# POWER FEED INSTALLATION Model M-4350 Cross Feed Sharp HMV



# REFERENCE DRAWINGS ENCLOSED

NA-5444	Bevel Gear Installation
NB-5617	Power Feed Installation
ND-6293	Type 150 Servo Drive
ND-6292	Type 140 Servo Drive
0800-80001	Servo Power Feed Operation

# **PREPARATION**

- Step 1: Remove the nut, handcrank, dial, dial hub, and key from the lead screw.
- Step 2: Slide the bearing race onto the shaft.
- **Step 3**: Slide the adaptor onto the lead screw and over the bearing race.
- Step 4: Transfer the mounting holes from the adaptor to the bearing housing. Drill and tap 1/4-20 by 3/4" deep. (Avoid contaminating the bearing.)
- Step 5: Remove and clean all parts thoroughly and lubricate with grease.
- **Step 6**: Slide the bearing race onto the lead screw. Then slide the adaptor over the race and secure to the bearing housing with the 1/4-20 by 1.0" long socket head cap screws.
- Step 7: Remove the bearing race.

# POWER FEED INSTALLATION

- Step 1: Screw the shaft extension onto the lead screw and tighten.
- Step 2: Using the hole provided as a pilot, drill 1/8" diameter through the lead screw and pin the shaft extension in place using the 1/8 diameter x 5/8" long roll pin. File smooth.
- **Step 3**: Slide the spacer and bearing race onto the lead screw.
- Step 4: Secure the power feed to the adaptor using the 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.

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#### 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" 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 and insert the woodruff key. Slide the Sharp handcrank in place. Secure with the 1/2-20 lock nut.

# **LIMIT SWITCH INSTALLATION**

Step 1: See the limit switch installation on drawing ND-5617.

# **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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