POWER FEED INSTALLATION Model M-9810 Knee Feed



Acer 3VS, 3VK and others

REFERENCE DRAWINGS ENCLOSED

NA-5444 Bevel Gear Installation
NB-57220 Power Feed Installation
NC-0792 Limit Switch Installation
ND-6292 Type 140 Servo Drive

0800-80001 Servo Power Feed Operation

PREPARATION

- Step 1: Remove the drive clutch, dial, nut, and keys from the elevating jack shaft. Save the parallel key for installation later.
- Step 2: Pull the jack shaft out of the knee. *Hold inboard end up* while removing to avoid damage to the pinion gear.
- Step 3: Hold the dial hub in soft jaws and unscrew.
- Step 4: Drill and ream the end of the jack shaft .4375 diameter by 13/16" deep. The .4375 diameter must be concentric to the shaft o.d. within .002 TIR. Chamfer 1/32 x 1/2 diameter. For best results, machining should be done in a lathe.
- Step 6: Place the shaft extension onto the jack shaft. Using the hole provided as a pilot, drill 1/8" diameter through the shaft and pin the extension with the 1/8 diameter x 5/8" long roll pin. File smooth.
- Step 7: Using the bearing retainer provided, reassemble the jack shaft with the existing socket head cap screws.

POWER FEED INSTALLATION

- Step 1: Slide the bearing race in place over the shaft.
- Step 2: Slide the power feed onto the bearing race and tighten the unit using the provided 1/4-20 x 1" long socket head cap screws.

BEVEL GEAR INSTALLATION

- Step 1: Use the 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.
- Step 3: Install the provided woodruff key in the shaft extension.
- Step 4: 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 NC-0792 enclosed.

OPERATION

See separate Servo Power Feed Operation sheet. Unit will operate on either 50 or 60 cycles.

WARNINGS

Check hand crank clearances before operation.

Clearances between the surfaces of the hand crank and the non-moving 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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