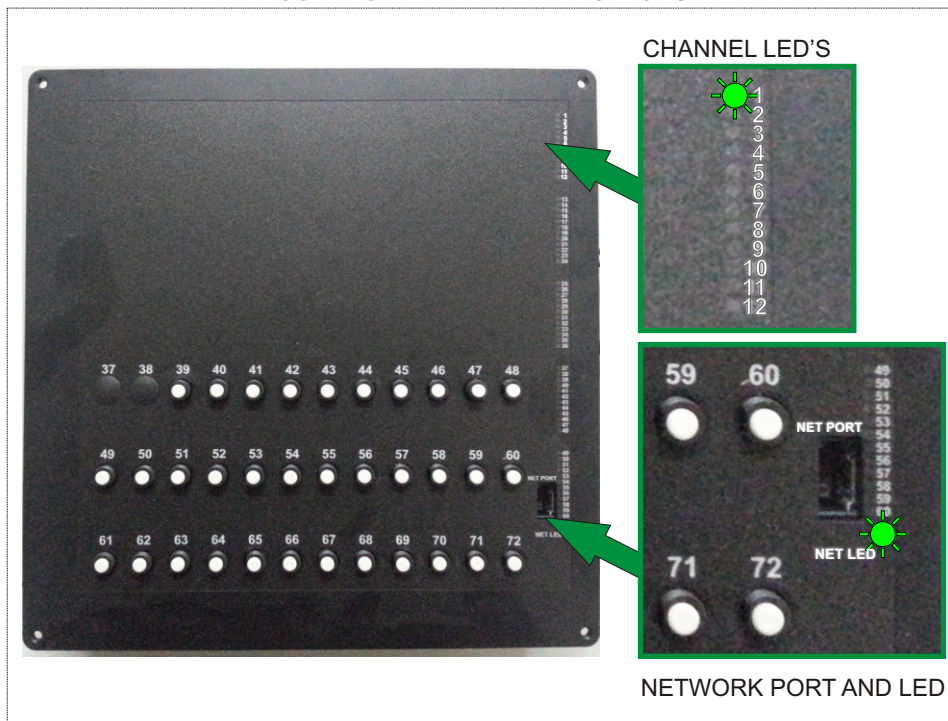


DIAGNOSTIC LED FEATURES

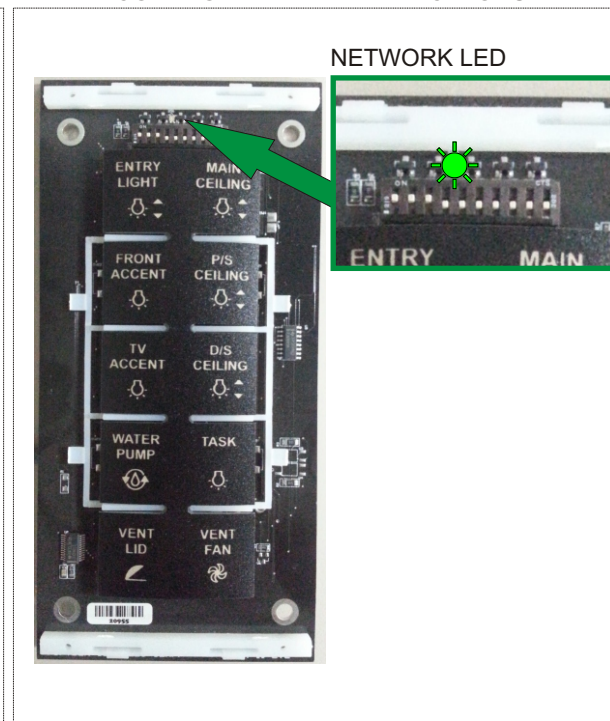
Each SWITCH PANEL and CONTROL PANEL has built-in diagnostic LED indicators. The CHANNEL LED corresponds with the circuit listed on the chart to the left and indicates if the circuit is ON or OFF. The NETWORK LED indicates if the panel has power and whether or not it is communicating with the other panels within the network.

In the event of a switch panel with a NETWORK LED that indicates a fault, unplug the SWITCH PANEL and plug it directly into the NETWORK PORT on one of the CONTROL PANELS. If the SWITCH PANEL LED turns solid green, this could indicate a network wiring issue. Refer to the NETWORK WIRING GUIDE in the previous page.

CONTROL PANEL LED INDICATORS



CONTROL PANEL LED INDICATORS



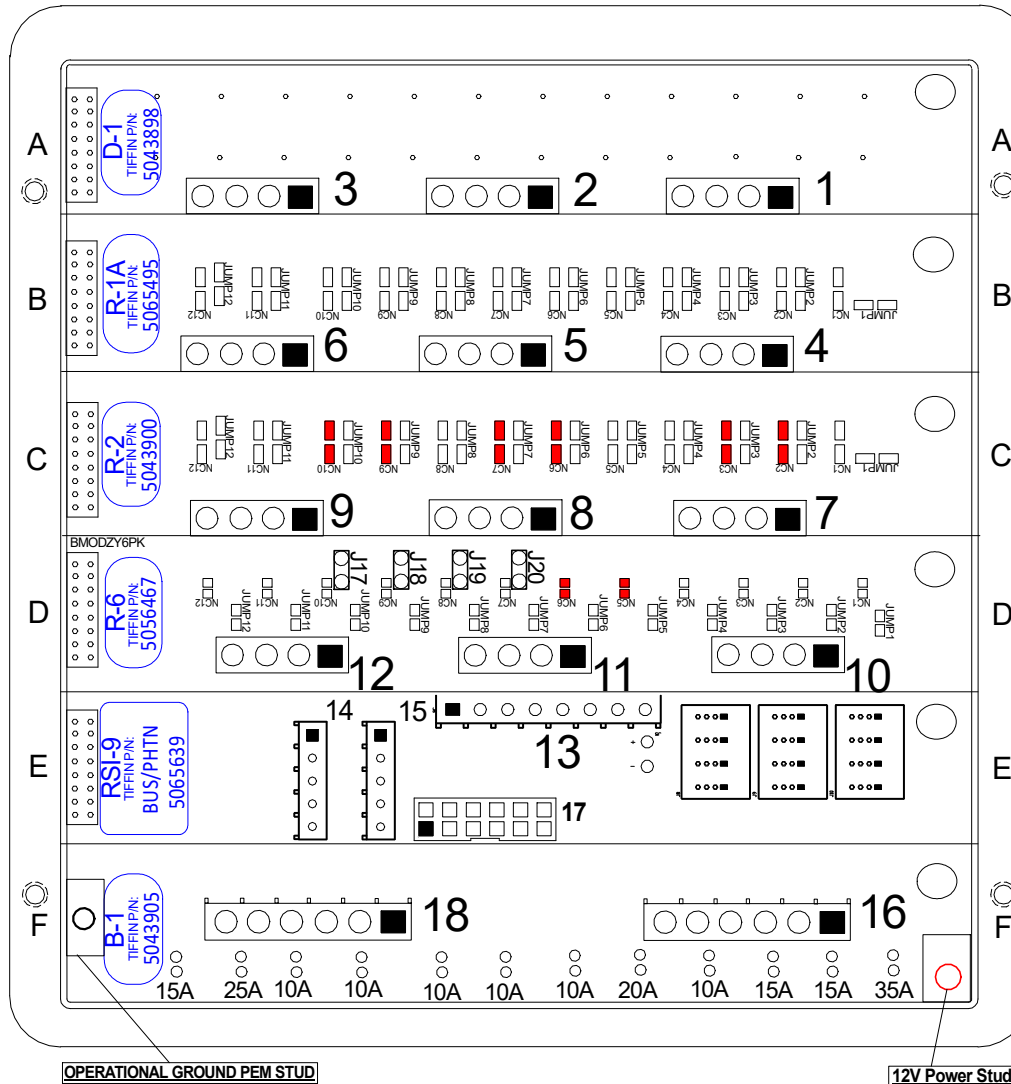
NETWORK STATUS LED INDICATOR

- ★ - SOLID GREEN - device is connected to network and communicating properly
- - LED OFF - device has no power or has completely failed
- ★ - SOLID RED - device has gone offline and is not connected to network
- ★/○ - FAST FLASHING GREEN (4 times / sec.) - device is attempting to make initial connection and claim a network address
- ★/○ - SLOW FLASHING GREEN (1 time / sec.) - device was online but has not seen a valid network message for 5 seconds
- ★/★ - ALTERNATING RED & ORANGE - device has gone offline and is attempting to re-connect (within 30 seconds)
- ★/★ - ALTERNATING GREEN & ORANGE - device is currently online but has gone offline 2 or more times

G6A CONTROL PANEL LAYOUT
Tiffin PN: 5064969 Spyder PN: BENCZ52C9
BUS/PHTN - HOUSE Rev 4v0
PINOUT DIAGRAM - 8.4.2017

Back View

- CONNECTOR 4**
- 4-1 (G6 LED 13) REAR BATH/MID SINK CEILING LIGHTS
 - 4-2 (G6 LED 14) TASK LIGHTS
 - 4-3 (G6 LED 15) MID BATH CEILING LIGHTS
 - 4-4 (G6 LED 16) MID BATH VANITY LIGHTS
- CONNECTOR 5**
- 5-1 (G6 LED 17) REAR BATH/MID SINK VANITY LIGHTS
 - 5-2 (G6 LED 18) TV ACCENT LIGHTS
 - 5-3 (G6 LED 19) FR ACNT LIGHTS
 - 5-4 (G6 LED 20) FR ACNT LIGHTS
- CONNECTOR 6**
- 6-1 (G6 LED 21) BED ACCENT
 - 6-2 (G6 LED 22) SPARE
 - 6-3 (G6 LED 23) RR ACNT LIGHTS
 - 6-4 (G6 LED 24) RR ACNT LIGHTS
- CONNECTOR 10**
- 10-1 (G6 LED 37) FLR HT ZONE 1
 - 10-2 (G6 LED 38) FLR HT ZONE 2
 - 10-3 (G6 LED 39) SPARE
 - 10-4 (G6 LED 40) SPARE
- CONNECTOR 11**
- 11-1 (G6 LED 41) BED LIFT UP
 - 11-2 (G6 LED 42) BED LIFT DN
 - 11-3 (G6 LED 43) FR TV LIFT UP
 - 11-4 (G6 LED 44) FR TV LIFT DN
- J17--- FR TV LIFT COMMON
- J18--- FR TV LIFT COMMON
- J19--- RR TV LIFT COMMON
- J20--- RR TV LIFT COMMON
- CONNECTOR 12**
- 12-1 (G6 LED 45) BED TV LIFT UP
 - 12-2 (G6 LED 46) BED TV LIFT DN
 - 12-3 (G6 LED 47)
 - 12-4 (G6 LED 48)
- CONNECTOR 17**
- 17-6
 - 17-5 REAR AC THERMISTOR
 - 17-4 MID AC THERMISTOR
 - 17-3 FRONT AC THERMISTOR
 - 17-2 REAR FLOOR HT THERMISTOR
 - 17-1 FRONT FLOOR HT THERMISTOR
- CONNECTOR 14 (12V+ INPUTS)**
- 14-1 WTR HTR STATUS
 - 14-2
 - 14-3
 - 14-4 BED LIFT PLUNGER
 - 14-5 SPARE
- CONNECTOR 15 (GND INPUTS)**
- 15-1
 - 15-2 BEDROOM LIGHT SWITCH
 - 15-3 CLOSET LIGHT SW
 - 15-4
 - 15-5



NOTE: CONNECTORS ARE SHOWN HERE IN THE LOADED (REAR) VIEW.

R=RELAY CARD
B=BREAKER CARD
RSI-9=INPUT MODULE
D=DIMMER CARD
■ = JUMPERED

G6A CONTROL PANEL LAYOUT
Tiffin PN: 5064970 Spyder PN: BENCZ54C9
BUS/PHTN - CHASSIS Rev 4V0
PINOUT DIAGRAM - 8.4.2017

Back View

Card Legend

R=RELAY CARD
 B=BREAKER CARD
 BR=BREAKER/
 RELAY CARD
 D=DIMMER CARD
 J = JUMPERED

- CONNECTOR 4**
- 4-1 (LED 13) AWNING LIGHT
 - 4-2 (LED 14) HEADLIGHTS (INDICATION FLASH)
 - 4-3 (LED 15) DOOR / ASSIST HANDLE
 - 4-4 (LED 16) SLIDE BOX LIGHTS

- CONNECTOR 5**
- 5-1 (LED 17) SOFA DAY SHD UP
 - 5-2 (LED 18) SOFA DAY SHD DN
 - 5-3 (LED 19) SOFA NIGHT SHD UP
 - 5-4 (LED 20) SOFA NIGHT SHD DN

- CONNECTOR 6**
- 6-1 (LED 21) STEP EXT
 - 6-2 (LED 22) STEP RET
 - 6-3 (LED 23) GEN START
 - 6-4 (LED 24) GEN STOP

- CONNECTOR 7**
- 7-1 (LED 25) U-COACH ACNT (PARK)
 - 7-2 (LED 26) WNDSHLD ACNT LT
 - 7-3 (LED 27) MAP LT
 - 7-4 (LED 28) SPARE

- CONNECTOR 8**
- 8-1 (LED 29) PASSENGER FAN HI
 - 8-2 (LED 30) PASSENGER FAN LO
 - 8-3 (LED 31) ROAD LIGHT
 - 8-4 (LED 32) PORCH LIGHT

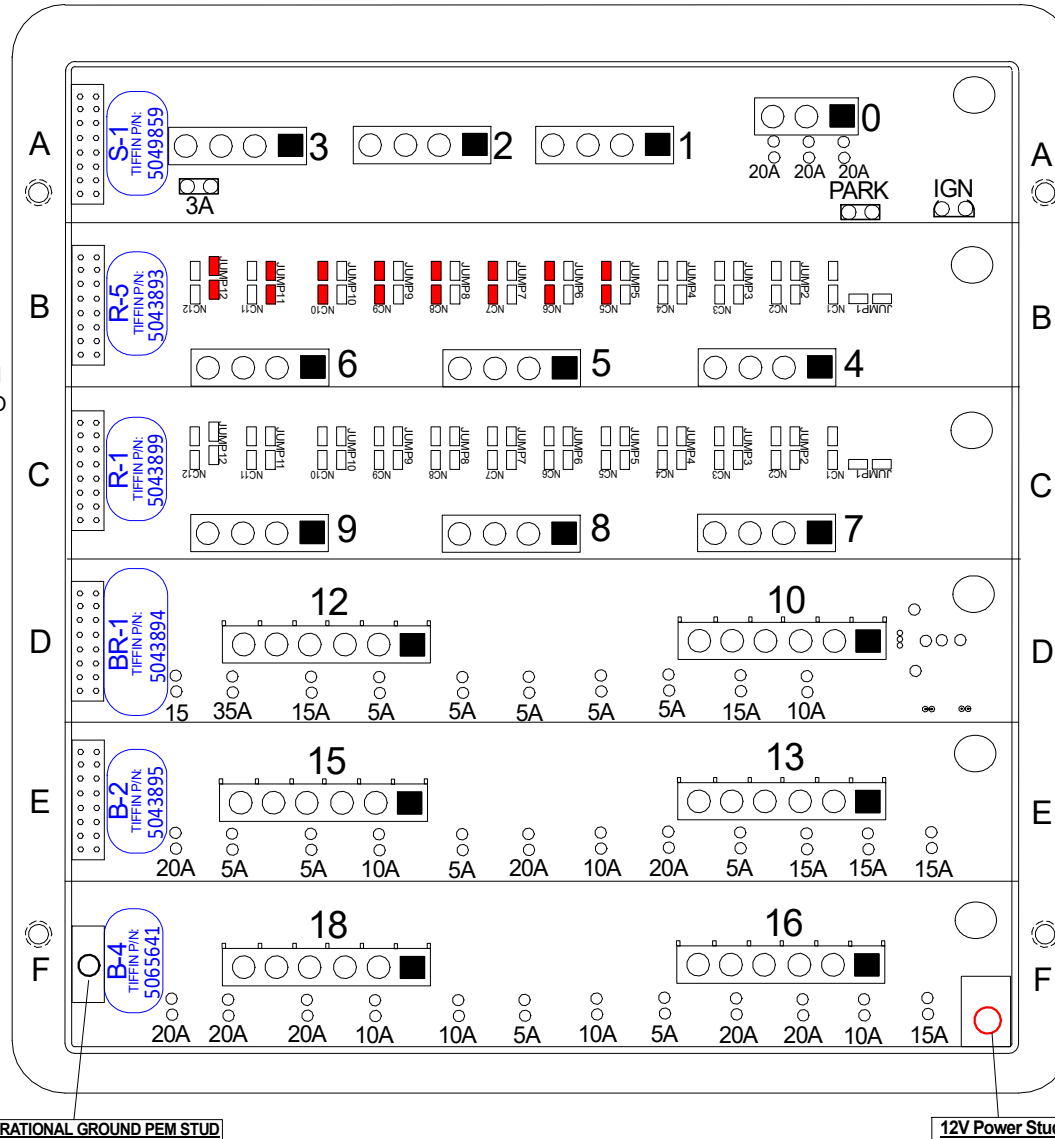
- CONNECTOR 9**
- 9-1 (LED 33) SPARE
 - 9-2 (LED 34) SPARE
 - 9-3 (LED 35) SPARE
 - 9-4 (LED 36) SPARE

PARK BRAKE SIGNAL

IGNITION SIGNAL

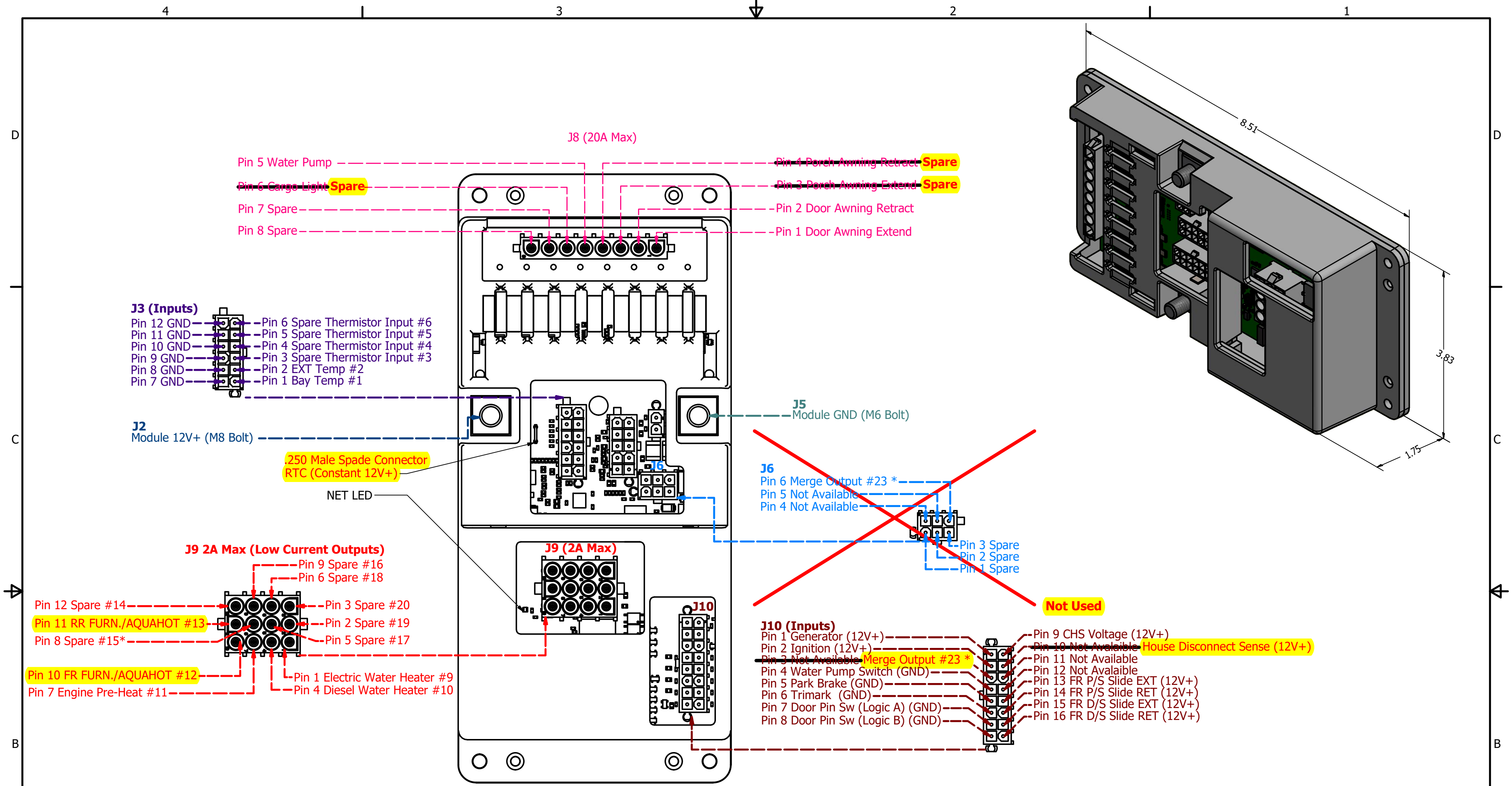
- CONNECTOR 13**
- 13-1 MAP LT / RADIO / FANS
 - 13-2 DASH USB POWER
 - 13-3 KEYLESS POWER
 - 13-4 ENTRY STEP SWITCH
 - 13-5 ENTRY STEP POWER
 - 13-6 KEYLESS ENTRY POWER

- CONNECTOR 15**
- 15-1 POWER SEAT #1
 - 15-2 CB
 - 15-3 ELEC STEP COVER
 - 15-4 SATELITE
 - 15-5 DASH SHADE MODULE
 - 15-6 POWER SEAT #2



NOTE: CONNECTORS ARE SHOWN HERE IN THE LOADED (REAR) VIEW.

- CONNECTOR 0**
- 0-1 FRONT SLIDE MODULE
 - 0-2 VANITY SLIDE MODULE
 - 0-3 BED SLIDE MODULE
- CONNECTOR 1**
- 1-1 (LED 1) D/S FR SLIDE RET
 - 1-2 (LED 2) D/S FR SLIDE EXT
 - 1-3 (LED 3) P/S FR SLIDE RET
 - 1-4 (LED 4) P/S FR SLIDE EXT
- CONNECTOR 2**
- 2-1 (LED 5) D/S RR SLIDE RET
 - 2-2 (LED 6) D/S RR SLIDE EXT
 - 2-3 (LED 7) P/S RR SLIDE RET
 - 2-4 (LED 8) P/S RR SLIDE EXT
- CONNECTOR 3**
- 3-1 (LED 9) HYDRAULIC PMP - D/S SLIDE
 - 3-2 (LED 10) HYDRAULIC PMP - P/S SLIDE
 - 3-3 (LED 11) PORCH/DOOR AWNING CONST
 - 3-4 (LED 12) SPARE
- CONNECTOR 3A**
- 3A-1
- CONNECTOR 10**
- 10-1
 - 10-2
 - 10-3 DENSO A/C PWR IGN(YELLOW)
 - 10-4 MIRRORS
 - 10-5 CAMERA IGN
 - 10-6 JACK BUZZER
- CONNECTOR 12**
- 12-1 PANEL LAMP/HEADLT LED
 - 12-2 FRIDGE
 - 12-3 ENTRY STEP IGN
 - 12-4 DOCK LIGHT
 - 12-5
 - 12-6 POWER WINDOW OPTION
- CONNECTOR 16**
- 16-1 RADIO MEMORY / XM PWR
 - 16-2 DENSO A/C POWER
 - 16-3 12V+ OUTLET #1
 - 16-4 12V+ OUTLET #2
 - 16-5 ENGINE PREHEAT SWITCH
 - 16-6 PASS USB / TRIMARK HANDLE
- CONNECTOR 18**
- 18-1
 - 18-2
 - 18-3
 - 18-4
 - 18-5
 - 18-6



NOTES

Switch inputs, voltage sensing and current sensing will function as long as the module is powered on the main power stud (J2) or the Generator or Ignition inputs on J10

*Merge Output #23 on J6 is powered by the house or ignition inputs

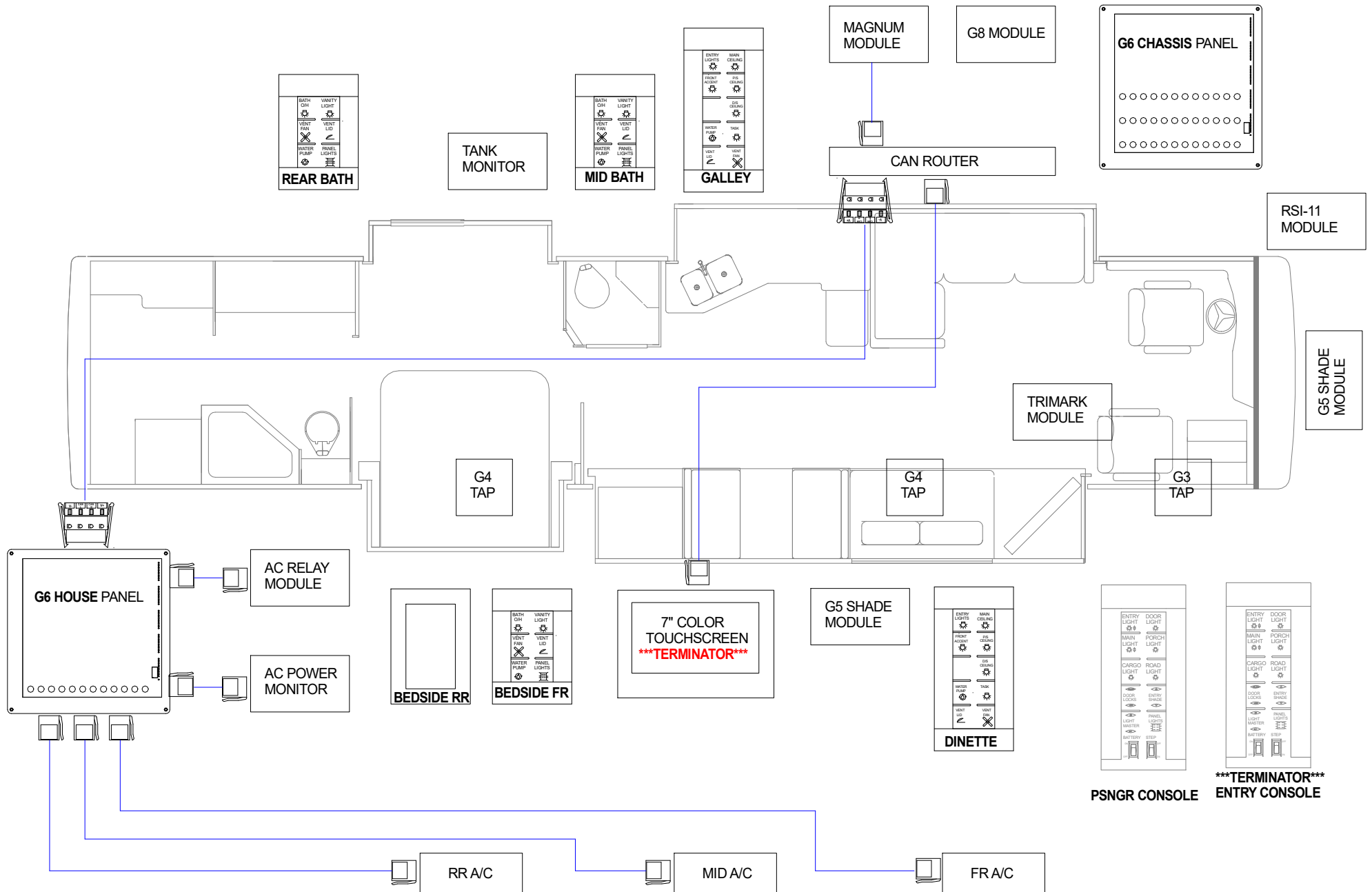
NET LED Status				
LED Activity		Status		
	Solid Green	Device is connected to network and communicating properly		
	Off	Device has no power or has completely failed		
	Solid Red	Device has gone offline and is not connected to network		
	Fast Flashing Green (4 times/sec)	Device is attempting to make initial connection to network		
	Slow Flashing Green (1 time/sec)	Device was online but has not seen a valid network message for 5 seconds		
	Alternating Red & Orange	Device has gone offline and is attempting to re-connect (within 30 seconds)		
	Alternating Green & Orange	Device is currently online but has gone offline 2 or more times		
PINS				
MFG	PN	DESC	MATE	
TE	1-770834-0	30-26 AWG MATE-N-LCOK	J10, J6, J4, J3, J1	
TE	350218-3	20-14 AWG MATE-N-LOCK	J9	
TE	350218-1	20-14 AWG MATE-N-LOCK	J8	
Torque Spec				
		Min	Max	Bolt
		60 in-lbf	70 in-lbf	J2
		30 in-lbf	33 in-lbf	J5

MATING CONNECTORS			
MFG	PN	DESC	MATE
TE	770583-1	16 POS MINI MATE-N-LOCK	J10
TE	1-480708-0	12 POS MATE-N-LOCK	J9
TE	640582-1	8 POS MATE-N-LOCK	J8
TE	172168-1	6 POS MINI MATE-N-LOCK	J6
TE	770580-1	10 POS MINI MATE-N-LOCK	J4
TE	770581-1	12 POS MINI MATE-N-LOCK	J3
TE	172165-1	2 POS MINI MATE-N-LOCK	J1

SPYDER CONROLS CORPORATION			
TITLE G8 Module Pinout			
SIZE C	ALL DIMENSIONS IN INCHES	PART# BMODZTGC9	REV 1v1
SCALE 1:1	2017-03-29	SHEET 1 OF 1	

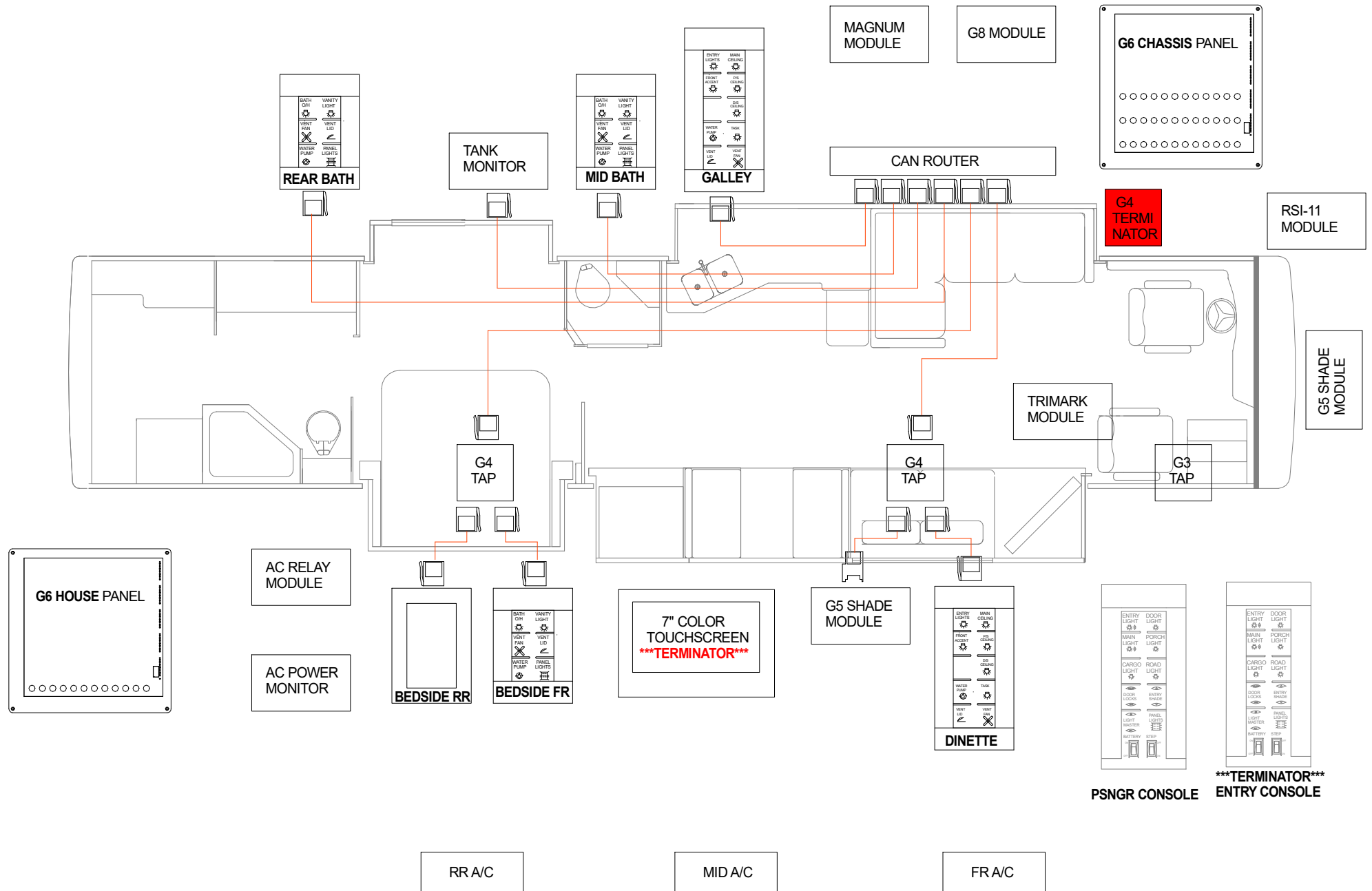
2018 BUS NETWORK WIRING DIAGRAM

BLUE NETWORK - CRITICAL



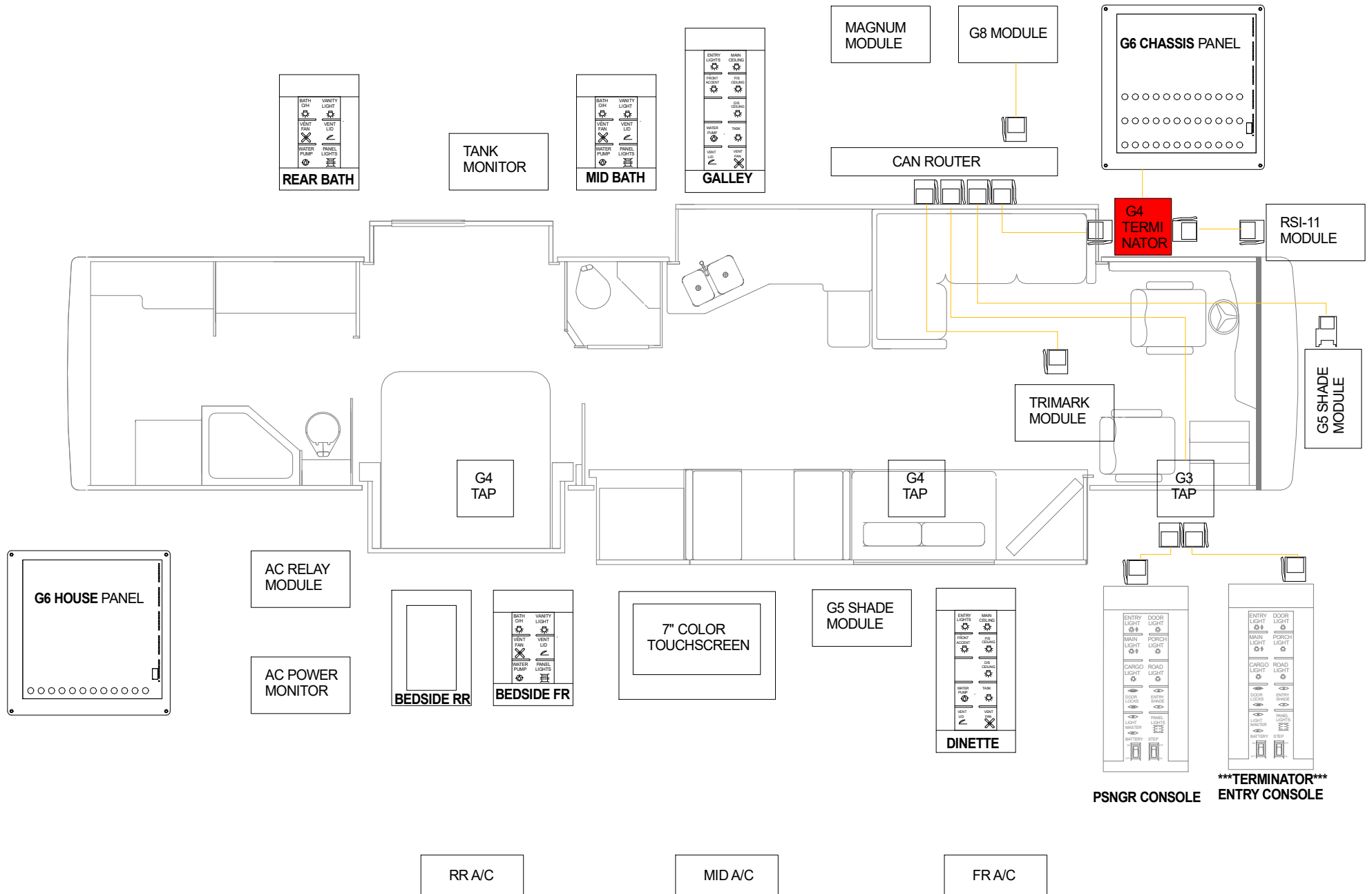
2018 BUS NETWORK WIRING DIAGRAM

ORANGE NETWORK - SWITCHES



2018 BUS NETWORK WIRING DIAGRAM

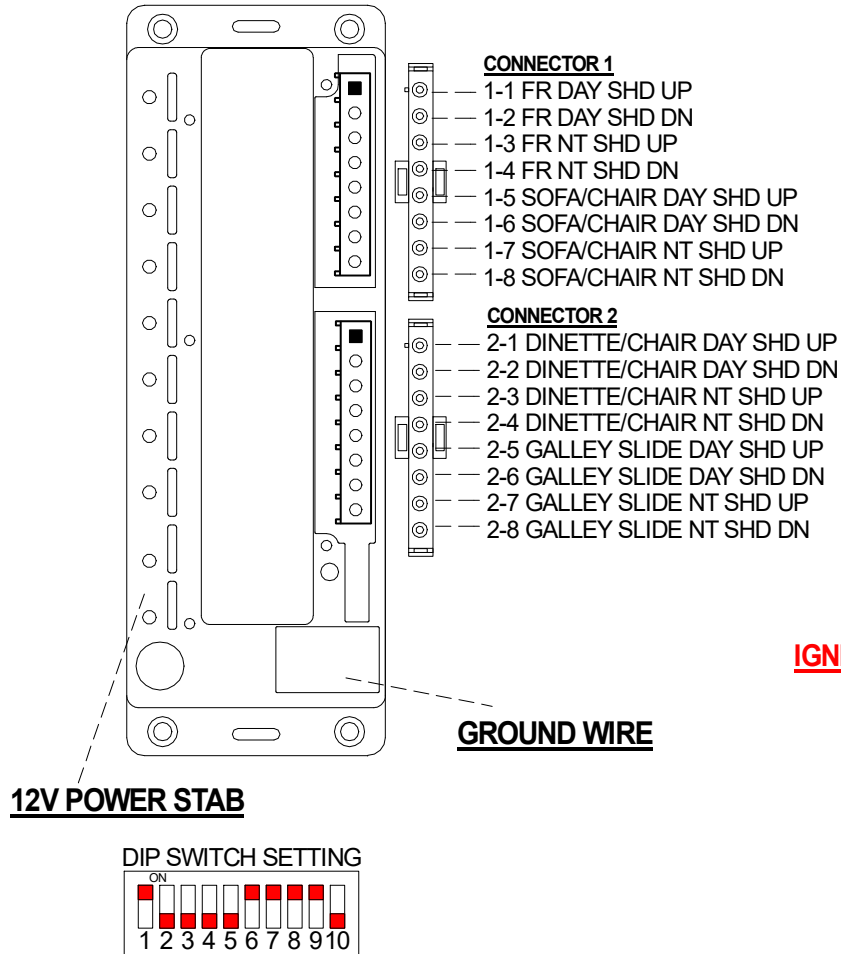
YELLOW - MODULES



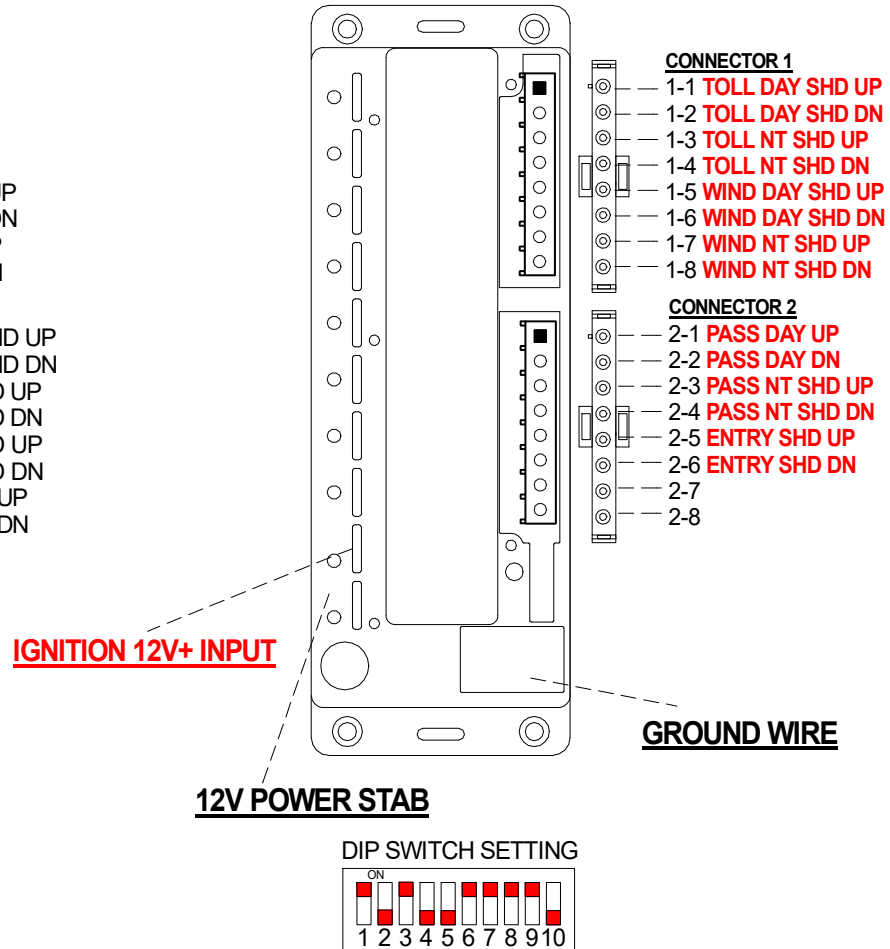
G5 SHADE MODULE LAYOUT 2018 BUS / PHAETON

PINOUT DIAGRAM - 2017/04/07

FRONT SHADE MODULE (BUS ONLY)



DASH SHADE MODULE (BUS AND PHAETON)



NOTE: CONNECTORS ARE SHOWN HERE IN THE LOADED (REAR) VIEW.

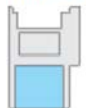
<u>Schematic Connections Legend</u>	
	Constant Ground
	Constant +12v
	Switched Ground
	Switchd +12v
	Reverse Polarity
	Signal
	120 VAC Line
	Critical Network
	Switch Panel Network
	Module Network

2018 Tiffin Bus & Phaeton Component Locations Diagram (Components not to scale)

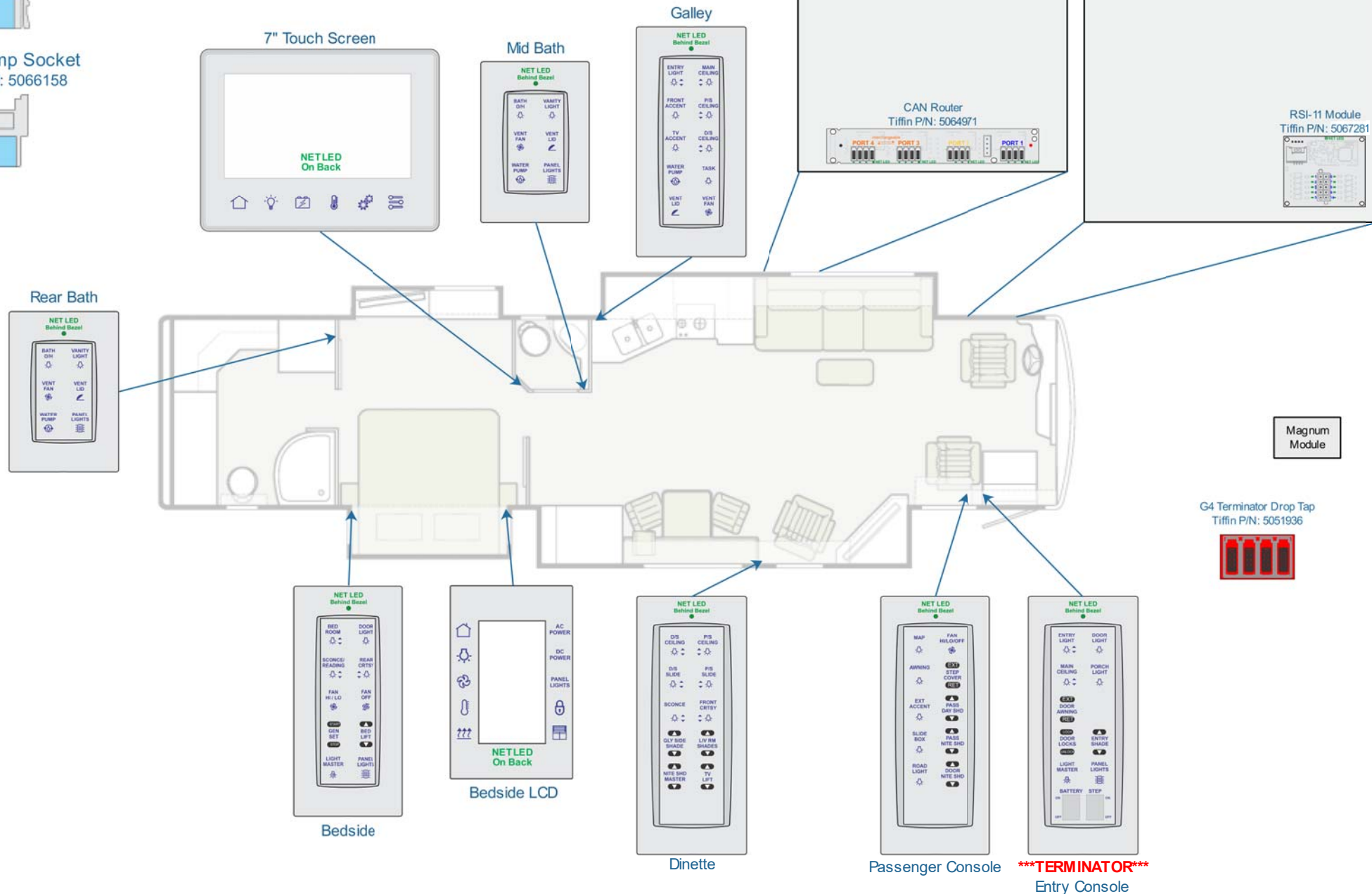
Mini-Clamp Plug
Tiffin P/N: 5066157



Mini-Clamp Socket
Tiffin P/N: 5066158



Mini Clamp Pinout
Cable P/Ns



TERMINATOR
Entry Console

2018 Tiffin Bus & Phaeton Slide System (Components not to scale)

Park brake and ignition must be on for slides to operate.
In case of a system failure, use manual overrides on front of G6 Chassis panel to operate slides. Engage overrides using a pen or other slender object

HWH Slide Controller

D/S Front Slide Retract
D/S Front Slide Extend
P/S Front Slide Retract
P/S Front Slide Extend
Power Input
Hydraulic Pump

D/S Rear Slide Controller

Retract Input
Extend Input
Power Input

P/S Rear Slide Controller

Retract Input
Extend Input
Power Input

Park Brake Switch

If one of the front slides is electric, The corresponding Hydraulic Pump wire should not be connected.

Ignition Switch

P/S Front Slide Switch

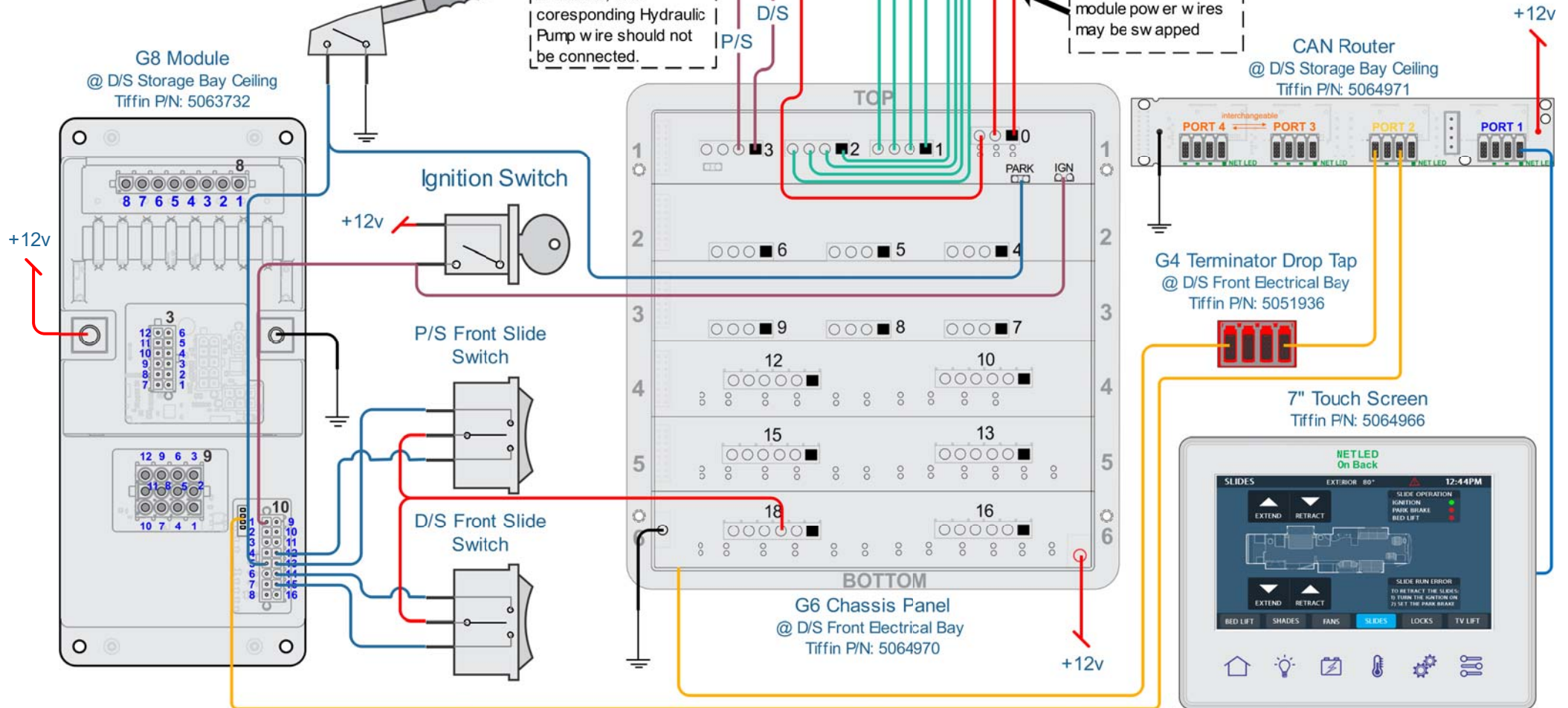
D/S Front Slide Switch

CAN Router @ D/S Storage Bay Ceiling Tiffin P/N: 5064971

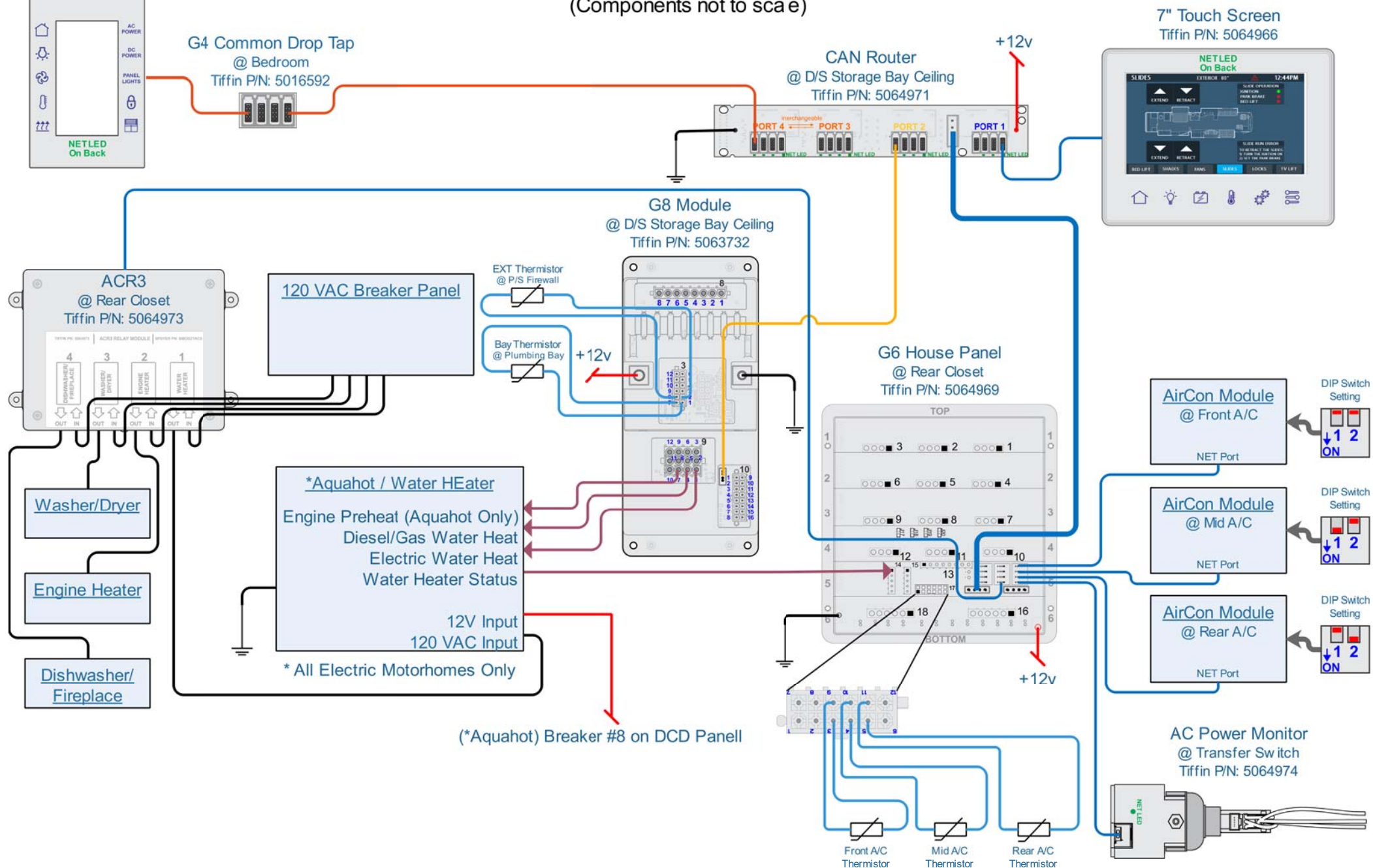
G4 Terminator Drop Tap @ D/S Front Electrical Bay Tiffin P/N: 5051936

7" Touch Screen Tiffin P/N: 5064966

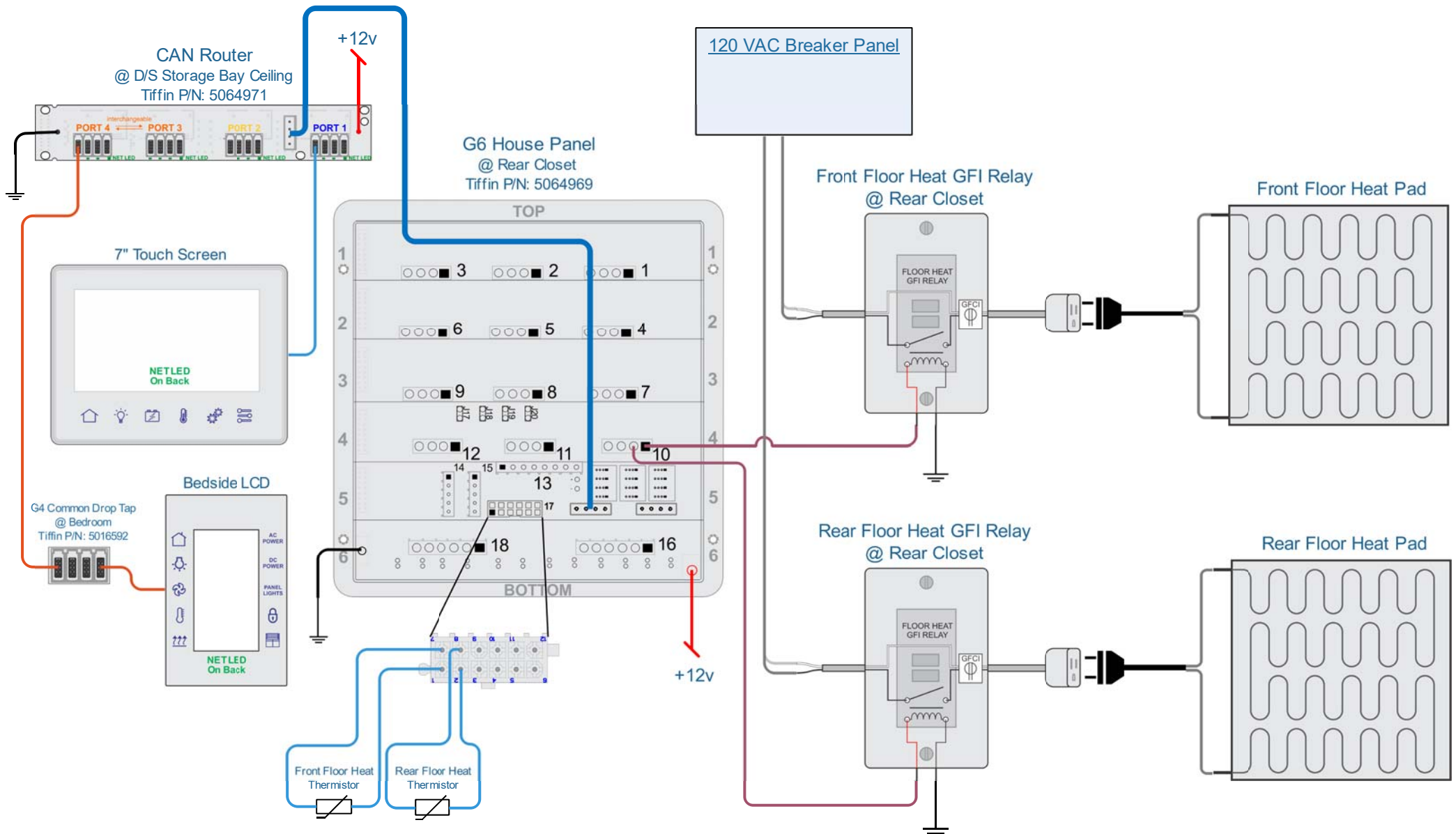
G6 Chassis Panel @ D/S Front Electrical Bay Tiffin P/N: 5064970



2018 Tiffin Bus & Phaeton HVAC System (Components not to scale)

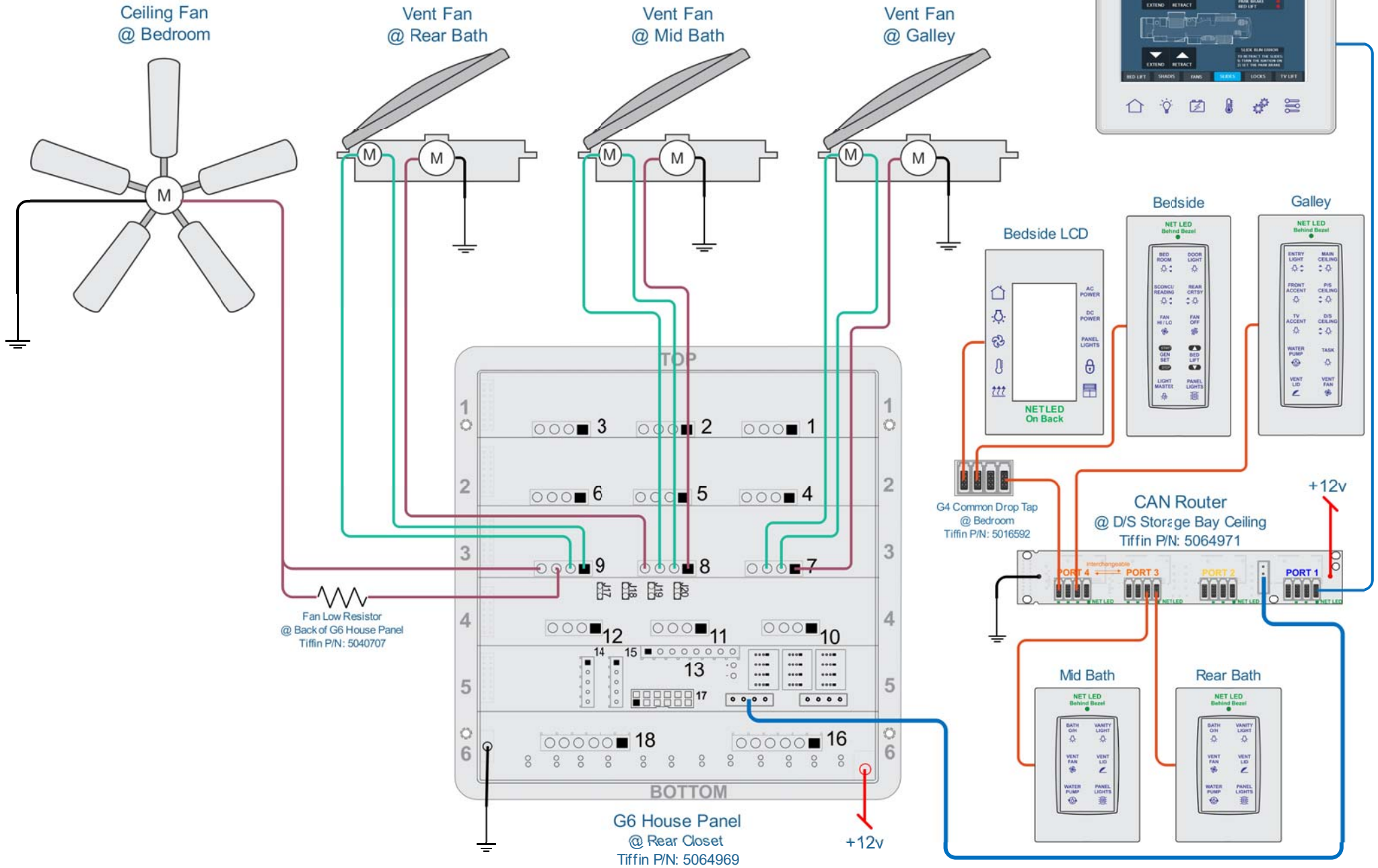


**2018 Tiffin Bus & Phaeton
Floor Heat System**
(Components not to scale)

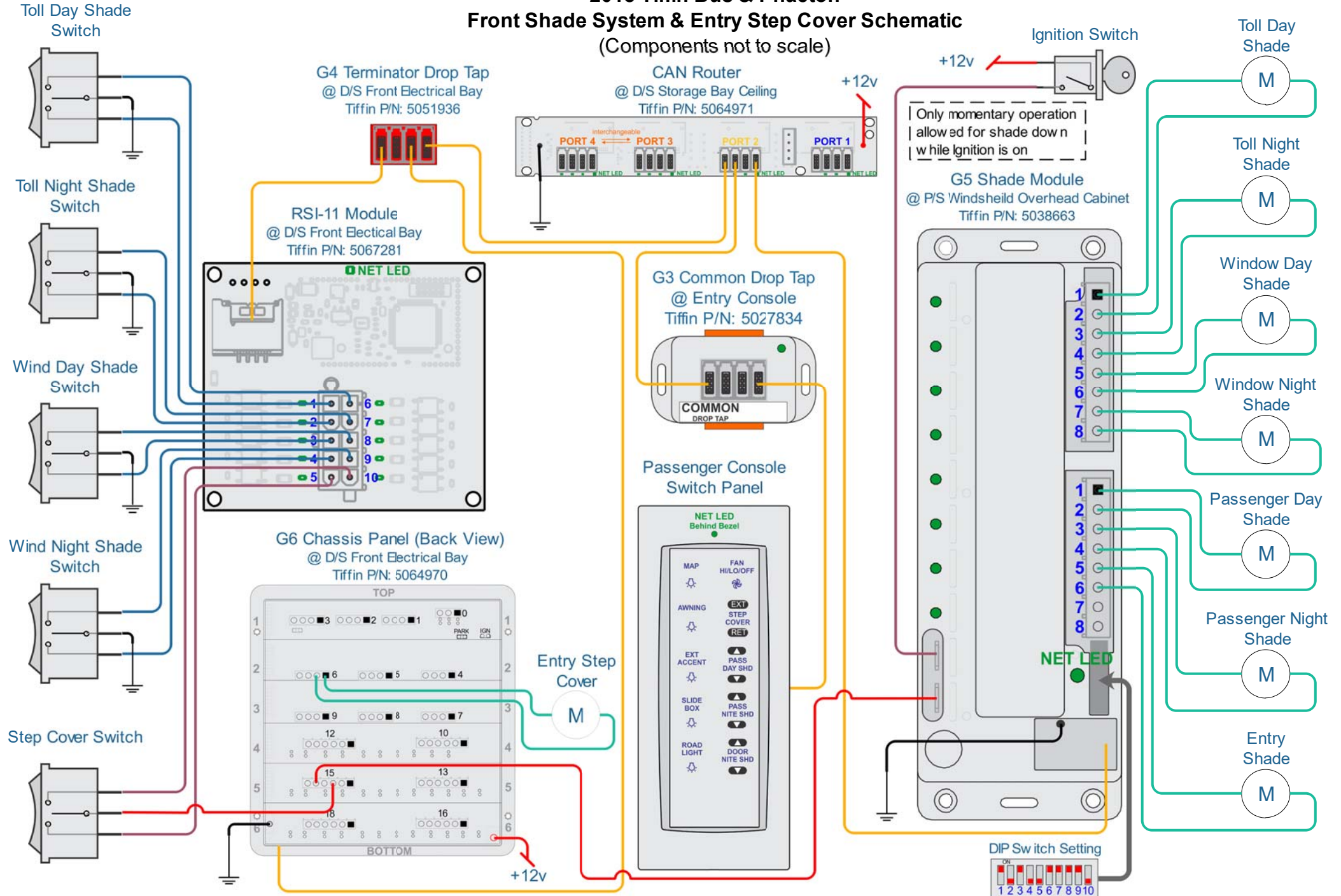


**2018 Tiffin Bus & Phaeton
Vent Fan & Ceiling Fan System**
(Components not to scale)

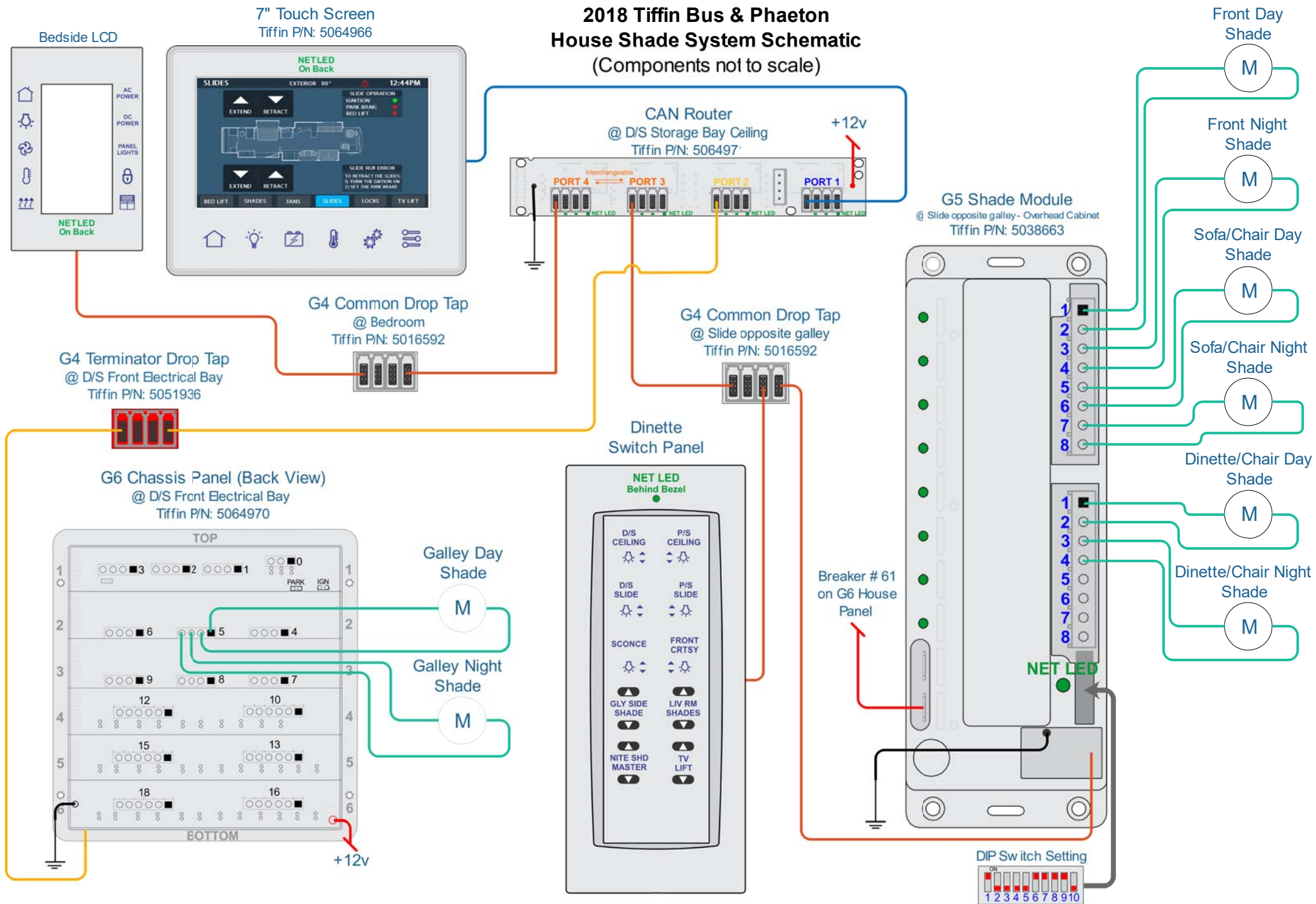
7" Touch Screen
Tiffin P/N: 5064966



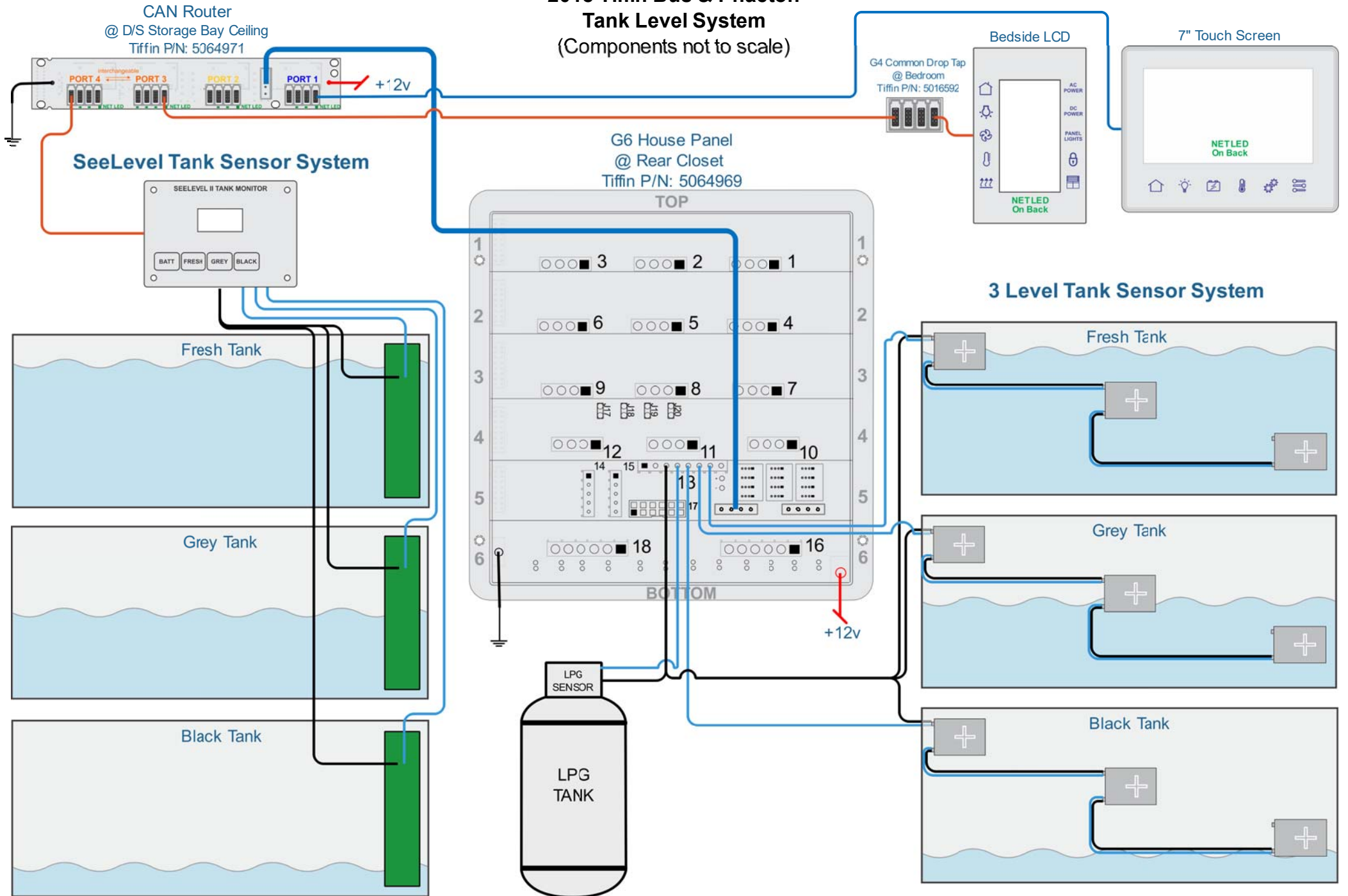
2018 Tiffin Bus & Phaeton Front Shade System & Entry Step Cover Schematic (Components not to scale)



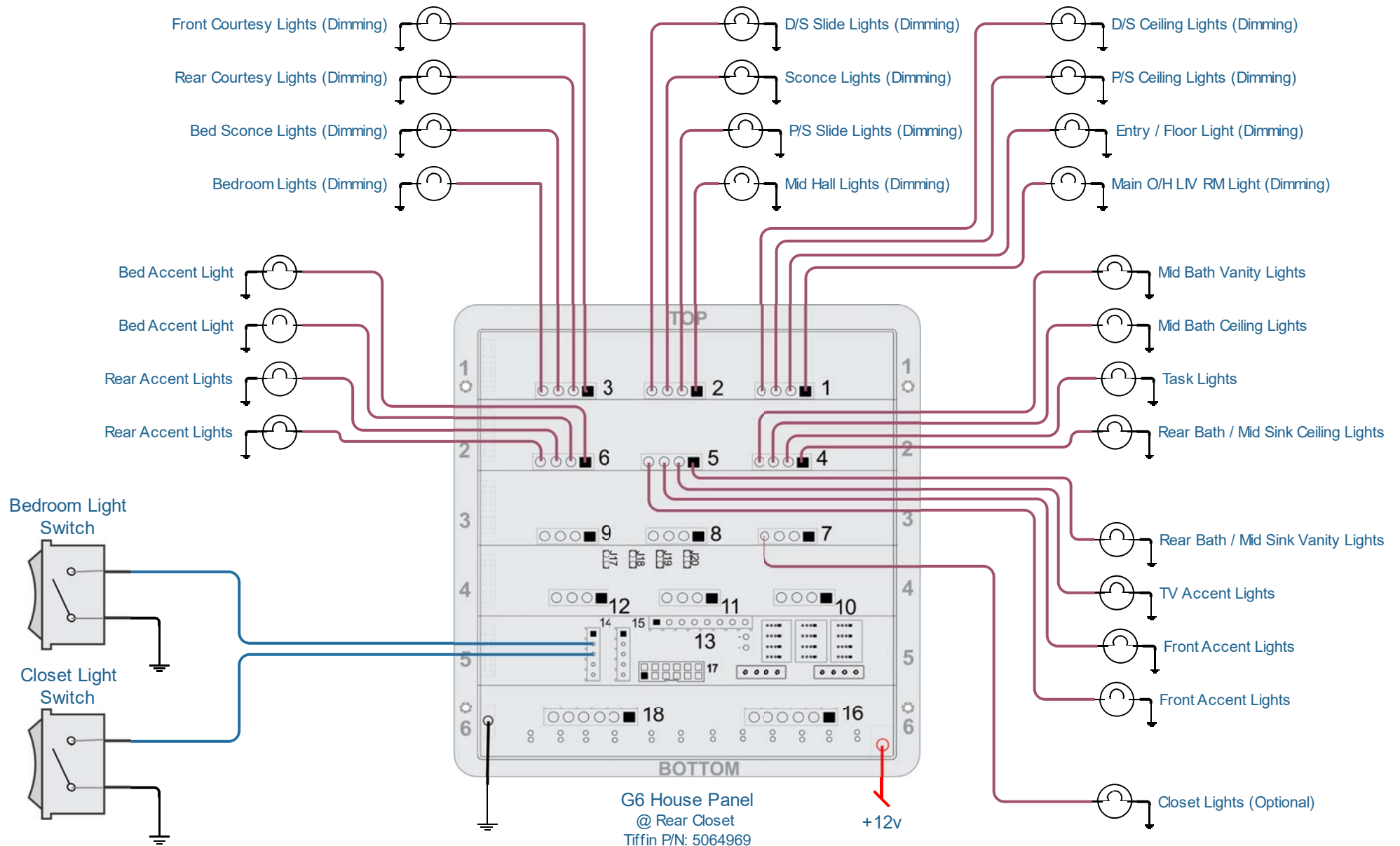
**2018 Tiffin Bus & Phaeton
House Shade System Schematic**
(Components not to scale)



2018 Tiffin Bus & Phaeton Tank Level System (Components not to scale)



2018 Tiffin Bus & Phaeton
Lighting System
(Components not to scale)



2018 Tiffin Bus & Phaeton
Miscellaneous
(Components not to scale)

