



## POCKET GENTLEMAN DOOR KIT INSTALLATION NOTES WITH **AUTO REVERSE - AUTO OPEN** OPTION

FAILURE TO READ THESE INSTRUCTIONS WILL VOID THE WARRANTY

### SAFETY

- PROPERLY ADJUSTED, THIS OPENER WILL OPERATE YOUR DOOR SAFELY. A CLOSING DOOR SHOULD BE EASY TO STOP WITH YOUR FINGER. EXCESSIVE OPENING SPEED OR POWER WILL DAMAGE THE "GENTLEMAN" AND THE DOOR COMPONENTS. THESE ADJUSTMENTS CANNOT BE MADE AT THE FACTORY AND ARE YOUR RESPONSIBILITY.
- PLEASE REMOVE ORANGE ZIP TIE AT FRONT CYLINDER MOUNT AND RUBBER BAND FROM HANGERS BEFORE INSTALLATION!!
- Do not kink or crush tubing during installation.
- The air tubing connections and control units are color coded with plastic zip ties.
- Connect the air tubing by matching wire tie colors at fittings from control box to cylinder.
- THE CYLINDER MUST BE MOUNTED OVER THE OPENING, NO EXCEPTIONS!
- If multiple units are ordered, match the control box to the operator by matching fluorescent dots on each.
- See Figure 1 below for tubing and fitting connections.

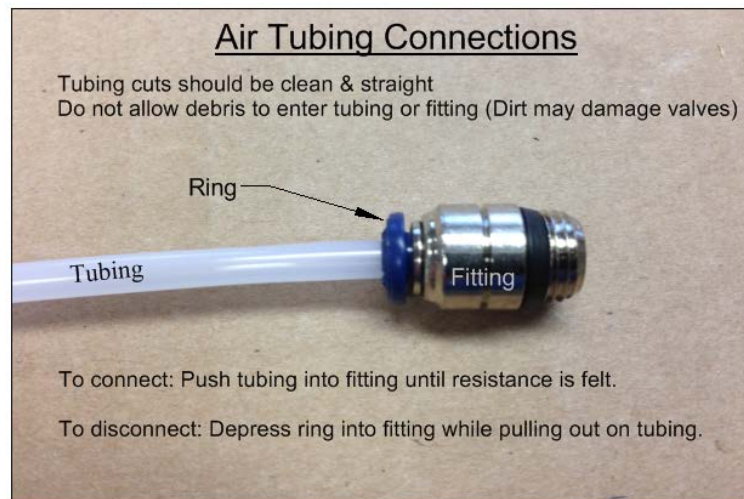


Figure 1

### GENERAL INFORMATION

This opener is pneumatic and requires an air compressor (not included) that will sustain 80-100 PSI of air pressure. Multiple openers can operate from a single compressor. If there is an existing system, it may be used if it meets the above criteria.

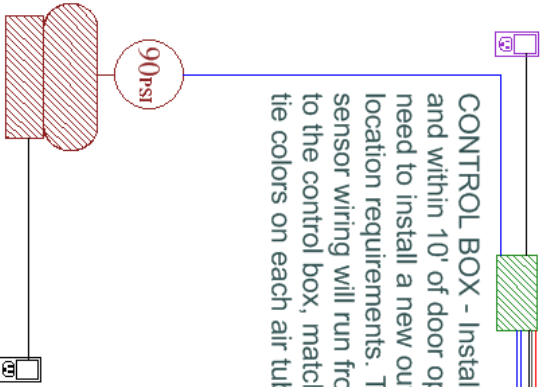
A small and quiet air compressor located in a remote location is desired. (Basement or Garage) We can recommend a unit based on your installation, please contact GDA if you need assistance.

The Pocket Gentleman is comprised of many precision pneumatic controls and requires a clean source of air with minimal moisture. Draining the air compressor tank periodically is essential to eliminate moisture in the air.

### AUTO REVERSE POCKET DOOR BASIC LAYOUT

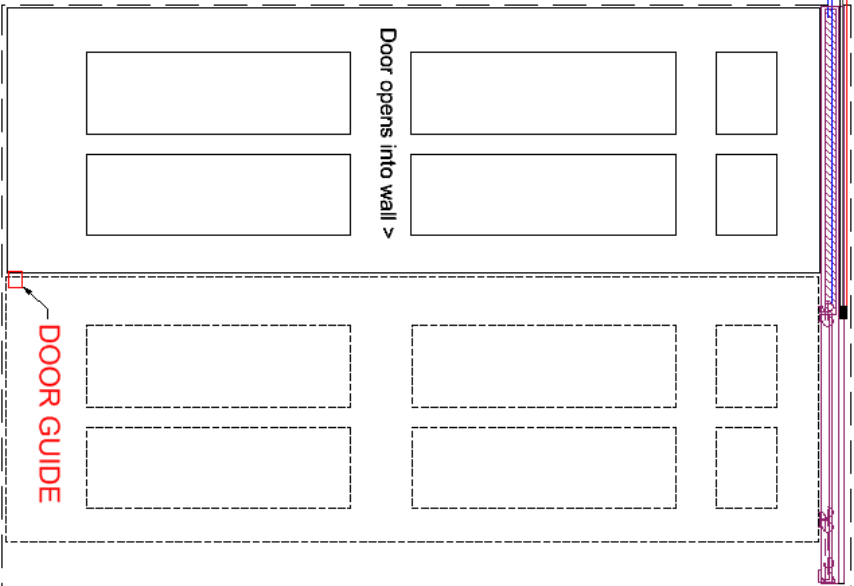
OUTLET - Plug in transformer into unswitched outlet

CONTROL BOX - Install 6' from an outlet and within 10' of door operator. You may need to install a new outlet to meet the location requirements. Two air lines & sensor wiring will run from the operator to the control box, match the plastic wire tie colors on each air tube fitting.



AIR COMPRESSOR - Install 6' from an outlet and within 100' of control box. Locate in basement, utility room, or garage to minimize noise when running. One air line will run from the air compressor to the regulator inside control box. Set to 90 PSI. (Air Compressor not included in Standard Kit)

FINISHED FLOOR

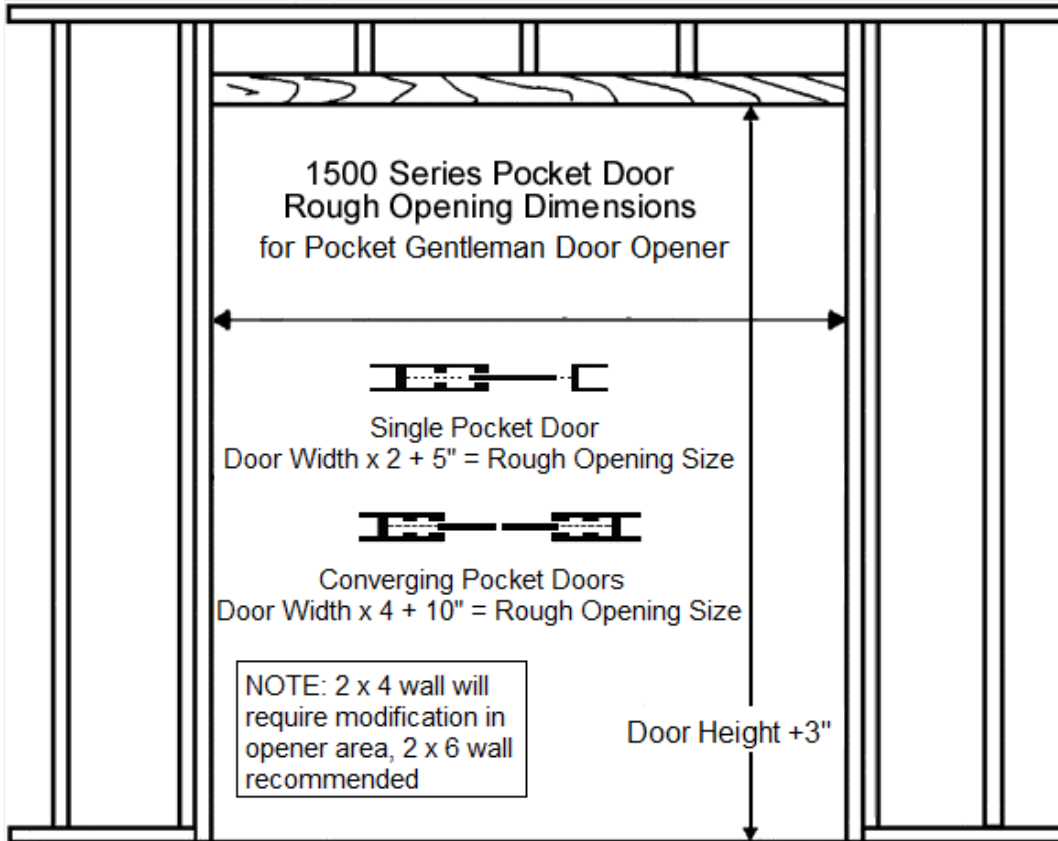


TOTAL R.O. WIDTH = DOOR WIDTH X 2 + 5"  
DO NOT CUT TRACK!!

R.O. HEIGHT = DOOR HEIGHT + 3"

Figure 2

**ROUGH OPENING MEASUREMENTS - IMPORTANT!**



Example: 30" (Door size) x 2 = 60" + 5"(needed for opener) = 65" Rough Opening

**HARDWARE PACK**

Johnson Pocket Door Hardware included with *Pocket Gentleman* Door Opener



## INSTALLATION

- Mount the pocket door hardware using the modified Johnson installation instructions below. Plan accordingly to allow room for the operator; the instructions are only a guideline.
- The REQUIRED mounting orientation is with the cylinder over the opening. (Step A)
- The cylinder and trolley must be free to move, do not apply any pressure to either with finished wall or trim panel. Please do not cut the track. A 2 x 6 wall is recommended when possible.

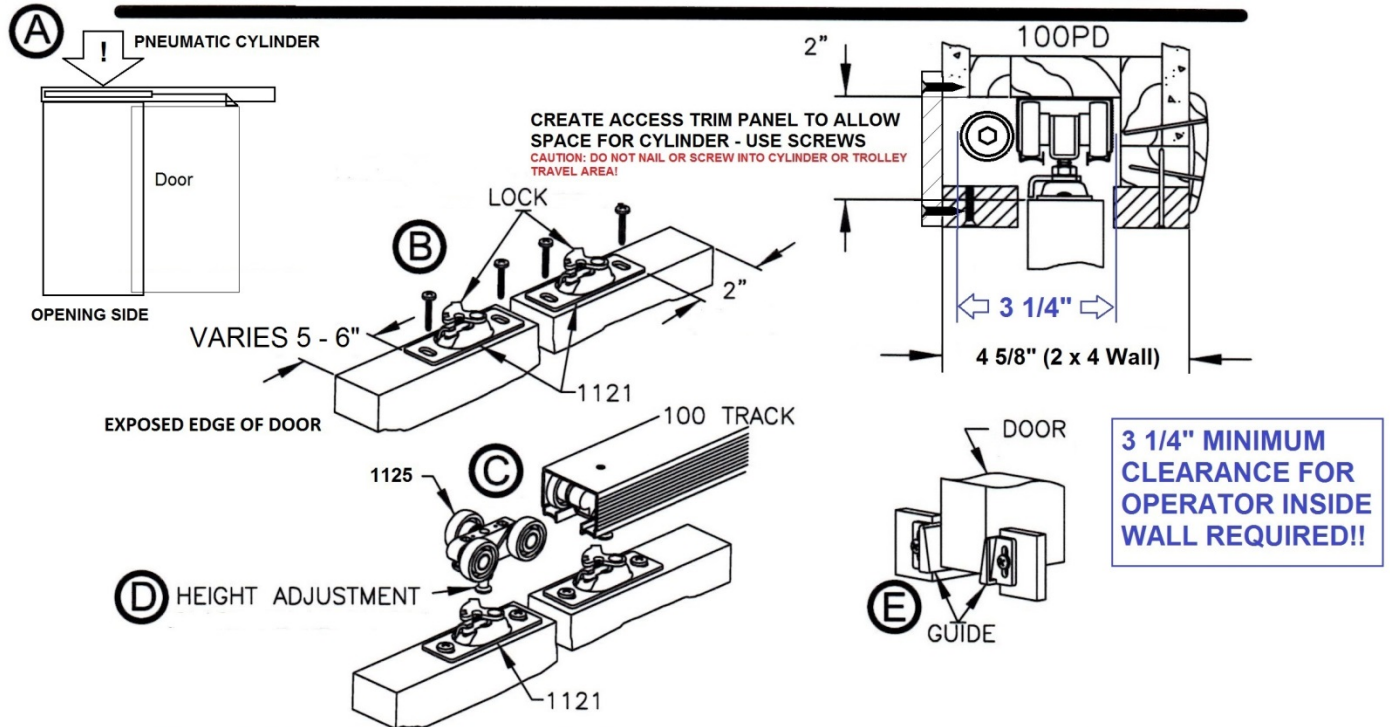


# INSTRUCTIONS

www.johnsonhardware.com

## 100PD SERIES HARDWARE FOR "JOB-SITE" POCKET DOORS WITH GENTLEMAN AUTO REVERSE - AUTO OPEN OPTION

For 1-3/8" to 1-3/4" Doors  
weighing up to 200 lbs.  
NOTE: The lead roller on the  
front trolley does not support  
door.



**NOTE:** Track must be level and square with jamb. Door must be sealed on all 6 sides.  
**A/ IMPORTANT!!** Cylinder must be over door opening for Auto Reverse - Auto Open to function.  
**B/Attach Door Plates (1121)** on top of the door with lock tabs on same side.  
**C/Mount Door** by locating door plate (1121) under adjusting bolt of Hanger (1125) and tilting door until bolt will slide into seat of Door Plate (1121). Repeat with other Hanger/Door Plate.  
**D/Adjust Hangers (1125)** for height and plumb with jamb. NOTE: Front hanger threads factory coated with a mild locktite.  
**E/Attach Guides (1550)** at bottom of opening and adjust so door is centered in opening.

## Low Voltage Electrical Connections:

1. There are Six (6) colored wires (Figure 4) leading from the control box. The Operator Sensor must be connected correctly for proper operation. The connections are as follows:

Door Operator Sensor:

**BLACK** WIRE FROM CONTROL BOX TO **WHITE** WIRE FROM SENSOR  
**GRAY** WIRE FROM CONTROL BOX TO **RED** WIRE FROM SENSOR  
**BROWN** WIRE FROM CONTROL BOX TO **BLACK** WIRE FROM SENSOR

2. Make the connections with the gray wire nuts provided. If you are unsure how to make the connections, consult a qualified electrician.

At this point, the control box is wired so it will open the door automatically when it is slightly opened manually from its closed position. It will remain open for the duration the timer on the Timer Circuit Board (Figure 4) is set. The timer may be set between 10 to 60 seconds by turning the timer wheel. Minimum open time is 10 seconds measured; do not rely on the accuracy of the intervals printed around wheel on timer.

To leave the door open for an extended time, remove the wall transformer from the outlet and open manually. You may also install a toggle switch to hold the door open for extended periods. (See Optional Controls)

Optional Control Features: (Figure 4)

**GREEN** & **RED** WIRE ARE FOR A MOMENTARY PUSHBUTTON TO ACTIVATE DOOR  
**YELLOW** & **RED** WIRE ARE FOR A TOGGLE SWITCH TO MAINTAIN THE DOOR OPEN

DISCONNECT **GREEN** WIRE FROM TERMINAL STRIP (INSIDE CONTROL BOX) AND  
CONNECT **GREEN** & **GRAY** WIRES (INSIDE CONTROL BOX) TO DISABLE PUSHBUTTON ON CLOSING CYCLE

Please note, this system can be interfaced with existing wireless, motion activated, or button systems in place. Consult an electrician or call the factory at 800-525-7078.

3. The sensor mounted on the track must have the correct clearance to function properly. It maintains its position from multiple wire ties holding the sensor conduit to the cylinder. It is calibrated and tested at the factory, only attempt to adjust it if it out of specifications. (Figure 3)

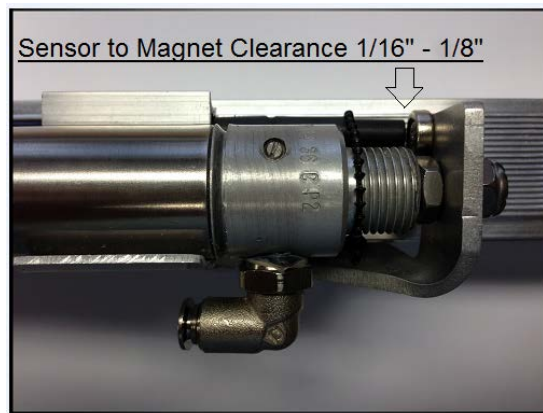


Figure 3

4. During construction of the pocket door opening, create an access panel or mullet to gain access to the sensor and cylinder in case of future adjustment or maintenance.

5. IT IS CRITICAL THE MAGNET REACHES THE SENSOR WHEN THE DOOR IS FULLY CLOSED.

\*FAILURE TO DO THIS STEP WILL CAUSE THE DOOR TO CYCLE AND NEVER STAY CLOSED,  
PAY CLOSE ATTENTION TO THIS CONDITION WHEN INSTALLING AND TRIMMING UNIT.  
BABE RUTH'S MIDDLE NAME WAS HERMAN, IF YOU CALL FOR SUPPORT.

## SAFETY-READ CAREFULLY

**THE WHOLE PURPOSE OF THIS PROCEDURE IS TO ADJUST THE AMOUNT OF FORCE REQUIRED TO CAUSE THE CLOSING PRESSURE TO CEASE AND AUTO REVERSE (RE-OPEN) IF AN OBJECT IS ENCOUNTERED IN A CLOSING DOOR. PROPERLY ADJUSTED, IF IT CLOSES ON YOUR HAND IT SHOULD NOT HURT AND RETURN OPEN. DO NOT, HOWEVER, TEST IN THIS MANNER. RATHER, USE A SOFT INANIMATE OBJECT.**

**CAUTION: IF THE DOOR WILL NOT SUBMIT TO AN OBSTRUCTION WHILE CLOSING, THE PNEUMATIC OBSTACLE DETECTION AND DEACTIVATION IS NOT WORKING PROPERLY. YOU WILL NEED TO REVERSE THE AIRLINE CONNECTIONS AT THE CONTROL BOX GOING TO THE CYLINDER!**

Before attempting any adjustments, do the following:

- Complete all electrical and pneumatic connections
- Manually move the door to the full closed position
- Allow air to flow to control box regulator (Figure 4) unit and insert plug in transformer into an unswitched outlet.
- Cycle the unit; most factory adjustments are sufficient to cycle the door properly the first time.

### Adjustment of Pocket Door Operator:

**NOTE: THE UNIT IS ADJUSTED AT THE FACTORY, PLEASE MAKE CONNECTIONS AND CYCLE THE UNIT SEVERAL TIMES BEFORE MAKING FURTHER ADJUSTMENTS.**

1. Make sure remote control or switching system you are using is operational and the **Regulator (Figure 4)** has 90-100 PSI air supply coming into it. (Figure 2)
2. Activate control box to open the door or you may depress the manual activation button on the top of the solenoid to simulate the solenoid being energized.
3. At the **Regulator** inside control box, increase pressure (turn clockwise) to the point where door will just open. (Minimum point) Further Increase pressure at **Regulator** approximately one additional turn.
4. Deactivate solenoid valve to close door and observe operation.
  - A. If door closes all the way:
 

Open vent on **Flow Control Bleed Valve (Figure 4)** (turn CCW) and repeat steps 2 and 5 waiting about 5 seconds between steps. Repeat this procedure until door will not fully close (i.e. stops) before reaching fully closed position.
  - B. If or when door closes part way and stops:
 

Close vent on **Flow Control Bleed Valve** (turn clockwise) and repeat steps 2 and 5 waiting about 5 seconds between steps. Repeat this procedure as many times as necessary until door will fully close 100 % of the time. Try to approach this point with very small incremental adjustments.
5. Observe closing speed.
  - A. If door closes too slowly (more than about 7 seconds), increase pressure at **Regulator** (Step 3) approximately 1/2 turn and repeat step 4.
  - B. If door closes too quickly (less than about 4 seconds), decrease pressure at **Regulator** approximately 1/2 turn and repeat step 4.
6. Open or close valve marked **Needle Valve (Figure 4)** to increase (CCW) or decrease (CW) opening speed only. Again, adjust to the 4 to 7 second range.

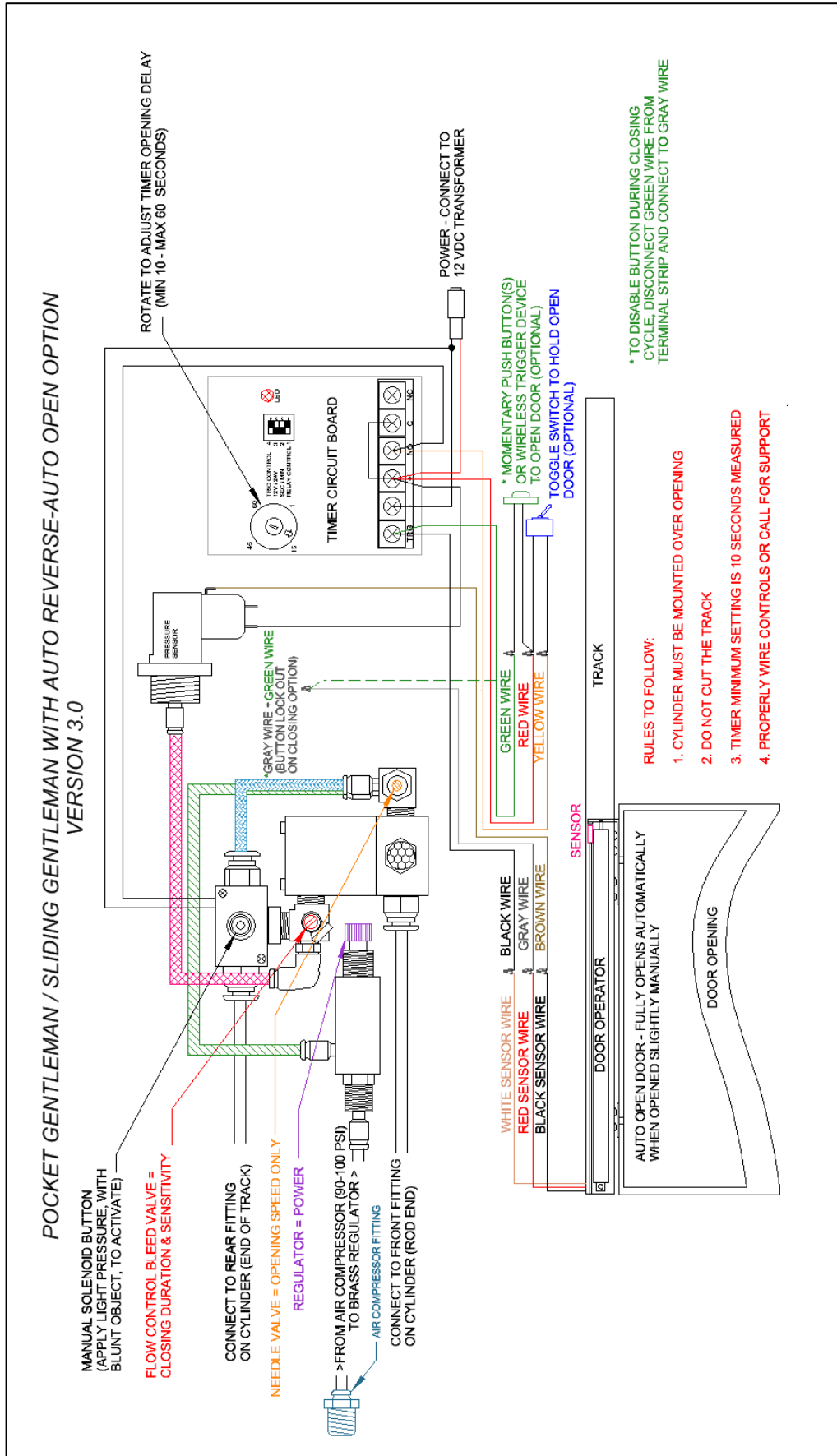


Figure 4

Thank you for choosing Gentleman Door Automation!