Model 88 Operation Guide

Installation

- **Mounting**: Mounting holes are located in the mounting bracket, and the use of 5/16-18 socket head cap screws with lock washers is required. The Model 88 markers require a sturdy, level platform for mounting. For optimum power, the marker should be mounted so that the stamp face is 2 1/8" to 2 3/8" away from the part to be marked for a 2 ½" stroke model.
- **Air requirements:** Model 88 is air powered for the forward motion, and the return motion is spring controlled. CMT recommends a 3/8" minimum shop airline. Maximum operating pressure of 100 psi, minimum operating pressure of 20 psi. Please note that the airline length between the valve and marker should not exceed 3'. The marker has one 3/8" NPT air port.
- **Adjustments:** Increase air pressure to mark deeper. Decrease air pressure to mark lighter. To regulate marking pressure, adjust FRL (Filter/Regulator/Lubricator unit). Sold separately.
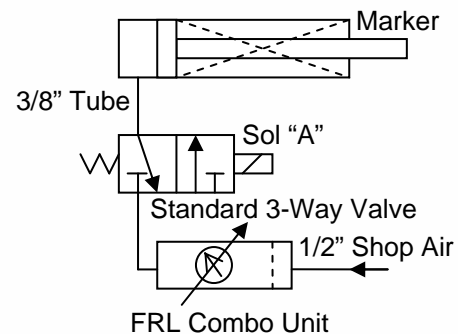
Maintenance
Shut off all air and electrical power prior to performing any and all maintenance.

- **Lubrication:** Add 10W "light" industrial hydraulic oil to lubricator bowl and adjust oil flow to approximately 1 drop for every 30-50 cycles.
- **Air Filter:** Check and clean /change as required. The frequency of cleaning/changing is dependent on environment and plant air system. Do not allow excess water to fill filter bowl.
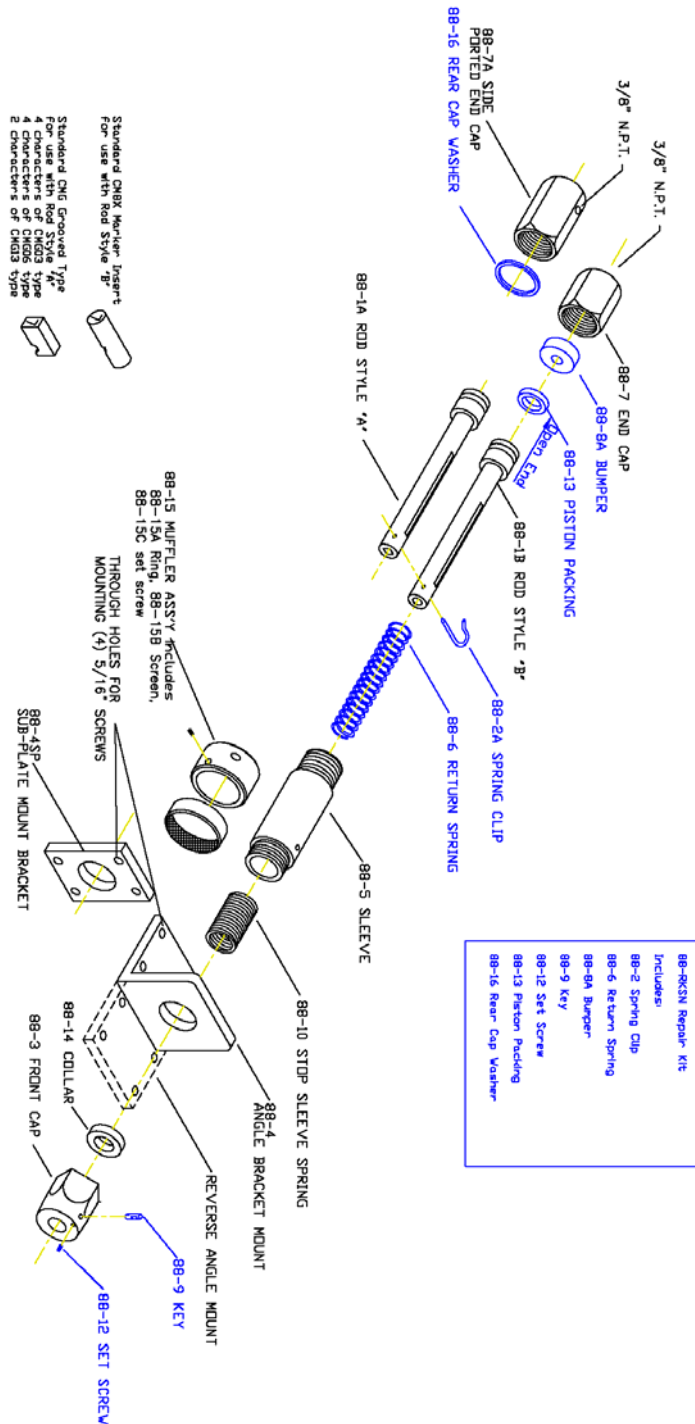
Pneumatic Controls

- **Electrical Sequence for Spring Return Valve:** To advance marker, energize solenoid "A". To return marker and reset, de-energize solenoid "A" after part is marked. Spring in marker returns ram after pressure is exhausted.
- **Note:** For most efficient operation, electrical signal energizing solenoid "A" should be very short, approximately .06 to .10 seconds.

Suggested Pneumatic Control Diagram

Marker
3/8" Tube
Sol "A"
Standard 3-Way Valve
1/2" Shop Air
FRL Combo Unit

Removal of front cap voids warranty.

Model 88 Parts List

Exploded parts diagram labels:

- 88-7A SIDE PORTED END CAP
- 88-16 REAR CAP WASHER
- 3/8" N.P.T.
- 3/8" N.P.T.
- 88-7 END CAP
- 88-8A BUMPER
- 88-1A ROD STYLE "A"
- Open End
- 88-13 PISTON PACKING
- 88-1B ROD STYLE "B"
- 88-2A SPRING CLIP
- 88-6 RETURN SPRING
- 88-15 MUFFLER ASS'Y includes: 88-15A Ring, 88-15B Screen, 88-15C set screw
- THROUGH HOLES FOR MOUNTING (4) 5/16" SCREWS
- 88-4SP SUB-PLATE MOUNT BRACKET
- 88-5 SLEEVE
- 88-10 STOP SLEEVE SPRING
- 88-4 ANGLE BRACKET MOUNT
- REVERSE ANGLE MOUNT
- 88-14 COLLAR
- 88-3 FRONT CAP
- 88-9 KEY
- 88-12 SET SCREW
- Standard CMG Grooved Type For use with Rod Style "A"
  - 4 Characters of CMG03 type
  - 4 Characters of CMG06 type
  - 2 Characters of CMG13 type
- Standard CMGX Marker Insert For use with Rod Style "B"

88-RKSN Repair Kit includes:
- 88-2 Spring Clip
- 88-6 Return Spring
- 88-8A Bumper
- 88-9 Key
- 88-12 Set Screw
- 88-13 Piston Packing
- 88-16 Rear Cap Washer