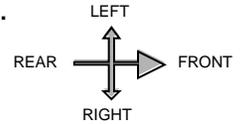


Fig 44a Initial Conditions - 1 Train—No Controls Operating (Single train travels on Track 3)

1. Toggle switches K1 & K2—Push to 'DOWN' position (switching & blocking 'OFF').
2. Toggle switch K0 on rear control board—Arm can be in either position.
3. Rheostat R1: Turn forward (CW) for no slowdown. Do out adjust.
4. Track switches: S5 & S1 straight, S7 curved.
5. Relay motors M8 & M6: Arms LEFT.
6. Relay motor M3: Arm RIGHT (routes power to thru Track 3).
7. Motor M2: Arm 'FRONT' (block 'GREEN').
8. Position engine 5 as shown. Tracks 1, 2, & 4 are dead.



Note: This mode does not require either control unit, if appropriate jumpering is done at terminal block TB8.

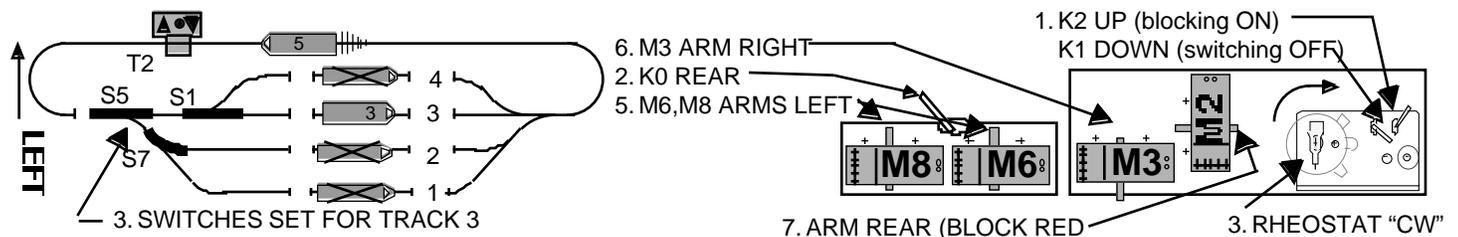


Fig 44b Initial Conditions - 2 Trains—Blocking (Trains run on Tracks 3, using Main Control for blocking)

1. Toggle switch K1 'DOWN' (switching OFF). K2 'UP' (blocking 'ON').
2. Toggle switch K0 on helper—Arm rear (helper OFF).
3. Rheostat R1: Turn forward (CW) for no slowdown. Adjust after trains are running.
4. Track switches: S5 & S1 straight, S7 curved.
5. Relay motors M8 & M6: Arms LEFT.
6. Relay motor M3: Arm RIGHT (routes power to thru Track 3).
7. Motor M2: Arm 'REAR' (block 'RED').
8. Position engines 3 & 5 as shown. Engine 5 must be UPSTREAM of T2. Tracks 1, 2, & 4 are dead.

Note: This mode does not require Helper Control Unit, if appropriate jumpering is done.

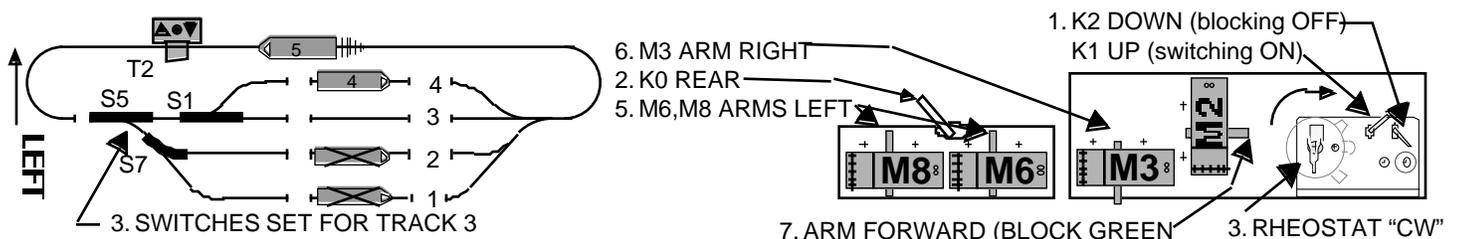
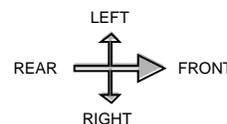


Fig 44c Initial Conditions - 2 Trains—Switching (Trains run on Tracks 3 & 4, using Main Control for switching)

1. Toggle switch K1 'UP' (switching ON). K2 'DOWN' (blocking 'OFF').
2. Toggle switch K0 on helper—Arm rear (helper OFF).
3. Rheostat R1: Turn forward (CW) for no slowdown. Adjust after trains are running.
4. Track switches: S5 & S1 straight, S7 curved.
5. Relay motors M8 & M6: Arms LEFT.
6. Relay motor M3: Arm RIGHT (routes power to thru Track 3).
7. Motor M2: Arm 'FRONT' (block 'GREEN').
8. Position engines 4 & 5 as shown. Tracks 1 & 2 are dead.



Note: This mode does not require Helper Control Unit, if appropriate jumpering is done.

Summary: This sheet shows how to position the relay switches to start the system.

