

ALDON® SWITCH CUBE®

Railroad Switch Direction Indicator

INSTALLATION GUIDE



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Before installing, be sure you have the correct Switch Cube® Indicator assembly for your switch stand.

LEFT-HAND SWITCHES



4015-164 (Double Yellow)
4015-164-I (Double Yellow Illuminated)



4015-160 (Red Stop)
4015-160-I (Red Stop Illuminated)



4015-284 (Double Red)
4015-284-I (Double Red Illuminated)

RIGHT-HAND SWITCHES



4015-165 (Double Yellow)
4015-165-I (Double Yellow Illuminated)



4015-163 (Red Stop)
4015-163-I (Red Stop Illuminated)



4015-285 (Double Red)
4015-285-I (Double Red Illuminated)

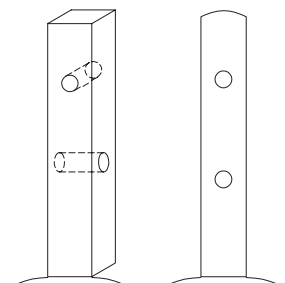
1. Line the switch for main track through travel

Left-hand switch (shown right) is lined for through travel and shown from the viewpoint of the "switch point" end.



2. Prepare the switch stand mast for the Mounting Platform.

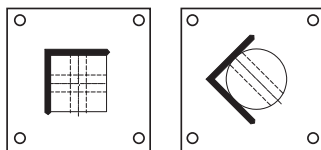
Mounting Platform underside and top



Square mast Round mast

Remove any sleeve over mast.

Slotted angle bracket has been factory welded for square or round mast.



Fasten the top plate/name plate to the mast using (4) Phillips head screws. Top plate must sit "square" to the track. To square up top plate, loosen name plate screws.

3. Bolt the Mounting Platform to the switch stand mast.



Left-hand switch, viewed from "switch point" end. Mounting platform is in place and ready for sign plates.

4. Install 2 green plates, one opposite the other on the Mounting Platform.

Start by installing one green plate on the "switch point" side of the mounting platform.



Then install the other green plate on the opposite side of the platform (the "frog" side.)



Both green plates will be perpendicular to the track.

The view at right is from the "switch point" end of a left-hand switch.

Green signs indicate that the switch is lined for through travel in either direction.

5. Next, line the switch for movement into the side track.



Note that in lining the switch for side-track movement, the green plates have rotated 90° and are now parallel to the track.

6. Install the yellow plate on what is now the open “switch point” side of the mounting platform. The yellow plate will be perpendicular to the track.



The yellow plate with upward facing black arrow indicates that the switch is lined for side track movement. (In this case a left-hand turnout is shown.)

7. Now install the last of the four sign plates.

Depending on the model of Switch Cube® Indicator there will be a yellow plate with a black arrow pointing downward in the direction of the turnout; or a red plate with a white bar; or a red plate with a white arrow pointing downward in the direction of the turnout.



The red or yellow sign plates (at either end of the switch) mean that the switch is lined for the turnout. Traffic on the main track approaching the switch must stop and not proceed. After all the sign plates are positioned correctly, install all (4) aluminum corner brackets.

8. Check your work.

Stand at the “switch point” end of the switch. “Read” the switch points and look at the sign on the Switch Cube® Indicator. Does the sign agree with the position of the switch points?



Switch is lined for side track movement and yellow plate with diagonal arrow indicates this.

9. Now, as a final check, line the switch back for main track through-travel.

The green plates should be visible from both “switch point” end and “frog” end of the switch.



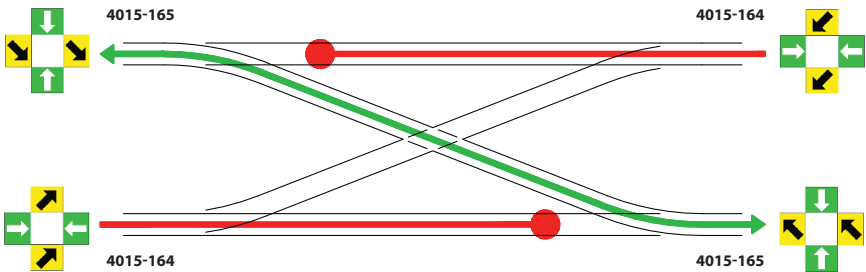
CAUTION

1. Always “read” the switch points to be sure that the Cube plates correctly reflect the position of the switch.
2. The Cube must be square to the track. If it is not, loosen the (4) screws securing this plate and rotate the Cube until square to the track. Re- tighten the screws!
3. If you change the rotation of the switch stand through repair or replacement of parts, you will need to re-install the four Cube sign plates so that they correctly reflect the movement of the switch points. Make sure the Cube is square to the track.

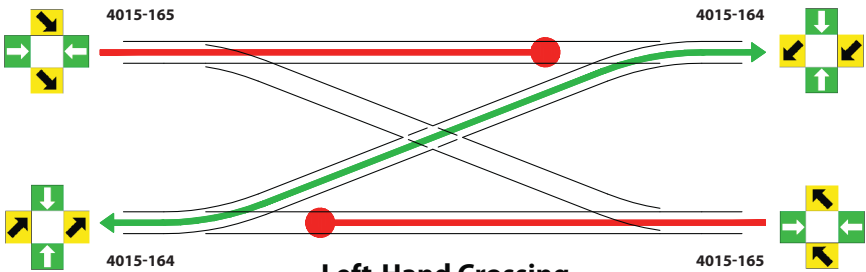
Installation Diagram:

SWITCH CUBE® INDICATORS for CROSSOVER SWITCHES

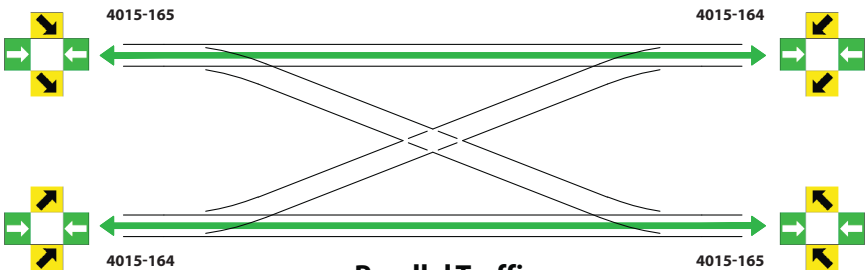
Install one 4015-164 (left) and one 4015-165 (right) at each end of the crossover switch.



Right-Hand Crossing



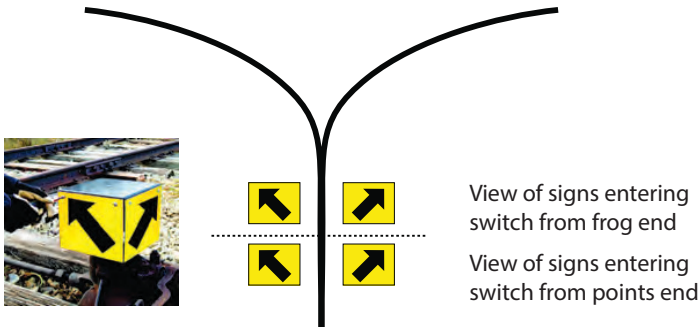
Left-Hand Crossing



Parallel Traffic

INSTALLATION GUIDE for WYE TRACK SWITCH CUBE® INDICATORS

Simple Wye: Left/Right

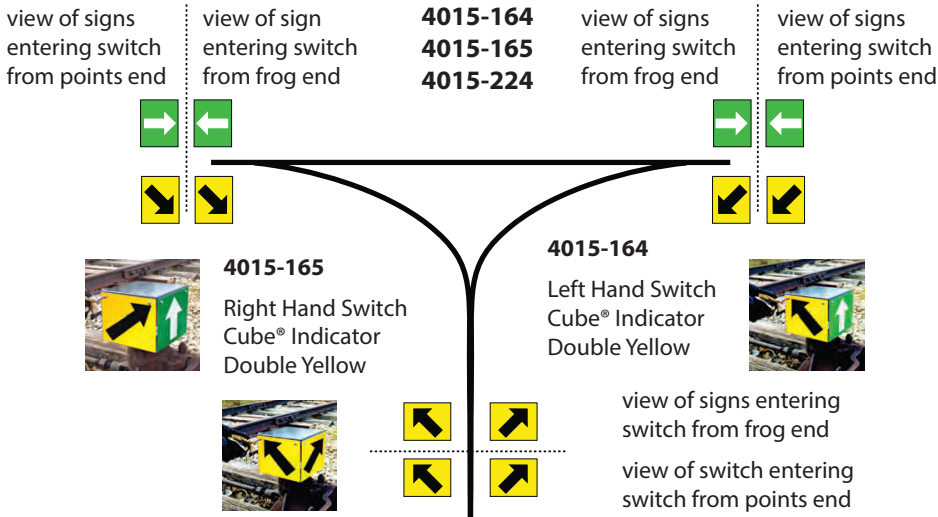


Order 4015-224

Switch Cube® Indicator
for Stem of Wye Track

3-Point Turning Wye Track

Order 1 each!



4015-224 Switch Cube® Indicator for Stem of Wye Track

INSTALLATION GUIDE for ILLUMINATED SWITCH CUBES

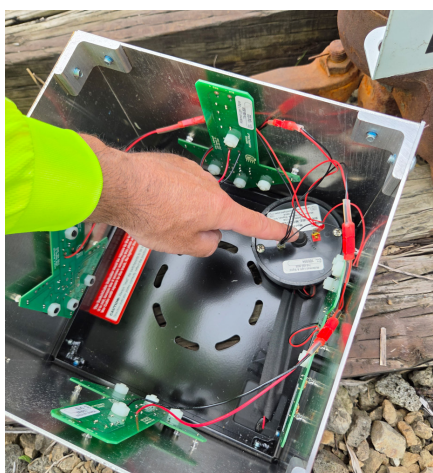
Please note, illuminated switch cubes are sold fully assembled except for the mast.

1. Mast Installation.

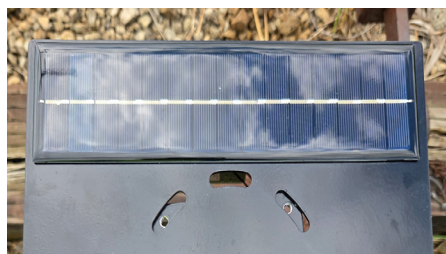
Remove the existing target. Use the mounting hardware provided to attach the switch cube mast to the switch stand.



2. Turning On Your Switch Cube.



Flip your switch cube upside down and press the black rubber button on the battery drum. Next, cover the solar panel and the arrows on the cube will flash. If they do not, press the button.



3. Switch Cube Installation.

Position the switch cube on top of the mast. The cube must match the track orientation. Align the slotted holes with the threaded holes on the mast. Position the name plate over the holes and fasten the switch cube to the mast using (4) Phillips head screws. Make sure the cube is square to the track before fastening the screws completely.



4. Switch Cube Alignment.

Stand at the “switch point” end of the switch. “Read” the switch points and look at the Switch Cube® Indicator. The cube must match the track orientation.



Now stand at the “trailing point” of the switch. “Read” the switch points and look at the Switch Cube® Indicator. The cube must match the track orientation.

Next, throw the switch and check the Switch Cube® Indicator. The cube must match the “switch point” end and “trailing point” end of this track orientation.



CAUTION

- 1. Always “read” the switch points to be sure that the Cube plates correctly reflect the position of the switch.
- 2. The Cube must be square to the track. If it is not, loosen the (4) screws securing this plate and rotate the Cube until square to the track. Re- tighten the screws!
- 3. If you change the rotation of the switch stand through repair or replacement of parts, you will need to re-install the four Cube sign plates so that they correctly reflect the movement of the switch points. Make sure the Cube is square to the track.

Related Items

Safety Hook for Switch Stands



Fits a variety of switches

4024-303

Switch Point Clamp & Lock



Fits 85-142 lbs. rail

4023-07

Easy Throw Switch Handles



For 12 RT, 12 RTH, 22, 50A, 51A, and 36 stands

4124-217
4124-217-A
4124-217-B

Switch Brooms



Wood or Aluminum Handles

4023-19
4023-21



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