POWER FEED INSTALLATION Model M-2750 Cross Feed Hartford, Newport, and others



REFERENCE DRAWINGS ENCLOSED

NA-5444	Bevel Gear Installation
NB-3735	Power Feed Installation
ND-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, crank, dial assembly, and key from the lead screw.
- Step 2: Slide the bearing race onto the lead screw. Slide the power feed over the bearing race.
- Step 3: Line up the feed so that it sits square to the bearing housing. Using the power feed as a template, spot two holes in the bearing retainer plate.
- Step 4: Remove the power feed and bearing race.
- Step 5: Remove the four screws holding the bearing housing and then remove the bearing housing. (The lead screw can be used to jack the housing off the pins. The lead screw does not have to be removed from the mill.)
- Step 6: Drill and tap two holes $1/4-20 \ge 7/8$ " deep.
- Step 7: Put the bearing housing back onto the knee.

POWER FEED INSTALLATION

- *Step 1:* Screw the shaft extension to the lead screw and tighten.
- Step 2: Using the hole provided as a pilot, drill 1/8" diameter through. Pin the extension in place using the 1/8 diameter x 5/8" long roll pin. File smooth.
- Step 3: Replace the bearing race onto the lead screw.
- Step 4: Slide the power feed over the bearing race and secure using 1/4-20 x 1-1/2" long socket head cap screws provided.

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" 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, place the #7 woodruff key in the shaft extension, and slide the handcrank onto the shaft extension. Secure using the 1/2-20 lock nut provided.
- **NOTE** A smaller diameter handcrank is supplied in order to have clearance between the cross feed crank and the knee crank.

LIMIT SWITCH INSTALLATION

Step 1: See the limit switch installation 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.

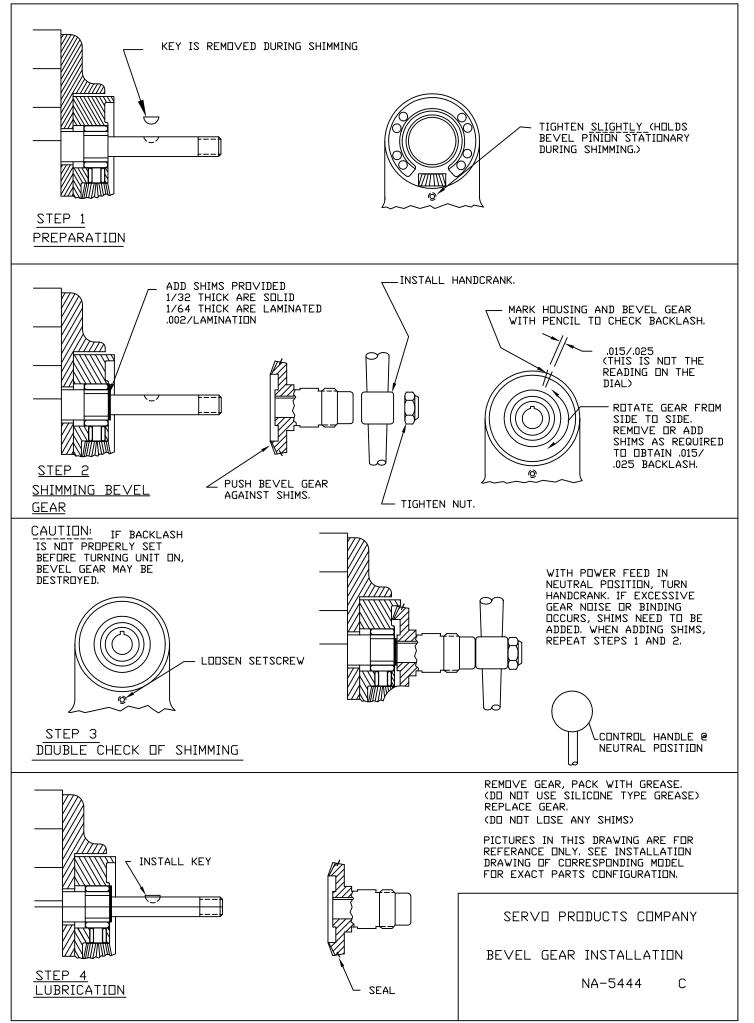
Clearances between the surfaces of the hand crank and the nonmoving parts of the equipment on which the hand crank is installed must be at least one-fourth inch (1/4") to prevent injury. Modification of existing hand crank or replacement may be required.

Do not operate without proper clearance!

Prevent contact during fast traverses.

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