POWER FEED INSTALLATION Model M-9530 Cross Feed Kalamazoo and others



REFERENCE DRAWINGS ENCLOSED

| NA-5444 | Bevel Gear Installation |
|------------|----------------------------|
| NB-58331 | 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: Move the saddle to the front of the mill.
- Step 2: Remove the nut, handle, dial assembly, and key from the lead screw. Save the key for installation later.
- Step 3: Slide the bearing race onto the lead screw.
- Step 4: Slide the adaptor over the bearing race and against the front of the knee.
- Step 5: Orient and transfer three mounting holes from the adaptor to the existing bearing retainer. Remove the bearing race.
- Step 6: Remove the bearing retainer to drill and tap 1/4-20 thru. Then reinstall.
- Step 7: Screw the shaft extension onto the lead screw.
- Step 8: Slide the bevel gear onto the lead screw to ensure proper fit. Then remove the bevel gear.
- Step 9: Using the hole provided as a pilot, drill 1/8" diameter through the lead screw. Pin the shaft extension to the lead screw with the 1/8 diameter x 5/8" long roll pin. File smooth.

POWER FEED INSTALLATION

- Step 1: Slide the adaptor onto the lead screw (counterbore facing outside).
- Step 2: Slide the bearing race onto the lead screw and into the adaptor for proper alignment of the adaptor.
- Step 3: Secure the adaptor to the bearing retainer using three 1/4-20 x 1" long socket head cap screws.
- Step 4: Remove the bearing race.
- Step 5: Slide the spacer and bearing race onto the lead crew.
- Step 6: Slide the power feed onto the bearing race and secure to the adaptor using two 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 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:* Put on the dial locking nut. Slide the handcrank onto the end of the shaft extension and tighten with the 1/2-20 lock nut.

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.

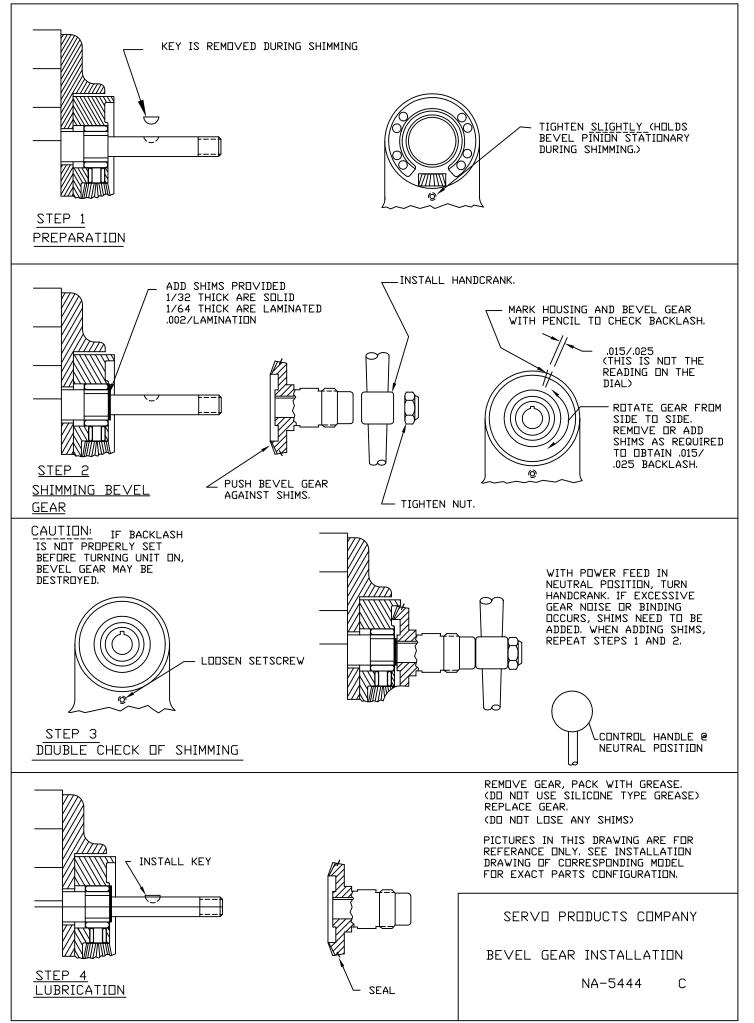
Clearances between the surfaces of the hand crank and the nonmoving parts of the equipment on which the hand crank is installed must be at least one-fourth inch (1/4") to prevent injury. Modification of existing hand crank or replacement may be required.

Do not operate without proper clearance!

Prevent contact during fast traverses.

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