



Notes for the wiring of the Yard Terminal strips and cabels.

The Terminal Bars are wired across each section as labeled.

Module 35 to Tee #1 and Module 42 to Tee 2 - 3 wires only with a 4 pin molex plug.

- Only Ground white wire on pin 1
- Right Yard Handel blue wire on pin 2
- pin 3 is open
- 10 V constant for LED light blue on pin 4

The 12 wire on Module 35 is still wired up but not used on our 3 track layout.
It is for the 2 track old main tee.

Right handle yard is wired about 3 feet onto Module 38 along the old bypass track.

The bypass switch turns on and off the by pass track at that point to far end.

Left handle of the yard transformer controls the "LARGE ENGINE STORAGE" track,

TERMINAL STRIPS BETWEEN MODULES

Module 35 Cable to Tee #1

Pin #	Function
1	COMMON GROUND
2	THROAT HOT RIGHT HANDLE YARD TRANSFORMER
3	OPEN AT THIS TIME
4	CONSTANT 10V FOR LED LIGHTS

Module 35 to Module 36

Pin #	Function
1	THROAT HOT RIGHT HANDLE YARD TRANSFORMER
2	OPEN AT THIS TIME
3	RUN THROUGH TRACK
4	OPEN AT THIS TIME
5	OPEN AT THIS TIME
6	OPEN AT THIS TIME
7	C-1 DIESEL STORAGE
8	D-1 DIESEL STORAGE
9	LONG ENGINE STORAGE - A
10	OPEN AT THIS TIME
11	CONSTANT 10V FOR LED LIGHTS
12	COMMON GROUND

Module 36 to Module 37

Pin #	Function
1	THROAT HOT RIGHT HANDLE YARD TRANSFORMER
2	OPEN AT THIS TIME
3	LARGE ENGINE STORAGE LEFT HANDLE YARD TRANSFORMER
4	STUB DIESEL STORAGE TRACK
5	D-1 DIESEL STORAGE LED
6	C-2 DIESEL STORAGE TRACK
7	C-1 DIESEL STORAGE TRACK
8	D-1 DIESEL STORAGE TRACK
9	D-2 DIESEL STORAGE TRACK
10	C-1 LED DIESEL STORAGE
11	CONSTANT 10V FOR LED LIGHTS
12	COMMON GROUND

ADDITIONAL TERMINAL BAR

Pin #	Function
1	RUN THROUGH TRACK
2	RUN THROUGH LED
3	LARGE ENGINE STORAGE A - TRACK
4	LARGE ENGINE STORAGE A - LED
5	LARGE ENGINE STORAGE B - TRACK
6	LARGE ENGINE STORAGE B - LED
7	JUMP OVER RUN THROUGH
8	JUMP OVER LARGE ENGINE STORAGE
9	OPEN AT THIS TIME

Module 37 to Module 38

Pin #	Function
1	THROAT HOT RIGHT HANDLE YARD TRANSFORMER
2	BY PASS TRACK
3	YARD TRACK # 1
4	YARD TRACK # 2
5	YARD TRACK # 3
6	YARD TRACK # 4
7	YARD TRACK # 5
8	YARD TRACK # 6
9	YARD TRACK # 7
10	BY PASS LED
11	CONSTANT 10V FOR LED LIGHTS
12	COMMON GROUND

Module 38 to Module 38A

Pin #	Function
1	THROAT HOT RIGHT HANDLE YARD TRANSFORMER
2	BY PASS TRACK
3	YARD TRACK # 1
4	YARD TRACK # 2
5	YARD TRACK # 3
6	YARD TRACK # 4
7	YARD TRACK # 5
8	YARD TRACK # 6
9	YARD TRACK # 7
10	DISCONNECTED AT TERMINAL BAR TO 39
11	CONSTANT 10V FOR LED LIGHTS
12	COMMON GROUND

Module 38A - 38B 39 40 to Module 41

Pin #	Function
1	THROAT HOT RIGHT HANDLE YARD TRANSFORMER
2	BY PASS TRACK
3	YARD TRACK # 1
4	YARD TRACK # 2
5	YARD TRACK # 3
6	YARD TRACK # 4
7	YARD TRACK # 5
8	YARD TRACK # 6
9	YARD TRACK # 7
10	OPEN AT THIS TIME
11	CONSTANT 10V FOR LED LIGHTS
12	COMMON GROUND

Module 41 to Module 42

Pin #	Function
1	THROAT HOT RIGHT HANDLE YARD TRANSFORMER
2	BY PASS TRACK
3	YARD TRACK # 1
4	YARD TRACK # 2
5	YARD TRACK # 3
6	YARD TRACK # 4
7	YARD TRACK # 5
8	YARD TRACK # 6
9	YARD TRACK # 7 FROM MODULE 40 IS ATTACHED TO PIN 1 ON ADD ON TERMINAL BAR
10	OPEN AT THIS TIME
11	CONSTANT 10V FOR LED LIGHTS
12	COMMON GROUND

A

ADDITIONAL TERMINAL BAR

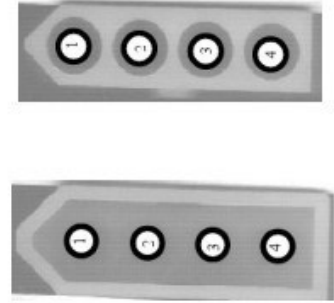
Pin #	Function
1	HOT #9 TO SWITCH #1 AND #9 FROM MODULE 40
2	HOT #9 TO SWITCH #2 AND HOT #9 TO TRACK #7 ON THIS MODULE
3	HOT LED 10V TO BOTH SWITCHES #1 & #2 AND HOT 10V FROM PIN 11
4	FROM SWITCH #1 TO TRACK SIDING #1
5	FROM SWITCH #2 TO TRACK SIDING #2 AND TO PIN #9 TO MODULE 42
6	FROM SWITCH #1 TO TRACK SIDING #1 LED
7	FROM SWITCH #2 TO TRACK SIDING #2 LED
8	OPEN AT THIS TIME

Module 42 to TEE #2

Pin #	Function
1	COMMON GROUND
2	THROAT HOT RIGHT HANDLE YARD TRANSFORMER
3	OPEN AT THIS TIME
4	CONSTANT 10V FOR LED LIGHTS (Future)

**Male Plug Cable from Transformer to Module 37
and from Mod 35 to tee 1 and Mod 42 to Tee 2**

Pin #	Function
1	COMMON GROUND
2	RIGHT HANDLE YARD TRANSFORMER
3	LEFT HANDLE YARD TRANSFORMER
4	CONSTANT 10V FOR LED LIGHTS (Future)



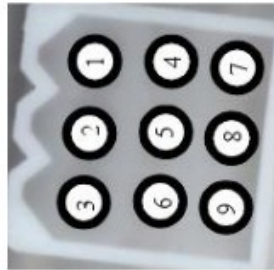
Female Plug on Control Panel & Cable from Module 37

to Left side of the Control Panel

9 PIN FEMALE PLUG ON CONTROL PANEL CABLE MALE

- | | |
|-------|--------------------------------|
| Pin # | |
| 1 | ENGINE STORAGE TRACK A - POWER |
| 2 | ENGINE STORAGE TRACK B - POWER |
| 3 | RUN THROUGH TRACK - POWER |
| 4 | ENGINE STORAGE TRACK A - LED |
| 5 | ENGINE STORAGE TRACK B - LED |
| 6 | RUN THROUGH TRACK - LED |
| 7 | OPEN AT THIS TIME |
| 8 | OPEN AT THIS TIME |
| 9 | OPEN AT THIS TIME |

MALE



FEMALE



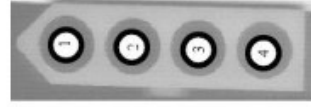
Male Plug Cable from Module 35 to TEE #1

- | | |
|-------|--------------------------------|
| Pin # | |
| 1 | COMMON GROUND |
| 2 | RIGHT HANDLE TRANSFORMER POWER |
| 3 | OPEN AT THIS TIME |
| 4 | CONSTANT 10V FOR LED LIGHTS |

MALE



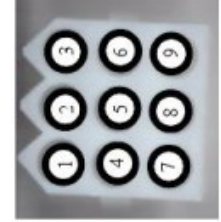
FEMALE



3 Plugs on control panel with 3 Cables from Module 37 Right side of the Control Panel

9 PIN MALE PLUG ON CONTROL PANEL CABLE FEMALE

- | | |
|-------|--------------------------------|
| Pin # | |
| 1 | RIGHT HANDLE TRANSFORMER POWER |
| 2 | COMMON GROUND |
| 3 | STUB DIESEL STORAGE TRACK |
| 4 | CONSTANT 10V FOR LED LIGHTS |
| 5 | LEFT HANDLE TRANSFORMER POWER |
| 6 | STUBDIESEL STORAGE LED |
| 7 | OPEN AT THIS TIME |
| 8 | OPEN AT THIS TIME |
| 9 | OPEN AT THIS TIME |



12 PIN FEMALE PLUG ON CONTROL PANEL

- | | |
|-------|----------------------------------|
| Pin # | |
| 1 | YARD TRACK #6 - POWER |
| 2 | YARD TRACK #7 - POWER |
| 3 | ENGINE STORAGE TRACK #1 - POWER |
| 4 | YARD TRACK #6 - LED |
| 5 | YARD TRACK #7 - LED |
| 6 | ENGINE STORAGE TRACK 1 - LED |
| 7 | ENGINE STORAGE TRACK #2 - POWER |
| 8 | CABOOSE STORAGE TRACK #2 - POWER |
| 9 | CABOOSE STORAGE TRACK #1 - POWER |
| 10 | ENGINE STORAGE TRACK #2 - LED |
| 11 | CABOOSE STORAGE TRACK #1 - LED |
| 12 | CABOOSE STORAGE TRACK #2 - LED |

MALE



FEMALE



12 PIN MALE PLUG ON CONTROL PANEL

- | | |
|-------|------------------------|
| Pin # | |
| 1 | YARD TRACK # 1 - POWER |
| 2 | YARD TRACK # 2 - POWER |
| 3 | YARD TRACK # 3 - POWER |
| 4 | YARD TRACK # 1 -LED |
| 5 | YARD TRACK # 2 - LED |
| 6 | YARD TRACK # 3 - LED |
| 7 | YARD TRACK # 4 - POWER |
| 8 | YARD TRACK # 5 - POWER |
| 9 | YARD TRACK # 6 - POWER |
| 10 | YARD TRACK # 4 -LED |
| 11 | YARD TRACK # 5 - LED |
| 12 | YARD TRACK # 6 - LED |

MAIN LINE

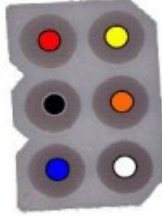
Module Power Plugs Female to the Right side

- | | |
|-------|---------------------------------------|
| Pin # | |
| 1 | Blue OUTSIDE TRACK # 1 |
| 2 | Black MIDDLE TRACK # 2 |
| 3 | Red INSIDE TRACK # 3 |
| 4 | White COMMON GROUND |
| 5 | Orange ACCESSORY FOR TURNOUT CONTROLS |
| 6 | Yellow FOURTH TRACK # 4 |

MALE



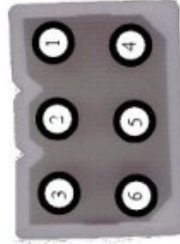
FEMALE



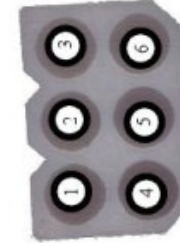
Pin #

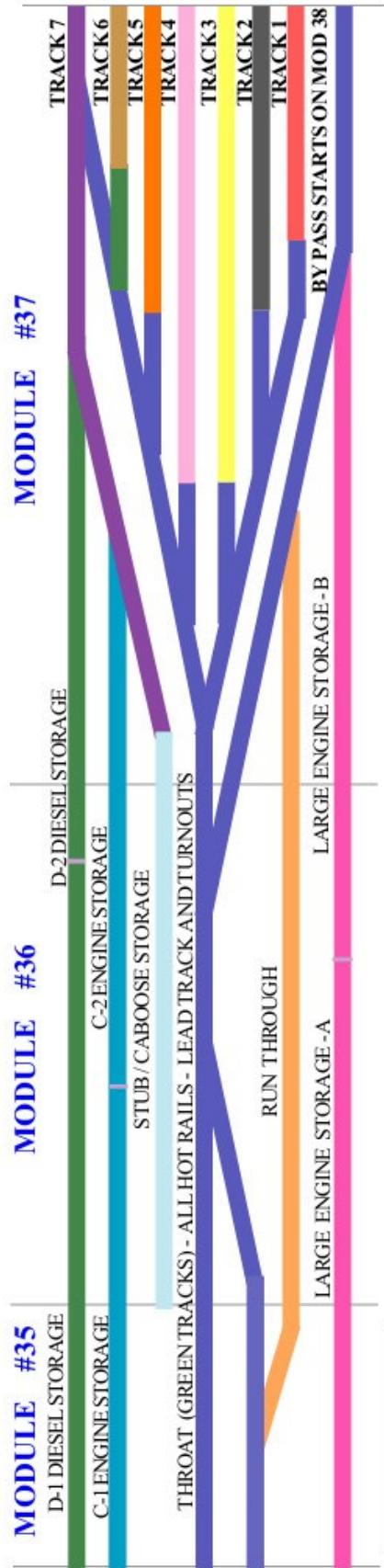
- | | |
|---|--------------------------------|
| 1 | OUTSIDE TRACK # 1 |
| 2 | MIDDLE TRACK # 2 |
| 3 | INSIDE TRACK # 3 |
| 4 | COMMON GROUND |
| 5 | ACCESSORY FOR TURNOUT CONTROLS |
| 6 | FOURTH TRACK # 4 |

MALE



FEMALE





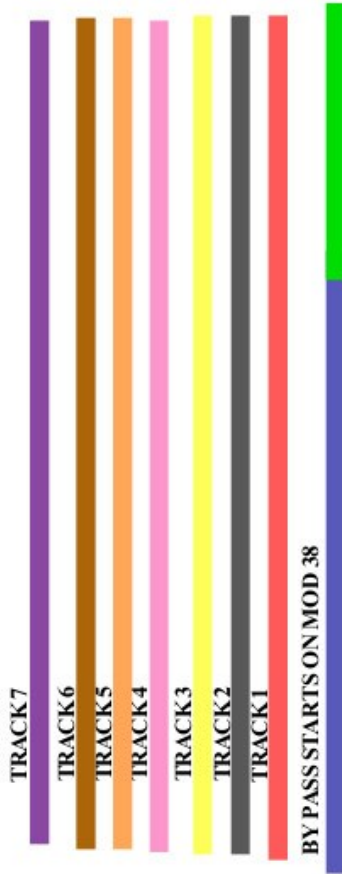
- | | |
|--|--|
| <p>MODULE #35</p> <p>D-1 DIESEL STORAGE</p> <p>C-1 ENGINE STORAGE</p> <p>THROAT (GREEN TRACKS) - ALL HOT RAILS - LEAD TRACK AND TURNOUTS</p> <p>RUN THROUGH</p> <p>LARGE ENGINE STORAGE -A</p> <p>LARGE ENGINE STORAGE -B</p> | <p>MODULE #37</p> <p>TRACK7</p> <p>TRACK6</p> <p>TRACK5</p> <p>TRACK4</p> <p>TRACK3</p> <p>TRACK2</p> <p>TRACK1</p> <p>BY PASS STARTS ON MOD 38</p> |
|--|--|
-
- | | | |
|---|--|--|
| <p>1 COM-GROUND</p> <p>2 THROAT - HOT</p> <p>3 OPEN</p> <p>4 CONSTANT 10V</p> <p>5 OPEN</p> <p>6 OPEN</p> <p>7 C-1 DIESEL STORAGE</p> <p>8 D-1 DIESEL STORAGE</p> <p>9 LONG ENGINE STORAGE A</p> <p>10 OPEN</p> <p>11 LED CONSTANT 10V</p> <p>12 COMMON GROUND</p> | <p>1 THROAT - HOT</p> <p>2 TO BE MAPPED</p> <p>3 LARGE ENGINE STORAGE</p> <p>4 STUB DIESEL STORAGE</p> <p>5 D-1 STORAGE LED</p> <p>6 C-2 DIESEL STORAGE</p> <p>7 C-1 DIESEL STORAGE</p> <p>8 D-1 DIESEL STORAGE</p> <p>9 D-2 DIESEL STORAGE</p> <p>10 C1 STORAGE LED</p> <p>11 LED CONSTANT 10V</p> <p>12 COMMON GROUND</p> | <p>1 THROAT - HOT</p> <p>2 BY PASS TRACK</p> <p>3 #1 YARD TRACK</p> <p>4 #2 YARD TRACK</p> <p>5 #3 YARD TRACK</p> <p>6 #4 YARD TRACK</p> <p>7 #5 YARD TRACK</p> <p>8 #6 YARD TRACK</p> <p>9 #7 YARD TRACK</p> <p>10 BY PASS LED</p> <p>11 LED CONSTANT 10V</p> <p>12 COMMON GROUND</p> |
|---|--|--|

Add on terminal bar on Module 36 and 37

1 RUN THROUGH
2 RUN THROUGH LED
3 LARGE ENGINE STORAGE A
4 LG ENGINE STORAGE LED A
5 LARGE ENGINE STORAGE B
6 LG ENGINE STORAGE LED B
7 JUMP RUN THROUGH FROM MODULE 36 to MODULE 37
8 JUMP LARGE ENG STORAGE MOD 36 to MOD 37
9

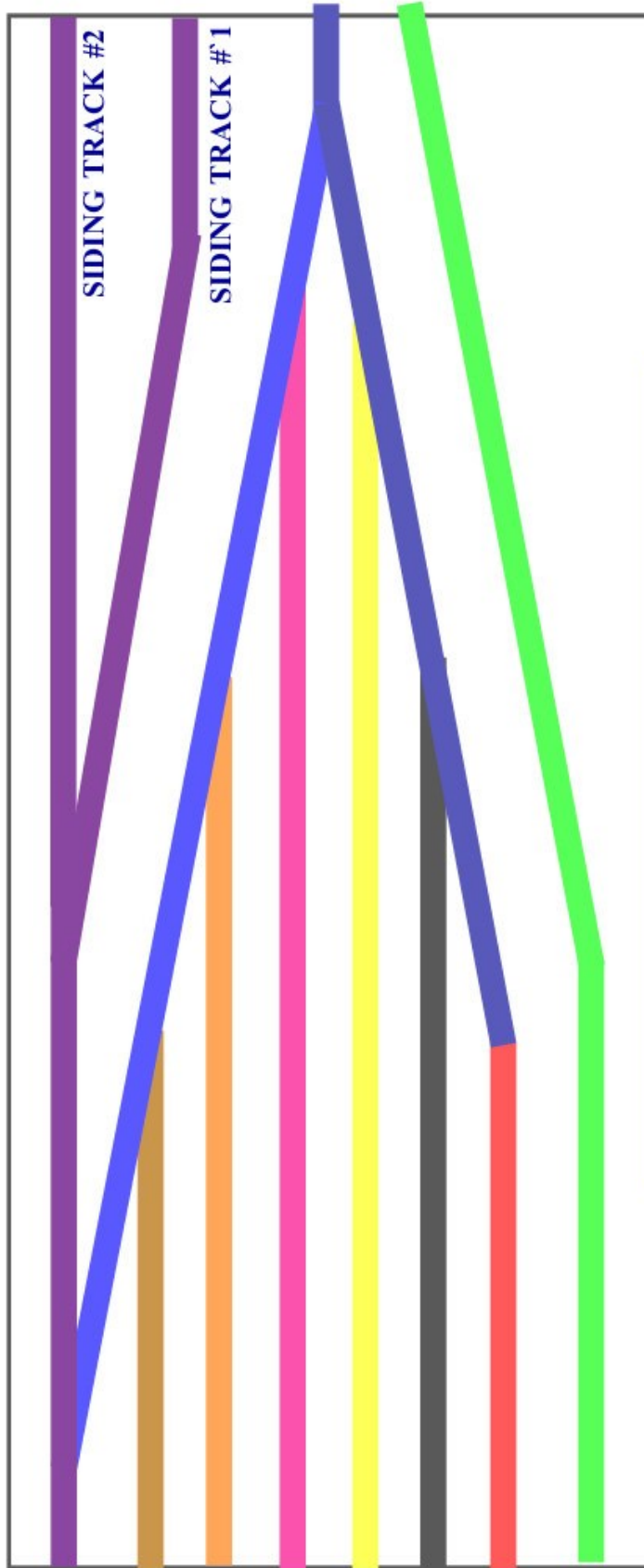
The Terminal Bars are wired across each section as labeled.
 Mod 35 to Tee is 4 wires only with a 4 pin molex plug.
 The 12 wire cable is wired up but not used on the new 3 track layout.
 It is for the 2 track old main tee.
 The red wire on #3 is disconnected on both Module 35 and the tee.
 Throat is wired about 3 feet onto Module 38 along the old bypass track.
 The bypass switch turns on and off the by pass track at that point to far end.
 The "LARGE ENGINE STORAGE" track is powered from left handle of the Yard Transformer.

MODULE 38-A AND 38-B



ASSIGNED	PIN	WIRE COLOR
THROAT - HOT	1	DARK BLUE
BY PASS TRACK	2	GREEN
#1 YARD TRACK	3	RED
#2 YARD TRACK	4	BLACK
#3 YARD TRACK	5	YELLOW
#4 YARD TRACK	6	PINK
#5 YARD TRACK	7	ORANGE
#6 YARD TRACK	8	BROWN
#7 YARD TRACK	9	PURPLE
THIS NUMBER IS OPEN FROM 38 TO 38A	10	LIGHT BLUE / BLACK TAPE
LED CONSTANT 10V	11	LIGHT BLUE
COMMON GROUND	12	WHITE

MODULE 41 Current

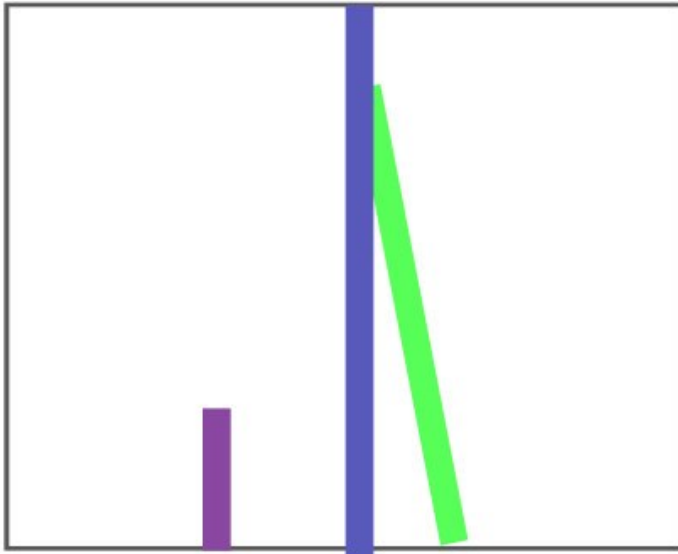


WIRE #9 CONTROL TERMINAL BAR

HOT #9 TO SWITCH 1	1	1	HOT #9 FROM MOD 40
HOT #9 TO SWITCH 2	2	2	HOT #9 TO TRACK 7
HOT LED 10V TO 1 & 2	3	3	LED CONSTANT 10V
HOT FROM SWITCH 1	4	4	TO SIDING TRACK 1
HOT FROM SWITCH 2	5	5	TO SIDING TRACK 2
FROM SWITCH 1	6	6	AND PIN #9 TO MOD 42
FROM SWITCH 2	7	7	TO LED SIDING TK 1
	8	8	TO LED SSIDING TK 2

- 1 THROAT - HOT
- 2 BY PASS TRACK
- 3 NOT NEEDED
- 4 NOT NEEDED
- 5 NOT NEEDED
- 6 #4 YARD TRACK
- 7 #5 YARD TRACK
- 8 #6 YARD TRACK
- 9 SWITCH TRACK #2
- 10 OPEN ON MOD 88
- 11 LED CONSTANT 10V
- 12 COMMON GROUND

Module 42 current



- THROAT - HOT 1
- BY PASS TRACK 2
- #1 YARD TRACK 3
- #2 YARD TRACK 4
- #3 YARD TRACK 5
- #4 YARD TRACK 6
- #5 YARD TRACK 7
- #6 YARD TRACK 8
- SIDING TRACK #1 9
- DISCONNECTED ON MOD 88 10
- LED CONSTANT 10V 11
- COMMON GROUND 12

FOUR PIN WIRING HARNESS
FROM YARD 42 TO TEE #2

- COMMON GROUND - PIN 1
- BLUE WIRE THROAT HOT - PIN 2
- OPEN - PIN 3
- LT BLUE WIRE 10 V LED HOT - PIN 4

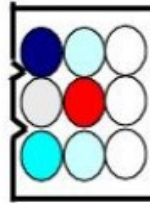
Control Panel Left End

9 Pin Female



Engine A	Engine B	Run Through
Eng A LED	Eng B LED	Through LED
Empty	Empty	Empty

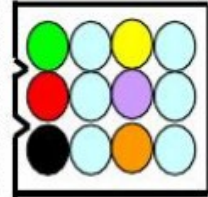
9 Pin Male



Stub	Common	R Power
Stub LED	L Power	10 V Power
Empty	Empty	Empty

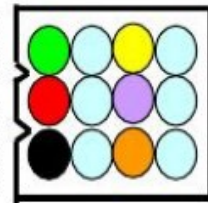
Control Panel Right End

12 Pin Female



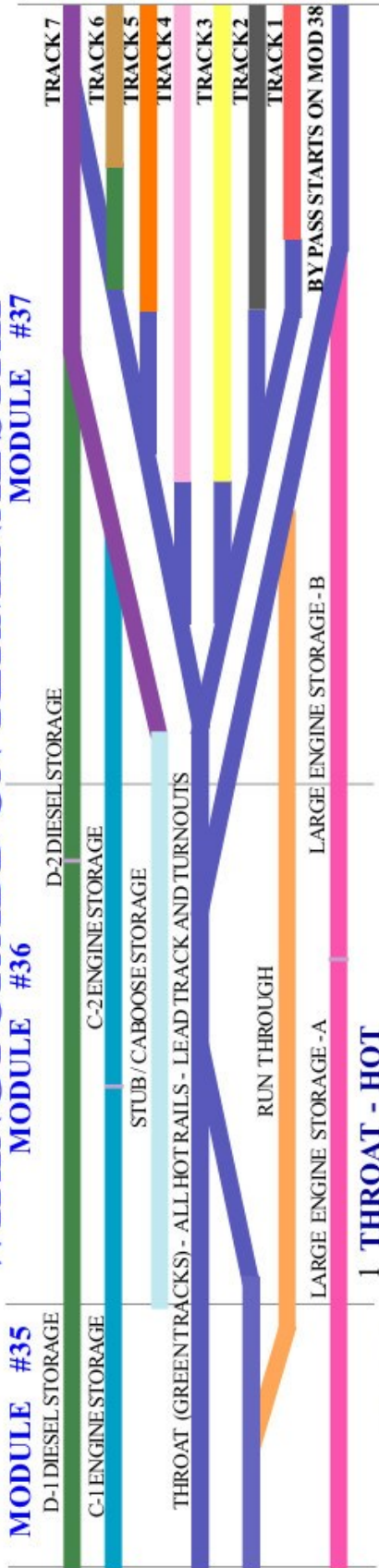
Track 6	Track 7	Track E1
6 LED	7 LED	E1 LED
Track E2	Track C1	Track C2
E2 LED	C1 LED	C2 LED

12 Pin Male



Track 3	Track 2	Track 1
3 LED	2 LED	1 LED
Track 6	Track 5	Track 4
6 LED	6 LED	6 LED

WIRING FOR ADD ON TERMINAL STRIP



FOUR PIN WIRING HARNESS FROM YARD #2

- COMMON GROUND - PIN 1
- BLUE WIRE THROAT HOT - PIN 2
- OPEN - PIN 3
- LT BLUE WIRE 10 V LED HOT - PIN 4

- 1 THROAT - HOT
- 2 TO BE MAPPED
- 3 RUN THROUGH
- 4 RUN THROUGH powered Mod 35
- 5 OPEN
- 6 OPEN
- 7 C-1 DIESEL STORAGE
- 8 D-1 DIESEL STORAGE
- 9 LG ENGINE STORAGE A
- 10 OPEN
- 11 LED CONSTANT 10V
- 12 COMMON GROUND

- RUN THRU TO PIN #3
- LED - RUN THRU TO LIGHT
- LG ENGINE TO PIN #9
- LED - LG ENGINE A TO LIGHT
- LG ENGINE TO TRACK B
- LED - LG ENGINE B TO LIGHT
- RUN THRU JUMP TO TRACK
- LG ENGINE B TO TRACK

- 1 THROAT - HOT
- 2 TO BE MAPPED
- 3 LARGE ENGINE STORAGE
- 4 STUB DIESEL STORAGE
- 5 D-1 STORAGE LED
- 6 C-2 DIESEL STORAGE
- 7 C-1 DIESEL STORAGE
- 8 D-1 DIESEL STORAGE
- 9 D-2 DIESEL STORAGE
- 10 C1 STORAGE LED
- 11 LED CONSTANT 10V
- 12 COMMON GROUND

- 1 RUN THROUGH
- 2 RUN THRU STORAGE LED
- 3 LARGE ENGINE STORAGE A
- 4 LG ENGINE STORAGE LED A
- 5 LARGE ENGINE STORAGE B
- 6 LG ENGINE STORAGE LED B
- 7 JUMP RUN THRU TRACK MODULE 36 to MODULE 37
- 8 JUMP LARGE ENGINE B TRACK MODULE 36 to MOD 37
- 9 OPEN

- THROAT - HOT 1
- BY PASS TRACK 2
- #1 YARD TRACK 3
- #2 YARD TRACK 4
- #3 YARD TRACK 5
- #4 YARD TRACK 6
- #5 YARD TRACK 7
- #6 YARD TRACK 8
- #7 YARD TRACK 9
- BY PASS LED 10
- LED CONSTANT 10V 11
- COMMON GROUND 12

Add on terminal bar on Module 36 and 37

**MAIN LINE WIRING HARNESS
FOR ALL MODULES**

- BLUE WIRE TRACK #1 - PIN 1
- BLACK WIRE TRACK #2 - PIN 2
- RED WIRE TRACK #3 - PIN 3
- WHITE WIRE COMMON GROUND - PIN 4
- ORANGE WIRE 14 V SWITCH - PIN 5
- YELLOW WIRE TRACK #4 - PIN 6

**YARD LEADS ARE CONTROLLED
BY RIGHT YARD HANDELON BOTH
TEES**

**FOUR PIN WIRING HARNESS
FROM YARD TO BOTH TEES**

- COMMON GROUND** - PIN 1
- BLUE WIRE THROAT HOT - PIN 2
- OPEN - PIN 3
- LT BLUE WIRE 10 V LED HOT - PIN 4

