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## Service Manual

### M-Series: MC-151—MC-302—MC-453

#### MC - SERIES

#### PRESS ASSEMBLY:

Thank you for purchasing this press. Please take a few moments to fill out the warranty card and return it with the posted paid card or fill out the form Online at [www.janesvilletool.com/warranty](http://www.janesvilletool.com/warranty)

#### Included in this package is:

1. Press frame with cylinder
2. C66-100 Controls (MC-Series only)
3. EV-100 Valve Assembly (MC-Series only)
4. (2) 1/4" diameter nylon air tube (MC-Series only)
5. (2) 8-32 x 1 1/4" long screws (MC-Series only)

If you cannot find any of the contents above please call us at 608-314-1620 or email at [sales@janesvilletool.com](mailto:sales@janesvilletool.com)

#### SAFETY INSTRUCTIONS

#### READ ALL INSTRUCTIONS CAREFULLY

1. Do not operate press with guards removed. All safety devices must be installed and operable.
2. Palm buttons must be permanently mounted for safe use with MC-Series presses.
3. Additional guarding is required for special tooling.
4. Disconnect press when: not in use, before servicing, when changing accessories, such as down stops and tooling.
5. Wear safety glasses while operating press
6. Guard against electric shock. Do not use in damp places.
7. Dress properly, do not wear loose fitting clothing or jewelry that could get caught in moving parts.
8. Keep hands away. Never reach near moving parts.
9. Do not operate press over 80 PSI. Excess pressure may cause damage or injury.
10. Do not operate press over labeled voltage.
11. Watch for damaged parts. If press is damaged during operation, examine the damaged part carefully to insure that it will operate properly. If in doubt, replace the damaged part. Check for alignment of moving parts, binding of moving parts, mounting and any other conditions that may affect its operation.
12. Keep work area clean. Cluttered areas and benches invite injury.
13. Stay alert. Watch what you are doing. Use common sense.

## MAINTENANCE GUIDELINES

Thanks to its unique design, this press requires virtually no maintenance. Clean, dry air is required for operations. (Lubricated air may be used, but must be used for the life of the press.)

## CONTROL MODULE

The life expectancy for the control module (#540) is one million cycles. Replacing the module on a yearly basis will ensure production reliability and avoid costly downtime.

## FLOW CONTROLS

To alter the ram descent speed on your JT&M Press, adjust the screw marked B located on the left hand side of the cylinder. To alter the ram ascent speed, adjust screw A. (The ram retraction speed has been preset by the factory). Rotate the screws clockwise to decrease the speed of the ram.

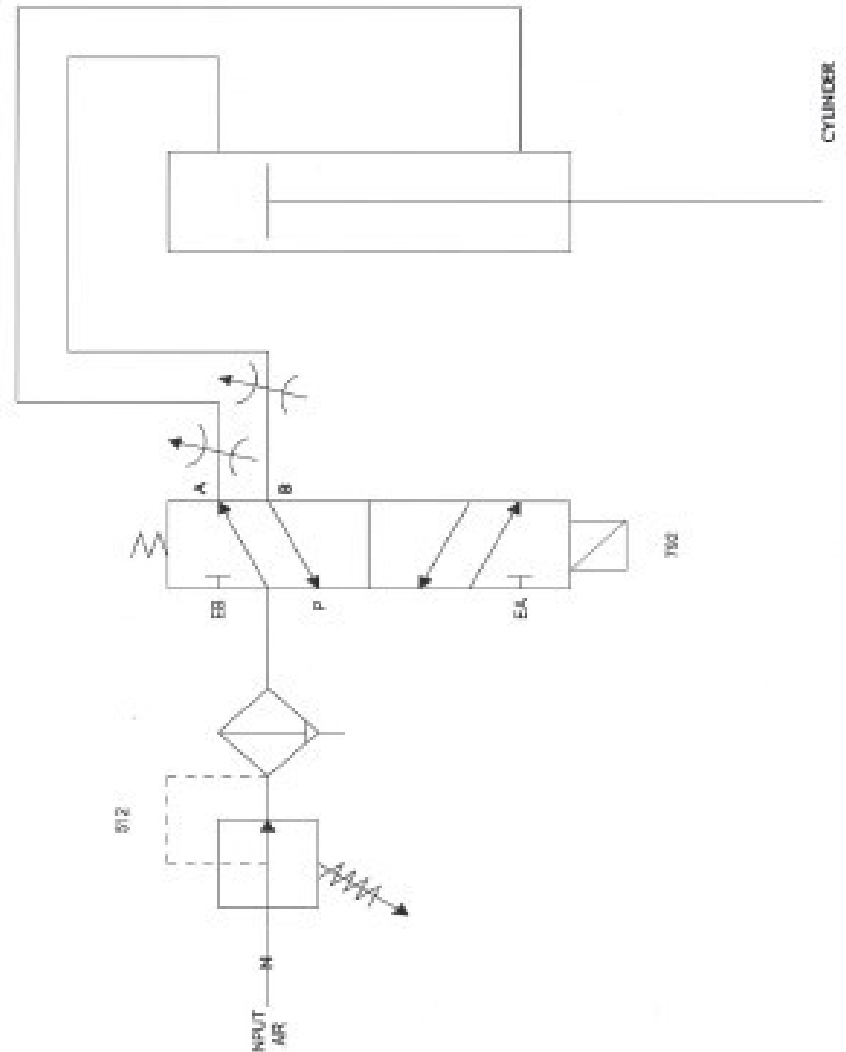
## PRESS OPERATION

To operate the press, push palm buttons in at the same time. Hold the palm buttons in until the down stroke is completed. Releasing the palm button will return the press.

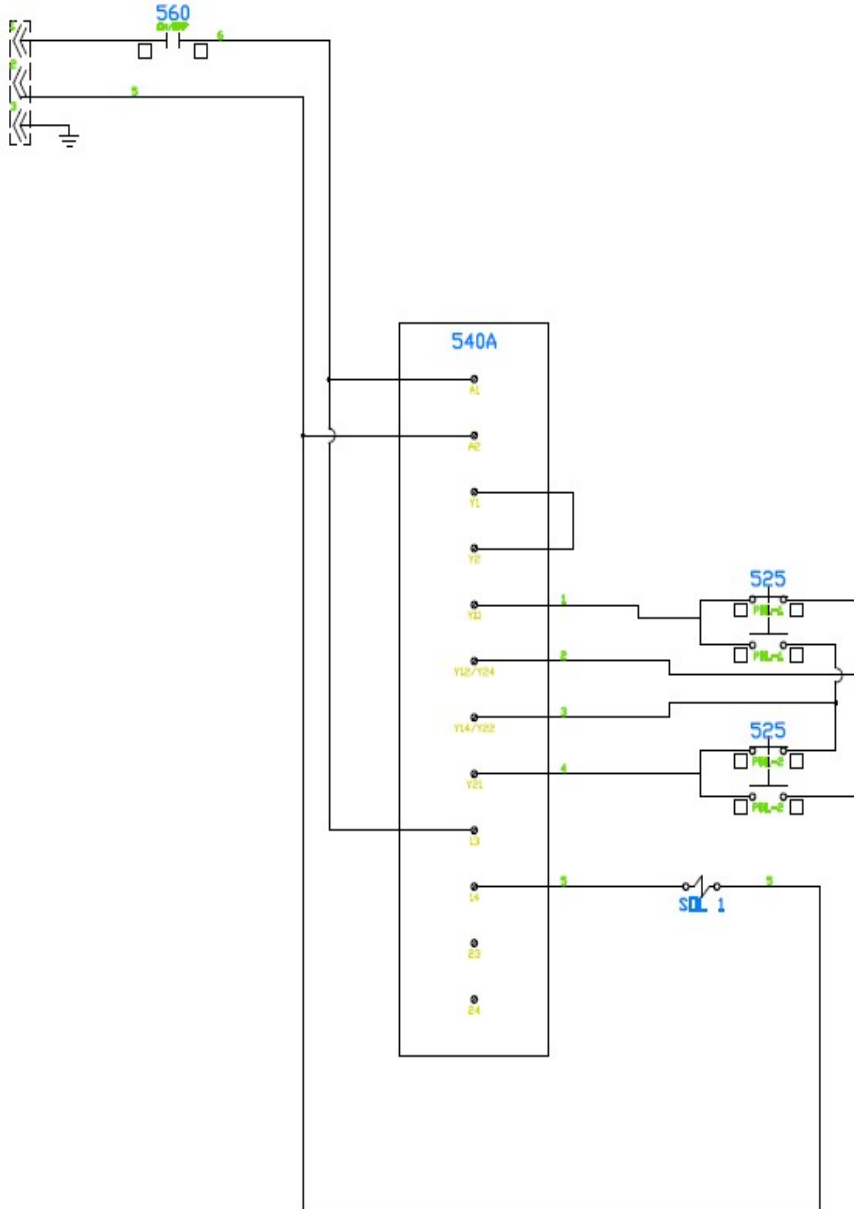
PLEASE WRITE SERIAL NO. HERE



# PNEUMATIC SCHEMATIC



# ELECTRICAL SCHEMATIC



## ASSEMBLY INSTRUCTIONS

1. Using the (2) provided 8-32 x 1 1/4" long screws, mount the valve assembly (part # EV-100) onto the upper casting located on the rear of the cylinder. This will require the 9/64th Allen wrench. **See photo #1**
2. Using #1 Phillips screw driver install plug from the C66-100 controls onto the EV-100 valve assembly. **See photo #2**
3. Push the 1/4" diameter nylon tube into the two air fittings located on the cylinder. **See photo #3.** Gently pull back on the tube to make sure the air fittings have gripped the tube.
4. Repeat this step by pushing the 1/4" tube into the fittings located on the EV-100 valve assembly. Make sure you match the cylinder corresponding port letter on the cylinder to the valve.
5. Locate your press and mount your controls. It is required that you mount your controls for safe operation. Two mounting holes are provided inside the C66-100 control box. It is recommended that you mount your controls in front of the press centered lying flat on the table. **See photo #4.**
6. Pipe 3/8" diameter air line minimum to port N (1/4") NPT located on EV-100 valve assembly.
7. Turn on air by turning the black knob clockwise. Set your press to the desired air pressure by reading the gauge located on the rear of the press. Multiply 6.6 times the air pressure to get output force.
8. Plug in the power cord into a 110 volt outlet.
9. Turn on power using fused switch. **See photo #5.**
10. Make sure press operates correctly by simultaneously pushing the palm buttons located on each end of C66-100 control box. When the buttons are pushed the cylinder should advance down. When released the cylinder will return.

## TOOLS REQUIRED

1. 9/64th Allen wrench
2. #1 Phillips screw driver



## M - SERIES PARTS LIST

### MODELS MC-151, MC-302 & MC-453

ITEM	PART NO.	DESCRIPTION	QTY
1	1030-001	BASE	1
2	1030-002	END BLOCK, BOTTOM	1
3	1030-003	COLUMN	2
4	503A	IDEC PUSH BUTTON	2
5	505	POWER CORD	1
6	512	REGULATOR	1
7	513	1/4 MUFFLER	2
8	540	CONTROL MODULE	1
9	587	FUSED ON/OFF SWITCH	1
10	784	2" PIPE NIPPLE	1
11	792	VALVE	1
12	795	PLASTIC CAP	1
13	2000-33	CONTROL BOX COVER	1
14	3000-34	CONTROL BOX BASE	1
15	3000-08	ANTI-ROTATE STUD	1
16	3000-70	ADJUSTABLE DOWN STOP	1
17	3000-72	COVER	1
18	3000-75	REGULATOR BRACKET	1

## CYLINDER INFORMATION

Model MC-151 4-1/2" Bore x 3" Stroke -- Double End M601  
(Repair Kit 4-1/2" Bore -- Double End) 20352

Model MC-302 4-1/2" Bore x 3" Stroke -- Double End--2 Stage M617  
(Repair Kit 4-1/2" Bore -- Double End 2 Stage) 617-RK

Model MC-453 4-1/2" Bore x 3" Stroke -- Double End--3 Stage M619  
(Repair Kit 4-1/2" Bore -- Double End 3 Stage) 619-RK

