

## SERVICE PARTS LIST

#### BULLETIN NO. 54-37-0175

|  |   |  |   |   | / .  |    | -    |   | 7-0175                 |
|--|---|--|---|---|--|----|------|---|------------------------|
|  |   |  | SPECIFY CATALOG NO. AND SERIAL NO. WHEN ORDERING PARTS<br>3.5 H.P. ROUTER   |   |  |    |      | REVISED BULLETIN                            | DATE<br>Aug. 202       |
|  |   | -  | CATALOG NO  |   |  |    | 395A | WIRING INSTRU<br>58-01-0                    | CTION<br>716           |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | 81-0025<br>82-5338<br>82-5514<br>82-574<br>82-7270<br>82-7455<br>82-8865<br>25-0010<br>25-0355<br>20-5625<br>20-0050<br>70-1005<br>70-1005<br>70-1005<br>70-1005<br>70-1005<br>70-1005<br>70-1005<br>70-1005<br>70-1005<br>70-1005<br>70-1005<br>70-1005<br>70-0005<br>70-1005<br>70-005<br>70-005<br>70-005<br>70-005<br>70-005<br>70-005<br>50-0110<br>01-0025<br>54-1026<br>15-0085<br>17-0075<br><br>50-0120<br>55-0015<br>50-4005<br>42-0126<br>98-0531<br>10-0435<br>40-0095<br>66-0035<br>08-0035<br>08-0035<br>08-0035<br>12-0015<br>88-0045<br>76-0210<br>84-0380<br>66-1010<br>84-0380<br>66-1010 | Ball Bearin<br>Ball Bearin<br>5/16-18 x.<br>1/4-20 x.5.<br>1/4-20 x.5.<br>1/4-20 x.5.<br>1/4-20 x.1.<br>10-24 x.8:<br>8-16 x.2.3:<br>10-32 x.4:<br>Dial Positio<br>Nameplate<br>Service Na<br>Electronic<br>Armature<br>Field<br>Brush Assi<br>Brush Tub<br>Cord Set A<br>Field Insul<br>Tachomete<br>Rocker Sw<br>Base<br>Motor Hou<br>Depth Sca<br>Sub Base<br>Motor Hou<br>Depth Sca<br>Sub Base<br>Motor Cov<br>Cord Clarr<br>Right Handl<br>Motor Frar<br>Contaminas<br>Release B<br>Depth Kno<br>Base Clan<br>Collet Nut<br>Thru Pin<br>Wear Plate<br>Depth Sha<br>Collet Sha<br>Collet Sha<br>Collet Sha<br>Collet Shae<br>Cord Prote<br>Fan Assen<br>Cord Prote<br>Fan Assen<br>Cord Prote<br>Fan Assen<br>Cord Prote<br>Sate Collet Shae<br>Cord Prote<br>Sate Collet Shae<br>Cord Prote<br>Sate Collet Shae<br>Cord Prote<br>Sate Collet Shae<br>Cord Prote<br>Sate Collet Shae<br>Collet Shae<br>Cord Prote<br>Sate Collet Shae<br>Collet Shae<br>Cord Prote<br>Sate Collet Shae<br>Collet Shae<br>Coll | TION OF PART<br>ng<br>10<br>625 Machine Screw<br>10 Sit. Pan Hd. Tapt.<br>50" Sit. Pan Hd. Tapt.<br>50" Sit. Pan Hd. Sit. Plas<br>8" Pan Hd. Sit. Plas<br>9" Pan Hd. Sit. | /<br>T-30<br>pt. T-30<br>t. T-25<br>t. T-20<br>ms T-25<br>for servicing | QTY.<br>(1)<br>(1)<br>(4)<br>(4)<br>(5)<br>(2)<br>(2)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1 |    |      | DO D Compor<br>(Small #<br>When O<br>Assemb |                        |
| 49-9   | 96-0365<br>96-0370<br>44-0250   | T-Handle D<br>Handle Se  | en End Wrench (Not<br>epth Adjustment Wrer<br>ervice Kit  | ich (Not Sho  | (2)<br>wn) (1)<br>(1)  |    |      | /   | Assembly               |
| <b>FIG</b> .<br>5                                    |   |  | alant to base lever o<br>1/2" of screw threa  |   | v (5).   |    |      |   | Router Bas<br>Assembly |
| 14   | Apply 1 to 3  | drops in th  | alant to armature sh<br>ne center portion of<br>face must remain fr   | thread leng   | thí  |    |      | 5<br>36                                     |                        |
| 5,36   | 5,36 Clamping force for th<br>with base clamp scre<br>10-20 lbs. force to cl<br>Motor unit must be in   |  | (5). Tighten the scr<br>the lever to the lo   | ew using<br>cked positio  |  | 30 |      | 29  |                        |
| 23,33,34   | To service the release<br>spring (33) a long, thin<br>must be used. From th<br>screwdriver into the ca<br>button. Press on the bu   |  | tool like a flat blade<br>tool like a flat blade<br>bottom of the bas<br>wity located under th  | e screwdrive<br>e (23), inse<br>ne release                              | er   | 23 |      |   |                        |
| 36,38  | pivot surfac  | e areas of   | ' grease, No. 49-08-<br>the base clamp leve<br>he surface of the the  | er (36). Appl   | e<br>ly a  | 42 |      | 48 29 30                                    |                        |
| 41   |   | •  | 1) to at least 200 in   | • • • /   | Blue   | 26 | ß    |   |                        |
|  |   |  | nilwaukeetool.co<br>DKFIELD, WI 5300<br>Drwg  | 05  |  | 3  | £ ₫  |   |                        |

# 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<sup>®</sup> 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.

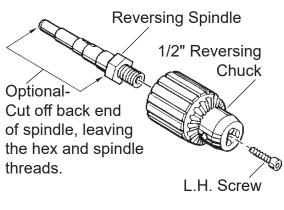
## Removal of the Collet Shank from the Armature Shaft...

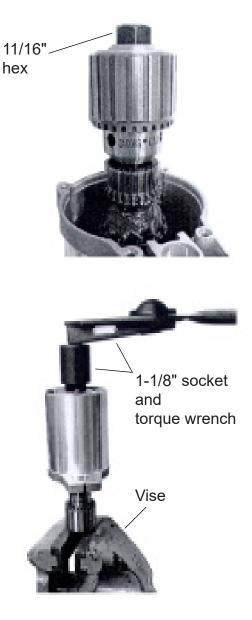
- **Step 1** Remove the rear commutator Ball Bearing (fig. 1) from the Armature (fig. 14).
- Step 2 Attach the '3-Jaw Chuck' service tool to the armature shaft, being sure that the jaws grip the shaft beyond the ball bearing journal. The jaws of the '3 Jaw Chuck' should be in contact with the back of 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 counter-clock 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<sup>®</sup> 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 ♂ 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 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<sup>®</sup> 'Blue' 242<sup>®</sup> 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 ひ direction until tight and the specified minimum of 16.5 ft-lbs of torque is reached.



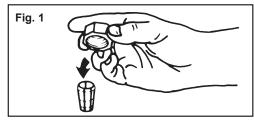
1-1/8" Crowfoot Wrench



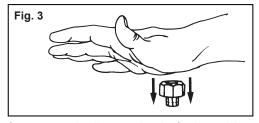
#### Collets

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.

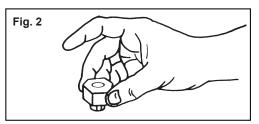




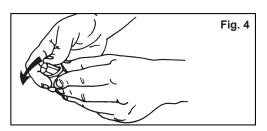
To assemble, place the narrow end of the collet on an even surface. Take the nut and place it over the collet (Fig. 1).



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



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



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



3/8" t-handle Hex Key