# POWER FEED INSTALLATION Model M-5600 Table Feed Johnford MV54



### REFERENCE DRAWINGS ENCLOSED

NA-5444	Bevel Gear Installation
NB-6721	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) soft hammer
  - b) 3/4" socket wrench
  - c) set of inch hex wrenches
  - d) grease
  - e) 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: Remove the four cap screws holding the bearing housing in place.
- **Step 5**: Using a soft hammer, tap the bearing housing off. Clean the end surface of the table.

### POWER FEED INSTALLATION

- Step 1: With the table in the extreme left-hand position, install the adaptor #0239 with the four cap screws. (On some mills the drive pin holes do not line up with the adaptor. Remove pins. The four cap screws will suffice.)
- *Step 2:* Slide the 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 (2) 1/4-20 x 1.0" 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.

### DIAL AND HANDCRANK INSTALLATION

Step 1: After getting the proper gear backlash, the dial should be adjusted to obtain .005" spacing from the face of the power

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- 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 replace key if removed, dial and dial locking nut. Slide handle in place and tighten with locking nut.

### LIMIT SWITCH INSTALLATION

- Step 1: Remove the stop pieces and install the stop pieces furnished. Put standard stops back in a position to prevent feed stops from being set beyond extreme table travel.
- Step 2: Remove two cap screws holding the T-shaped table stop. Place limit switch spacers into the tee stop and install the limit switch using 3/8-16 x 1-1/4" cap screws.
- Step 3: The T-stop is retained to act as a positive stop where required for manual operation.
- → **NOTE** For proper electrical operation the limit switch should be engaged .40 inch before the mechanical stop to allow for coasting of the table. The T-stop is often not symmetrical and may need to be ground for 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 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.

## SERVO PRODUCTS COMPANY

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