POWER FEED INSTALLATION Model M-0980 Knee Feed



Wells Index 747, 847, 860, 887

REFERENCE DRAWINGS ENCLOSED

| NA-5444 | Bevel Gear Installation |
|------------|----------------------------|
| ND-1440 | 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) 3/8" electric hand drill
 - b) 1/8" drill
 - c) flat file
 - d) 3/4" socket wrench
 - e) set of inch hex wrenches
 - f) grease
 - g) clean shop rag
- Step 2: Remove the handwheel, dial and hub.
- Step 3: Rework dial hub per Detail A.
- Step 4: Assemble dial hub and bevel gear per Detail B.

POWER FEED INSTALLATION

- Step 1: Slide the bearing race onto the lead screw.
- Step 2: Slide the Power Feed and adaptor onto the bearing race and push flush to the existing adaptor.
- Step 3: Secure the feed and adaptor to the existing adaptor using the 1/4-20 x 2-1/4" long cap screws provided.
- Step 4: Screw the shaft extension in place. Tighten securely.
- Step 5: Drill 1/8" diameter through the lead screw 5/8" from the end of the lead screw.
- **NOTE** Before pinning the bevel gear, dial hub and shaft extension to the lead screw, adjust for the correct backlash of the bevel gear. See "Bevel Gear Installation" below.
- Step 6: Pin the shaft extension with the $1/8" \times 5/8"$ long roll pin.
 - *IF:* If there is no key slot in the lead screw, see Detail C for bevel gear installation.

Form 0800-80029 10/07 Model M-0980 Page 1

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 locking nut, tube, spring and handwheel. Secure with washer and screw.

LIMIT SWITCH INSTALLATION

Install the limit switch as shown on drawing ND-1440. (Note: Do not over-tighten the four corner screws. Use the #1171 cover for right or left side mounting.)

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.

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