

# Check Out Steps

**Summary:** These steps show you can verify correct operation of the control unit.

## Turn on Power

- Verify AC power source is connected and ON.
- Verify the power-on indicator light is lighted.

**NOTE:** Items labeled "TRACKAGE" refer to tests you can perform a 2nd time after the trackage is installed and connected per Sheet 15 "Control Unit Cable Connections".

- TRACKAGE: Turn on DC track power to about 12 volts.

## Verify Track Contact T1 Operation

- Verify toggle switch K2 is in the UP position (block power on).
- Hold a #17001 magnet over top of track contact T1

**IMPORTANT:** The directions "front", "rear", "left", and "right" are as defined per this diagram.

- Verify the arm of motor M3 on the control unit moves to the REAR ("red" state-disconnects track power to on/off blocks B2 or B4).
- Verify the RED light on the target signal is lighted.
- TRACKAGE: Verify that both on/off blocks B2 and B4 are DEAD.

## Verify Track Contact T2 Operation

- Verify toggle switch K2 is in the UP position.
- Hold a #17010 magnet over top of track contact T2
- Verify the arm of motor M3 on the control unit moves to the FRONT ("green" state-connects track power to on/off blocks B2 or B4).
- Verify the GREEN light on the target signal is lighted.
- Leave the arm of motor M3 in the FRONT "green" position for the following steps.

## Verify Track Contact T3 Operation

- Verify toggle switch K1 is in the UP position (switching power on).
- Hold a #17010 magnet over top of track contact T3.
- Verify the arm of motor M2 on the control unit moves to the LEFT (connects to mainline block B2).
- Verify the track switch S1 changes to STRAIGHT.
- Verify the upper YELLOW light on the 4 light target signal is lighted.
- TRACKAGE: Verify that on/off block B2 (straight) has power, and on/off block B4 (curved) is DEAD.

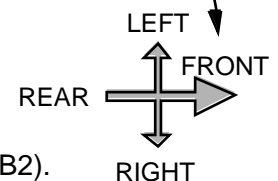
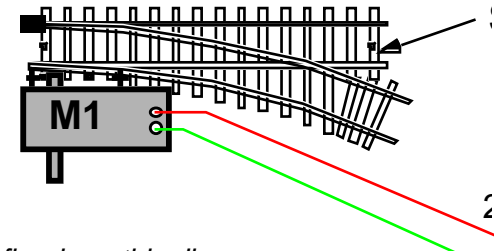
## Verify Track Contact T4 Operation

- Verify toggle switch K1 is in the UP position.
- Hold a #17010 magnet over top of track contact T4
- Verify the arm of motor M2 on the control unit moves to the RIGHT (connects to siding block B4).
- Verify the track switch S1 changes to CURVED.
- Verify the lower YELLOW light on the 4 light target signal is lighted.
- TRACKAGE: Verify that on/off block B4 (curved) has power, and on/off block B2 (straight) is DEAD.

## Verify Rheostat Controls Slowdown

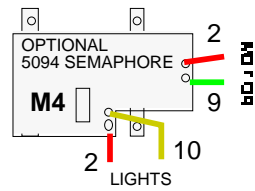
TRACKAGE ONLY:

- Adjust rheostat R1 to maximum clockwise position (maximum voltage to on/off blocks B2 and B4, resistance is zero).
- If possible, place a small engine on the straight slowdown block B1, and put a piece of wood or something in front of it so it will sit in one place and spin its wheels.
- Adjust rheostat R1 for slower speeds by turning CCW. The engine should run slower.
- Repeat the same steps on slowdown block B3, and on/off blocks B2 and B4 when motor M3 is in the "green" position.



**WIRING COLOR CODE:**

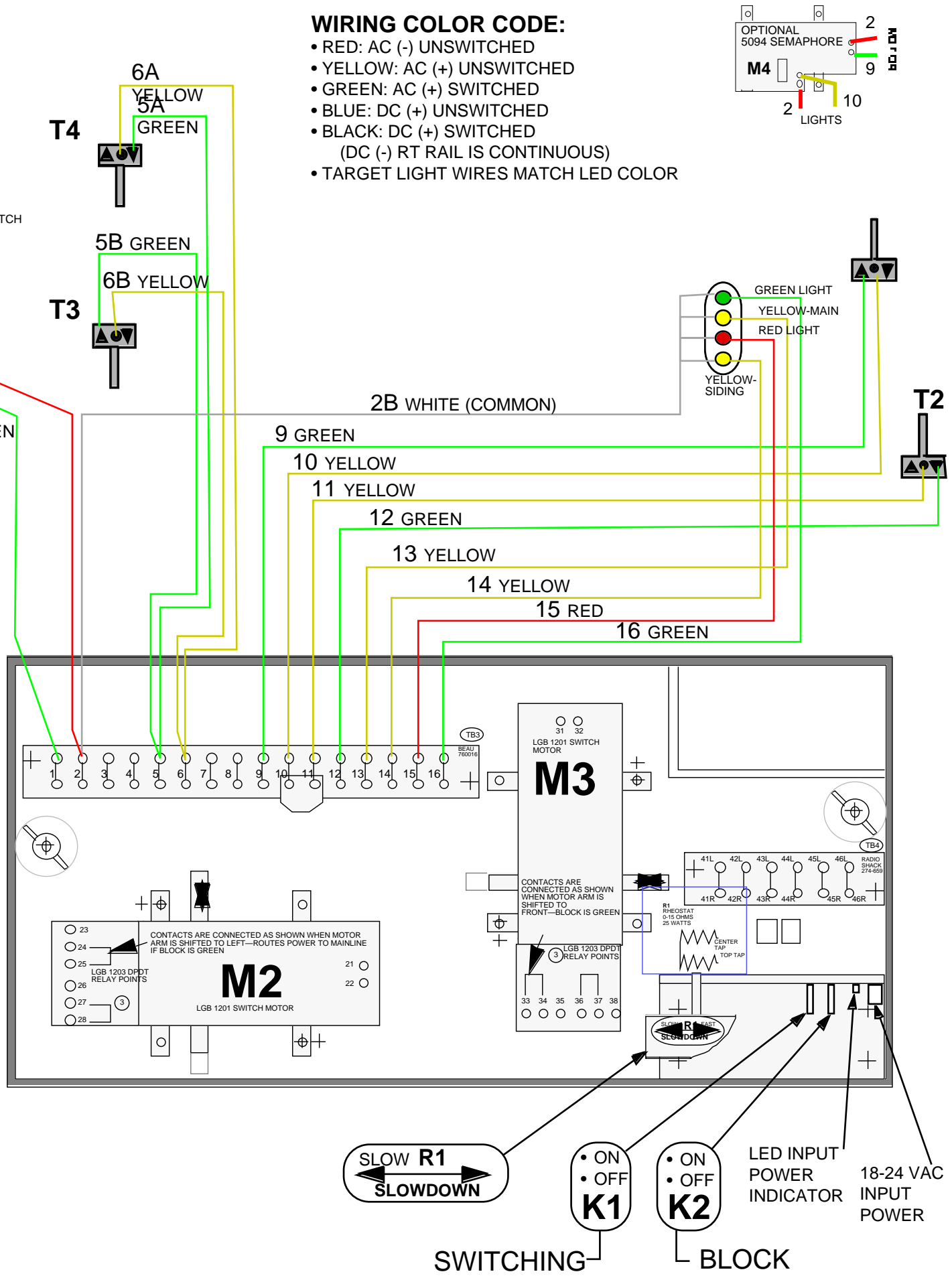
- RED: AC (-) UNSWITCHED
- YELLOW: AC (+) UNSWITCHED
- GREEN: AC (+) SWITCHED
- BLUE: DC (+) UNSWITCHED
- BLACK: DC (+) SWITCHED
- (DC (-) RT RAIL IS CONTINUOUS)
- TARGET LIGHT WIRES MATCH LED COLOR



S1 SWITCH

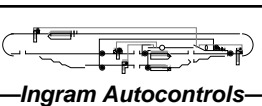
2 RED

1 GREEN



MES R. INGRAM  
3-798-1968

7931 SO. BROADWAY, STE. 331  
LITTLETON CO 80122-2710  
SCALE: NONE (7E22.g03)



TITLE MODEL 165 AUTOMATIC SWITCHING BLOCK  
DWG SERIES D8811-165  
ORIG 13SEP94 TEST WIRING  
REV G, 01SEP95

13 SH.