POWER FEED INSTALLATION Model M-9108 Table Feed



Kent 3VK, 5VK, Acer 3VS, 3VK and others

REFERENCE DRAWINGS ENCLOSED

NA-5444 Bevel Gear Installation
NB-57224 Power Feed Installation
ND-6293 Type 150 Servo Drive
ND-6292 Type 140 Servo Drive
OSCIENTIFICATION OF SERVE Power Feed Operation

0800-80001 Servo Power Feed Operation

PREPARATION

- Step 1: Move the table to the extreme left.
- Step 2: Remove the nut, handle, dial assembly, and key from the lead screw. Save the key for installation later.
- Step 3: Remove the bearing retainer. Save the screws for installation later.
- Step 4: Screw the shaft extension onto the lead screw.
- Step 5: Slide the bevel gear onto the lead screw to ensure proper fit. Then remove the bevel gear.
- Step 6: Drill a 1/8" diameter hole through the shaft using the hole provided in the shaft extension as a pilot. Pin the shaft extension to the lead screw using the 1/8 diameter x 5/8" long roll pin. File smooth.

POWER FEED INSTALLATION

- Step 1: Using the existing screws, secure the bearing retainer provided.
- Step 2: Slide the shaft spacer and bearing race onto the lead screw.
- Step 3: Slide the power feed onto the bearing race and secure to the bearing retainer using the provided 1/4-20 x 1" long socket head cap screws.

BEVEL GEAR INSTALLATION

- Step 1: Use the 3 mm parallel key you saved before for the bevel gear installation.
- Step 2: 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. 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: Install the 3 mm key provided in the shaft extension.
- Step 4: Slide the handcrank onto the end of the shaft extension and tighten with the 1/2-20 lock nut.

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. Place the short spacers into the counterbored holes in the T-stop. Place the limit switch assembly on the spacers and locate using the two 3/8-16 x 1-1/4" long socket head cap screws.
- 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 using the right-hand chip scraper screw.

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

Web: www.servoproductsco.com

CALIFORNIA BRANCH

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

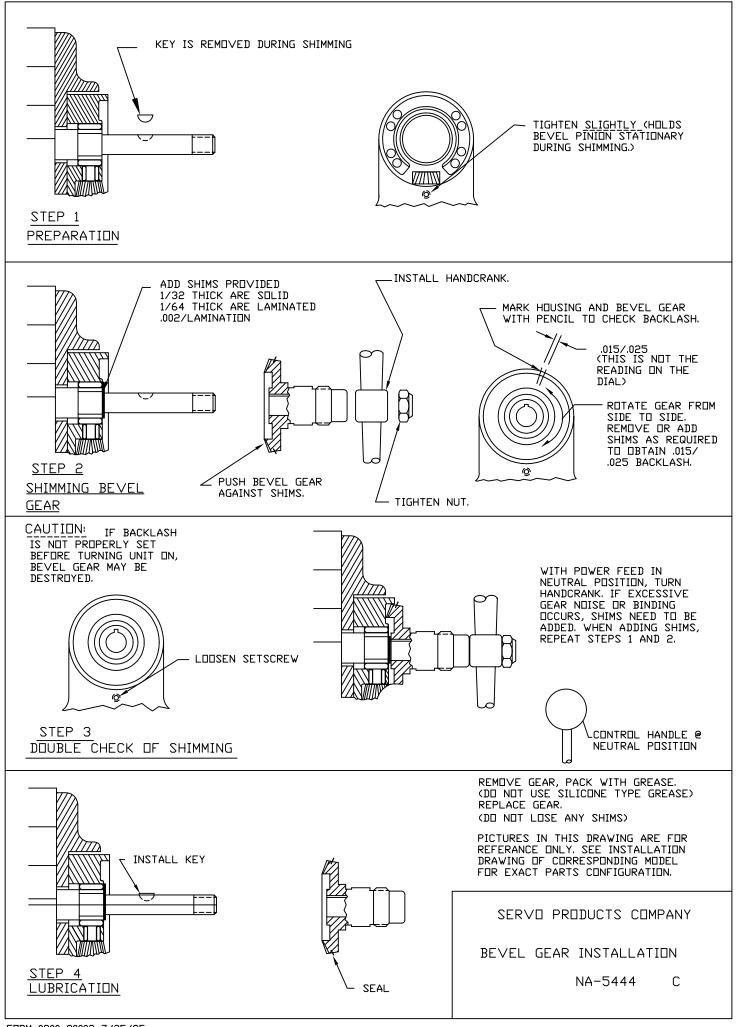
HEADQUARTERS

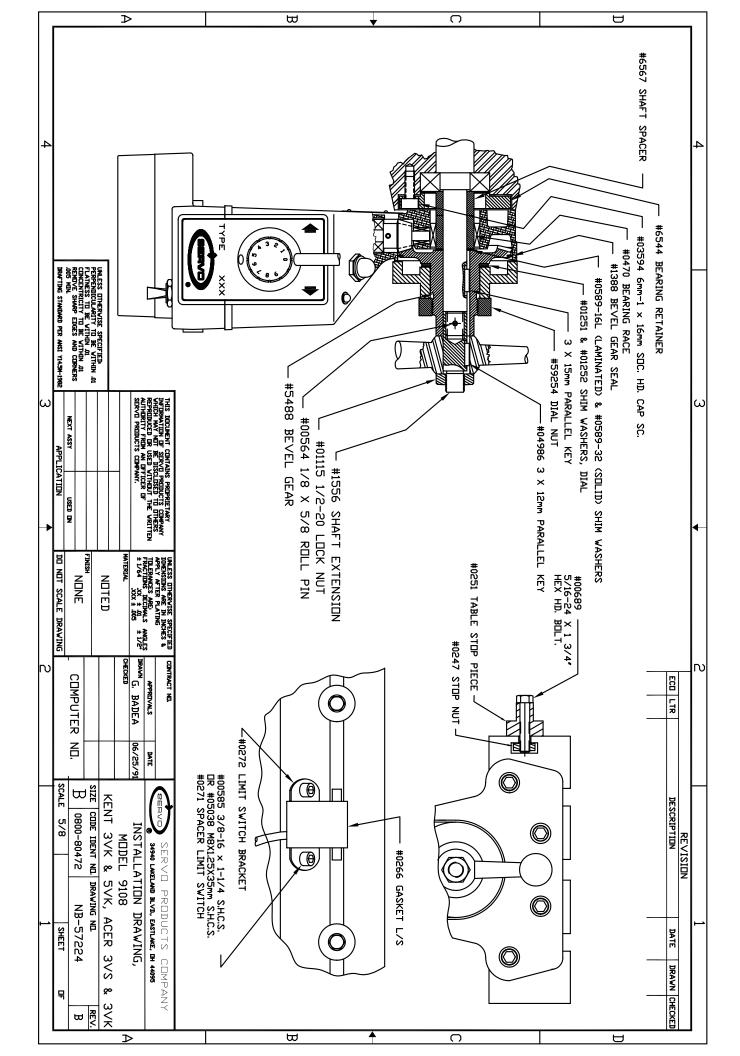
34940 Lakeland Blvd. Eastlake, OH 44095 Ph. 440.942.9999 Fax 440.942-9100

FLORIDA BRANCH

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

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M-9108 TABLE FEED PARTS IDENTIFICATION LIST



Clamp Qty = 1 01050

Limit Switch Bracket

Qty = 1

Phil Pan Head Screw Qty = 4

Limit Switch Spacer Qty = 2

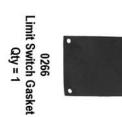
Cap Screw Qty = 2 Soc Head 00585

Soc Head Cap Screw Qty = 2

05038

06928

0271































































0247 Stop Nut Qty = 2

Hex Hd Bolt Qty = 2

00689





01115 Lock Nut Qty = 1

Shaft Extension Qty = 1



00564 Roll Pin Qty = 1















Bevel Gear Qty = 1 5488

Brass Shim Qty = 2

Plastic Shim Qty = 2

01252

01251



.032 Shim Qty = 40589-32







Bearing Race Qty = 1





SS Washer Qty = 1 04603





Soc Head Cap Screw Qty = 2 00586



Spacer Qty = 1 6567



Soc Head Cap Screw Qty = 3 03594



Bearing Retainer Qty = 1 6544