POWER FEED INSTALLATION Model M-9130 Table Feed



Clausing Kalamazoo

REFERENCE DRAWINGS ENCLOSED

NA-5444 **Bevel Gear Installation** NB-58330 **Power Feed Installation** ND-6293 Type 150 Servo Drive ND-6292 Type 140 Servo Drive

Servo Power Feed Operation 0800-80001

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: Slide shaft spacer #6728 and bearing race #0774 onto the lead screw.
- Step 4: Slide the power feed over the bearing race. Select and transfer three mounting holes onto existing bearing retainer or use supplied bearing retainer #6544.
- Step 5: If using existing bearing retainer, remove to drill and tap 1/4-20 through and then reinstall otherwise use supplied #6544 bearing retainer.
- Step 6: Screw the shaft extension onto the lead screw.
- Step 7: Slide the bevel gear onto the lead screw to ensure proper fit. Then remove the bevel gear.
- Step 8: 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: 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. Be sure the power feed is installed square with the shaft.

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

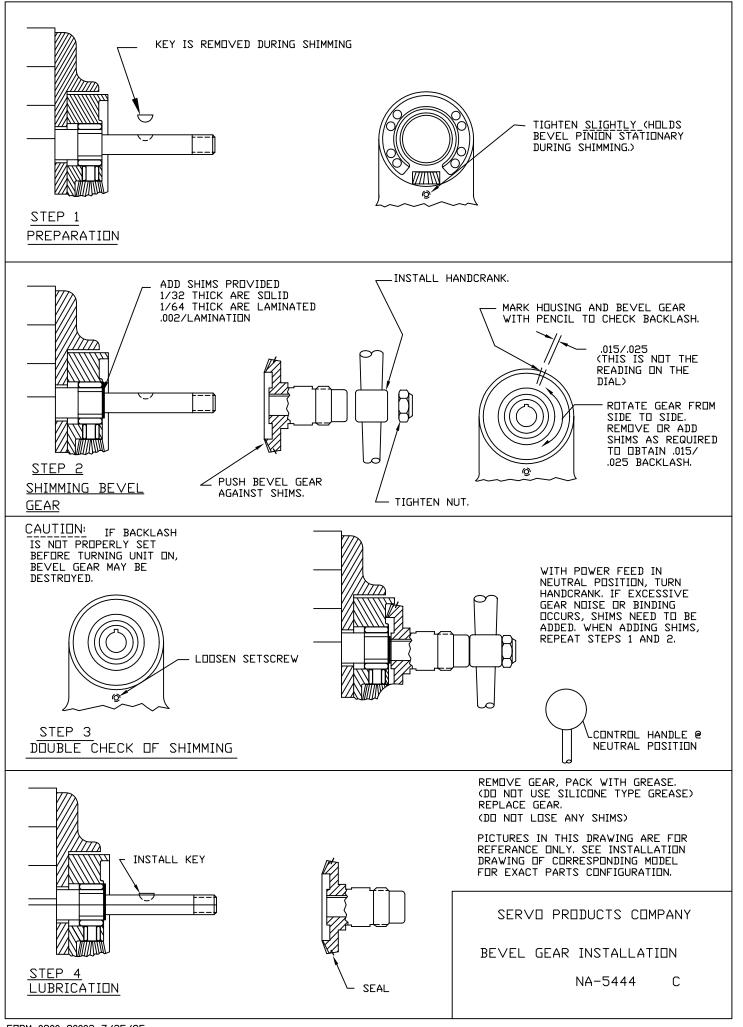
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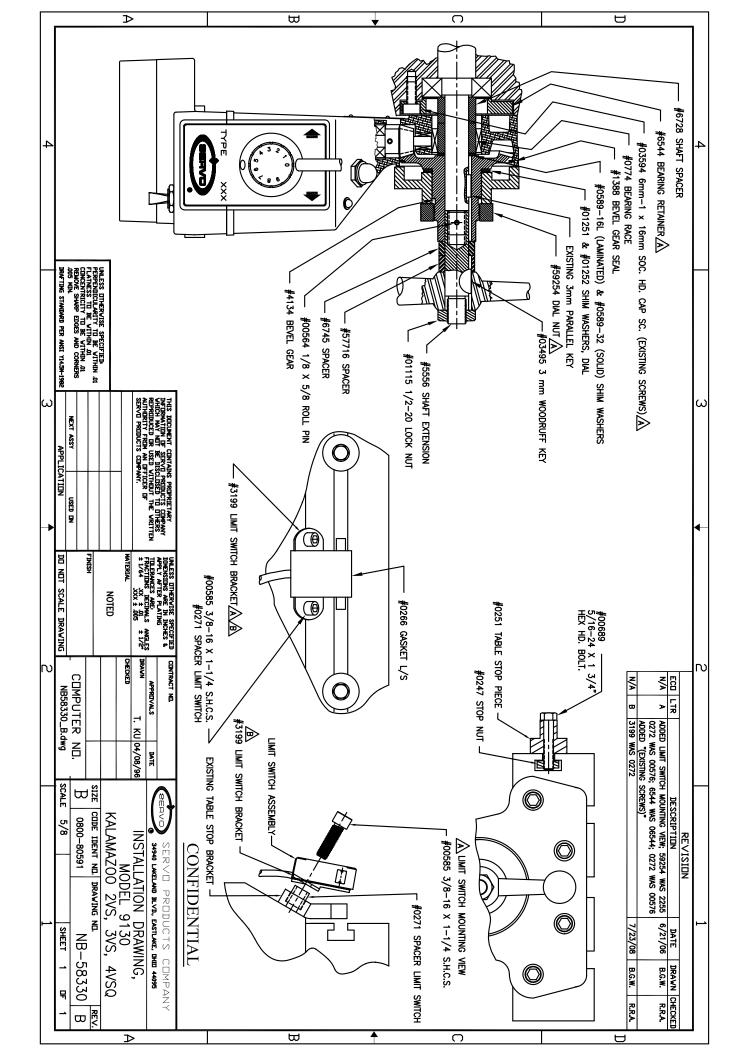
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FLORIDA BRANCH

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M-9130 TABLE FEED PARTS IDENTIFICATION LIST











Clamp Qty = 1

00564 Roll Pin

03495 Key Qty = 1

Oty = 1



Limit Switch Bracket Qty = 1







Limit Switch Spacer Qty = 2

Head Screw Qty = 4 Phil Pan



00585



05038

Soc Head Cap Screw Qty = 2









0251





Stop Nut Qty = 2 0247

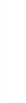














Bevel Gear Oty = 1





01252 Plastic Shim Qty = 2

01251 Brass Shim Qty = 2

59254 Dial Nut Qty = 1

6745 Spacer Qty =1

Spacer Qty = 1 57716

Shaft Extension Qty = 1

01115 Lock Nut Qty = 1

5556





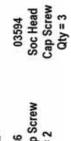












03594



Bearing Retainer Qty = 1









Bearing Race Qty = 1 0774

.032 Shim Qty = 4



Spacer Qty = 1



