POWER FEED INSTALLATION Model M-9109 Table Feed Kent 2S



REFERENCE DRAWINGS ENCLOSED

NA-5444 NB-57215 ND-6293 ND-6292 0800-80001 Bevel Gear Installation Power Feed Installation Type 150 Servo Drive Type 140 Servo Power Feed Servo Power Feed Installation

PREPARATION

- Step 1: Move the table to the extreme left.
- Step 2: Remove the nut, handle, dial assembly, and key from the lead screw. Save for installation later.
- Step 3: Remove the bearing retainer. Save the screws for installation later.
- *Step 4:* Screw the shaft extension onto the lead screw.
- Step 5: Slide the bevel gear onto the lead screw to ensure proper fit. Then remove the bevel gear.
- Step 6: Drill 1/8 diameter hole through the shaft using the hole provided in the shaft extension as a pilot. Pin the shaft extension to the lead screw using the 1/8 diameter x 5/8 long roll pin. File smooth.

POWER FEED INSTALLATION

- Step 1: Using the existing screws, secure the bearing retainer #6544.
- Step 2: Slide the shaft spacer #6740 and bearing race #0470 onto the lead screw.
- Step 3: Slide the power feed over the bearing race and secure using the 1/4-20 x 1" long socket head cap screws.

BEVEL GEAR INSTALLATION

- Step 1: Use the 3 mm parallel key you saved before for the bevel gear installation.
- 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 to keep chips from entering the gear train. Four washers are provided for this, two solid and two laminated. Shim as required.
- Step 2: In the following sequence put on the dial and the dial locking nut #2255. Insert the 3 mm key provided in the shaft extension and slide the handle in place. Tighten with the 1/2-20 locking 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 bracket. Place the short spacers into the counterbored holes in the T-stop. Place the limit switch assembly on the spacers and locate using the two 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.
- □ 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 using 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.

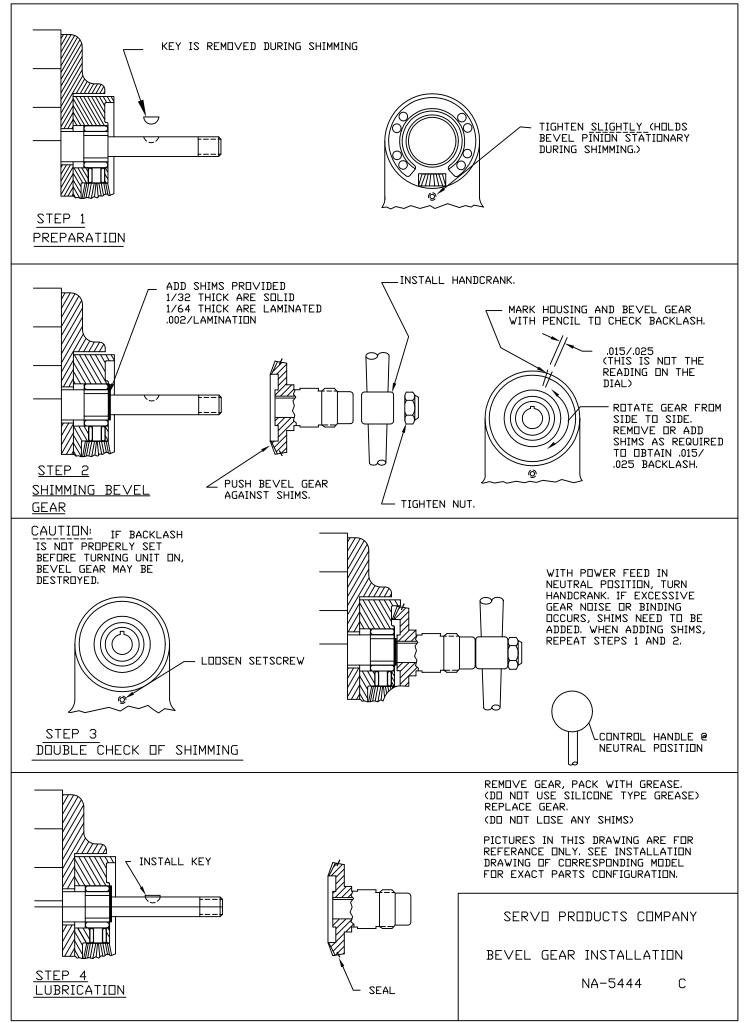
Clearances between the surfaces of the hand crank and the nonmoving parts of the equipment on which the hand crank is installed must be at least one-fourth inch (1/4") to prevent injury. Modification of existing hand crank or replacement may be required.

Do not operate without proper clearance!

Prevent contact during fast traverses.

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