POWER FEED INSTALLATION Model M-4850 Cross Feed RB1 Mill



REFERENCE DRAWINGS ENCLOSED

NA-5444	Bevel Gear Installation
NB-6234	Power Feed Installation
NB-1538	Limit Switch Installation
ND-6293	Type 150 Servo Power Feed
ND-6292	Type 140 Servo Power Feed
0800-80001	Servo Power Feed Operation

PREPARATION

- **Step 1**: Gather together the following items that you will need to complete this installation.
 - a) 3/8" electric hand drill
 - b) 1/8" drill, #7 drill
 - c) 1/4-20 tap
 - d) 9/32" transfer punch
 - e) flat file
 - f) 3/4" socket wrench
 - g) set of inch hex wrenches
 - h) grease
 - i) clean shop rag
- Step 2: Remove the nut, handcrank, dial assembly and key from the lead screw.
- **Step 3**: Remove bearing retainer from end bracket.

POWER FEED INSTALLATION

- *Step 1:* Slide the bearing race into the adaptor.
- Step 2: Slide the adaptor and bearing race onto the lead screw. Using the adaptor as a template, spot (3) three holes so the feed sits 45° clockwise from the vertical as shown on drawing #NB-6234.
- Step 3: Remove the adaptor and bearing race. Drill and tap 1/4-20 x 3/8" deep (3) three places.
- Step 4: Secure the adaptor to the end bracket using (3) three 1/4-20 x 1-1/2" long cap screws.
- Step 5: Screw the shaft extension onto the lead screw and tighten.
- Step 6: Using the hole provided as a pilot, drill 1/8" diameter through and pin in place using the 1/8" x 5/8" long roll pin. File smooth.
- *Step 7:* Slide the spacer and bearing race onto the lead screw.

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Step 8: Secure the Power Feed adaptor using 1/4-20 x 1-1/4" long cap screws.

BEVEL GEAR INSTALLATION

Step 1: Follow the drawing NA-5444 for installation of the bevel gear. Adjust for proper gear backlash.

DIAL AND HANDWHEEL INSTALLATION

- Step 1: After getting the proper gear backlash, the dial should be adjusted to obtain .005" spacing from the face of the power feed. This is important in order to keep chips from entering the gear train. Three plastic (.030" thick) and five brass (.005" thick) washers are provided for this. Shim as required.
- Step 2: Install the Woodruff key and handcrank.

LIMIT SWITCH INSTALLATION

Install the limit switch as shown on the installation drawings.

OPERATION

See separate Servo Power Feed Operation sheet. Plug the unit into a source of 120 volt, 50 or 60 cycle power.

WARNINGS

Check hand crank clearances before operation.

Clearances between the surfaces of the hand crank and the non-moving parts of the equipment on which the hand crank is installed must be at least one-fourth inch (1/4") to prevent injury. Modification of existing hand crank or replacement may be required.

Do not operate without proper clearance!

Prevent contact during fast traverses.

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