

Model 751 Operation Guide

Installation

- **Mounting:** Mounting holes are located in the front and rear end caps. The use of 1/2" socket head cap screws is required. The Slide-A-Mark™ markers require a sturdy, level platform for mounting.
- **Air Requirements:** Compressed air is required on all Slide-A-Mark™ markers. CMT recommends a 1/2" shop airline. Maximum operating pressure of 100 psi, minimum operating pressure of 25 psi. The marker has 3/8" NPT advance and retracting air ports. Valve must be less than 3' from the marker.
- **Adjustments:** Increased pressure marks deeper. Decreased pressure marks lighter. To regulate marking pressure, adjust regulator on the FRL (Filter/Regulator/Lubricator unit). Sold separately.
- **Rod Orientation:** All air and (electrical) power should be disconnected before adjusting the rod orientation, as well as any maintenance. The model 751 rod is keyed to maintain orientation. This radial orientation can be easily adjusted by loosening the front collar clamp (751-29) screw. Then rotate the rod to the desired orientation and retighten clamp collar. Do not over-tighten or the actuated marker will not fire.

Maintenance

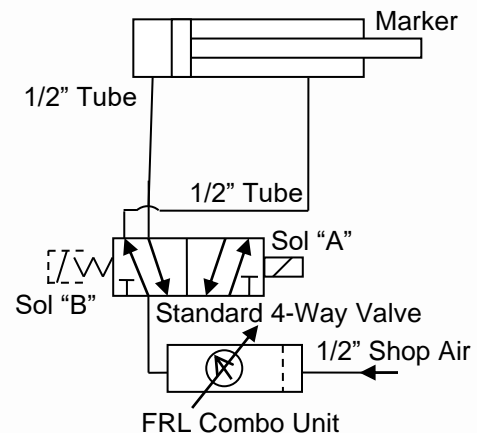
- **Lubrication:** Add 10W "light" industrial hydraulic oil to lubricator bowl and adjust oil flow to approximately 1 drop for every 30-50 cycles. The Model 751-XX-XX-XX-NL is a non-lube system and does not require any lubrication.

- **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.

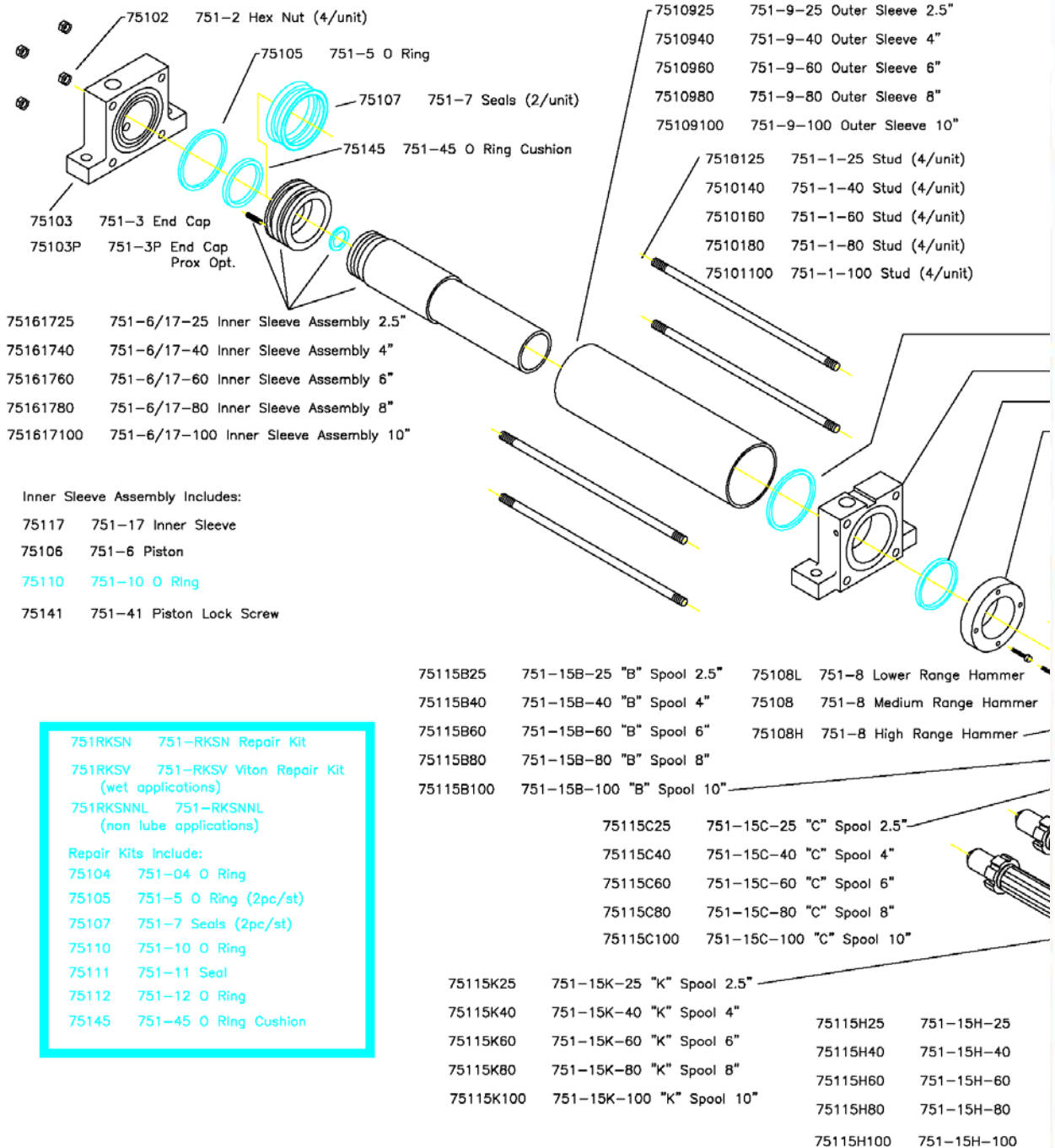
Pneumatic Controls

- **Electrical Sequence for Double Solenoid Valves:** To advance marker, energize solenoid "A". To return marker and reset, de-energize solenoid "A" and energize solenoid "B".
- **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.
- **Note:** The 751-E1 retract sensor indicates fully retracted position of the marker and may be used to de-energize solenoid "B".

Suggested Pneumatic Control Diagram



Model 751 Parts List



751RKS 751-RKS Repair Kit

751RKS V 751-RKS V Viton Repair Kit (wet applications)

751RKS NL 751-RKS NL (non lube applications)

Repair Kits Include:

75104 751-04 O Ring

75105 751-5 O Ring (2pc/st)

75107 751-7 Seals (2pc/st)

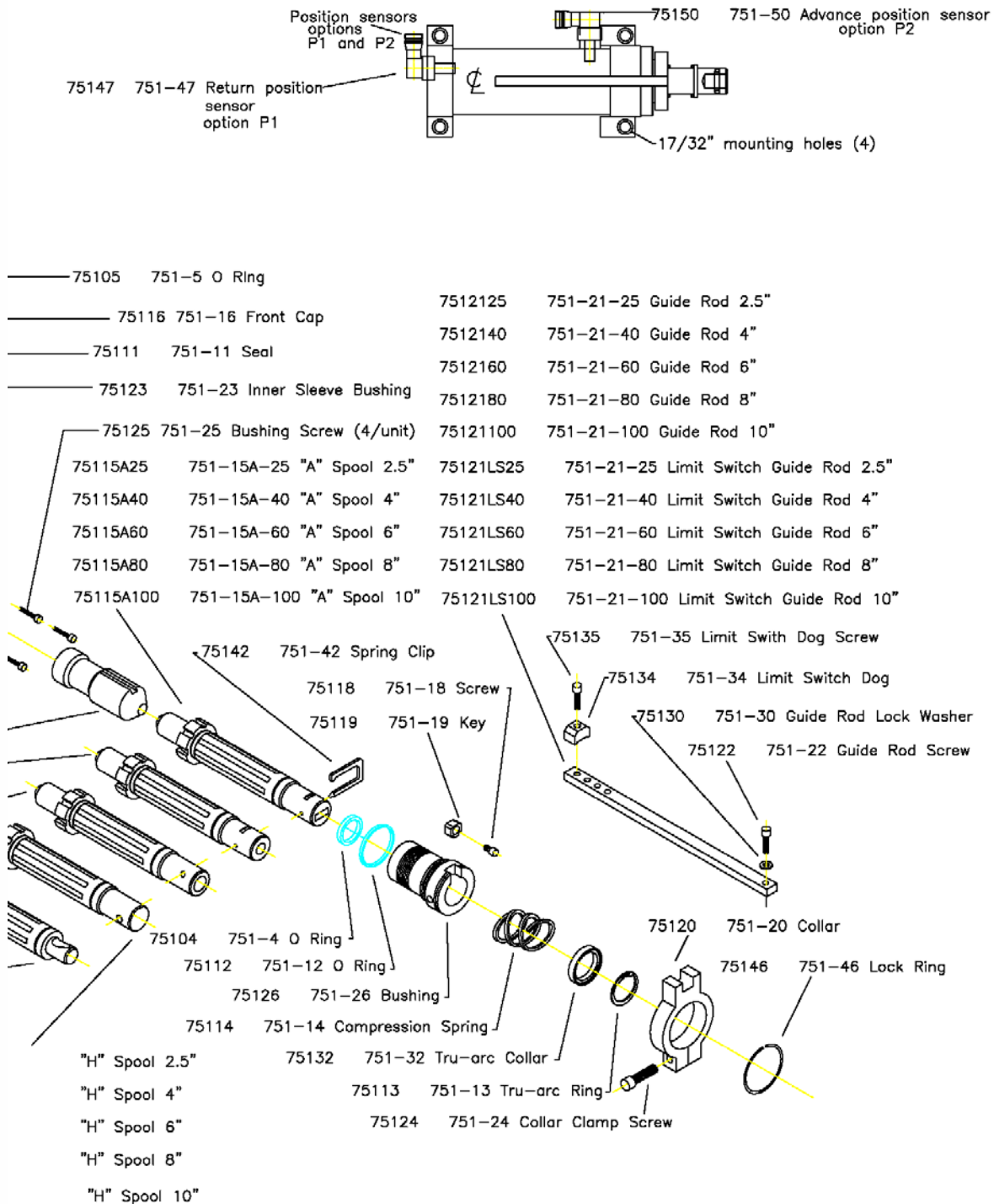
75110 751-10 O Ring

75111 751-11 Seal

75112 751-12 O Ring

75145 751-45 O Ring Cushion

Model 751 Parts List continued



Model 751 Spool Replacement Instructions

To replace or change the spool in your Slide-A-Mark unit:

1. Pull rod or spool forward to extended position.
2. Remove **751-24** collar screw.
3. Use a screwdriver to open collar. Then push collar back over outer sleeve.
4. Remove **751-13** lock ring.
5. Remove collar and guide rod assembly.
6. Unscrew bushing and spool from remaining 751 assembly.
7. Push Tru-Arc collar back.
8. Remove **751-13** Tru-Arc ring with spanner pliers.
9. Remove **751-32** Tru-Arc collar.
10. Remove **751-18** screw and **751-19** key from bushing.
11. Remove bushing.
12. Change spool and reassemble by following steps in reverse order.

Reference Slide-A-Mark parts list for specified detail numbers (Appendix-A).

Note: Columbia Marking Tools recommends replacing marker seals when changing spools.