# POWER FEED INSTALLATION Model M-3750 Cross Feed Alliant, Sharp First, and others



# **REFERENCE DRAWINGS ENCLOSED**

NA-5444	<b>Bevel Gear Installation</b>
NB-5489	Power Feed Installation
NB-1538	Limit Switch 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, and key from the lead screw.

### POWER FEED INSTALLATION

- *Step 1:* Place the adaptor in the cavity of the bearing carrier.
- Step 2: Using the adaptor as a template, spot four holes.
- Step 3: Drill and tap 1/4-20 four places.
- **NOTE** Due to the irregularities in a cast surface, take special care to be sure that the adaptor is centered and parallel to the lead screw. Shim as required.
- Step 4: Secure the adaptor using four 1/4-20 x 1" cap screws.
- Step 5: Screw the shaft extension onto the lead screw and tighten.
- Step 6: Using the hole provided as a pilot, drill a 1/8 diameter hole through the shaft extension.
- Step 7: Pin the shaft extension to the lead screw with the 1/8 diameter x 5/8" long roll pin. File smooth.
- Step 8: Slide the bearing race onto the lead screw.
- Step 9: Mount the power feed to the adaptor using two 1/4-20 x 1" cap screws.

#### **BEVEL GEAR INSTALLATION**

- Step 1: Replace the key and slide the bevel gear in place.
- Step 2: 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. Plastic and metal washers are provided for this. Shim as required.
- Step 2: Put on the dial locking nut.
- Step 3: Install the modified #7 woodruff key in the shaft extension.
- Step 4: Slide the handcrank onto the end of the lead screw and tighten with the 1/2-20 lock nut.
- □ NOTE Due to the cast surface of the cavity in the bearing carrier, the shoulder of the lead screw may stick out past the handcrank. If so, add a washer so that the locking nut is against the handcrank.

#### LIMIT SWITCH INSTALLATION

Step 1: See limit switch installation on drawing NB-1538 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 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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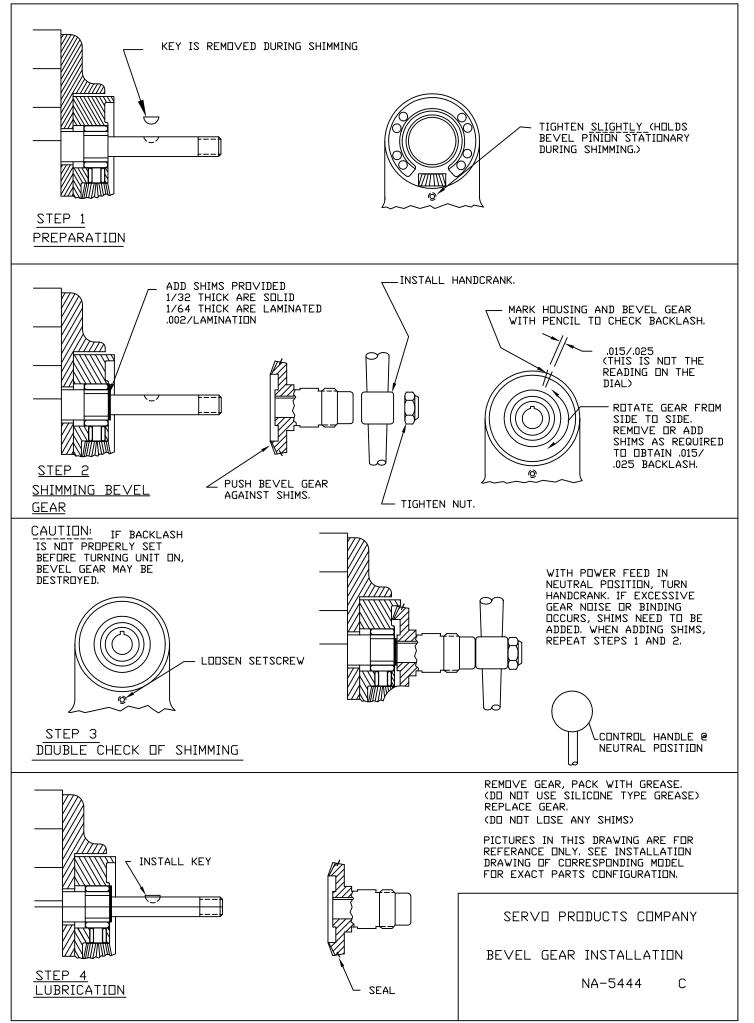
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