

→ NOTE This Turbo Drive Table Feed is configured for mounting the feed on the right hand end of the table. The lead screw pitch is 5 turns per inch. See CAUTION below before changing anything!

CAUTION

The Turbo Drive power cable should be left **unplugged** until the drive is properly installed on the lead screw.

See the *Operation* manual to reverse the direction of travel or to change the lead screw pitch default. Turn **off** the Turbo Drive and **remove** the power plug from the wall before you attempt to change any jumpers or reverse the top housing.

WARNINGS

DO NOT install and operate this power feed without safety handwheel Servo #58923 on BOTH ends of the table. This is required to prevent injury.

Check handwheel clearances before operation.

Clearances between the surfaces of the handwheel and the nonmoving parts of the equipment on which the handwheel is installed must be at least one-fourth inch (1/4") to prevent injury.

Do not operate without proper clearance!

Prevent contact during fast traverses.

WARRANTY CAUTION

There are *NO* user-serviceable parts inside the center or bottom housings. Removal of the motor, keyboard, or bottom housing screws *voids* the warranty.

REFERENCE DRAWINGS ENCLOSED

NA-58496 NB-58622 0800-80678 Bevel Gear Installation Turbo Drive Installation Turbo Drive Operation manual

PREPARATION

Step 1: Gather together the following items that you will need to complete this installation.

- a) 3/8" electric hand drill
- b) 1/8" drill
- c) ball peen hammer & support piece
- d) flat file
- e) 3/4" socket wrench

- f) set of inch hex wrenches
- g) grease
- h) masking tape
- i) clean shop rag
- Step 2: Clean the power feed mounting area completely.
- Step 3: Remove the nut, handle, and dial assembly from the right hand end of the table. Keep the dial for reuse later.

MOUNTING HARDWARE INSTALLATION

- Step 1: Orient and install the bearing retainer #5692 such that the feed can be mounted vertically.
- Step 2: Slip the spacer #6567 followed by bearing race #1178 onto the lead screw shaft.

SHAFT EXTENSION AND TURBO DRIVE INSTALLATION

- Step 1: Screw on the shaft extension #2959 onto the lead screw and tighten.
- Step 2: Following the existing pilot hole, drill through the shaft extension using a 1/8" diameter drill.
- Step 3: Support the other side of the hole with a heavy piece of metal and hammer in the #00564 roll pin. File smooth and clean thoroughly.
- Step 4: With the spacer coupling #6563 hanging on the two Turbo Drive mounting screws #04554, slide the Turbo Drive onto the bearing race and push against the bearing housing. Tighten the two screws.
 - *IF:* If the bearing race is not flush with the needle bearing in the unit within $\pm .05$ ", then either shim behind the race or machine the spacer to correctly locate the race.

BEVEL GEAR INSTALLATION

Step 1: Follow the drawing NA-58496 for installation of the bevel gear. Adjust for proper gear backlash.

DIAL AND HANDWHEEL INSTALLATION

- Step 1: After getting the proper gear 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. Three plastic (.030" thick) and five brass (.005" thick) washers are provided for this. Shim as required.
- Step 2: In the following sequence, install the key, dial and dial nut #2255. Slide the handwheel #58923 in place and tighten with 1/2-20 locknut #01115.

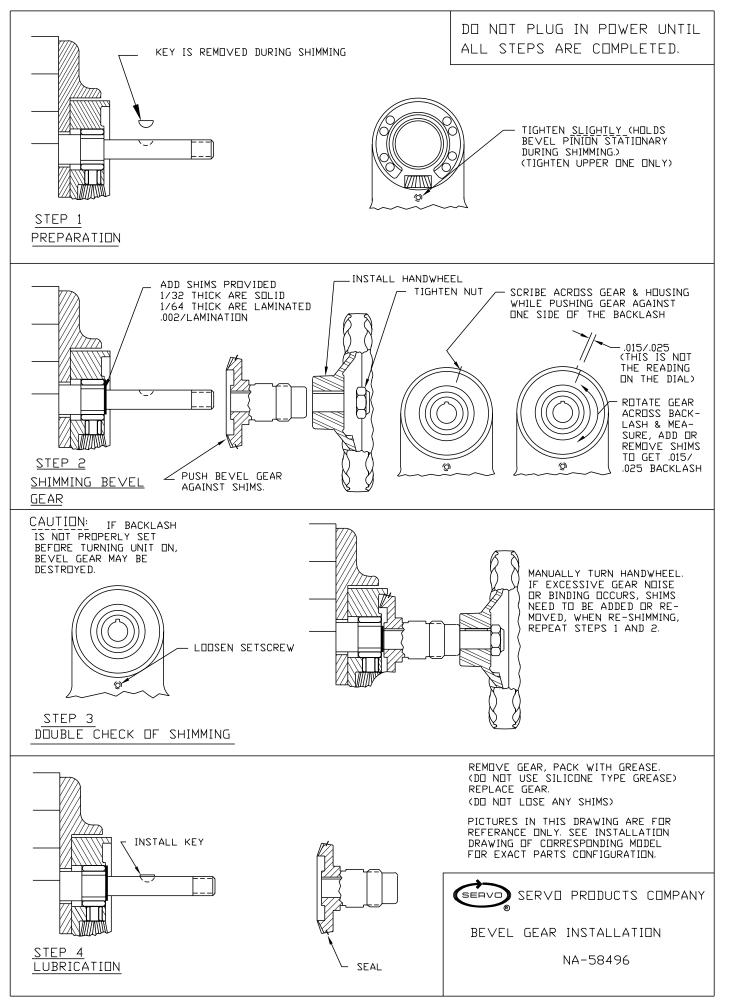
Step 3: Replace the handwheel on the left end of the table with the handwheel #58923 provided. This is required to prevent injury.

TURBO DRIVE OPERATION

See the separate **Servo Turbo Drive Operation** manual for complete operating instructions. Plug the unit into a properly grounded threewire outlet supplying 110 volt single phase 50/60 Hz 6 amp power. Turn the control switch ON and follow the instructions in the manual or on the **Quick Reference** sheet for setting limits.

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