Reverse Loop Relay

add to your AF (or other twin coil) switch machine for automatic reverse loop operation.

90695

Easily adapt existing reverse loops to automatic operation with this reverse loop relay control. On the backside of this instruction sheet includes the basic wiring needed to accomplish this. These instructions and others can be found on on our web site.

The basic concept of this wiring diagram is to reverse the power while in the loop since while operating the track on AC or DCC, the engine will continue in the same direction. The switch needs to be wired to the manual switch controls as standardly done or via automated switch operation via pressure trips or other detection devices to activate the switch throw when approaching an improperly thrown switch. When the AC power is put to the switch coil, the Reverse Loop Relay unit will also get powered and then change the loop track power to match that of the loop. In this drawing, the AF switch also controls the power of the inner rail so there is no other connections to be done. The outside rail needs to be switched for the outer rails which is why they are totally isolated with the "gap's" from the main rail power. Various other types of applications can be done.

Since the other half of the relay contacts are not uses (sect. A), you can use them to operate signal lights or other items. Drawings for this are on our web site.

Mount the board using #4 or #6 flat head wood screws in an appropriate location. Install wires by stripping insulation back 3/16", place wire in hole, run screw down (CW) to clamp wire in position. Use stranded wire only, solid wire is not recommended.

Improper wiring, application, touching of board/parts to other metal/electrical part, or use will permanently damage the board and is not covered under warranty.

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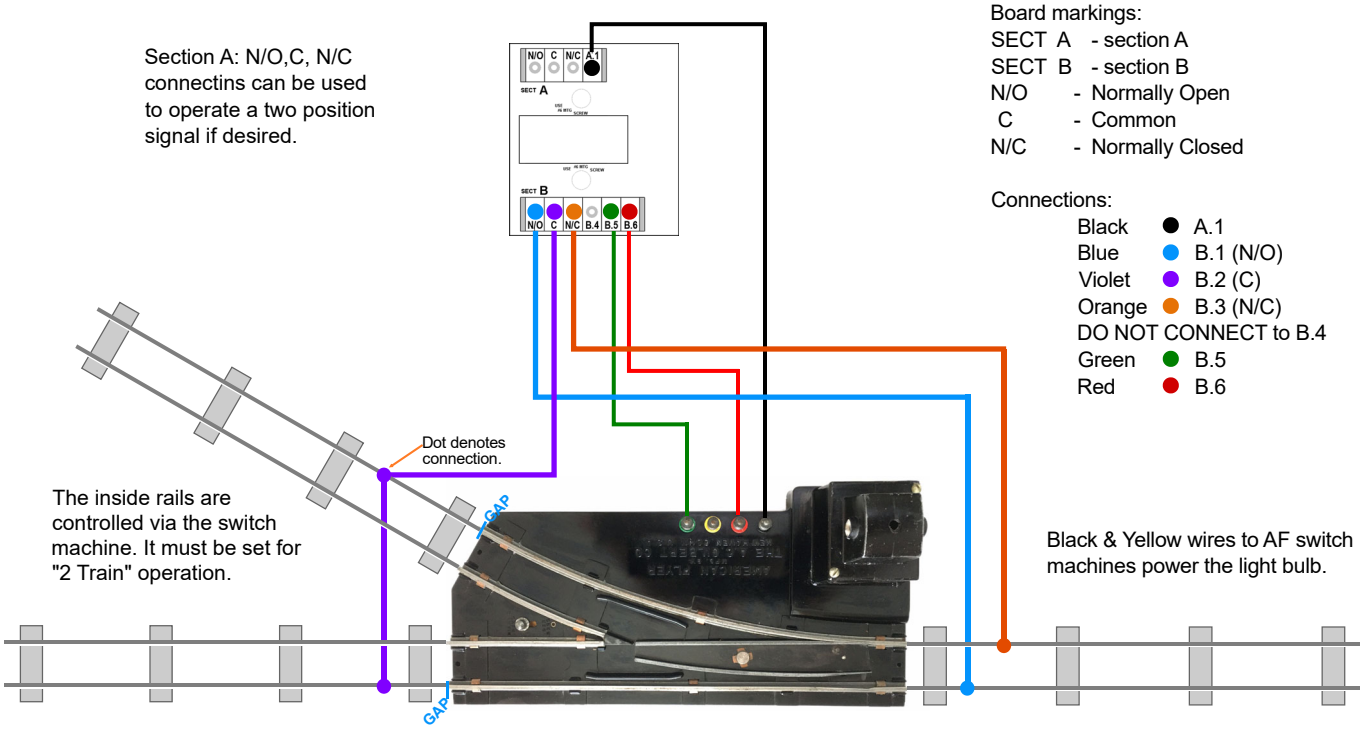
The AF switch machine gets connected as normal to whatever you are operating it with. The connections here are added to the switch machine connections. Remember to use a minimum of a 75 watt power transformer for a single AF switch and adequte wire gauge for proper operation of them. They draw 5 ampere's of current when thrown!

Section A: N/O,C, N/C connectins can be used to operate a two position signal if desired.



Board markings:
SECT A - section A
SECT B - section B
N/O - Normally Open
C - Common
N/C - Normally Closed

Connections:
Black ● A.1
Blue ● B.1 (N/O)
Violet ● B.2 (C)
Orange ● B.3 (N/C)
DO NOT CONNECT to B.4
Green ● B.5
Red ● B.6

GAP - insulated section via an air gap or nylon/fibre rail insulator/joiner.
The steel pin must be pulled from the switch rails.