POWER FEED INSTALLATION Model M-9808 Knee Feed Kent 3VK, 5VK, and others



REFERENCE DRAWINGS ENCLOSED

NA-5444	Bevel Gear Installation
NB-57233	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 key from the elevating jack shaft.
- Step 2: Remove the bearing retainer. Save the screws for installation later.
- Step 3: Pull the jack shaft out of the knee. *Hold inboard end up* while removing to avoid damage to the pinion gear.
- Step 4: Hold the dial hub in soft jaws and unscrew.
- Step 5: 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 shaft spacers onto the jack shaft.
- *Step 2:* Secure the adaptor to the bearing retainer with $1/4-20 \times 1/2$ " long socket head cap screws.
- **Step 3**: Slide the bearing race onto the lead screw.
- Step 4: Slide the power feed onto the shaft and secure to the adaptor using the provided 1/4-20 x 1" long socket head cap screws.

BEVEL GEAR INSTALLATION

- Step 1: Install the woodruff key provided and slide the bevel gear in place.
- Step 2: Follow drawing NA-5444 for installation of the bevel gear. Adjust for proper gear backlash.

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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*: 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.

SERVO PRODUCTS COMPANY

433 North Fair Oaks Avenue, Pasadena, CA 91103 USA Phone: 800.521.7359 or 626.796.2460 Fax: 626.796.3845 Web: www.servoproductsco.com Call for the location of our regional Service Centers.

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