POWER FEED INSTALLATION Model M-5980 Knee Feed Victor 380VSK or VK



REFERENCE DRAWINGS ENCLOSED

NA-5444	Bevel Gear Installation
NB-6816	Power Feed Installation
ND-6292	Type 140 Servo Power Feed
0800-80001	Servo Power Feed Operation

PREPARATION

- Step 1: Gather together the following items that you will need to complete this installation.
 - a) lathe
 - b) 3/8" electric hand drill
 - c) #7 drill, 1/8" drill, 7/16" drill
 - d) 1/4-20 tap
 - e) flat file
 - f) 3/4" socket wrench
 - g) set of inch hex wrenches
 - h) grease
 - i) clean shop rag
- Step 2: Remove the drive clutch from the elevating jack shaft. (Clutch is a push fit on the shaft.)
- Step 3: Remove the dial and nut.
- Step 4: Remove screws from bearing retainer.
- Step 5: Pull jack shaft out of knee (easy pull). Hold inboard end up while removing to avoid damage to the pinion gear.
- Step 6: Hold dial hub in soft jaws and unscrew.
- Step 7: Remove the bearing retainer if it exists and press the bearing housing and bearing off the shaft.
- Step 8: 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" T.I.R. Chamfer 1/32" x 1/2" diameter. For best results, machining should be done in a lathe.
- Step 9: Place the shaft extension into the jack shaft. Finish drill 1/8" diameter hole through the shaft and pin with the 1/8" diameter x 5/8" long roll pin. File smooth.
- Step 10: Reassemble and replace the jack shaft in the machine.

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POWER FEED INSTALLATION

- *Step 1:* Slide the bearing race onto the lead screw.
- Step 2: Slide the Power Feed over bearing race and against the bearing housing of the mill.
 - *IF*: If necessary, rotate feed 30 degrees clockwise from the vertical position.
- Step 3: Spot two mounting holes in the bearing retainer. Drill and tap 1/4-20 thread. Secure feed with 1/4-20 x 1" socket screws provided.

BEVEL GEAR INSTALLATION

Step 1: Follow the drawing NA-5444 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, put on the dial lock nut, place the key in the shaft, slide the handwheel in place and tighten with 1/2-20 locknut #01115.

LIMIT SWITCH INSTALLATION

Install the limit switch as shown.

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 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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