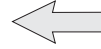
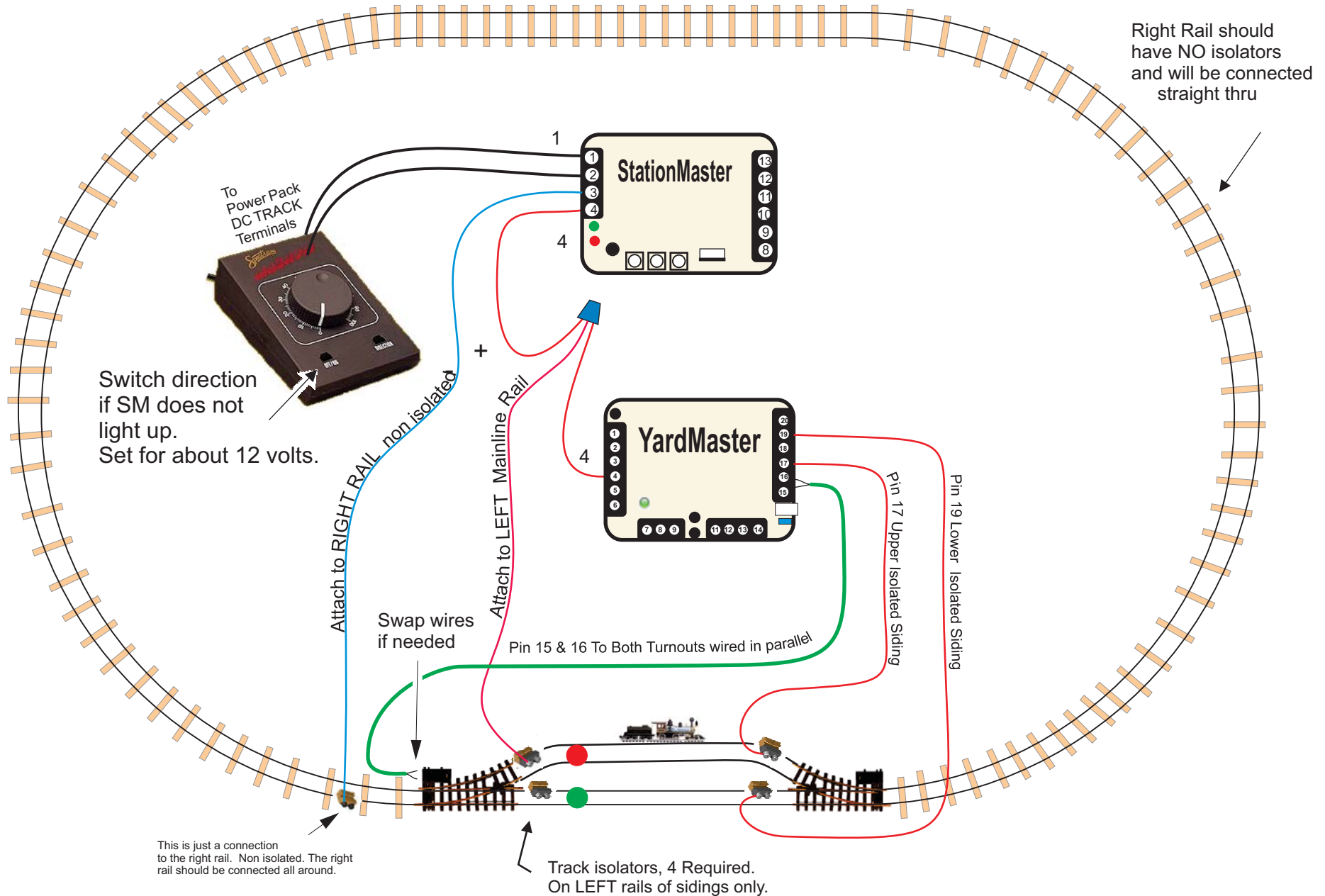


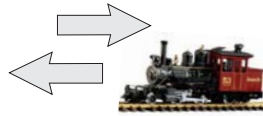
## Alternate 2 Trains at a Siding Trains Travel Opposite Directions



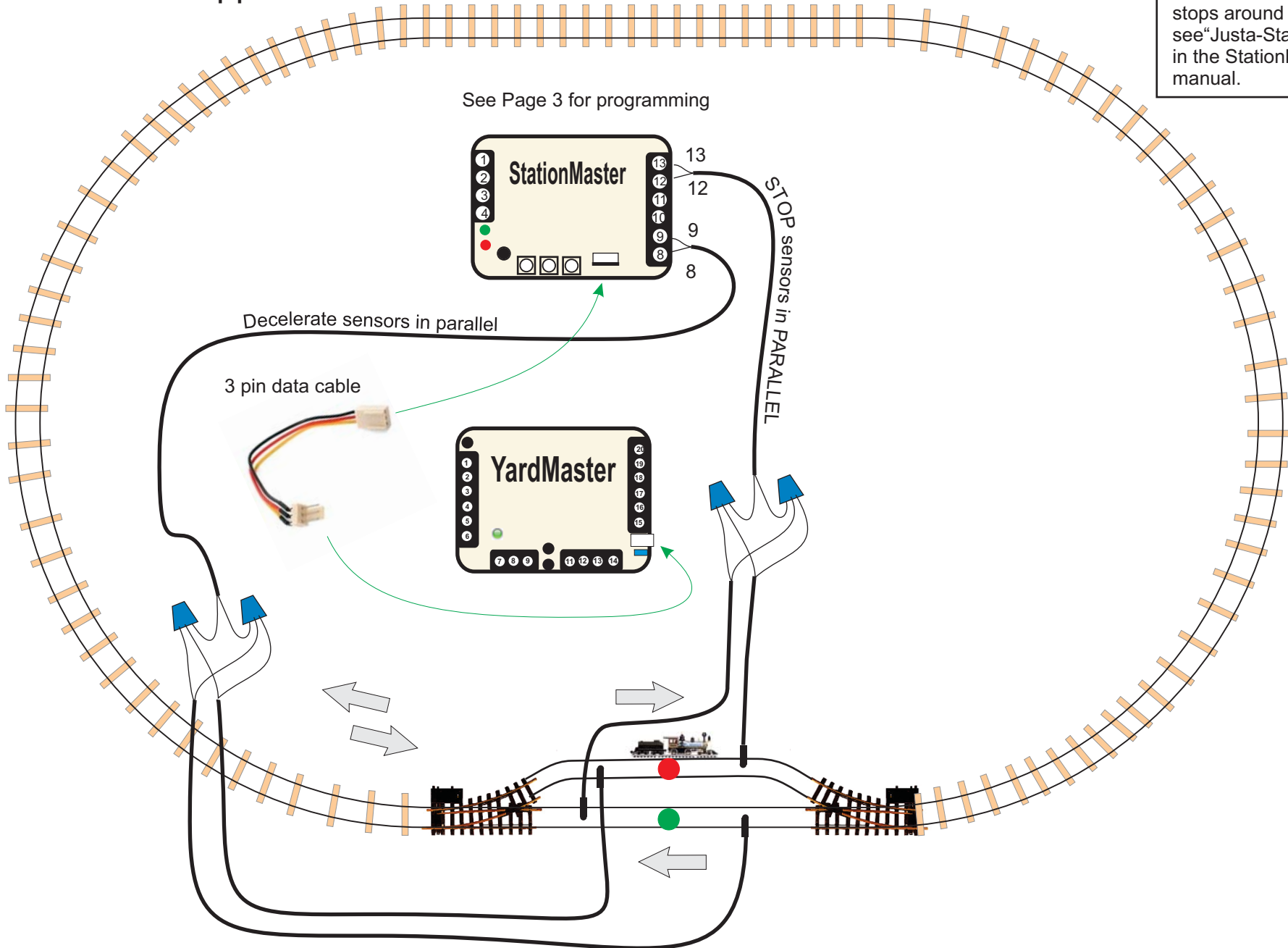
Place MAGNET on bottom of engines.



## Alternate 2 Trains at a Siding Trains Travel Opposite Directions



For additional station stops around the loop see "Justa-Station-Stop" in the StationMaster manual.



## Alternate 2 Trains at a Siding, Trains Travel Opposite Directions.

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### Parts Required:

StationMaster:	Qty 1	4 AMP or 10AMP version.
YardMaster:	Qty 1	
Turnouts:	Qty 2	(Both powered)
Track Isolators:	Qty 4	
Magnets:	Qty 2	(or one per train)
Sensors:	Qty 3	

### Description

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The Alternating 2 train siding will allow 2 trains to run around the layout in opposite directions. One of them will always be in the siding while the other train will be traveling. Trains will alternate using a **programmable lap count**, **programmable time delay**, **self-adjusting deceleration**, and **programmed acceleration rate**. (All can be from factory default except for maximum deceleration which is required for the self-adjusting deceleration.)

#### StationMaster Hookup:

Terminals 8 and 9 are the DECEL sensor inputs and attach to the DECEL sensor as shown. (No polarity) One sensor is located in each siding where the deceleration will start. Sensors are wired in parallel.

Terminals 12 and 13 are the STOP sensor. Attach these to the STOP sensors in each siding wired in parallel as shown. (No polarity) The train will stop just past this sensor.

Terminals 1 and 2 attach to the transformer. Change the train direction on the transformer if the StationMaster does not light up.

Terminal 3 attaches to RIGHT RAIL which is common ground throughout.  
Terminal 4 attaches to YardMaster terminal 4 and the LEFT rail of the main line track section.

#### StationMaster Programming:

- 1) Start with a factory reset for all values.
- 2) Program the deceleration rate to MAXIMUM.
  - a) Turn top speed dial fully counter-clockwise.
  - b) Press and hold down button #1 until the LED flashes quickly.
  - c) Turn the top speed dial fully clockwise.
- 3) Program for "Reverse direction before every acceleration".
  - a) Turn top speed dial full counter-clockwise.
  - b) Turn top speed dial slowly clockwise until the GREEN LED goes on.
  - c) Press and hold button #1 for 5 blinks and release.
  - d) After blinking has stopped turn top speed dial fully clockwise.

#### YardMaster Hookup

Terminal 4 attaches to StationMaster terminal 4 and the LEFT rail of the main line track section. This is the voltage output of the StationMaster.

Terminals 15 and 16 attach to the turnouts wired in parallel. You may need to swap these wires at the turnout as necessary so that the turnout direction (upper/lower) matches the siding which has power.

Terminals 19 and 17 attach to the LEFT isolated rails of the sidings. The YardMaster will switch the voltage entering terminal 4 between these two terminals.

The 3 pin keyed connector attaches between the StationMaster and YardMaster

#### YardMaster Programming:

No programming however a factory reset may be necessary.