

# Split/Jaw STATION STOPPER V1

## How to operate:

Attach a magnet to the engine

Voltage in must be 6 to 24VDC,  
NOT pulsed (momentum) and  
NOT DCC. See Below

### Power In:

- Attach the Station Stopper between the transformer and the track.
- Input Voltage must be DC. DCC or pulsed transformers can be used when a PWM to DC converter is in place.
- When the direction on the transformer is "reversed" then the Station Stopper will dis-connect and bypass to allow manual control.
- The Station Stopper can run trains up to 10 AMPS.

### Easy Stop Mode:

- Place a START DECEL sensor where the deceleration should start.
- Set the Transformer to the Running Speed of the Train.
- The train will decelerate and stop with the time delay set by the dial. After the delay the train will accelerate up to top speed.

### Precision Self-Adjusting Mode:

- Place a STOP NOW sensor at the desired stop location.
- Place a START DECEL sensor 3 to 10 feet before that.
- The train may stop short but will eventually go to the sensor as it learns. Sit back and watch. Learning is remembered until reset.
- After each stop the Station Stopper will adjust the creeping speed and deceleration rate until a perfect stop is obtained.
- A perfect stop will decelerate the train and then creep slowly into the station. A White flash will occur after a perfect stop.
- All adjustments are stored in flash memory until reset.
- The Station Stopper will remain in self-adjust mode until reset and the STOP sensor will be required to stop the train.

### Lap counting:

- To see the current setting quickly press button #2.
- To set a new lap count press and hold button #2 and count the blinks. Release with the desired count.

### Shutdown Protection:

- The Station Stopper monitors the train amperage and running time and will shut down on an error.
- If a sudden spike in AMPs occur the RED and BLUE LEDs will flash.
  - If a train is sensed on the track but has not run over a sensor for 5 minutes then the GREEN and BLUE LEDs will flash.
  - To restart, either cycle power or press button #1.
  - To disable the shutdown protection press and hold button #2 for 10 seconds.

### Reset:

Simultaneously press both buttons. This will restart the learn operation, set the Station Stopper into Easy Stop mode, and enable the shutdown protection.

### Pause Time:

Use the dial to set the pause time while stopped. The flashing color indicates the time.

Pause Time Colors				
				
5 Minutes	1 Minute	20 Seconds	10 seconds	5 Seconds

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## Fixed Voltage Power Sources / Speed Mode:

### Details:

Since the Station Stopper is controlling the speed of the train, a fixed DC voltage source could be used instead of a variable speed transformer. These are typically much less expensive and more robust. When a fixed power source is used the Station Stopper is put into "Speed Mode" where the dial will set the top running speed of the train. Usually a 12 to 18 volt power source is used for LGB / Bachmann size trains, and up to 24 volts for larger trains. The dial will no longer be used for the delay time, so the currently set delay will be recorded for use.

### How to set Speed Mode:

1. Set the dial to the desired time delay.
2. Press and hold button #2 until the small blue LED flashes, and while it is flashing, (keep holding button #2), press and release button #1.

The Station Stopper is now in Speed Mode and the dial will limit the top running speed of the train. Turn the dial up or down to set a desired speed. Perform a factory reset to return to normal mode.