

AIR IMPACT MARKER

Model 751 Operation Guide

Installation

- Mounting: Mounting holes are located in the front and rear end caps. The use of ½" 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 ½" 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 overtighten or the actuated marker will not fire.

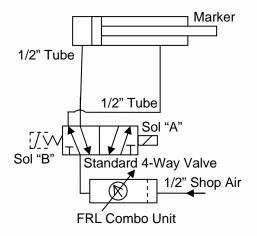
Maintenance

 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, deenergize 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 deenergize solenoid "B".

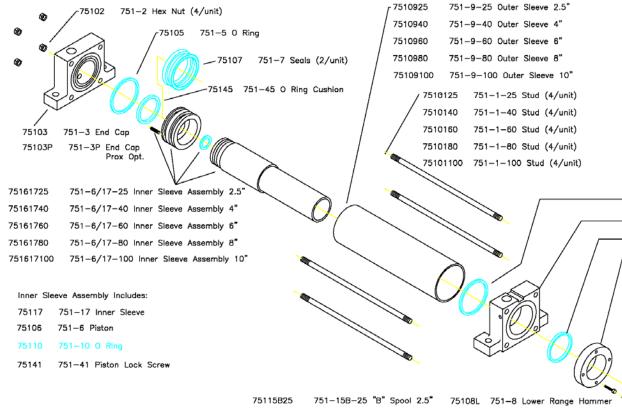
Suggested Pneumatic Control Diagram





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Model 751 Parts List



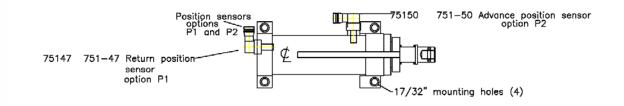
751RKSN 751-RKSN Repair Kit
(wet applications)
751RKSNNL 751-RKSNNL
(non lube applications)
Repair Kits Include:
75104 751-04 0 Ring
75105 751-5 0 Ring (2pc/st)
75107 751-7 Seals (2pc/st)
75110 751-10 0 Ring
75111 751-11 Seal
75112 751-12 0 Ring
75145 751-45 0 Ring Cushion

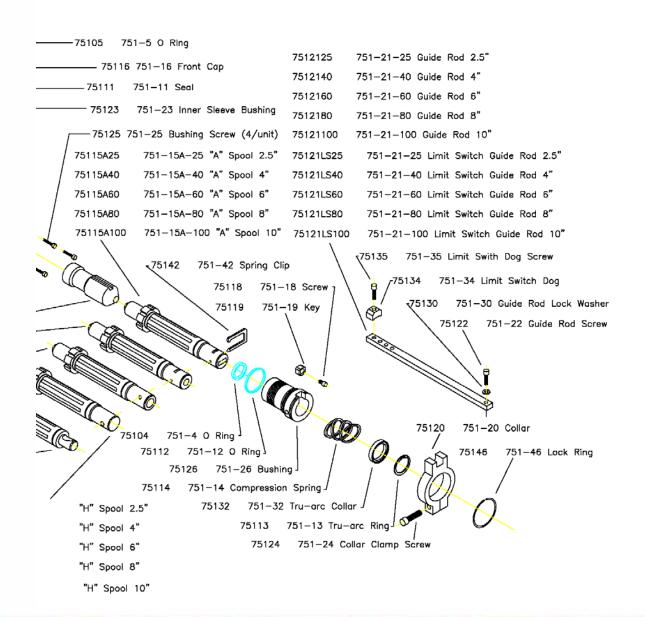
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75115B25	751-15B-2	5 "B" 9	Spool	2.5"	75108L	751-8	Lower	Range	Hammer	_
75115B 4 0	751-15B-4	0 "B" 9	Spool	4"	75108	751-8	Mediun	n Rang	e Hamm	er
75115B60	751-15B-6	0 "B" 9	Spool	6"	75108H	751-8	High F	Range H	lammer .	
75115B80	751-158-8	0 "B" S	Spool	8"						
75115B100	751-15B-1	00 "B"	Spool	10"					_	
		751150	25	751-1	5C-25 "(C" Spoo	2.5"-		(F
75115C40 7					5C-40 "C	C" Spoo	4"		(XXX)	Á
		75115C	60	751-1	5C-60 "(C" Spoo	6"			
		751150	80	751-1	5C-80 "C	C" Spoo	8"			
		751150	100	751-1	5C-100	"C" Spo	ol 10"			
75115K25	751-15	K-25 '	"K" Sp	ool 2.5'						
75115K40	751-15	K-40 '	"K" Sp	ool 4"		75115H	25	751-1	5H-25	
75115K60	751-15	K-60 '	"K" Sp	oool 6"		75115H	40	751-1	5H-40	
75115K80	751-15	K-80 '	"K" SF	oool 8"		75115H		751-1		
75115K10	0 751-15	K-100	"K" \$	Spool 10)"	75115H		751-1		
						75115H	100	751-15	5H-100	



AIR IMPACT MARKER

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.