

# CONNECTING YOUR 99N TRAIN CONTROL BLOCK SIGNAL

## SETUP:

First, you will need to create a special insulated section of track. This special insulated section will require three sections of track, four fibre pins and approximately four square inches of an insulating material.

1. Lay the sections of track down as shown at right.
2. At locations marked with an "X", replace the normal steel track pins with fibre pins.
3. At the locations marked with an "O", insulate the rail from the tie beneath it. Carefully bend the tie tabs up - freeing the rail. Affix the insulating material to the Rail at the appropriate locations. Set the rail back in place, taking care not to cut into the insulating material when bending the tie tabs back down into their original position.

## CONNECTION:

The second step is to affix the lock-ons, connect the wires of your 99N to the proper terminals of the two lock-ons and lock out the direction feature of your train's "E-unit".

1. Affix one lock-on (marked "A") to the insulated rail section so that the outside rail terminal connects under the insulated section directly after the fibre pin as shown.
2. Affix the other lock-on (marked "B") outside the three section insulated track piece.
3. Connect wire #1 to terminal #1 of lock-on "B" and wire #2 to terminal #2 of lock-on "B".
4. Connect wire #3 to terminal #2 of lock-on "A" and wire #4 to terminal #1 of lock-on "A".
5. Lock out your train's "E-unit" in the desired direction of travel.

## OPERATION:

Now, you are ready to operate the 99N Train Control Block signal.

1. "TIMER" mode: This mode of operation will stop the train each time it enters the insulated section. When the train is outside the insulated section, the YELLOW light will be illuminated. When the train crosses into the insulated section, the RED light will illuminate, the YELLOW light will be dark and the train will stop. After a short while, the RED light will turn off, the GREEN light will turn on, and the train will move again. When the train exits the insulated section, the GREEN light will turn off and the YELLOW light will turn back on. Use the "SLOW - FAST" knob to adjust the amount of time the train waits in the insulated section.
2. "CONT" mode: This is the continuous mode. The train will not stop in the insulated section in this mode of operation.

