply to bottom 1/4" to 1/2" of screw threads.
- 14 Apply Blue Loctite® sealant to armature shaft threads (14).
 Apply 1 to 3 drops in the center portion of thread length area. Internal cone surface must remain free of Loctite®.
- 5,36 Clamping force for the base clamp lever (36) 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.
- 23,33,34 To service the release button (34) and the compression spring (33) a long, thin tool like a flat blade screwdriver must be used. From the bottom of the base (23), insert the screwdriver into the cavity located under the release button. Press on the button detent to release.
- 36,38 Apply a thin coat of "L" grease, No. 49-08-4170, to the pivot surface areas of the base clamp lever (36). Apply a thin coat of grease to the surface of the thru pin (38).
- 41 Tighten collet shank (41) to at least 200 in-lbs. Apply Blue Loctite® sealant (Reference note on fig. 14).

MILWAUKEE ELECTRIC TOOL CORPORATION 13135 W. LISBON RD., BROOKFIELD, WI 53005 Drvg. 7

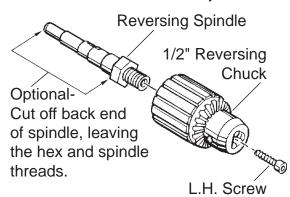


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45-10-0081 Collet Shank – removal / installation (For tools with armatures shafts that <u>do not</u> have a 3/8" internal hex)

Removal or installation of the Collet Shank (fig. 41) for a 5625 Router can best be accomplished by using a service tool fashioned from a 1/2" drill reversing spindle, a reversing 1/2" 3 jaw chuck and a left hand reversing spindle screw. Assemble the three pieces together; secure the assembly together by applying Loctite® or an equivalent thread locking adhesive to the left hand screw. Optional, remove or cut the back end of the spindle off, as pictured below, leaving only a 11/16" hex nut.



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

- **Step 1** Remove the rear commutator Ball Bearing (fig. 1) from the Armature (fig. 14).
- Step 2 Attach the '3-Jaw Chuck' service tool to the armature shaft, being sure that the jaws grip the shaft beyond the ball bearing journal. The jaws of the '3 Jaw Chuck' should be in contact with the back of the armature commutator. To keep chuck jaws from spinning on the shaft, tighten, turning chuck key in all three holes of the chuck body. CAUTION!

 Do not grip the rear ball bearing journal of the armature shaft.
- **Step 3** Clamp the hex of the service tool securely into a vise.
- **Step 4** Use a 1-1/8" hex socket or box wrench on the hex of the collet shank. Turn the collet shank counterclock wise to remove.

Installation of the Collet Shank to the Armature Shaft... torque specification of the Collet Shank to the armature shaft is 200 in-lbs / 16.5 ft-lbs (vigorously hand-tight)...

- **Step 1** Attach the '3 Jaw Chuck' service tool to the armature shaft as described in step 2 above. Clamp the hex of the '3 Jaw Chuck' service tool into a vise.
- Step 2 Using a 1-1/8" hex socket and a in-lbs or ft-lbs torque wrench, turn the 1-1/8" hex of the Collet Shank in a clockwise direction until tight and the specified torque is reached.

The reverse is an optional method: Clamp the 1-1/8" hex of the Collet Shank in a vise. Use an 11/16" hex socket and torque wrench on the 11/16" hex of the '3 Jaw Chuck' service tool to tighten the assembly to specification.





Repair Instructions for the 5625-20,-29 3-1/2 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.
- 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 U to remove.



3/8" t-handle Hex Key

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 5625-20,-29 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 thread 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 U direction until tight and the specified minimum of 16.5 ft-lbs of torque is reached.



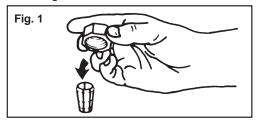
1-1/8" Crowfoot Wrench



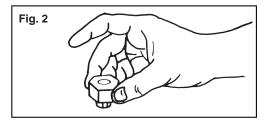
Collets

The collet must be attached to the collet nut before it is put into the collet shaft. Be sure that the size of the collet matches the size of the bit shank being used. If the wrong size bit shank is used, the collet may break. For attaching or detaching the collet nut to the collet, follow the illustrated instructions.

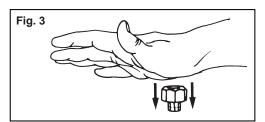
Attaching Collet to Collet Nut



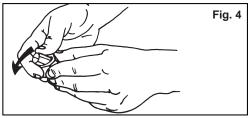
To assemble, place the narrow end of the collet on an even surface. Take the nut and place it over the collet (Fig. 1).



Position nut squarely over collet with the smaller opening of the nut facing up (Fig. 2).



Snap nut and collet together by firmly applying downward pressure into assembly with palm of hand (Fig. 3).



To remove collet from nut, hold nut firmly with one hand and press the collet to one side with the other hand (Fig. 4).