

## 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.
- **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

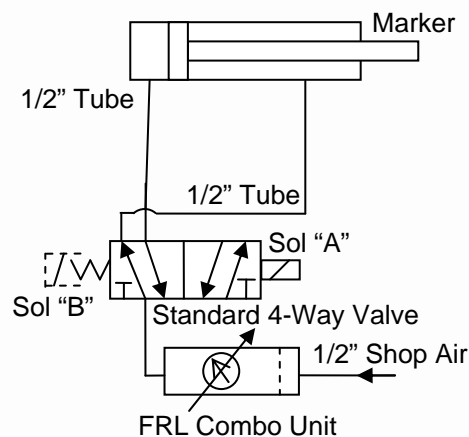
- **Lubrication:** Add 10W "light" industrial hydraulic oil to lubricator bowl and adjust oil flow to approximately 1 drop for every 30-50 cycles. The Model 751-XX-XX-XX-NL is a non-lube system and does not require any lubrication.

- **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.

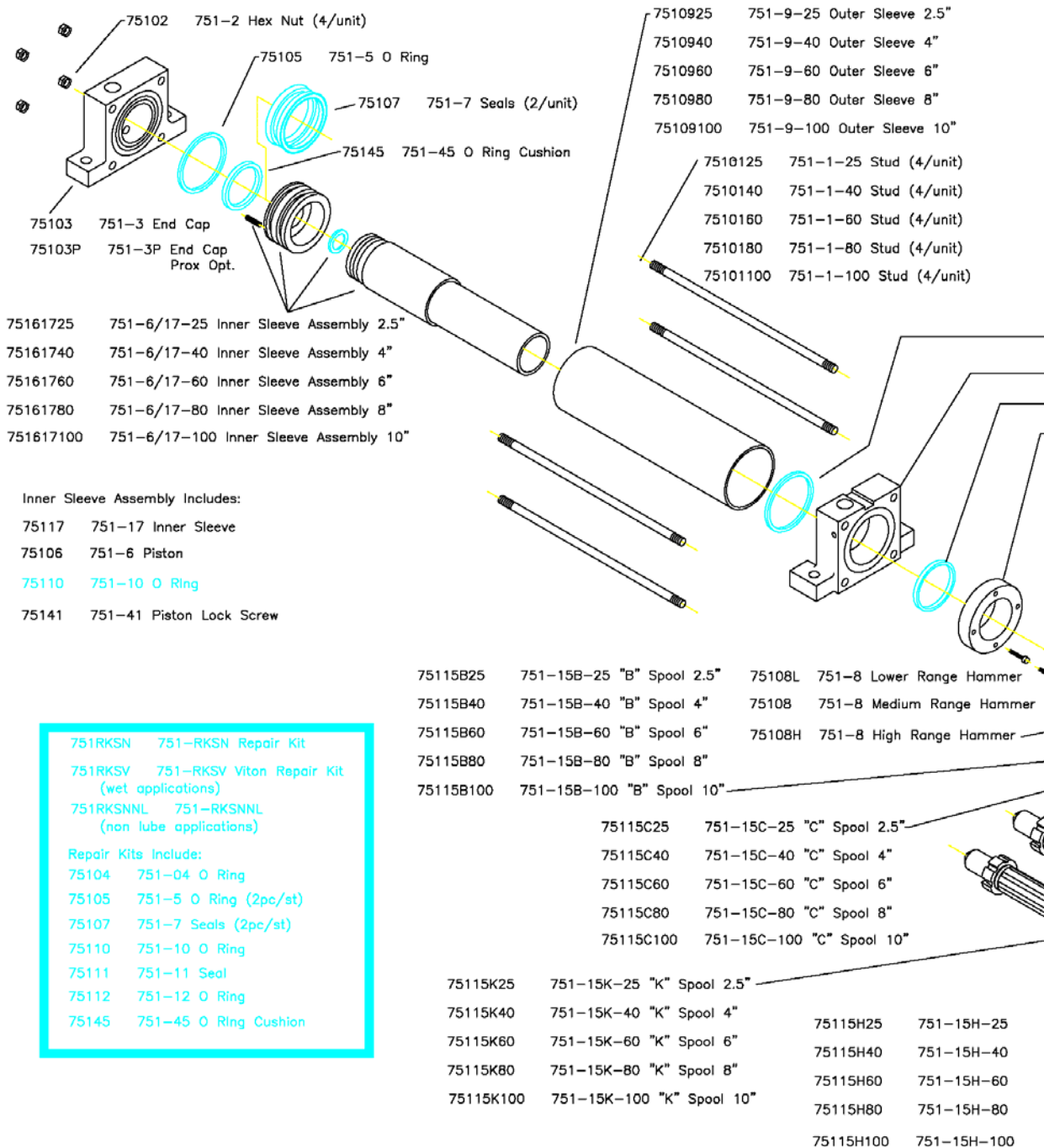
### Pneumatic Controls

- **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".

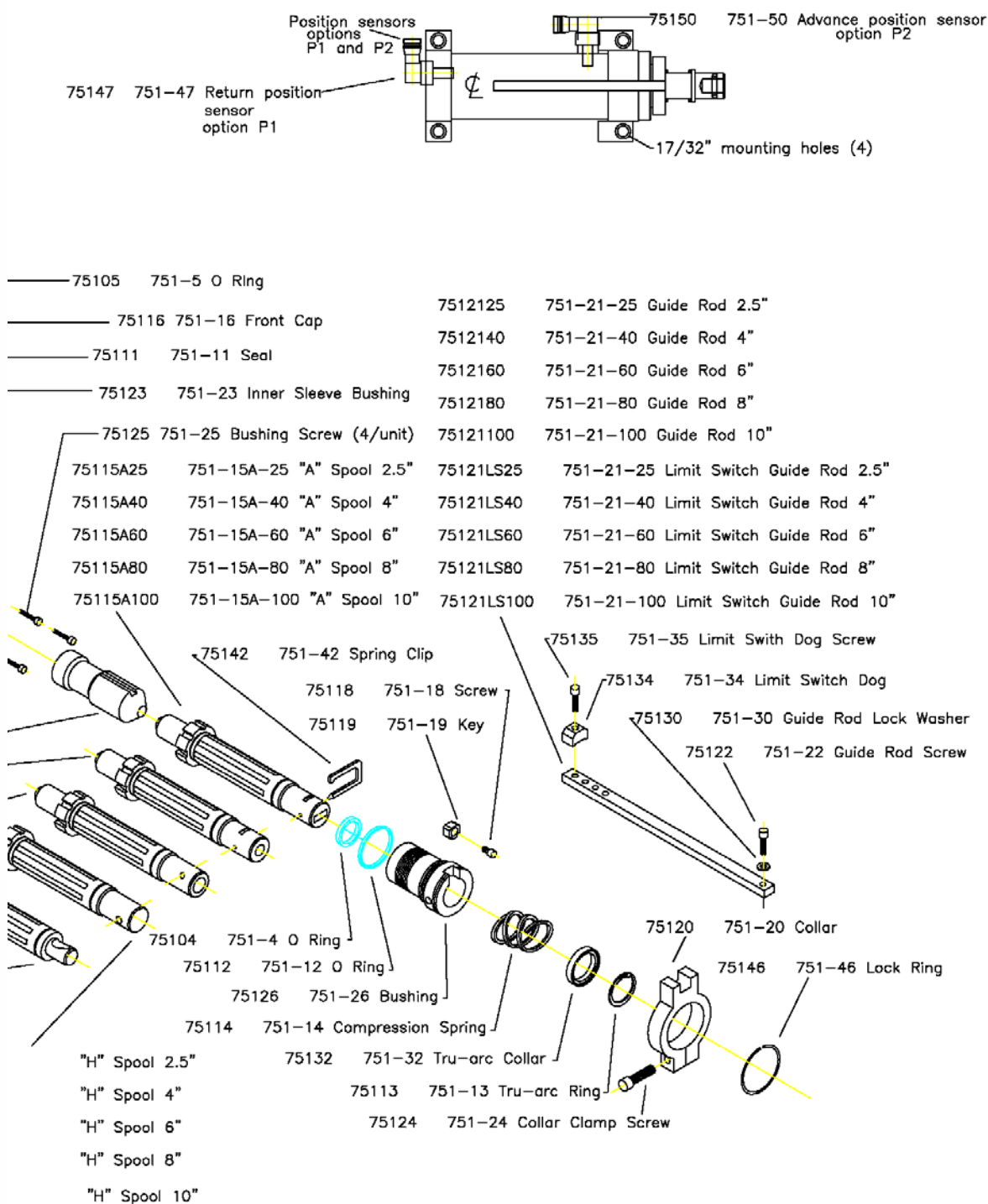
### Suggested Pneumatic Control Diagram



### Model 751 Parts List



### Model 751 Parts List continued







**AIR  
IMPACT  
MARKER**

### ***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.