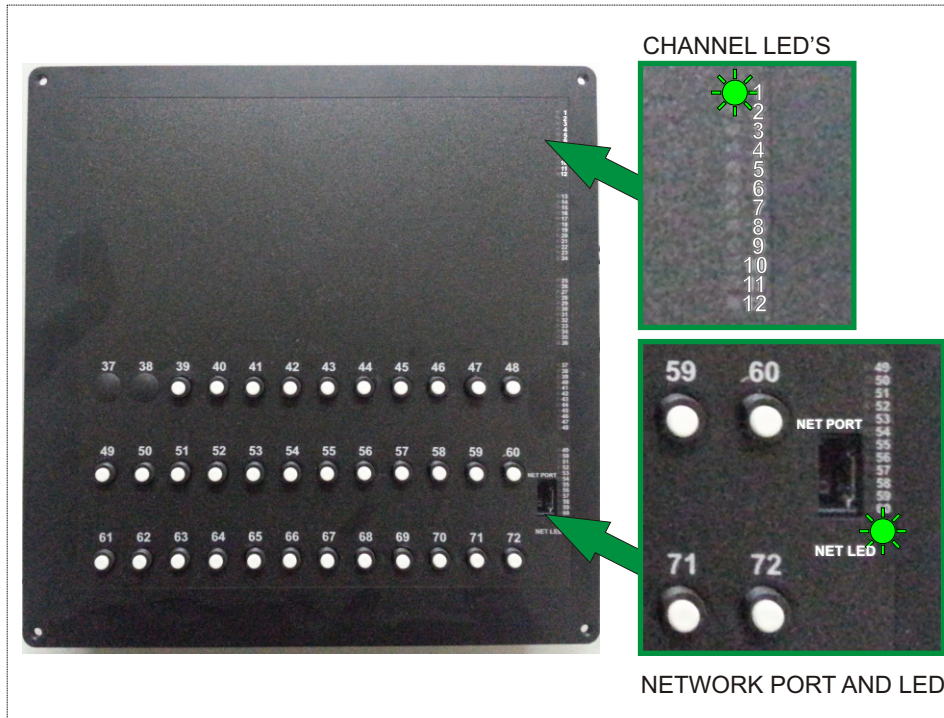


DIAGNOSTIC LED FEATURES

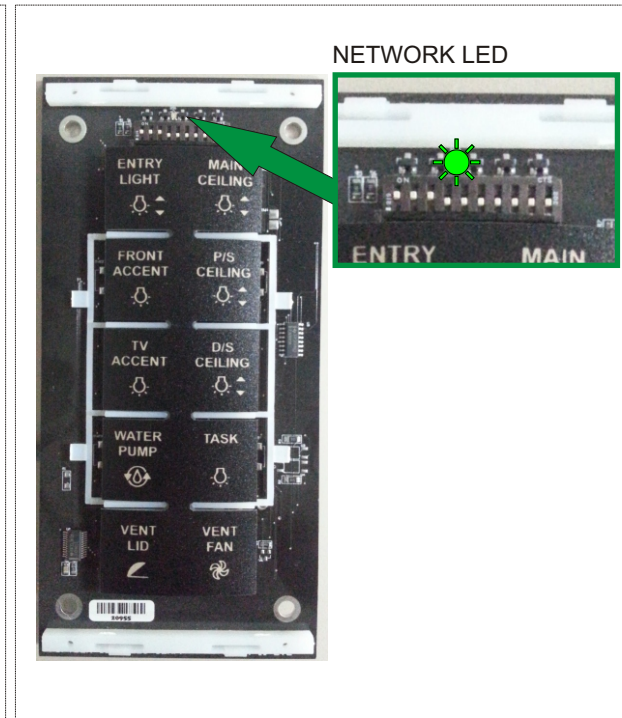
Each SWITCH PANEL and CONTROL PANEL has built-in diagnostic LED indicators. The CHANNEL LED corresponds with the circuit listed on the chart to the left and indicates if the circuit is ON or OFF. The NETWORK LED indicates if the panel has power and whether or not it is communicating with the other panels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

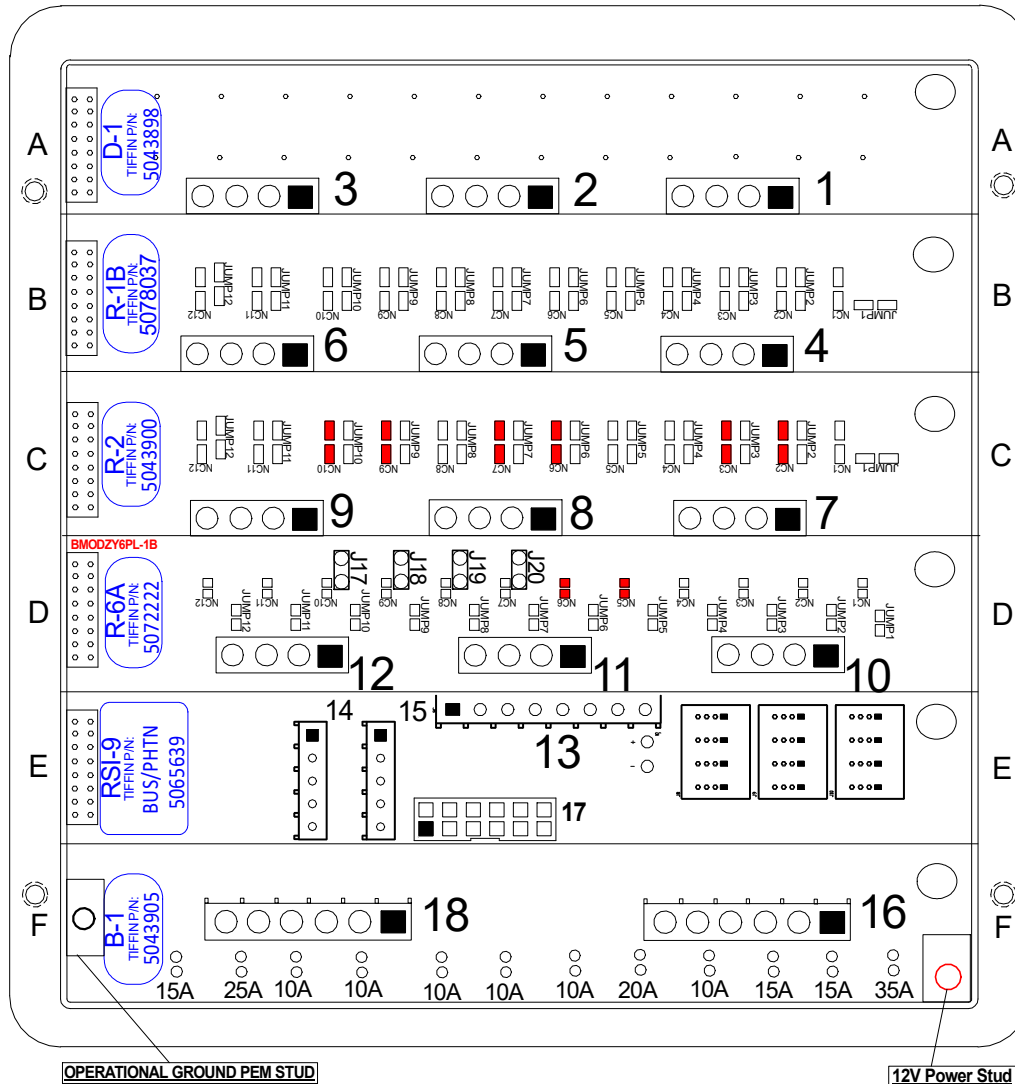


NETWORK STATUS LED INDICATOR

- ★ - 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 - 08.08.2018

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) **AQUAHOT ON/LO**
 - 10-4 (G6 LED 40) **AQUAHOT HI**
- 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) RR TV LIFT UP
 - 12-2 (G6 LED 46) RR 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

- CONNECTOR 1**
- 1-1 (G6 LED 1) MAIN O/H / LIV RM LIGHT
 - 1-2 (G6 LED 2) ENTRY / FLOOR LIGHT
 - 1-3 (G6 LED 3) PS CEILING LIGHTS
 - 1-4 (G6 LED 4) DS CEILING LIGHTS
- CONNECTOR 2**
- 2-1 (G6 LED 5) MID HALL LIGHTS
 - 2-2 (G6 LED 6) PS SLIDE LIGHTS
 - 2-3 (G6 LED 7) SCONCE
 - 2-4 (G6 LED 8) DS SLIDE LIGHTS
- CONNECTOR 3**
- 3-1 (G6 LED 9) FR CRTSY LIGHTS
 - 3-2 (G6 LED 10) RR CRTSY LIGHTS
 - 3-3 (G6 LED 11) BED SCONCE LIGHTS
 - 3-4 (G6 LED 12) BEDROOM LIGHTS
- CONNECTOR 7**
- 7-1 (G6 LED 25) GALLEY FAN ON/OFF
 - 7-2 (G6 LED 26) GALLEY FAN UP
 - 7-3 (G6 LED 27) GALLEY FAN DN
 - 7-4 (G6 LED 28) CLOSET LIGHTS (OPTIONAL)
- CONNECTOR 8**
- 8-1 (G6 LED 29) MID BATH FAN ON/OFF
 - 8-2 (G6 LED 30) MID BATH FAN UP
 - 8-3 (G6 LED 31) MID BATH FAN DN
 - 8-4 (G6 LED 32) REAR BATH / MID SINK FAN ON/OFF
- CONNECTOR 9**
- 9-1 (G6 LED 33) REAR BATH / MID SINK FAN UP
 - 9-2 (G6 LED 34) REAR BATH / MID SINK FAN DN
 - 9-3 (G6 LED 35) CEILING FAN LO
 - 9-4 (G6 LED 36) CEILING FAN HI
- CONNECTOR 13**
- 13-1
 - 13-2 CONSTANT 12V+ (BATT)
 - 13-3 GND (COMMON FOR SENSORS)
 - 13-4 LPG SENSOR INPUT
 - 13-5 BLACK TANK SENSOR
 - 13-6 GREY TANK SENSOR
 - 13-7 FRESH TANK SENSOR
 - 13-8

GND

OPERATIONAL GROUND PEM STUD

12V Power Stud

- CONNECTOR 18**
- 18-1 - BREAKER #67
 - 18-2 - BREAKER #68
 - 18-3 - BREAKER #69
 - 18-4 BRKR TO RR SLIDE - BREAKER #70
 - 18-5 FRIDGE - BREAKER #71
 - 18-6 - BREAKER #72

- CONNECTOR 16**
- 16-1 - BREAKER #61
 - 16-2 FRONT FURNACE - BREAKER #62
 - 16-3 REAR FURNACE - BREAKER #63
 - 16-4 SWITCHER / LP/IR - BREAKER #64
 - 16-5 OUTSIDE TV - BREAKER #65
 - 16-6 - BREAKER #66

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

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

G6A CONTROL PANEL LAYOUT
Tiffin PN: 5064970 Spyder PN: BENCZ54C9
BUS/PHTN - CHASSIS Rev 4V0
PINOUT DIAGRAM - 8.8.2018

Back View

Card Legend

- R=RELAY CARD
- B=BREAKER CARD
- BR=BREAKER/RELAY CARD
- D=DIMMER CARD
- = JUMPED

- 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

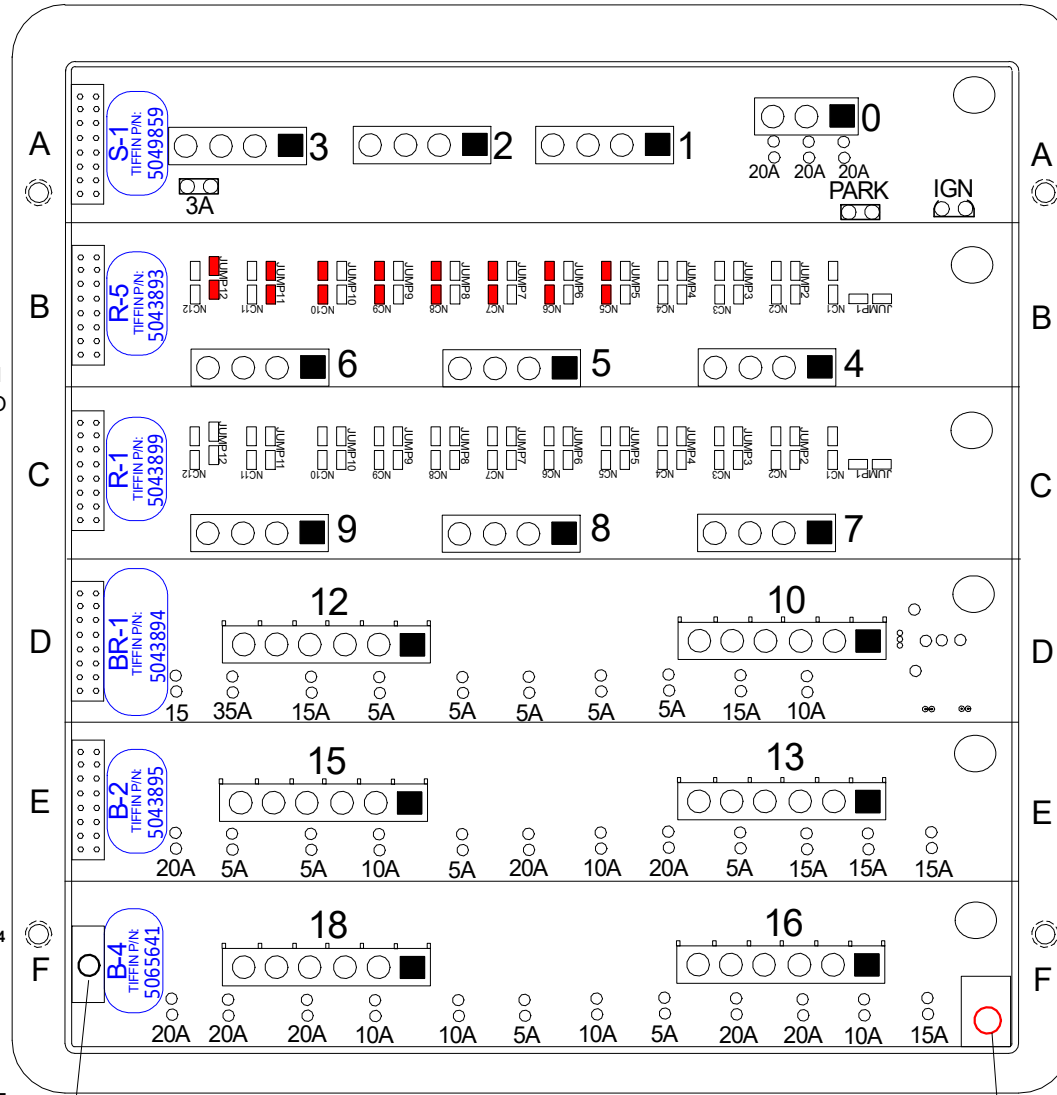
PARK BRAKE SIGNAL

IGNITION SIGNAL

- CONNECTOR 13**
- 13-1 MAP LT / RADIO / FANS - BREAKER #49
 - 13-2 DASH USB POWER - BREAKER #50
 - 13-3 KEYLESS POWER - BREAKER #51
 - 13-4 ENTRY STEP SWITCH - BREAKER #52
 - 13-5 ENTRY STEP POWER - BREAKER #53
 - 13-6 KEYLESS ENTRY POWER - BREAKER #54

- CONNECTOR 15**
- 15-1 POWER SEAT #1 - BREAKER #55
 - 15-2 CB - BREAKER #56
 - 15-3 ELEC STEP COVER - BREAKER #57
 - 15-4 SATELITE - BREAKER #58
 - 15-5 DASH SHADE MODULE - BREAKER #59
 - 15-6 POWER SEAT #2 - BREAKER #60

OPERATIONAL GROUND PEM STUD



12V Power Stud

- 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

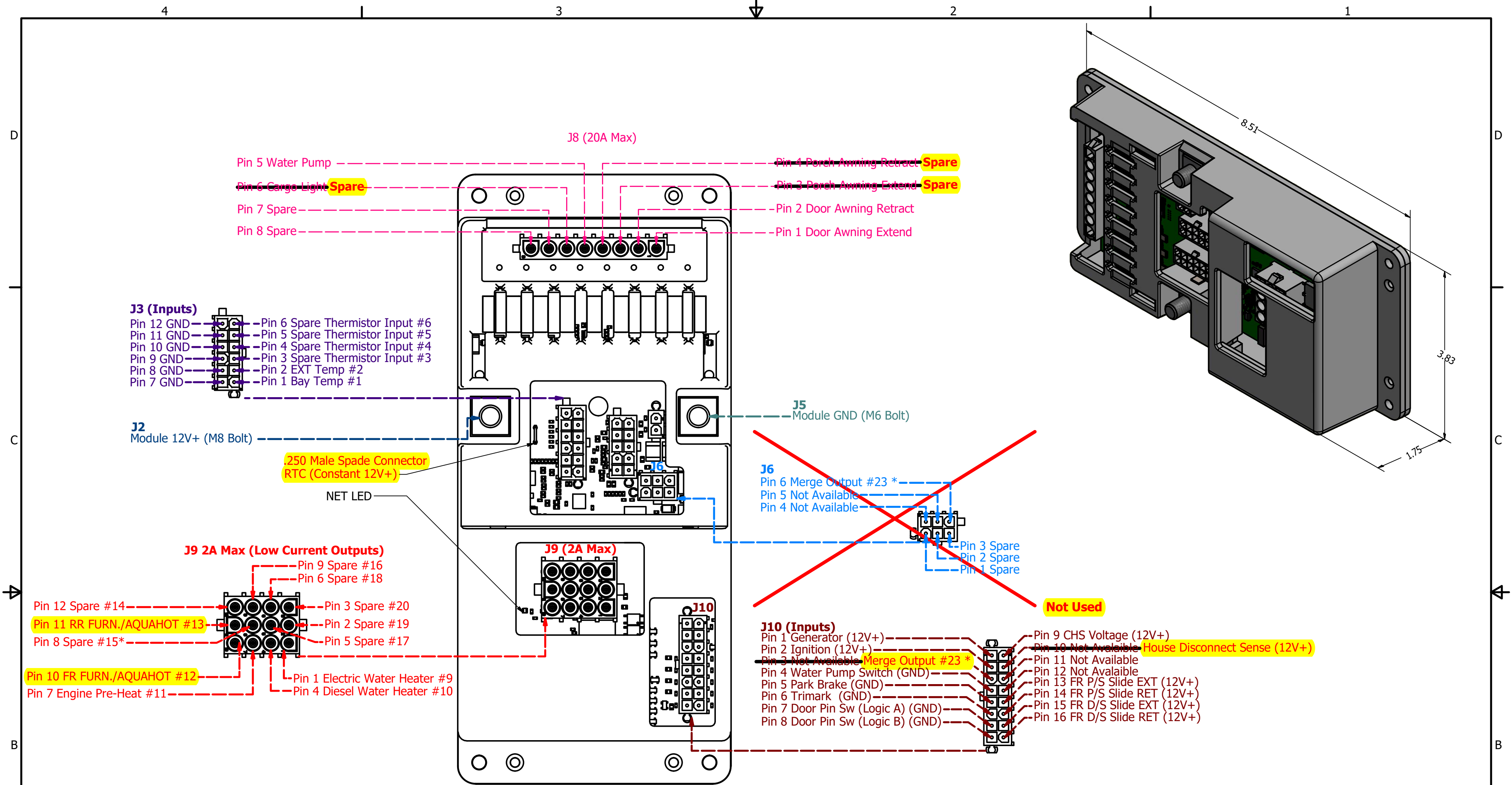
- CONNECTOR 10**
- 10-1 - BREAKER #37
 - 10-2 - BREAKER #38
 - 10-3 DENSO A/C PWR IGN(YLW) - BREAKER #39
 - 10-4 MIRRORS - BREAKER #40
 - 10-5 CAMERA IGN - BREAKER #41
 - 10-6 JACK BUZZER - BREAKER #42

- CONNECTOR 12**
- 12-1 PANEL LAMP/HEADLT LED - BREAKER #43
 - 12-2 FRIDGE - BREAKER #44
 - 12-3 ENTRY STEP IGN - BREAKER #45
 - 12-4 DOCK LIGHT - BREAKER #46
 - 12-5 - BREAKER #47
 - 12-6 POWER WINDOW OPTION - BREAKER #48

- CONNECTOR 16**
- 16-1 RADIO MEMORY / XM PWR - BREAKER #61
 - 16-2 DENSO A/C POWER - BREAKER #62
 - 16-3 12V+ OUTLET #1 - BREAKER #63
 - 16-4 12V+ OUTLET #2 - BREAKER #64
 - 16-5 ENGINE PREHEAT SWITCH - BREAKER #65
 - 16-6 PASS USB / TRIMARK HANDLE - BREAKER #66

- CONNECTOR 18**
- 18-1 - BREAKER #67
 - 18-2 - BREAKER #68
 - 18-3 - BREAKER #69
 - 18-4 - BREAKER #70
 - 18-5 - BREAKER #71
 - 18-6 - BREAKER #72

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



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

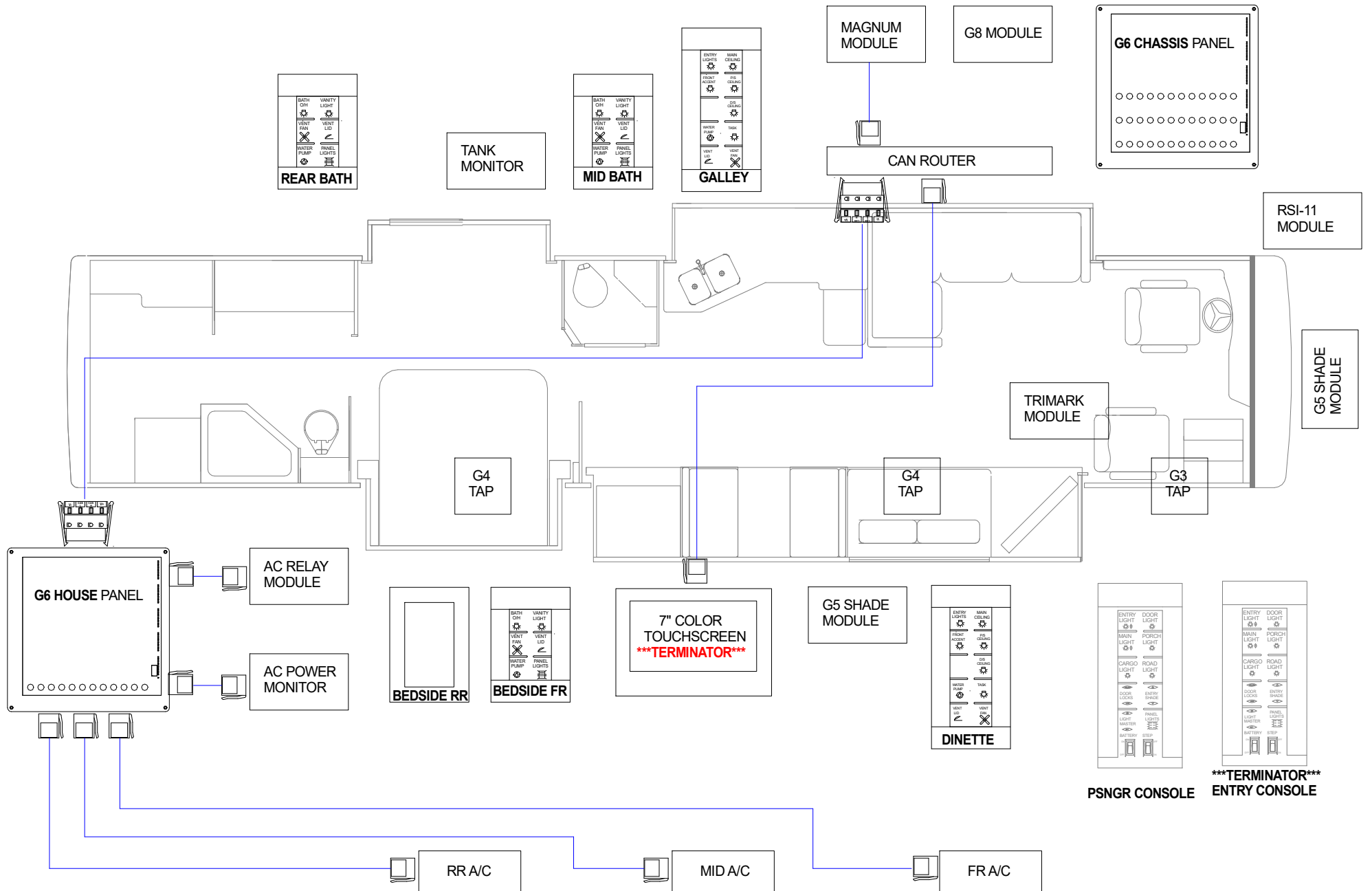
PINS				Torque Spec		
MFG	PN	DESC	MATE	Min	Max	Bolt
TE	1-770834-0	30-26 AWG MATE-N-LCOK	J10, J6, J4, J3, J1	60 in-lbf	70 in-lbf	J2
TE	350218-3	20-14 AWG MATE-N-LOCK	J9	30 in-lbf	33 in-lbf	J5
TE	350218-1	20-14 AWG MATE-N-LOCK	J8			

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	

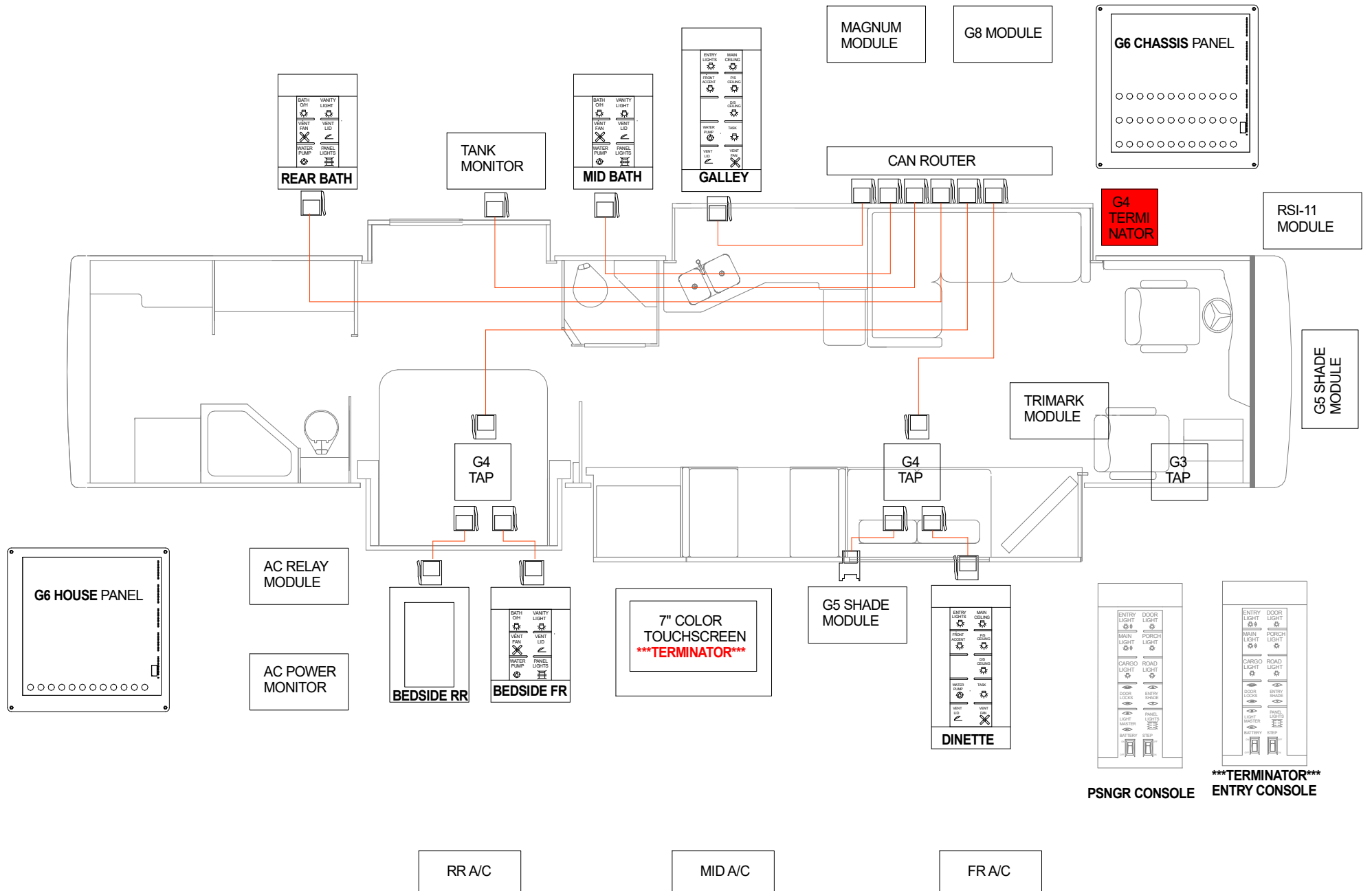
2018 BUS NETWORK WIRING DIAGRAM

BLUE NETWORK - CRITICAL



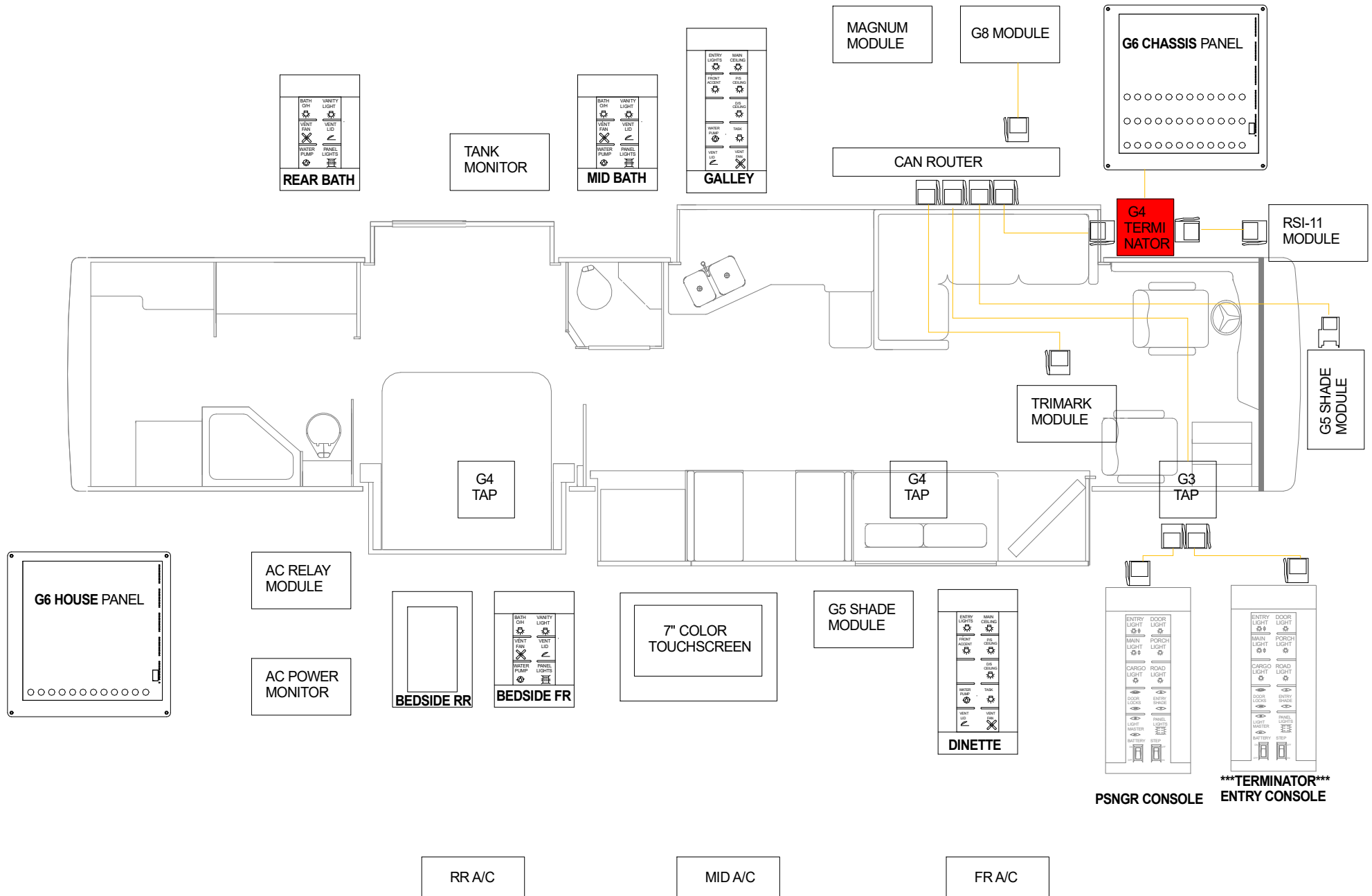
2018 BUS NETWORK WIRING DIAGRAM

ORANGE NETWORK - SWITCHES



2018 BUS NETWORK WIRING DIAGRAM

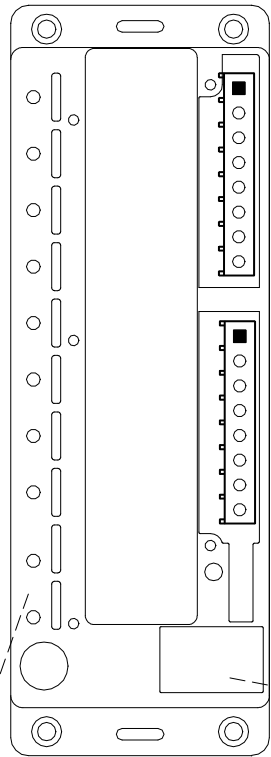
YELLOW - MODULES



G5 SHADE MODULE LAYOUT 2018 BUS / PHAETON

PINOUT DIAGRAM - 2017/04/07

FRONT SHADE MODULE (BUS ONLY)



CONNECTOR 1

- 1-1 FR DAY SHD UP
- 1-2 FR DAY SHD DN
- 1-3 FR NT SHD UP
- 1-4 FR NT SHD DN
- 1-5 SOFA/CHAIR DAY SHD UP
- 1-6 SOFA/CHAIR DAY SHD DN
- 1-7 SOFA/CHAIR NT SHD UP
- 1-8 SOFA/CHAIR NT SHD DN

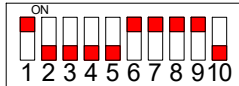
CONNECTOR 2

- 2-1 DINETTE/CHAIR DAY SHD UP
- 2-2 DINETTE/CHAIR DAY SHD DN
- 2-3 DINETTE/CHAIR NT SHD UP
- 2-4 DINETTE/CHAIR NT SHD DN
- 2-5 GALLEY SLIDE DAY SHD UP
- 2-6 GALLEY SLIDE DAY SHD DN
- 2-7 GALLEY SLIDE NT SHD UP
- 2-8 GALLEY SLIDE NT SHD DN

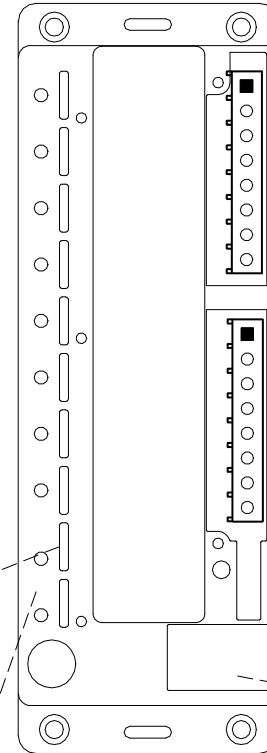
GROUND WIRE

12V POWER STAB

DIP SWITCH SETTING



DASH SHADE MODULE (BUS AND PHAETON)



CONNECTOR 1

- 1-1 **TOLL DAY SHD UP**
- 1-2 **TOLL DAY SHD DN**
- 1-3 **TOLL NT SHD UP**
- 1-4 **TOLL NT SHD DN**
- 1-5 **WIND DAY SHD UP**
- 1-6 **WIND DAY SHD DN**
- 1-7 **WIND NT SHD UP**
- 1-8 **WIND NT SHD DN**

CONNECTOR 2

- 2-1 **PASS DAY UP**
- 2-2 **PASS DAY DN**
- 2-3 **PASS NT SHD UP**
- 2-4 **PASS NT SHD DN**
- 2-5 **ENTRY SHD UP**
- 2-6 **ENTRY SHD DN**
- 2-7
- 2-8

GROUND WIRE











IGNITION 12V+ INPUT

12V POWER STAB

DIP SWITCH SETTING



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

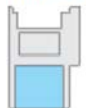
Scematic Connections Legend	
	Constant Ground
	Constant +12v
	Switched Ground
	Switchd +12v
	Reverse Polarity
	Signal
	120 VAC Line
	Critical Network
	Switch Panel Network
	Module Network

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

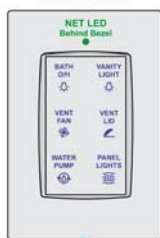
Rear Bath



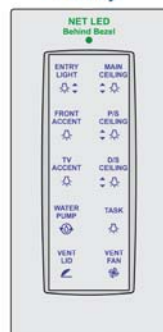
7" Touch Screen



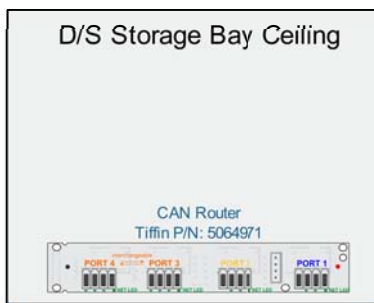
Mid Bath



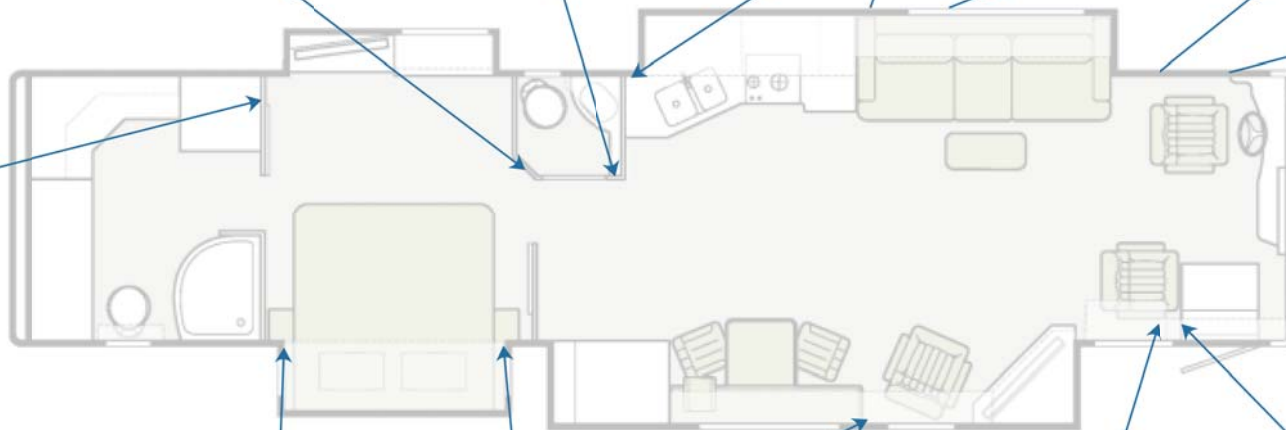
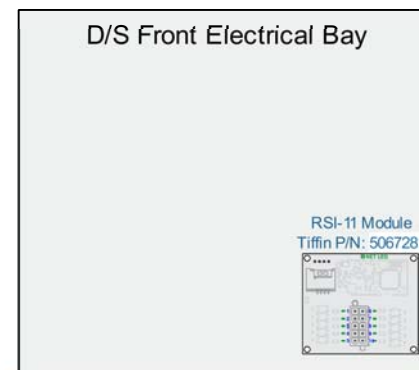
Galley



D/S Storage Bay Ceiling



D/S Front Electrical Bay

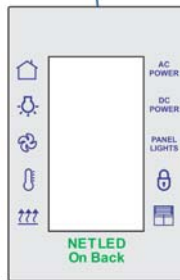


Magnum Module

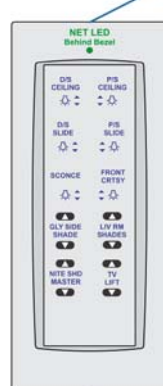
G4 Terminator Drop Tap
Tiffin P/N: 5051936



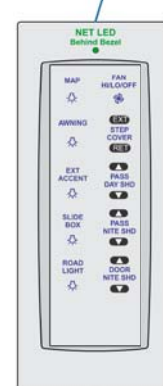
Bedside



Bedside LCD



Dinette



Passenger Console



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

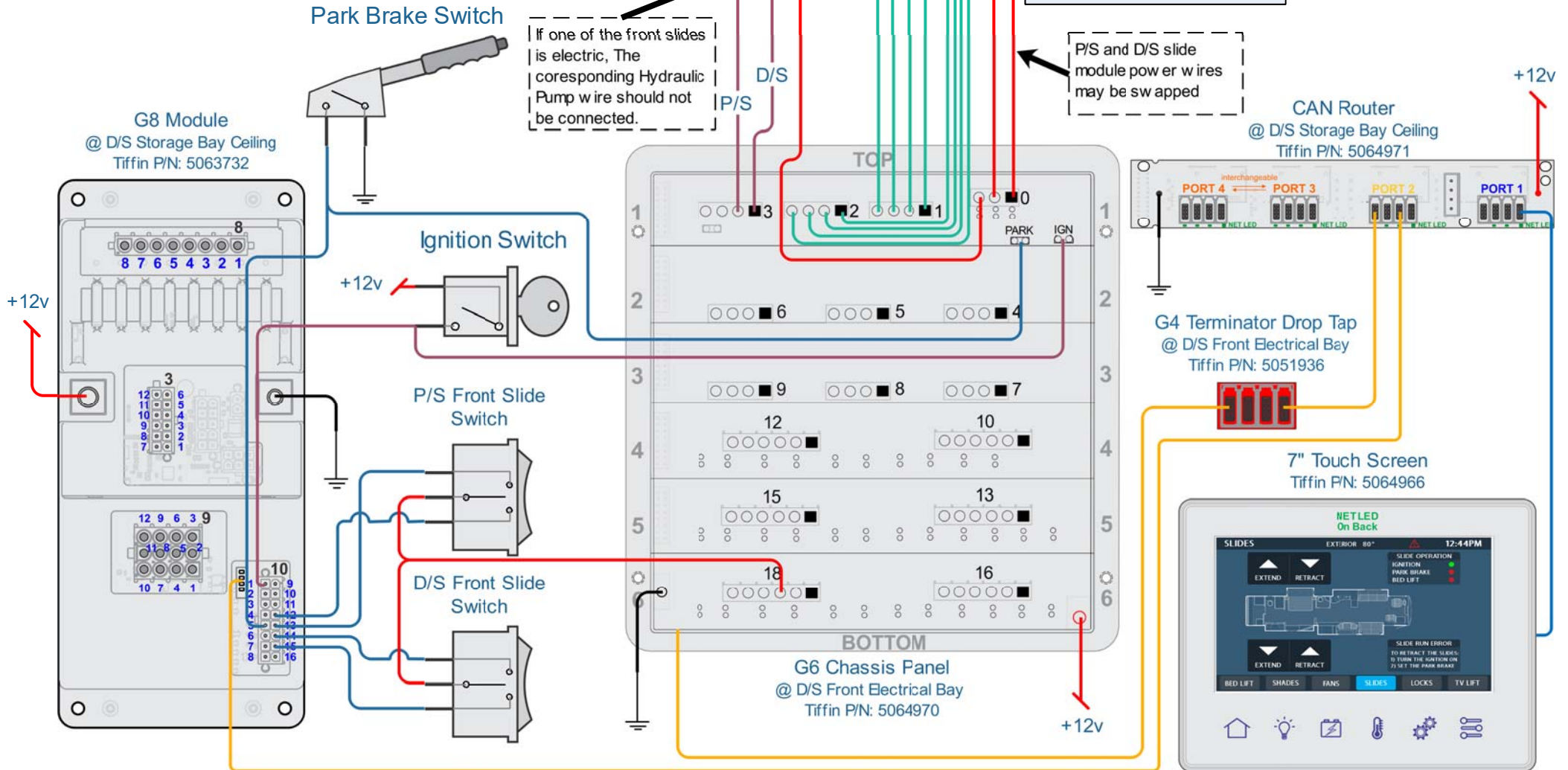
- Retract Input
- Extend Input
- Power Input

P/S Rear Slide Controller

- Retract Input
- Extend Input
- Power Input

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

P/S and D/S slide module power wires may be swapped



G8 Module
 @ D/S Storage Bay Ceiling
 Tiffin P/N: 5063732

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

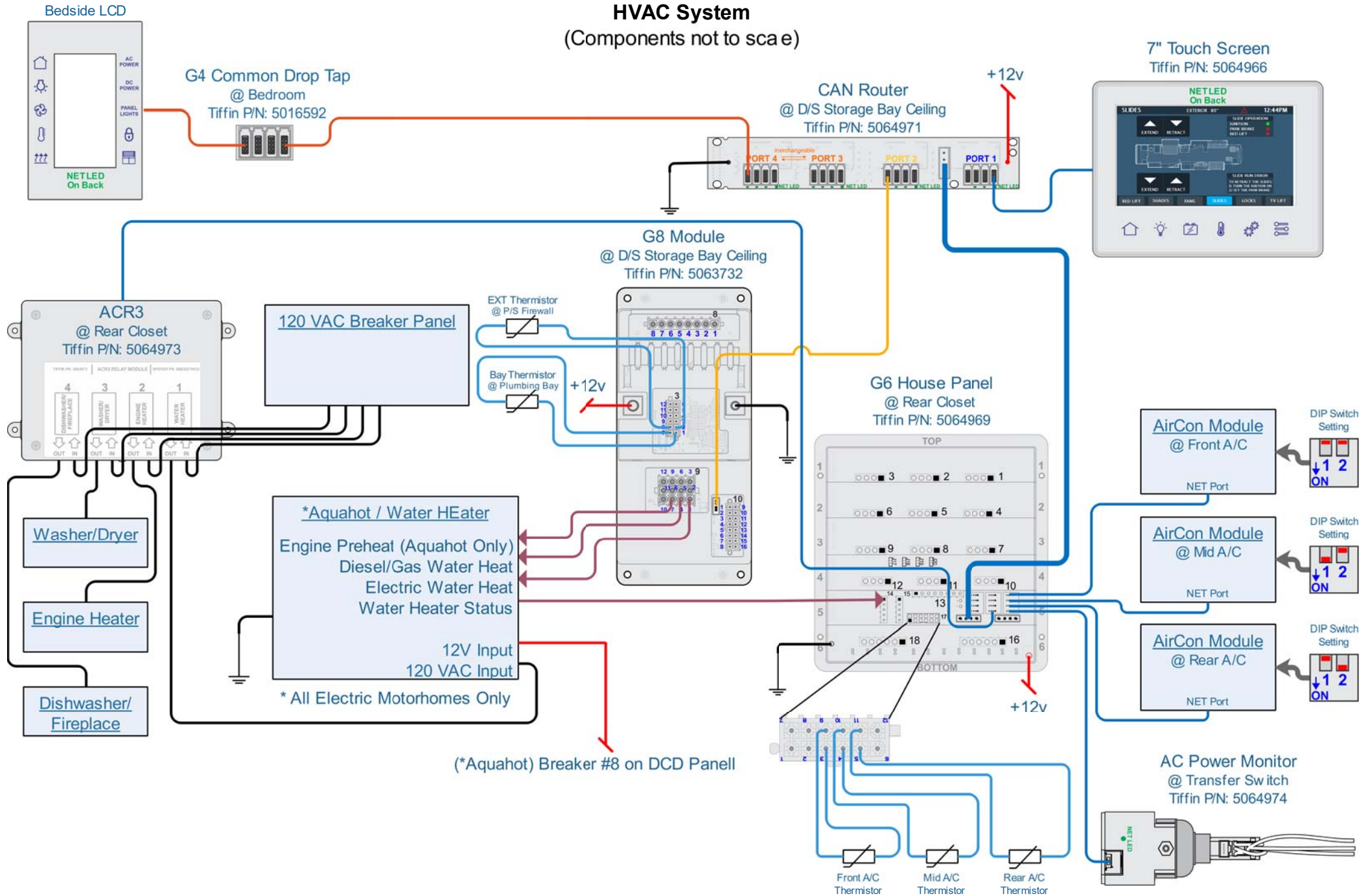
G4 Terminator Drop Tap
 @ D/S Front Electrical Bay
 Tiffin P/N: 5051936

7" Touch Screen
 Tiffin P/N: 5064966

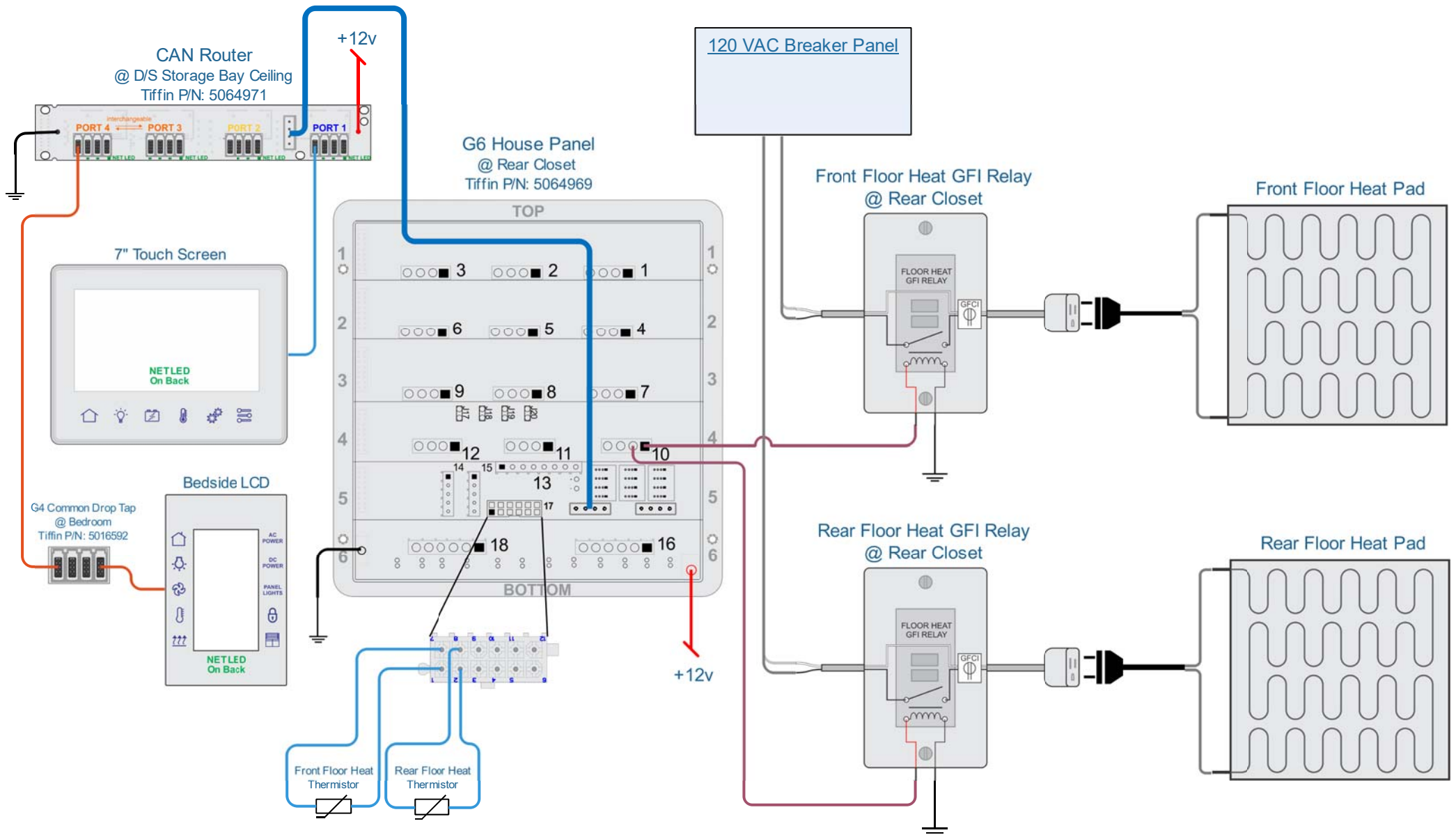
G6 Chassis Panel
 @ D/S Front Electrical Bay
 Tiffin P/N: 5064970

2018 Tiffin Bus & Phaeton HVAC System

(Components not to scale)

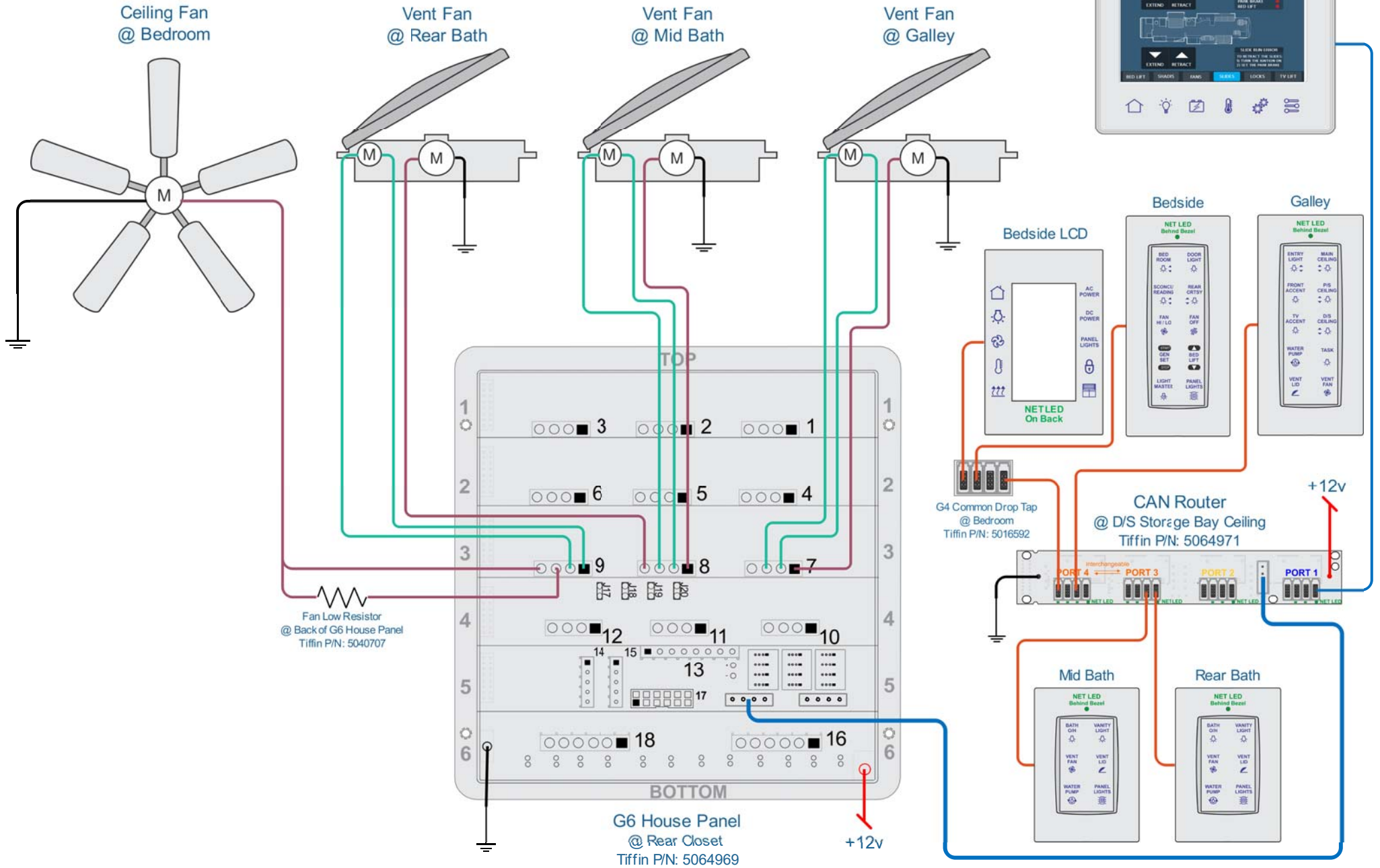


2018 Tiffin Bus & Phaeton Floor Heat System (Components not to scale)

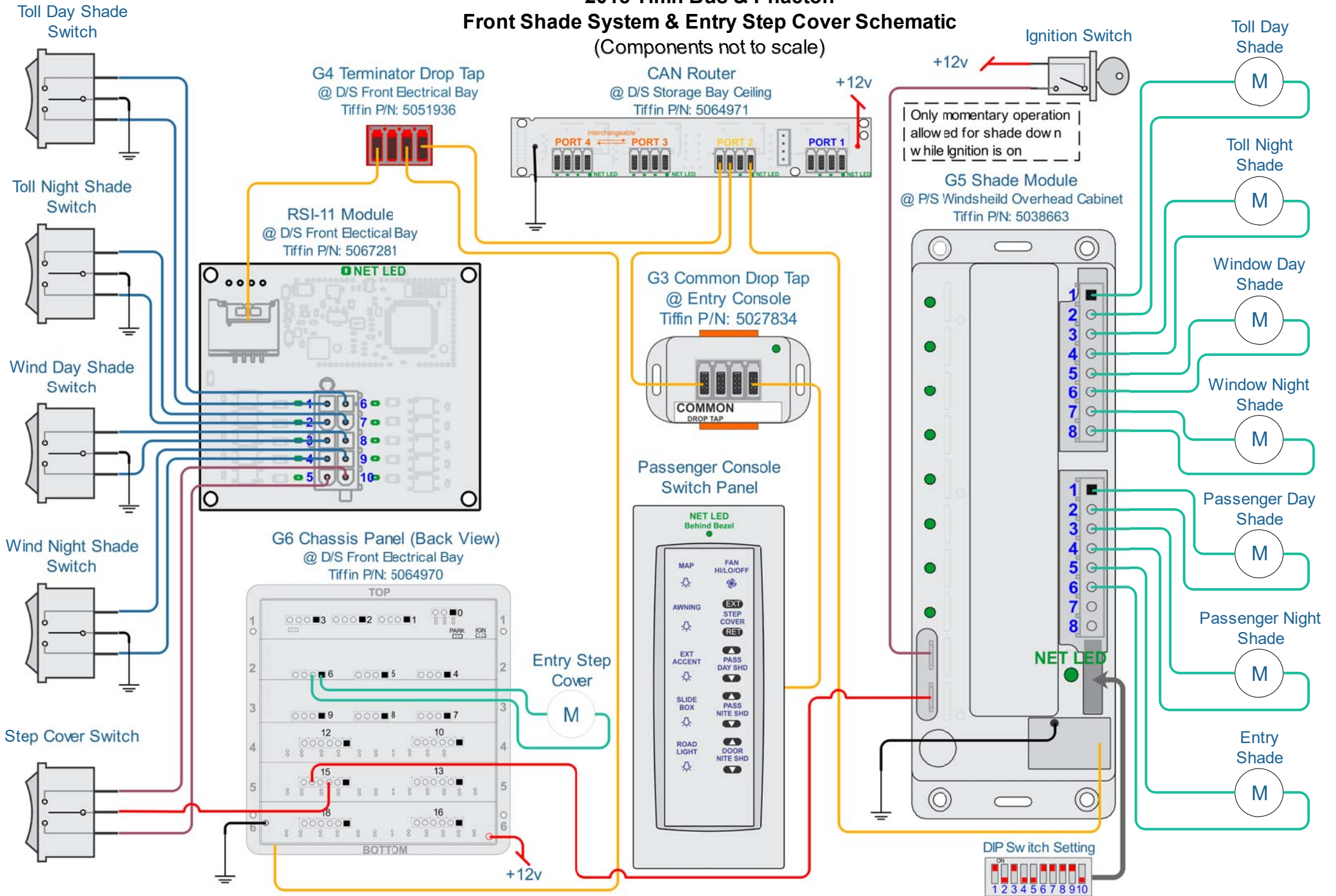


2018 Tiffin Bus & Phaeton Vent Fan & Ceiling Fan System (Components not to scale)

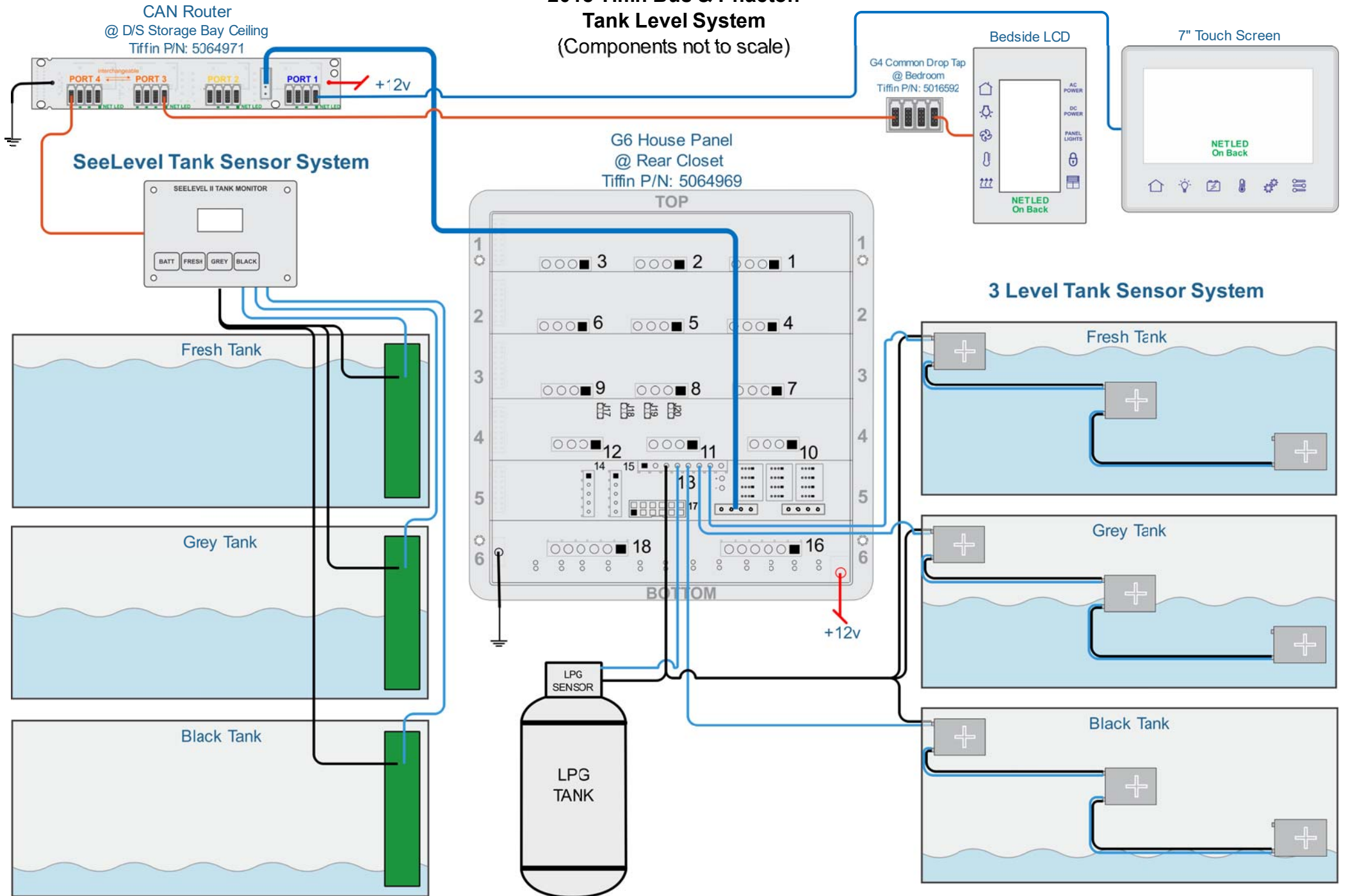
7" Touch Screen
Tiffin P/N: 5064966



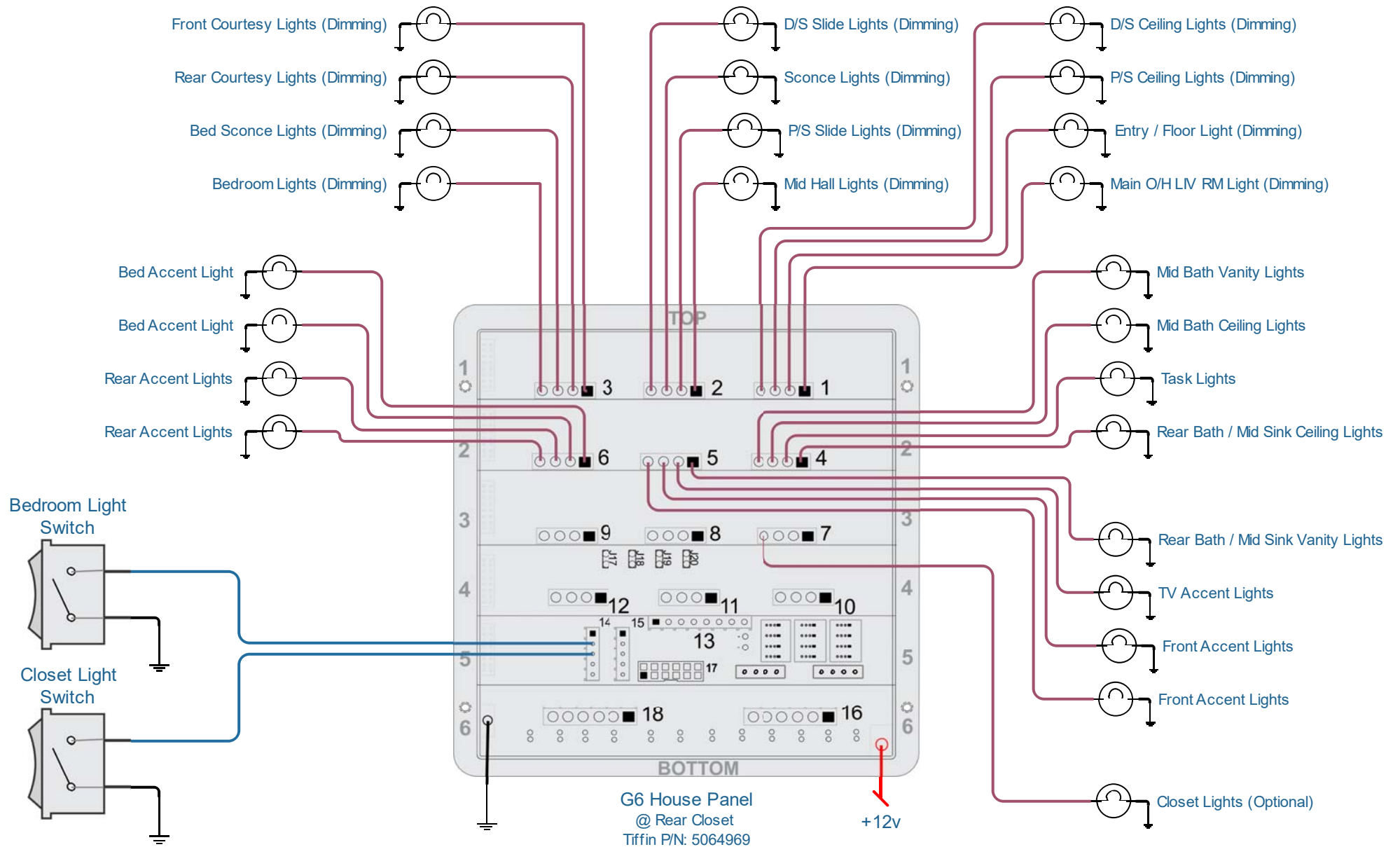
2018 Tiffin Bus & Phaeton Front Shade System & Entry Step Cover Schematic (Components not to scale)



2018 Tiffin Bus & Phaeton 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)

