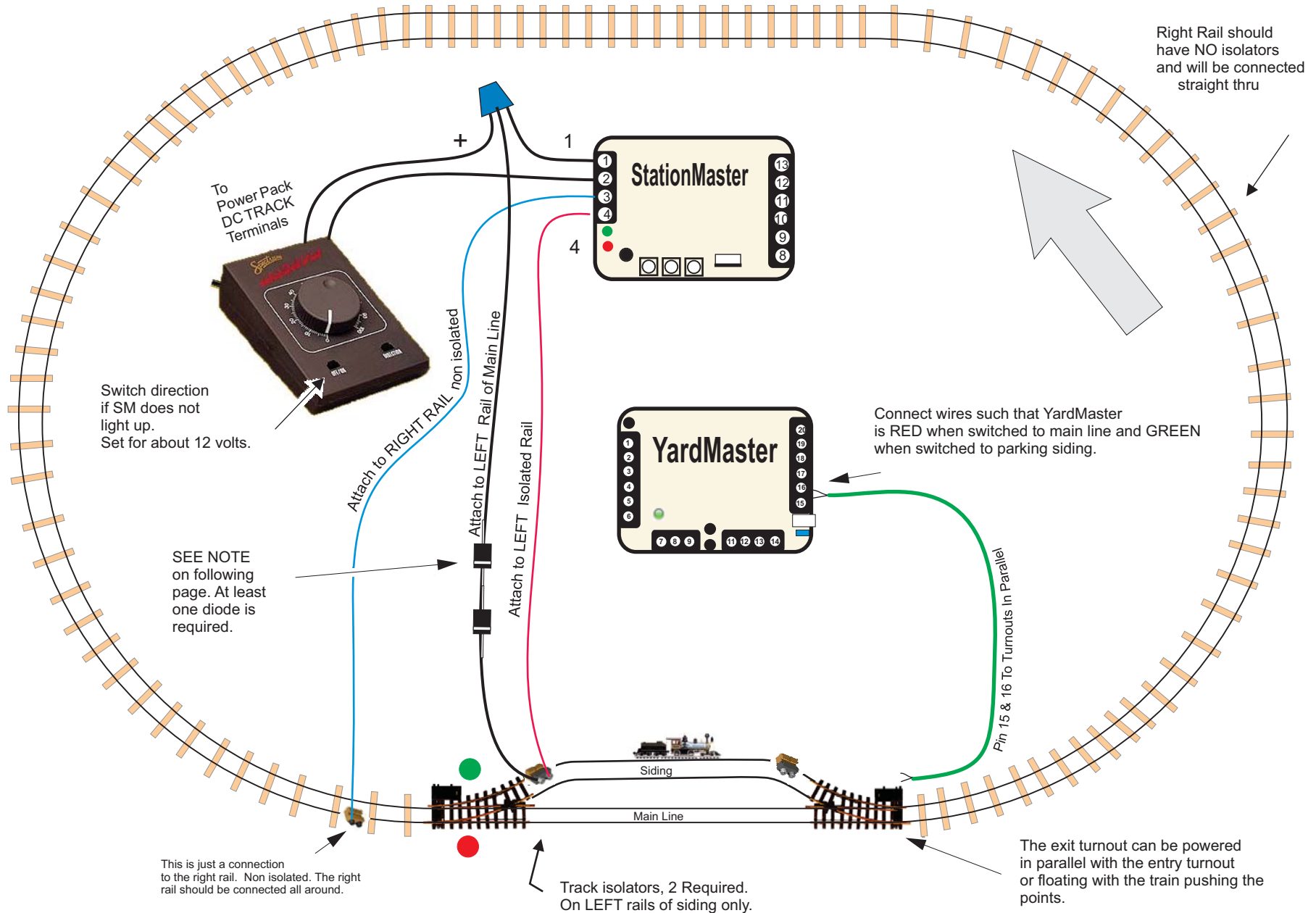
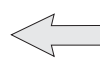


Authentic Leap Frog Passing Siding

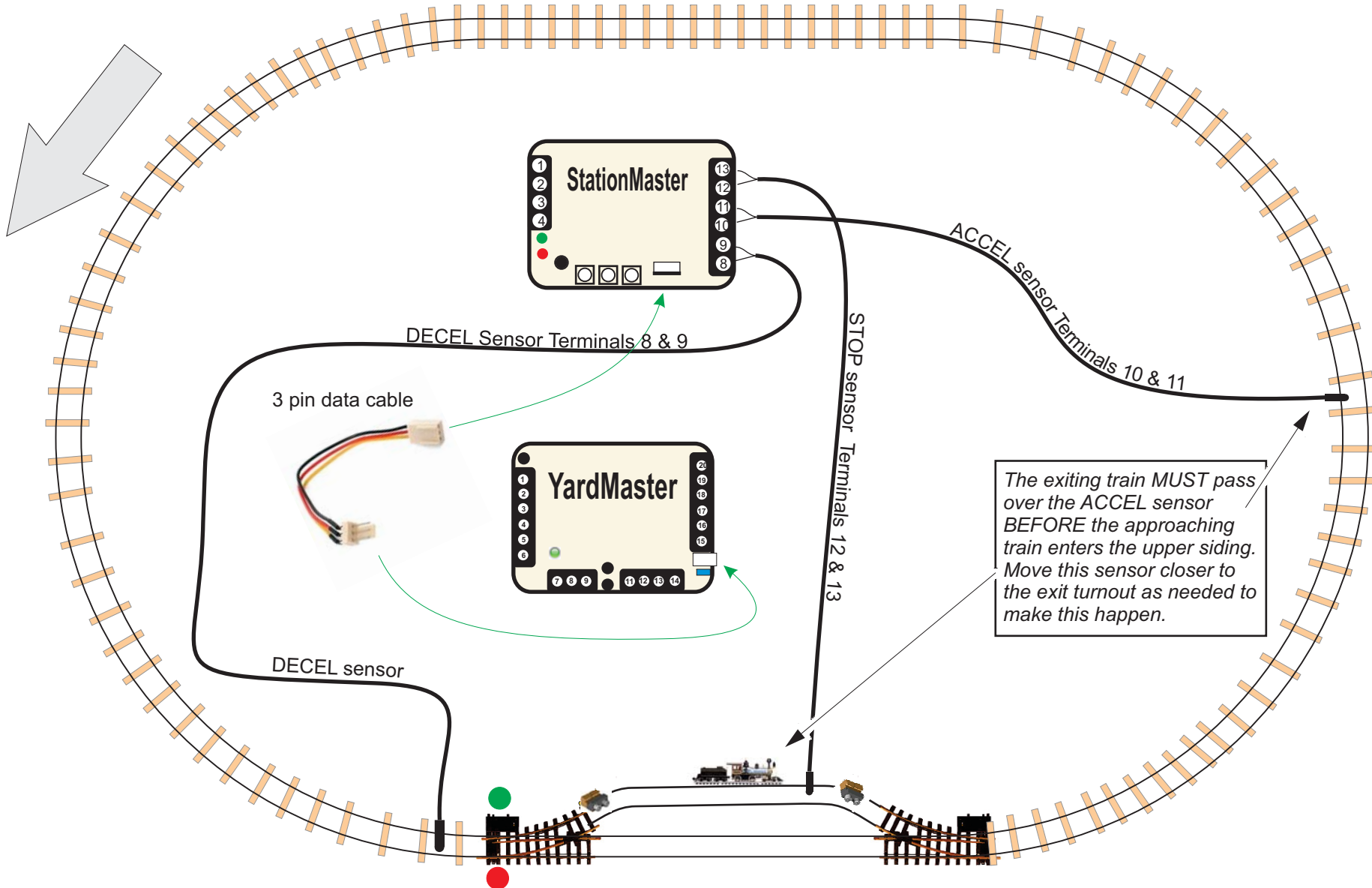


# SENSOR CONNECTIONS, Counterclockwise

## Authentic Leap Frog Passing Siding



Place MAGNET on bottom of both engines.



Notes:

1. Set deceleration rate based upon train speed and distance between sensors. All trains must reach the STOP sensor.
2. StationMaster Programming: ① Factory Reset, ② Time delay = MAXIMUM, ③ Mode "Blinks 2 and 3" set: Fire YardMaster before acceleration & deceleration.
2. Sensors have NO polarity.

RRC Parts Required:

StationMaster: Qty 1  
YardMaster: Qty 1  
Sensors: Qty 3  
Magnets: Qty 2  
Rail Isolators: Qty 2  
Protection Diode As Required.

Description

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The Authentic passing siding (LEAP FROG) will allow 2 trains to run around the layout. One of them will enter the siding and wait for the other train to pass by. After the 2nd train passes by it will trigger a sensor which will release the parked train. Both trains will then be traveling at the same time. This hookup can also allow multiple laps to be run with the trains on the main line before releasing the parked train. See below for details.

**StationMaster Hookup:**

\* Sensors (6 position terminal strip) have no polarity.

Terminals 8 and 9 are the DECEL sensor inputs and attach to the decel sensor as shown. The train will decelerate when passing over this sensor.

Terminals 10 and 11 are the ACCEL sensor inputs and attach to the ACCEL sensor placed at a remote location on the main line. When the train passes over this sensor the waiting train will throw the siding, accelerate, and enter the main line.

Terminals 12 and 13 are the STOP sensor. Attach these to the STOP sensors as shown. The train will stop and throw the turnout after reaching this sensor. Note that the STOP sensor is only active while decelerating. (passing over STOP before DECEL will have no affect unless decelerating)

The XFMR terminals (1 and 2) attach to the DC transformer. (Track output) Note the + and - wires must be correct. If the StationMaster does not light up then reverse the track direction or swap these two wires. The DC voltage should be set for about 12 volts.

The transformer positive wire that is attached to terminal 1 also attaches to the main line track, left rail. If the train on the main line is running too fast then add slow down diodes as required. See additional details on next page.

The Track terminal (pin 4) attaches to the LEFT rail of the isolated siding section. If the train is running too fast turn down the top speed dial of the StationMaster.

**StationMaster PROGRAMMING:**

1. Set *Programming Features* for Green blinks 2, and 3. This corresponds to "Fire YardMaster after deceleration" (blink 2) and "Fire YardMaster before acceleration" (blink 3)
2. See next page for train count programming.
3. Set time delay to INFINITE which is maximum.
4. Set the accel and decel rates as desired. The trains must reach the STOP sensor before stopping. The Self-Adjusting deceleration is not recommended for this hookup.