POWER FEED INSTALLATION Model M-3700 Table Feed



Alliant, Sharp First, and others

REFERENCE DRAWINGS ENCLOSED

NA-5444 Bevel Gear Installation
NB-5495 Power Feed Installation
ND-6293 Type 150 Servo Drive
ND-6292 Type 140 Servo Drive

0800-80001 Servo Power Feed Installation

PREPARATION

- Step 1: Move the table to the extreme left.
- Step 2: Remove the nut, handle, and dial assembly from the right-hand end of the milling machine.
- Step 3: Remove the four cap screws holding the bearing housing in place.
- Step 4: Using a soft hammer, tap the bearing housing off. Clean the end surface of the table.
- Step 5: Remove the spacer.

POWER FEED INSTALLATION

- Step 1: Slide the bearing race in place over the shaft.
- Step 2: Slide the power feed onto the shaft and push in place.
- □ **NOTE** On some machines the drive pin holes do not line up with the adapter. Remove and discard the pins in such cases. The cap screws are all that is necessary.
- Step 3: With the table in the extreme left-hand position, tighten the four cap screws.

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. Plastic and metal washers are provided for this. Shim as required.
- Step 2: In the following sequence, put on the dial locking nut and slide the handle in place. Add the 1/2-20 lock nut and tighten.

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: Remove the two cap screws holding the T-shaped table stop bracket.
- Step 3: Place the short spacers into the counterbored holes in the T-stop. Place the limit switch assembly on the spacers and install using the two $3/8-16 \times 1-1/4$ " or $8 \text{ mm} \times 1.25 \times 30 \text{ mm}$ long socket head cap screws.

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 using 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 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

Web: www.servoproductsco.com

CALIFORNIA BRANCH

14254 Valley Blvd., Unit A City of Industry, CA 91746 Ph. 626.961.7800 Fax 626.961.2444

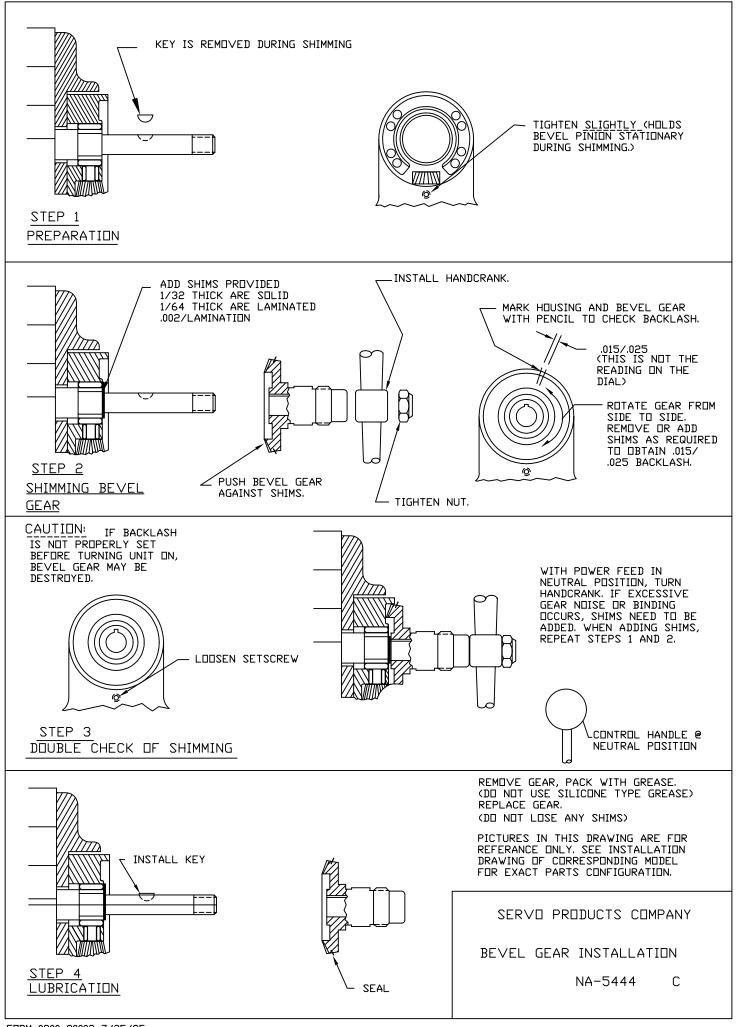
HEADQUARTERS

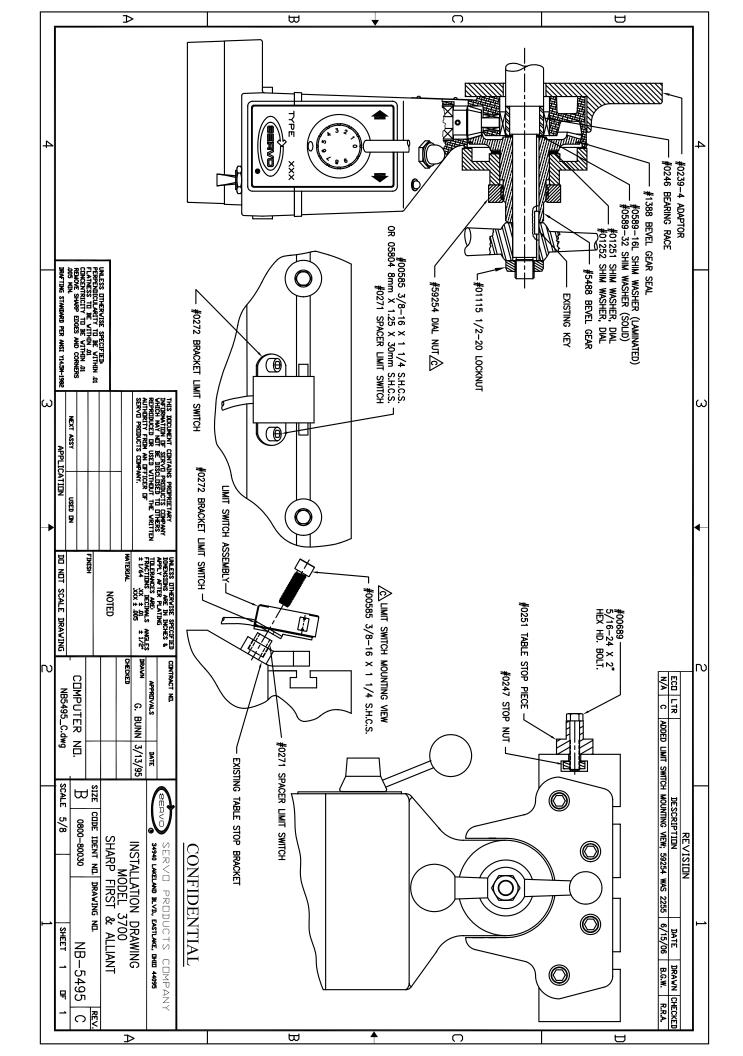
34940 Lakeland Blvd. Eastlake, OH 44095 Ph. 440.942.9999 Fax 440.942-9100

FLORIDA BRANCH

8950 131st Ave. N. Largo, FL 33773 Ph. 727.585.8555 Fax 727.585.6555

SERVO Power Feed MODEL 3700 page 2







M-3700 TABLE FEED PARTS IDENTIFICATION LIST



Clamp Qty = 1 00579

Clamp Qty = 1 01050













Limit Switch Gasket Limit Switch Bracket Qty = 1

0266

Qty = 1





Phil Pan Hd Screw 06928

Qty = 4

Limit Switch Spacer Qty = 2







00585



3/8-16 Soc Head Cap Screw M8 Soc Head 05804



Qty = 2



Hex Hd Bolt Qty = 200689





Limit Stop Qty = 2 0251

Stop Nut Qty = 2

0247



01115 Lock Nut Qty = 1

Dial Nut Qty = 1 59254

Brass Shim Qty = 5 01251

Plastic Shim Qty = 2 01252

















Bevel Gear Qty = 15488





.032 Shim 0589-32

Qty = 2







Bearing Race Qty = 10246





Soc Hd Cap Screw 00586







Roll Pin Qty = 2









Roll Pin Qty = 2 00596

