

→ 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-58492 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) #7 drill, 11/64" drill, 3/16" drill
- c) 1/4-20 tap
- d) 9/32" diameter transfer punch
- e) ball peen hammer & support piece

- f) flat file
- g) 3/4" socket wrench
- h) set of inch hex wrenches
- i) grease
- j) masking tape
- k) 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: Slip the bearing race #0470 onto the lead screw shaft.
- Step 2: Slip the adaptor #57237 over the bearing race and slide both together to locate the adaptor against the table bracket.
- Step 3: Line up the mounting holes on the adaptor such that the power feed can be mounted vertically. Using a 9/32" diameter transfer punch, transfer the three mounting holes to the bracket.
- Step 4: Remove the adaptor and the bearing race. Mask the bearing in the bracket. Then drill and tap 1/4-20 UNC threads to 1/2" deep. Clean thoroughly. Do not use air.
- Step 5: Lubricate the shaft with a light coat of grease. Slip the bearing race back onto the shaft. Then slip the adaptor over the race to center it with the shaft. Keeping the portion of the race sticking out beyond the counterbored end of the adaptor so that it can be removed later, slide both pieces to locate the adaptor against the table bracket. Secure the adaptor with three 1/4-20 x 1-3/8 long socket head cap screws provided. Remove the bearing race.
- Step 6: Slip spacer #0773 onto the shaft followed by spacer #1128 and the bearing race.

SHAFT EXTENSION AND TURBO DRIVE INSTALLATION

- Step 1: Screw on the shaft extension #0333 onto the lead screw and tighten.
- Step 2: Following the existing pilot hole, drill through the shaft extension using an 11/64" diameter drill. Finish the hole using a 3/16" diameter drill.
- Step 3: Support the other side of the hole with a heavy piece of metal and hammer in the #00596 roll pin. File smooth and clean thoroughly.
- Step 4: Slide the Turbo Drive onto the bearing race and push against the adaptor. Secure with two 1/4-20 x 1" long socket head cap 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

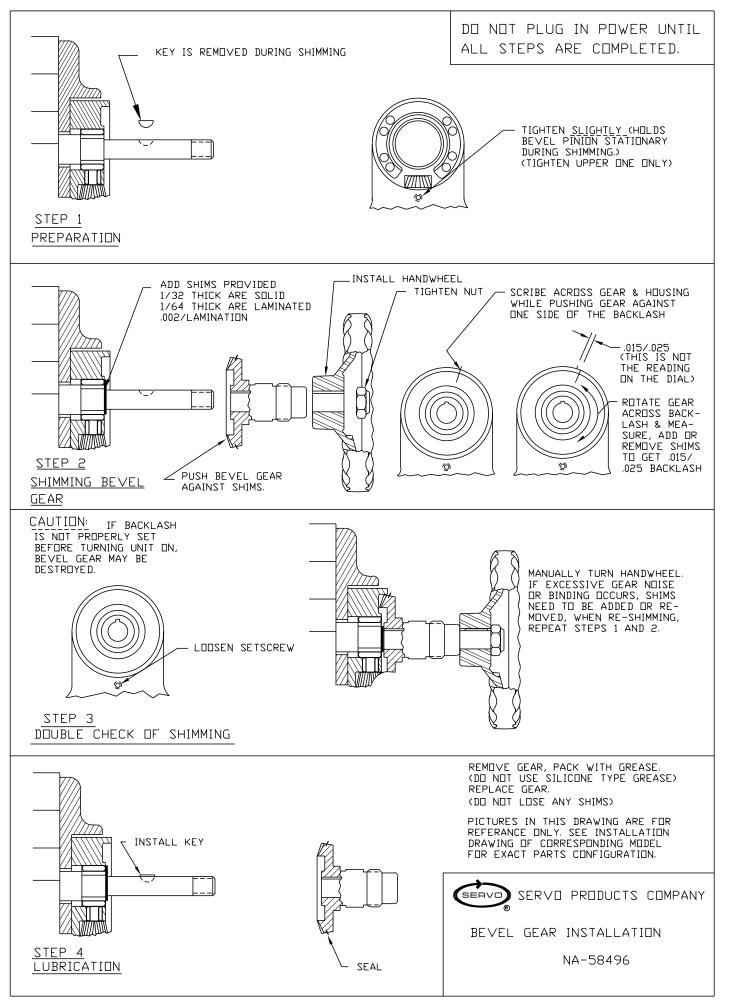
- Step 1: After getting the proper gear backlash, the dial should be adjusted to obtain .005" spacing from the face of the power feed. This is important in order to keep chips from entering the gear train. Three plastic (.030" thick) and five brass (.005" thick) washers are provided for this. Shim as 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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