



## 710-8 Kit Installation Instructions



Actuators, Toggle Valves, fittings and 200' of tubing are included for the installation. You need to supply a source of clean compressed air at 40 psi.

We recommend that an air filter be included in your system, such as our 600 35 micron filter.

A 1/8"NPTM to 1/16" barb fitting is included to convert from your source of air to the standard E-Z Air tubing size. A 262 12 Station Manifold is included to split the air line for connecting to the 610 Toggle Valves. Also included is a barb plug for plugging an unused barb. Use a small "U" of tubing to plug 2 barbs.

The air from the manifold is input to the black barb fitting on the 610 valve. Run the connecting airline from the white fitting on the 610 to the black fitting on the 510 Actuator.

The available throw of the Actuator is approximately 1/2". This is sufficient for most turnouts in all gauges up through 45mm (G, #1)

If you are mounting the Actuator to control a turnout that is free floating in ballast, you must provide some sort of mounting platform that is solidly attached to the turnout. Please see the picture on page 2.

Screw the sleeve with the wire protruding to the Actuator rod. This is easier if you apply air to the Actuator first. Form the wire to fit to a hole drilled in the tie bar. If you are installing the Actuator on a sectional track turnout, it's best to use a hole just larger than the supplied wire instead of the large hole where the factory mechanism operated the tie bar. Bend the tie bar end of the wire in a "Z" or "U" shape so that the wire won't work it's way out of the hole in the tie bar during operation. With no pressure applied to the Actuator, move the Actuator away from the turnout with it's axis perpendicular to the turnout until there is some

spring tension on the tie bar, holding the points in the "normal" position. This is just a small amount, 1/16" or so. Mark the position of the holes in the bracket. Pre-drill holes for the #4 flat head mounting screws, if needed. Mount the Actuator using the #4 flat head screws. Apply 40 psi air pressure to the Actuator and test the operation. Adjust the wire or Actuator position as needed.

The 610 Toggle Valves mount in 15/32" holes. Drills and punches are available in this size. Check your local hardware store.



This is an LGB turnout with a 510 Actuator mounted, ready to go out in the garden. The Actuator is mounted away from the track, so that it may be covered by a small structure or pile of ties. This is only for appearance sake, as the Actuator is weatherproof. When ballasted, the wooden block will be covered. It may be painted first to help disguise it more.

Parts included in the 710-8 Kit:

- (8) 510 Actuators (Actuator, bracket, lock washer, 4-40 to wire sleeve, linkage wire, 2 #4 flathead screws)
- (8) 610 Toggle Valves
- (1) 402N 200' 1/16" id brown E-Z Air tubing
- (1) 050 1/8"NPTM to 1/16" barb fitting
- (1) 262 12 Station Manifold
- (1) 210K barb plug
- (1) 710-8 Instructions