POWER FEED INSTALLATION Model M-0880 Knee Feed



Ex-Cell-O 602

REFERENCE DRAWINGS ENCLOSED

NA-5444	Bevel Gear Installation
NC-0792	Limit Switch Installation
NB-1810	Power Feed Installation
ND-6292	Type 140 Servo Drive
0800-80001	Servo Power Feed Operation

PREPARATION

- Step 1: Remove the handcrank, clutch, and dial from the lead screw.
- Step 2: Rework the dial per drawing ND-1810 detail A.

Power Feed Installation

- Step 1: Slide the bearing race onto the lead screw.
- Step 2: Slide the power feed onto the bearing race. With the unit square to the dial pad, transfer the two hole centers to the dial pad. Remove the power feed and bearing race.
- Step 3: Drill and tap two 1/4-20 x 1/2" deep holes into the dial pad.
- Step 4: Replace the bearing race.
- Step 5: Install the power feed using two 1/4-20 x 1" long socket head cap screws.

BEVEL GEAR INSTALLATION

- Step 1: Follow drawing NA-5444 for installation of the bevel gear. Adjust for proper gear backlash.
- □ NOTE Skip the portion of NA-5444 step 2 referring to shimming the bevel gear.

Extra care should be taken in NA-5444 step 3 since there is no woodruff key for locking the bevel gear, spacer, and handcrank to the shaft.

- Step 3: Grease the gear as noted in NA-5444 step 4.
- Step 4: After obtaining the proper backlash, with the handwheel and spacer in place, drill a 1/8 diameter hole through the bevel gear and pin with the 1/8 diameter x 1-1/4" long roll pin.

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DIAL AND HANDWHEEL INSTALLATION

- *Step 1:* Remove the handwheel and spacer.
- Step 2: Slide the modified dial onto the bevel gear and shim to obtain .005" spacing from the face of the power feed. This is important in order to keep chips from entering the gear train. Four washers are provided for this, two solid and two laminated. Shim as required.
- Step 3: Replace the spacer and the hand wheel. Pin to the lead screw using the $3/16 \times 1-1/2$ " roll pin.

LIMIT SWITCH INSTALLATION

Step 1: See limit switch installation drawing NC-0792 enclosed.

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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