POWER FEED INSTALLATION Model M-1840 Table Feed Wells Index 747, 847, 860, 889



REFERENCE DRAWINGS ENCLOSED

NA-5444	Bevel Gear Installation
NA-2090	Bevel Gear Installation
NA-1427	Dial Sleeve Modification
ND-1840	Power Feed Installation (101-501-101)
ND-6293	Type 150 Servo Drive
0800-80001	Servo Power Feed Operation

PREPARATION

- Step 1: Remove the handwheel, dial, and dial sleeve from the right-hand end of the table.
- Step 2: If your mill has a key slot in the lead screw, rework the dial sleeve per drawing A-1427.

POWER FEED INSTALLATION

- Step 1: As shown in drawing NA-2090, assemble the dial sleeve and the bevel gear using a 1/8 x 1/2 roll pin or follow the alternate bevel gear installation on drawing ND-1840.
- Step 2: Install the spacer and bearing race on the shaft.
- Step 3: Slide the power feed onto the bearing race and secure using the 1/4-20 x 1-1/2" long socket head cap screws.
- **NOTE** On some mills, you may have to tap the 1/4-20 threads to secure the feed.
- Step 4: Screw the shaft extension on the lead screw and tighten.
- Step 5: Drill 1/8 diameter through the lead screw, 5/8 from the end of the screw. Insert the $1/8 \ge 5/8$ roll pin. File ends smooth.
 - *IF:* If your lead screw does not have a key, this step is eliminated.

BEVEL GEAR INSTALLATION

Step 1: 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. Four washers are provided for this, two solid and two laminated. Shim as required.

Step 2: In the following sequence, replace the dial nut, tube, spring, and handwheel. Secure with washer and screw.

 NOTE Some model Wells-Index do not have a safety handwheel. Conversion can be made easily by ordering the required parts from: A & D Machinery Co., Wells-Index Division 701 West Clay Ave. Muskegon, MI 49440 Telephone: 231-759-0950, Fax: 231-728-7456 E-mail: wellsindex@aol.com

> Part No. 2-111-346-216 Spacer 2-111-438-202 Spring

LIMIT SWITCH INSTALLATION

- Step 1. Remove the standard table stop pieces and install the table stop pieces furnished. Put the standard stops back in a position to prevent feed stops from being set beyond extreme table travel.
- Step 2: Install the limit switch per drawing ND-1840.
- Step 3: The T-stop is retained to act as a positive stop where required for manual operation.
- □ NOTE For proper operation, the electrical limit switch should be engaged .4 inch before the mechanical stop to allow for coasting of the table. The T-stops are often not symmetrical and may need to be ground to obtain proper operation.
- Step 4: Put the cable clamp on the cable and secure to the right-hand chip scraper screw.

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.

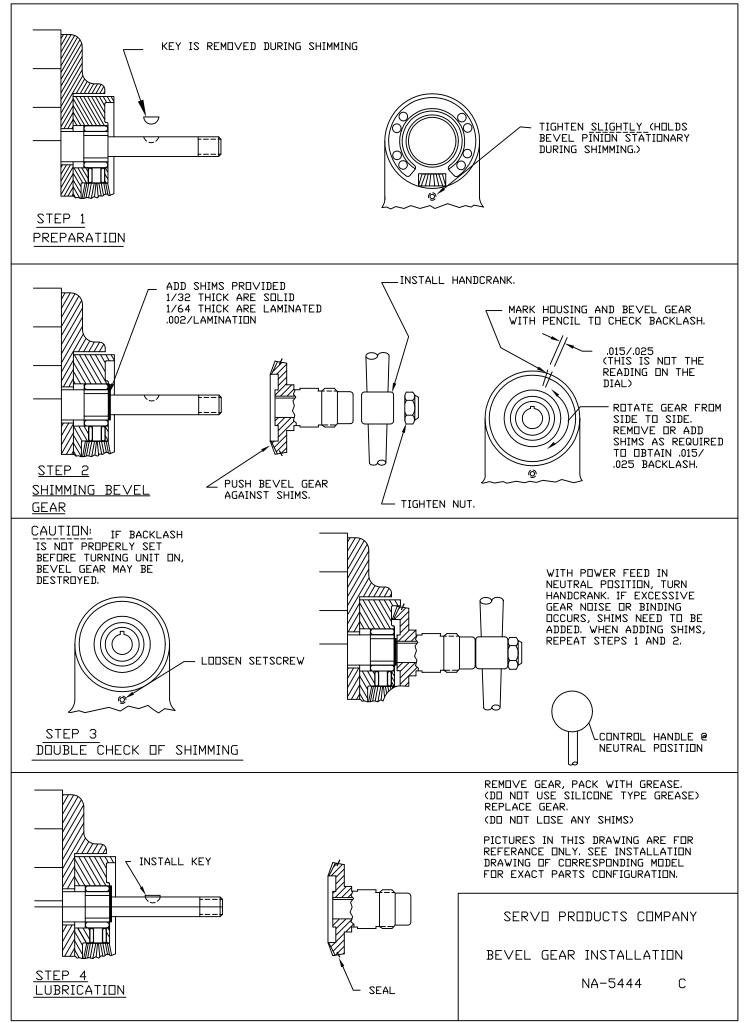
Clearances between the surfaces of the hand crank and the nonmoving parts of the equipment on which the hand crank is installed must be at least one-fourth inch (1/4") to prevent injury. Modification of existing hand crank or replacement may be required.

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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