

# Split/Jaw STATION STOPPER<sub>v1</sub>

## Wireless Sensor System

The Wireless Sensor system includes sensor transmitters and a wireless receiver board attached to the Station Stopper.

### Wireless Transmitters

The Station Stopper includes two wireless sensors which are pre-configured for “START DECEL” and “STOP NOW”. These operate with a 9V battery that should last well over a year, so removing the battery is not necessary when trains are not running. The train will carry a magnet that will trigger the sensors. Both the wireless transmitter and receiver board will blink blue when a train has been detected. Please protect the transmitter module from moisture.

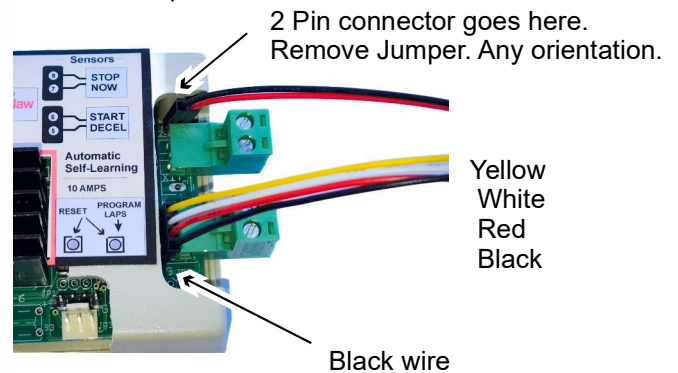


### Wireless Receiver - Station Stopper Cable Attachments

The wireless receiver board is attached to the Station Stopper with the two cables provided.

- The 2 pin cable attaches to the 2 pin header next to the sensor connectors. A jumper is installed in that location which must be removed. There is no polarity, install in either orientation. **Note that the jumper must be replaced when the wireless receiver is removed.** (Please don't lose the jumper!)

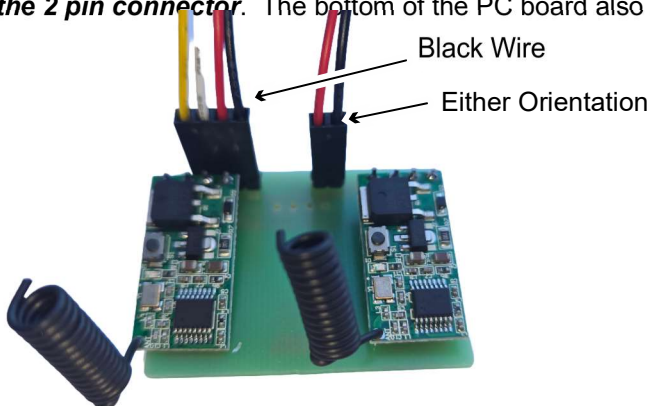
- The 4 pin cable is attached to the 4 pin header next to the sensor connectors. **Install with the black wire away from the 2 pin connector.** The polarity must be correct to operate, but the receiver board will not be damaged if installed backwards.



### Wireless Receiver Board Cable Attachments

Install cables as shown.

- The 2 pin cable attaches to the 2 pin header in any orientation.
- The 4 pin connector attaches to the 4 pin header **Installed with the black wire towards the 2 pin connector.** The bottom of the PC board also notes the location of the black wire.



After the cables are attached the Station Stopper is ready to run! The receiver board may contain up to three wireless receiver modules, however only two are required for operation. These are labeled as “DECEL” and “STOP” on the bottom. When the corresponding sensor is triggered there should be a blue flash on the receiver module. See “Programming wireless sensors” for more information on adding or replacing sensors.

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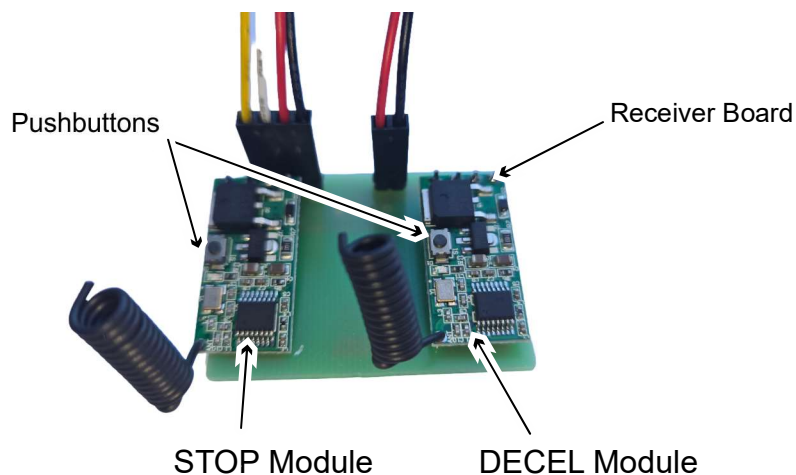
## Programming Wireless Sensors

The Station Stopper is shipped with the DECEL and STOP wireless sensors pre-programmed, however it is possible to add, replace, or remove sensors at any time.

Similar to garage door openers, sensor transmitters are 'married' to a receiver. However, this has already been done for you.



All programming is done on the Receiver Board, the transmitters are not programmed. The Receiver Board contains two modules, each with their own programming pushbutton. These modules are DECEL and STOP.



*For all programming, the Station Stopper must be connected and powered up to provide voltage.*

## Erase All Connections

To erase all connections on a module, PRESS THE PUSHBUTTON EIGHT (8) TIMES. The module will respond with several blinks.

## Connect a Transmitter to a Receiver Module

One or many transmitters (sensors) can be married to a receiver. Perform these steps to marry a transmitter to a receiver:

- 1) Locate the desired DECEL or STOP module on the receiver board. There are identifications on the bottom of the PC board.
- 2) Obtain a magnet to trigger the train sensor on the transmitter.
- 3) PRESS THE PUSHBUTTON ON THE APPROPRIATE MODULE ONCE. After 2 seconds the blue LED will come on.
- 4) Trigger the train sensor with a magnet. The receiver will respond with several blinks indicating a connection.

Repeat for each train sensor, programming the appropriate receiver module.