# POWER FEED INSTALLATION <br> Model M-225 Table Feed Bridgeport Mill <br> Replaces Bridgeport Gear Box Feed 

## REFERENCE DRAWINGS ENCLOSED

NA-5444
NB-0480
ND-6293
ND-6292
0800-80001

Bevel Gear Installation
Power Feed Installation
Type 150 Servo Drive
Type 140 Servo Drive
Servo Power Feed Operation

## PREPARATION

Step 1: Move the table to the extreme left.
Step 2: Remove the nut, crank, dial, key, and power feed unit, including slotted bearing sleeve and cotter (shear) pin.

Step 3: Clean the lead screw with sandpaper to remove any burrs and facilitate installation of ball bearing and sleeves.

## POWER FEED INSTALLATION

Step 1: Install on the lead screw in the following sequence: spacer \#0477 (7/16" long) 77R10 bearing, sleeve \#0478 (4.72" long). Add the adapter \#0479 using the original screws. Tap in place over the bearing.

Step 2: Add shims against the sleeve \#0478 to the dimension shown on drawing ND-0480.

Step 3: Add the bearing race.
Step 4: Install power feed using the $1 / 4-20 \times 1.0^{\prime \prime}$ 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.

## DIAL AND HANDCRANK INSTALLATION

Step 1: After getting the proper 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. Two plastic (. $030^{\prime \prime}$ thick) and five brass (. $005^{\prime \prime}$ thick) washers are provided for this. Shim as required.

Step 2: In the following sequence: replace key (if removed), dial, and dial locking nut, slide handle in place and tighten with $1 / 2-20$ lock nut.

## LIMIT SWITCH INSTALLATION

Step 1: Remove the standard table stop pieces and install the table stop pieces furnished. Put the standard stops back in a position to prevent feed stops from being set beyond extreme table travel.

Step 2: Remove the two cap screws holding the T-shaped table stop. Place the limit switch spacers into the T-stop and install limit switch using 3/8-16 x 1-1/4" long socket head cap screws.

Step 3: The T-stop is retained to act as a positive stop where required for manual operation.
$\square$ NOTE For proper operation, the electrical limit switch should be engaged . 4 inch before the mechanical stop to allow for coasting of the table. The T-stops are often not symmetrical and may need to be ground to obtain proper operation.

Step 4: Put the cable clamp on the cable and secure to the right-hand chip scraper screw.

## 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 nonmoving 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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