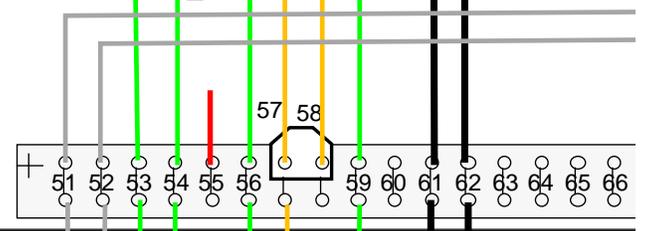
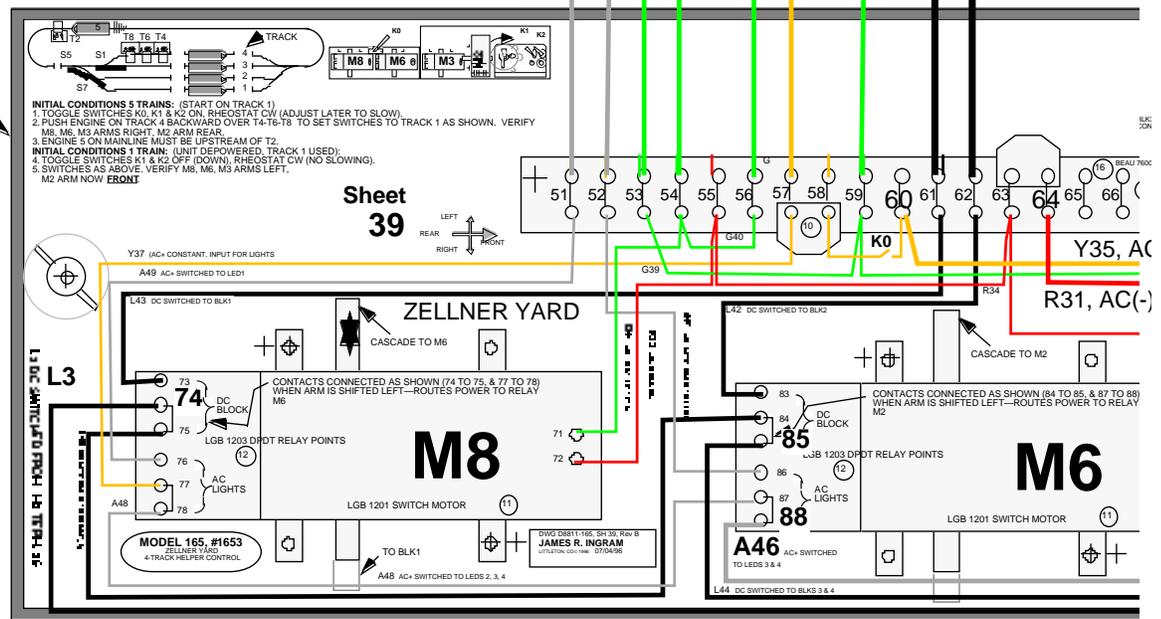
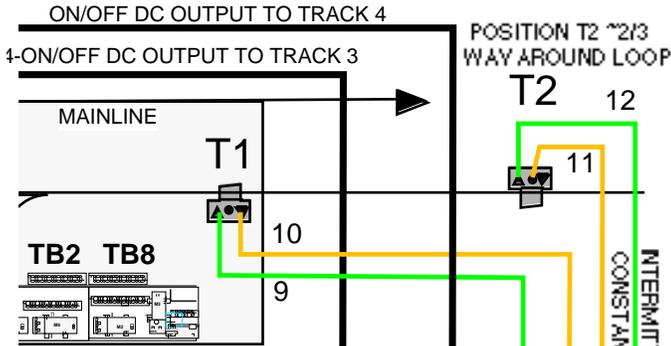


JAMES R. INGRAM 7931 SO. BROADWAY, STE. 331 303-798-1968 © 1996 LITTLETON CO 80122-2710 SCALE: NONE	
TITLE MODEL 165 ZELLNER YARD 4-TRACK BLOCK DWG SERIES D8811-165 ORIG 21JAN96 REV B_15AUG96 #1654 WIRING-4 TRACKS SH	
<h1 style="font-size: 2em;">38</h1> <p>(6H23.b20.88%)</p>	



#1653 Helper Control Unit (Per Sh 39)





WIRE LIST:

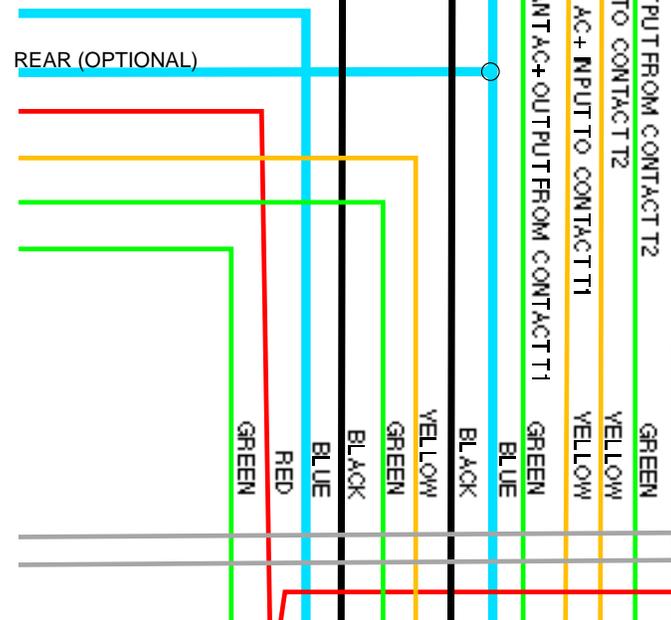
COLOR	NUMBERS	DESCRIPTION
BLACK	4, 7, 61, 62	BLACK = DC (+) SWITCHED
BLUE	3, 8	BLUE = DC (+) UNSWITCHED
GRAY	13, 14, 15, 16, 51, 52	GRAY = AC (+) TARGET LIGHTS
GREEN	1, 5, 9, 12, 53, 54, 56, 59	GREEN = AC (+) SWITCHED
RED	2, 55	RED = AC (-) UNSWITCHED
YELLOW	6, 10, 11, 57, 58	YELLOW = AC (+) UNSWITCHED

NOTES:

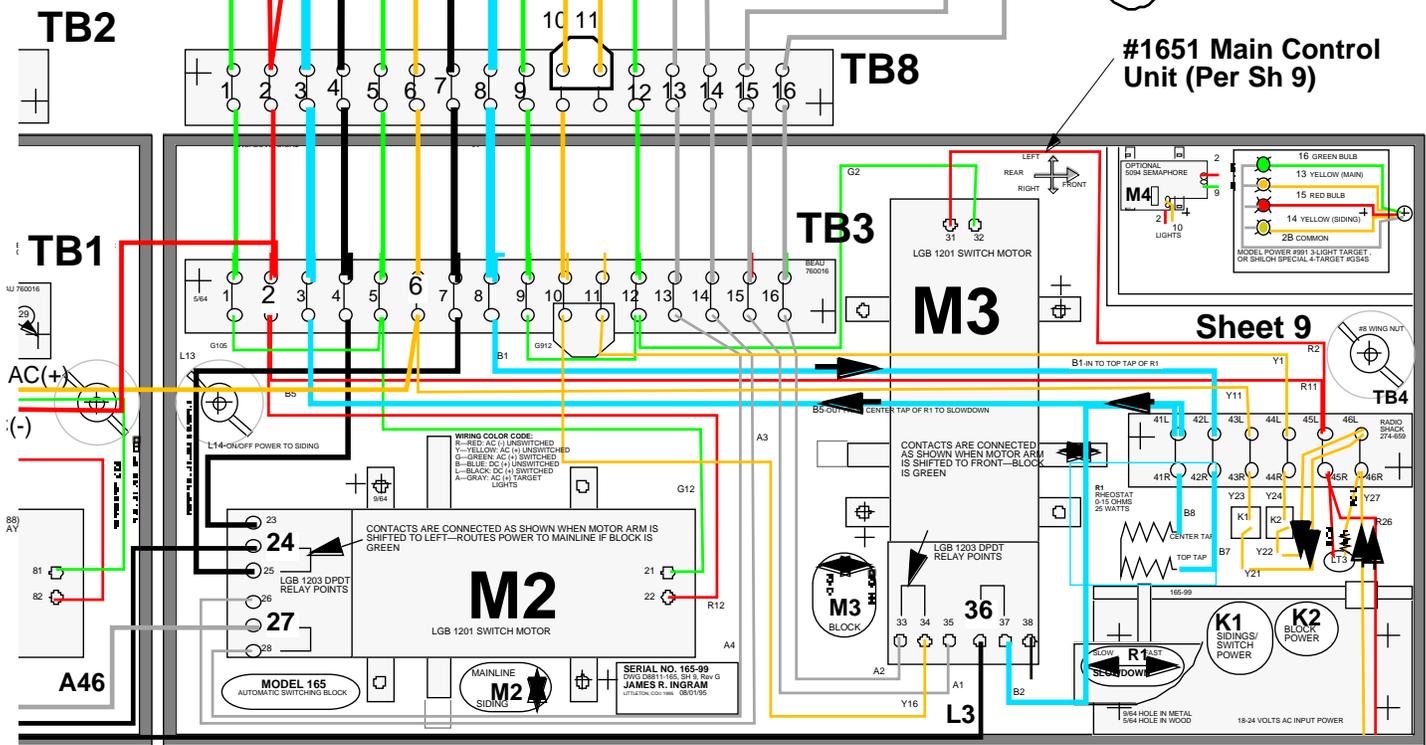
1. WIRE 8 AND TERM BLK 11 ARE OPTIONAL—IT IS A FRONT-TO-REAR JUMPER FOR MAINLINE TRACK POWER
2. USE THIS SHEET (SIMPLER, PREFERRED) IF YOU ARE MAKING BASE 1 AND BASE 2 THE SAME PIECE.

USE SHEET 36 IF YOU ARE BUILDING BASE 1 AND BASE 2 AS 2 SEPARATE BASES.

DC+ INPUT FROM MAINLINE
 OUTPUT TO TRACK 2
 TO TRACK 1

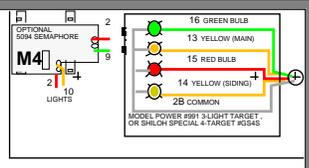


Summary: This sheet shows the wiring for the 16 lights on the semaphore. It is a simplified version of the wiring shown on Sheet 35.



#1651 Main Control Unit (Per Sh 9)

Sheet 9



WIRING COLOR CODE:
 B—RED AC (-) UNSWITCHED
 Y—YELLOW AC (+) UNSWITCHED
 G—GREEN AC (+) SWITCHED
 BL—BLUE DC (+) UNSWITCHED
 BK—BLACK DC (+) SWITCHED
 GR—GRAY AC (+) TARGET LIGHTS

CONTACTS ARE CONNECTED AS SHOWN WHEN MOTOR ARM IS SHIFTED TO LEFT—ROUTES POWER TO MAINLINE IF BLOCK IS GREEN

CONTACTS ARE CONNECTED AS SHOWN WHEN MOTOR ARM IS SHIFTED TO FRONT—BLOCK

1/8" HOLE IN METAL 5/16" HOLE IN WOOD
 18-24 VOLTS AC INPUT POWER