REFERENCE DRAWINGS ENCLOSED

NA-5444	Bevel Gear Installation
NB-2265	Power Feed 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) #7 drill, 1/8" drill
 - c) 1/4-20 tap
 - d) 9/32" diameter transfer punch
 - e) flat file
 - f) 3/4" socket wrench
 - g) set of inch hex wrenches
 - h) grease
 - i) clean shop rag
- **Step 2**: Move the table to the extreme left.
- **Step 3**: Remove the nut, handle and dial assembly from the right-hand end of the table.
- Step 4: Locate the tapped holes in the bearing retainer end cap by sliding #1178 bearing race onto the lead screw to the shoulder. Slide the adaptor #0771 onto the bearing race against the bearing bracket. Transfer the three counterbored hole locations through the adaptor to the end bracket using a 9/32" diameter transfer punch.
- Step 5: Remove the adaptor and bearing race from the lead screw and tap 1/4-20 to 3/8" deep minimum thread into the end cap three places.
- Step 6: Add #2267 shaft extension and tighten.
- Step 7: 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.

POWER FEED INSTALLATION

- Step 1: With the table in the extreme left-hand position, install the adaptor with the three 1/4-20 x 1/2" socket head cap screws.
- *Step 2*: Slide the two spacers and bearing race onto the lead screw.

Step 3: Slide the Power Feed onto the bearing race and push flush to the end of the adaptor. Secure with two 1/4-20 x 1" long socket head cap screws.

BEVEL GEAR INSTALLATION

- Step 1: Follow the drawing NA-5444 for installation of the bevel gear. Adjust for proper gear backlash.
- Step 2: One spacer may be shortened to allow proper shimming of the bevel gear.

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: In the following sequence, put on the dial locking nut, place the 5 mm Woodruff key in the shaft extension, slide the handcrank onto shaft extension, followed by 1/2" S.A.E. washer, and secure with the 1/2-20 locking nut.

LIMIT SWITCH INSTALLATION

Refer to drawing NB-2265 for modifications and installation of the limit switch.

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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