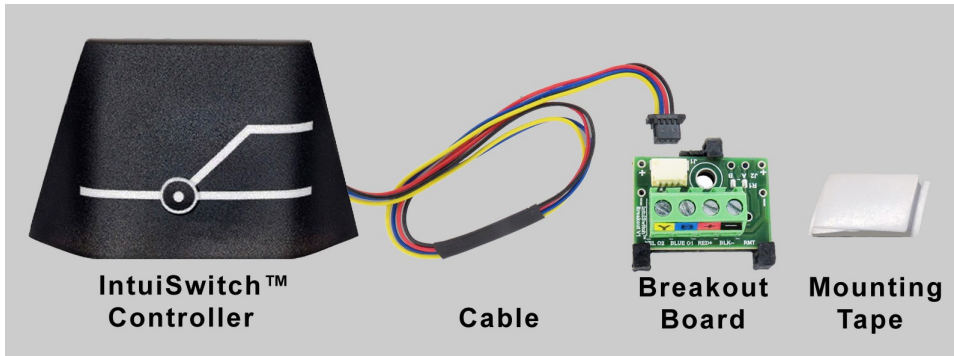# Installation Instructions for the V2.0 Classic-style IntuiSwitch™ Controller

What's in the Package
The following items are included in the package with a classic (trapezoidal style) IntuiSwitch™ controller:

IntuiSwitch™ Controller   **Cable**   **Breakout Board**   **Mounting Tape**

Mounting the controller
Drill a small hole (5/16 inch is sufficient) in the fascia to accomodate the four-wire cable.

Remove the red lining from the permanent self-adhesive strips on the back of the control.

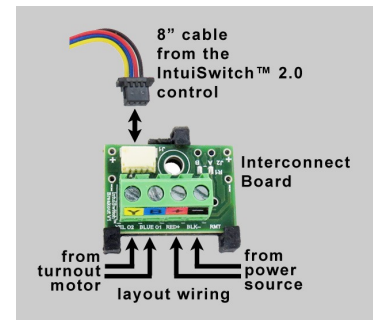Insert the four-wire cable through the hole in the fascia.

Push the control firmly onto the fascia.

Wiring the controller
Choose a location for the wiring breakout board, which provides an easy interface between the 8" cable attached to the IntuiSwitch™ controller and your layout wiring.

You can secure the breakout board to benchwork with a #4 screw or with the supplied white mounting tape.

The cable from the IntuiSwitch™ controller plugs into the white connector on the breakout board. Orient the cable so its black wire is nearest the large hole in the breakout board. Hold the cable parallel to the breakout board when inserting it into or removing it from the white connector.
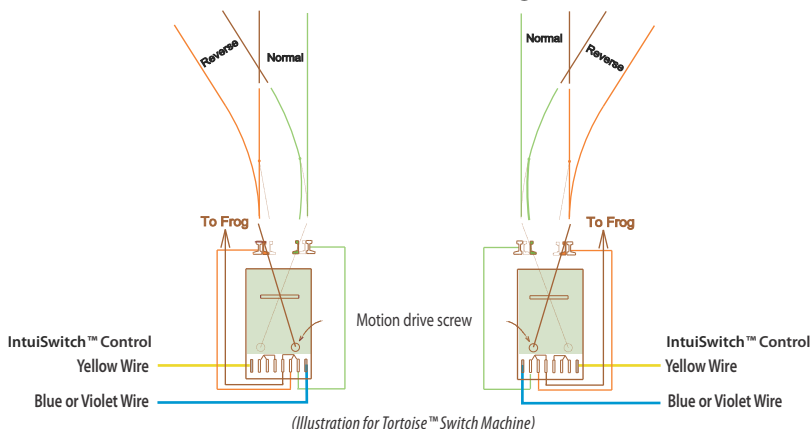
The controller can be powered by 12-24 Vdc (15 Vdc is recommended), 10-16 Vac, or DCC track power. Because each turnout's stall motor draws power (18 mA with the controller), connecting many controllers to track power reduces the power available to the trains. A separate dedicated source is recommended. Connect the power to the black (-) and the red (+) screw terminals on the breakout board, observing polarity if using a DC power source.

Connect the turnout's motor to the blue and yellow screw terminals on the breakout board. Swap the two leads if needed to match the turnout's status to that shown on the controller.

(Illustration for Tortoise™ Switch Machine)

Route follows turnout to side of motion drive screw.
The wiring for an insulated-frog turnout is shown.
Either set of Tortoise™ switch contacts may be used.
Connect the three conductors used for the frog connection
(for example, - green, brown, and orange) as shown in the
illustration.

Green	**Normal outer rail**
Brown	**Frog**
Orange	**Reverse outer rail**