# POWER FEED INSTALLATION Model M-5051 Cross Feed Acra 9x45



#### REFERENCE DRAWINGS ENCLOSED

NA-5444	Bevel Gear Installation
NB-6319	Power Feed Installation
ND-6293	Type 150 Servo Drive
ND-6292	Type 140 Servo Drive
0800-80001	Servo Power Feed Operation

#### **PREPARATION**

- Step 1: Remove the nut, handle, dial assembly, and key from the lead screw.
- **Step 2**: Slide the bearing race and the adaptor onto the lead screw.
- **Step 3**: Using the adaptor as a template, spot 4 holes. Remove the bearing race and the adaptor. Drill and tap 1/4-20 through four places.
- Step 4: Screw the shaft extension onto the lead screw and tighten. Using the hole provided as a pilot, drill 1/8 diameter through and pin the shaft extension in place using the 1/8 x 5/8 roll pin. File smooth.

## POWER FEED INSTALLATION

- Step 1: Slide the spacer, bearing race, and adaptor onto the lead screw and secure using  $1/4-20 \times 1$ " long socket head cap screws.
- Step 2: Slide the power feed over the bearing race and secure to the adaptor using two 1/4-20 x 1" long socket head 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. Four washers are provided for this, two solid and two laminated. Shim as required.
- Step 2: After proper shimming of the bevel gear and the dial, install the woodruff key and handcrank. Tighten with the 1/2-20 locking nut.

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#### LIMIT SWITCH INSTALLATION

Step 1: See limit switch installation on drawing NB-6319.

## **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**

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