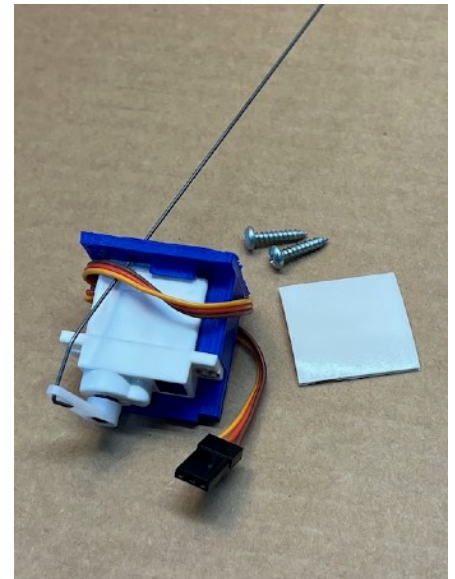


How to Install a Micro Switch Machine

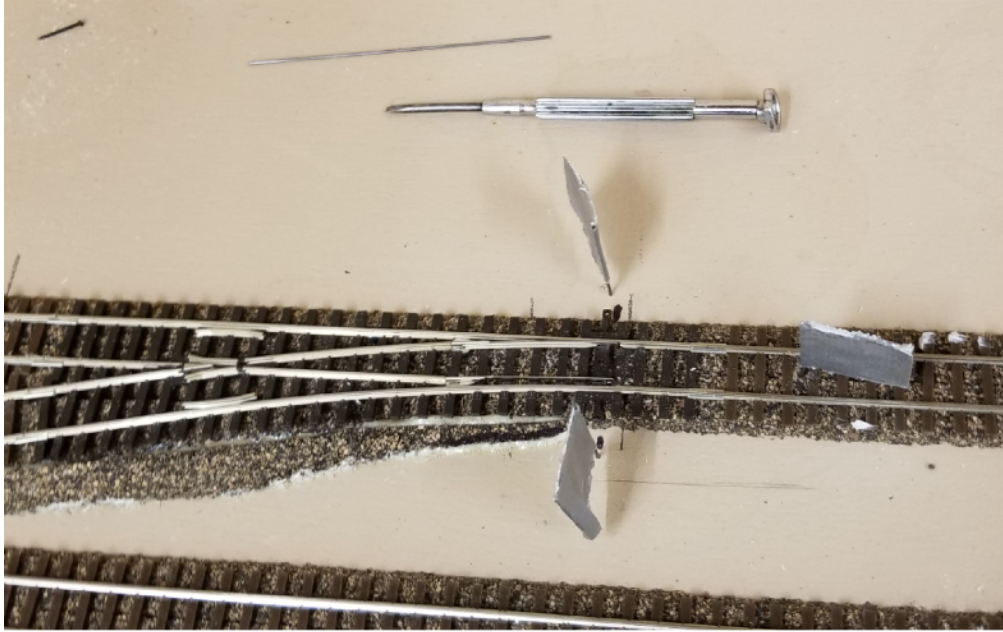
by Jerry DesRoschers



Lay the switch on the layout in place and mark the two ends of the throw-bar and the hole you will use to throw the switch. Drill a $\frac{3}{8}$ inch hole where the wire will be located (in our case this is the center of the throw-bar).



Replace the switch in its location, with the center of the throw-bar hole located over the pre-drilled hole. Drill three holes, two on either side of the throw bar and one along the centerline of the track behind the switch. These will be used to align the switch machine accurately underneath the layout.

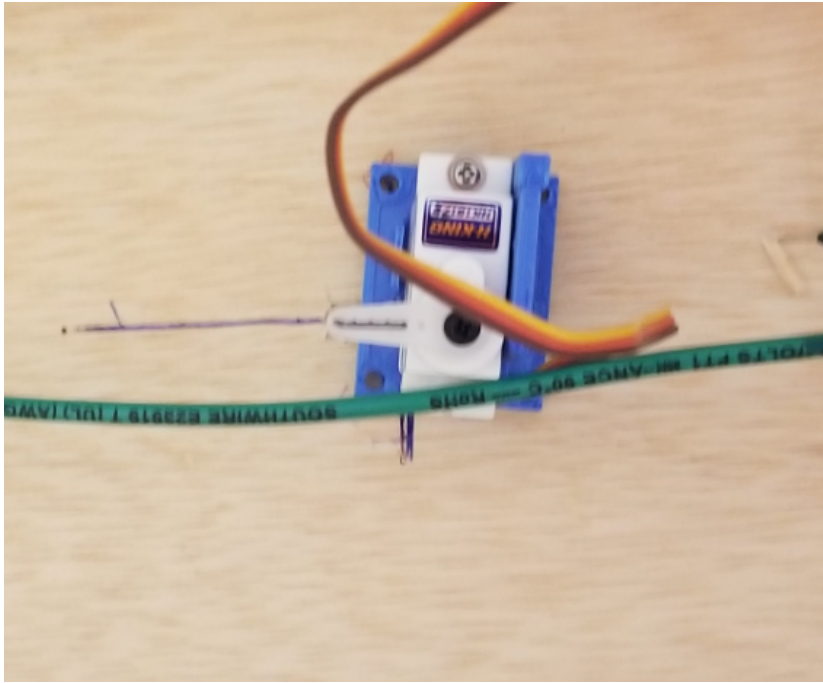


Install wires with tape flags in each of the holes to keep them in place.



From below the layout, draw two lines, one from the center of the $\frac{3}{8}$ inch hole to the flag behind the switch, and the other between the two flags on either side of the throw-bar through the center of the $\frac{3}{8}$ inch hole.

The line between the flags on either side of the throw-bar should be perpendicular to the arm and the point of intersection should be where the wire is threaded back into the arm closest to the switch machine.



Put double-sided tape on the bottom of switch machine (trim so as not to block any of the holes).

Center the switch machine with a Servo Centering Tool or using the centering function on an Octo III, Micro Singlet or SwitchWright board.

Thread the switch machine wire through the hole in the center of the throw-bar and secure the switch machine in place such that the arm is parallel to the line from the center of the $\frac{3}{8}$ inch hole to the flag behind the switch. The tape will hold the switch machine temporarily.



Put styrene spacers on either side of the switch points to center the switch. This should give you a wire that points straight up, which is the desired orientation. Remove the styrene spacers, test the switch.

Secure it in place with the provided screws. From below the layout, drill a $\frac{1}{16}$ inch pilot hole in two holes kitty-corner from each other and then add two screws