










2027 Tiffin Zephyr Integration Schematics

www.spydercontrols.com



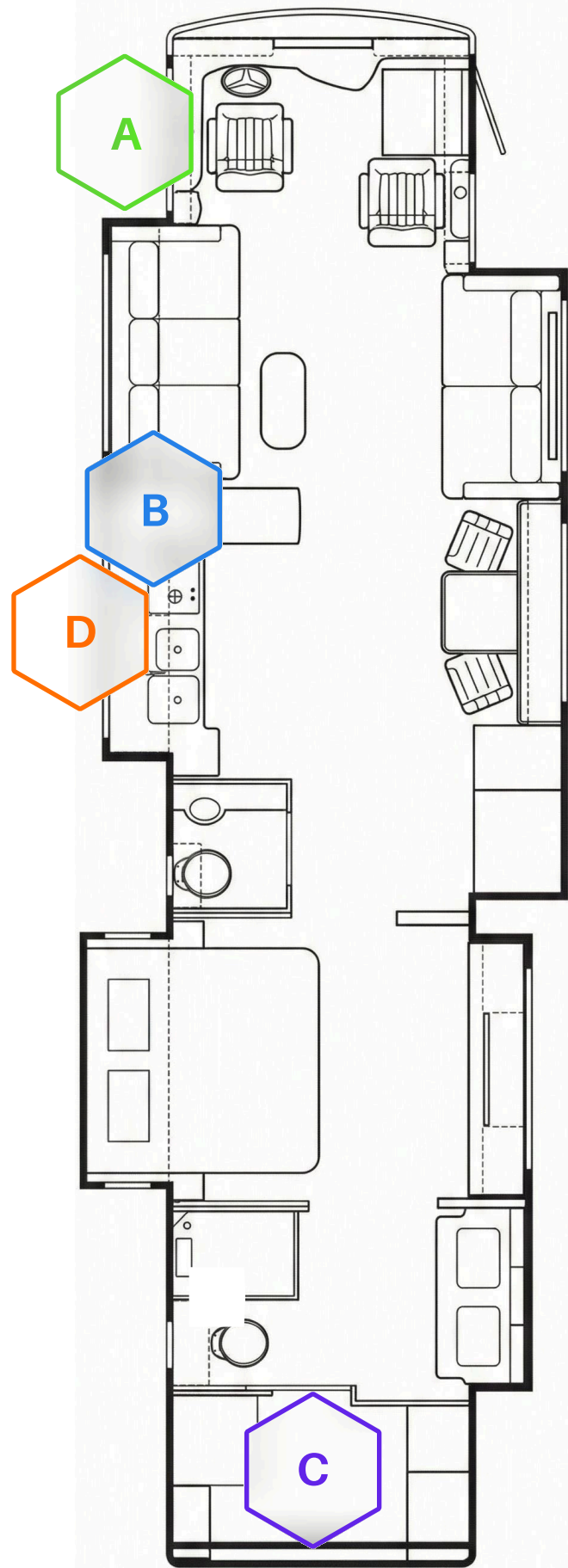
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Connection Legend	
Line Color	Line Meaning
	(GND) Constant Ground
	(12V+) Constant 12V+
	Switched 12V+
	Signal (Arrow Points to Signal Direction)
	(GND) Ground Input (Arrow Points to Input Device)
	(12V+) 12V+ Input (Arrow Points to Input Device)
	Reverse Polarity
	Network/Communication
	120 VAC LINE

Component Locations

Component Locations



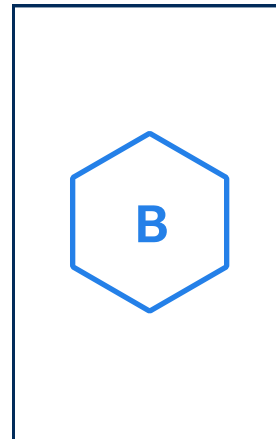
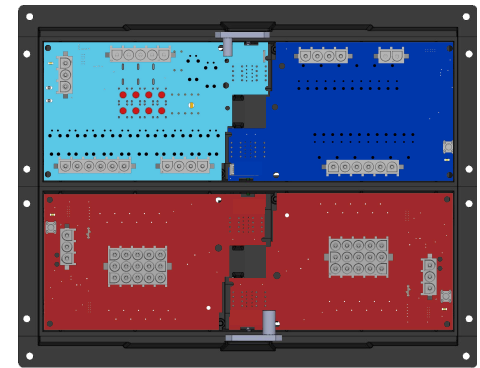
Front M1 Panel

Spyder PN
BENCZM2DS-1

Tiffin PN
5142701

Dimensions
10" X 7.8"

D/S Ext Compartment

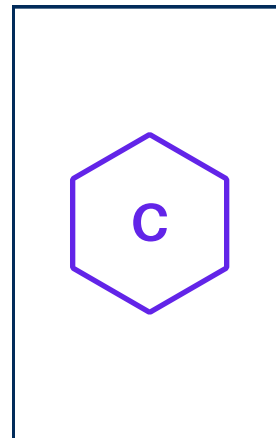
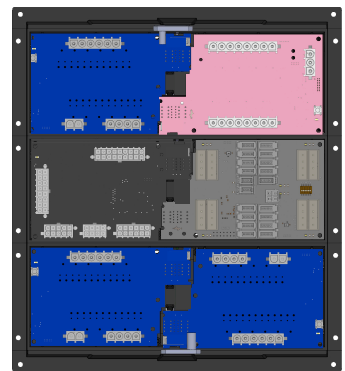


Mid M1 Panel

Spyder PN
BENCZM4C0

Tiffin PN
5184812

Inverter Bay



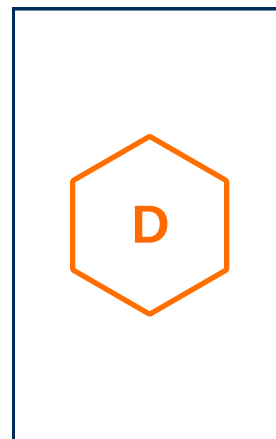
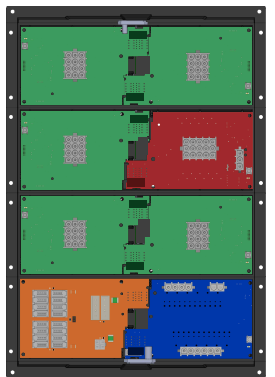
Rear M1 Panel

Spyder PN
BENCZM6C3-2

Tiffin PN
5169650

Dimensions
9.1" X 10"

Rear Closet



DCD Panel

Spyder PN
BENCZ38D1-3

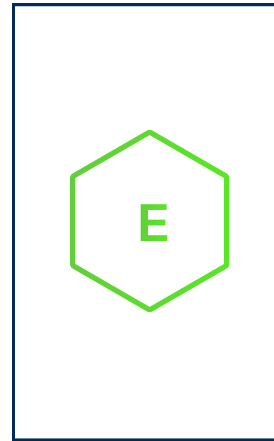
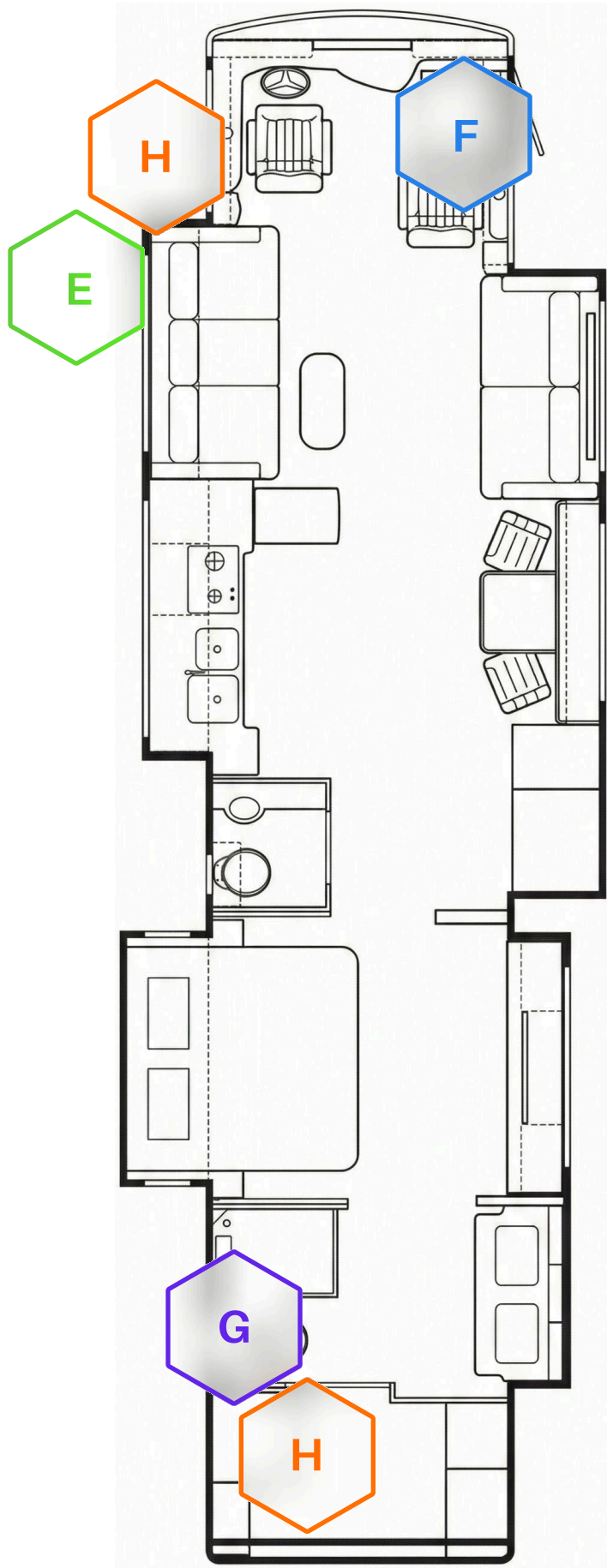
Tiffin PN
5181435

Dimensions
13.5" X 12.5"

Inverter Bay



Component Locations



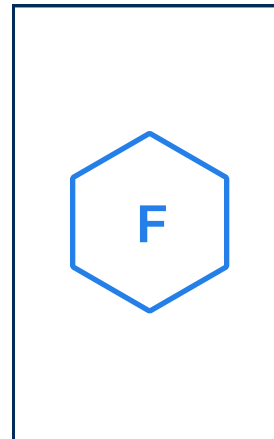
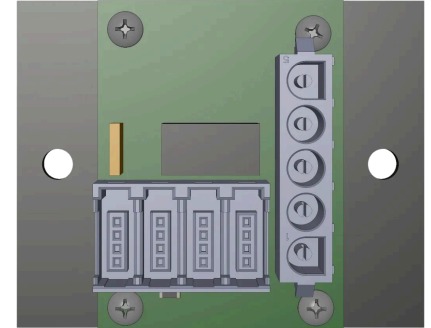
Terminator HCR-11 Drop

Spyder PN
BMODZGAN6-1

Tiffin PN
5131310

Dimensions
2.5" X 2"

Front D/S Compartment

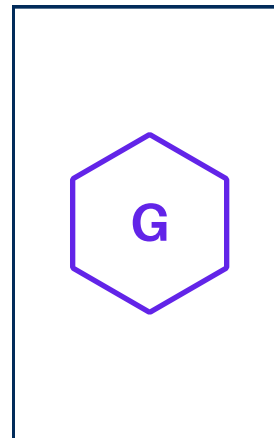


Mira Module (Not Manufactured By Spyder)

Tiffin PN
5114034

Dimensions
4" X 2.5"

Front O/H Cabinet



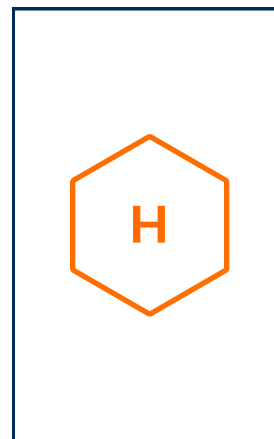
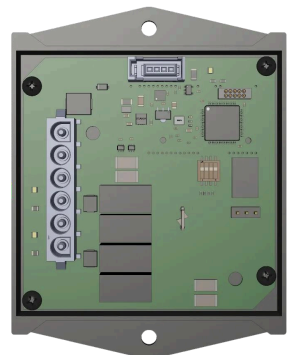
HCR-15 TV Lift

Spyder PN
BMODZQFCN-A

Tiffin PN
5134953

Dimensions
3" X 3"

Rear Closet



Bridge Module

Spyder PN
BMODZTCT0

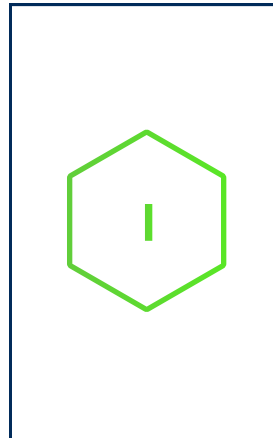
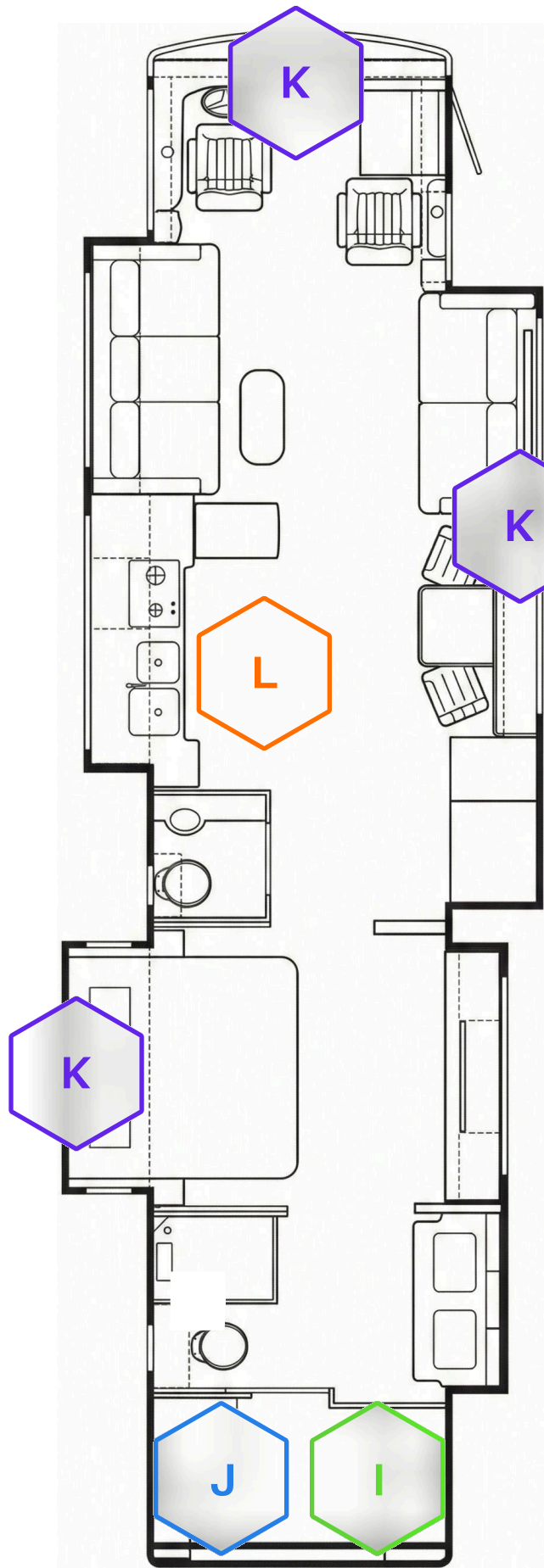
Tiffin PN
5127271

Dimensions
3" X 3"

Behind Dash

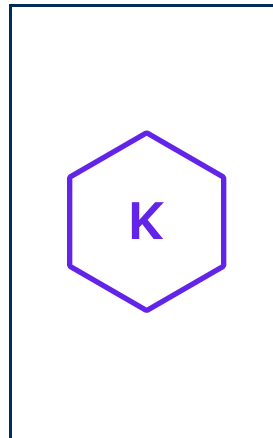
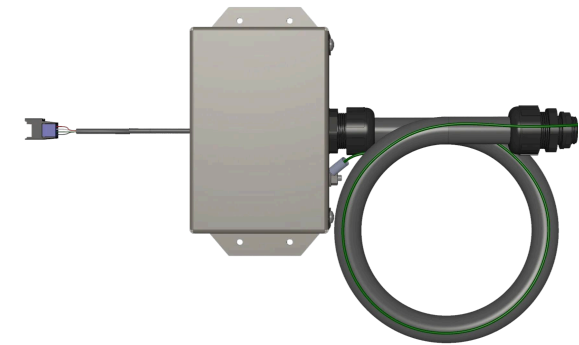


Component Locations



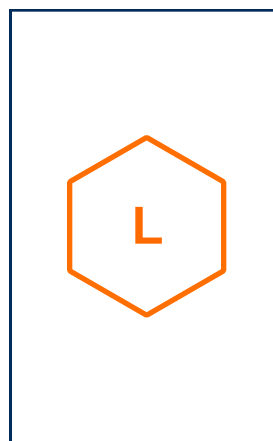
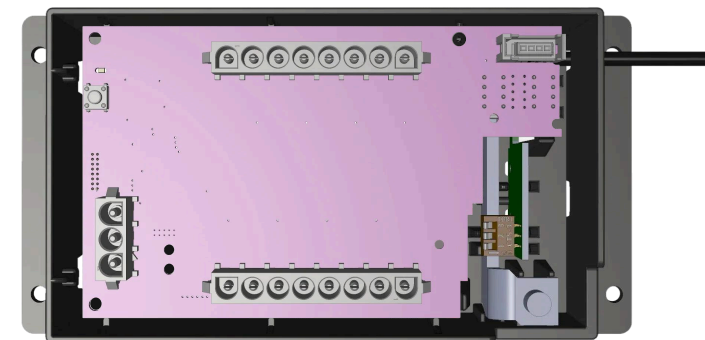
ACR3 Rear Closet

Spyder PN
BMODZYACG-B
Tiffin PN
5091114
Dimensions
6" X 4.8"



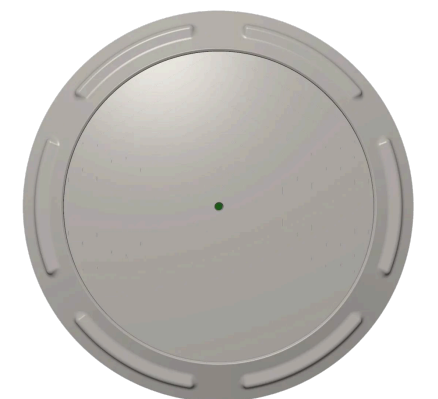
Shade Module

Spyder PN
BMODZMKM1-T
Tiffin PN
5127302
Dimensions
3.5" X 6.5"

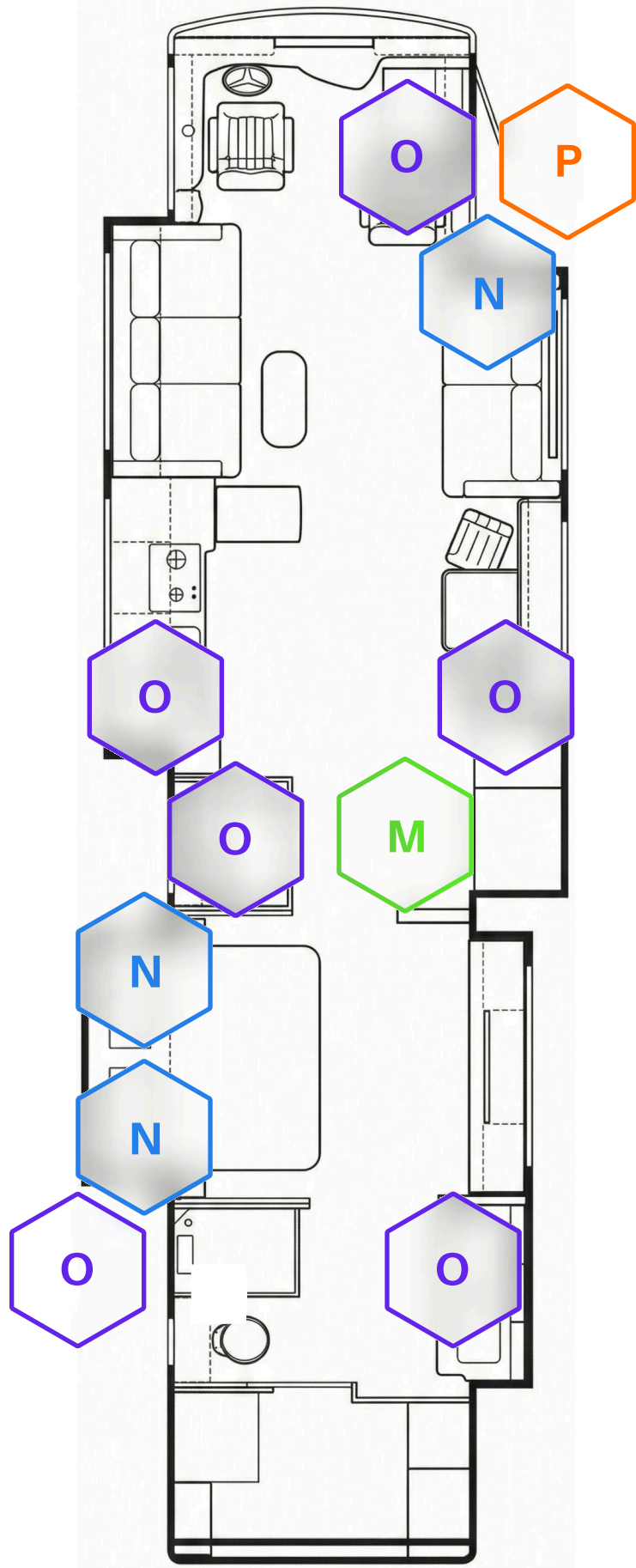


RF Hub Rear Closet

Spyder PN
BMODZRFT0-W
Tiffin PN
5141264
Dimensions
5.1" Diameter

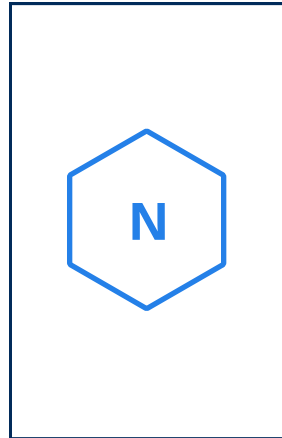
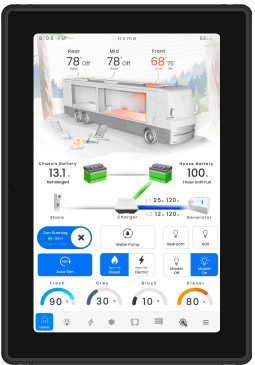


Component Locations



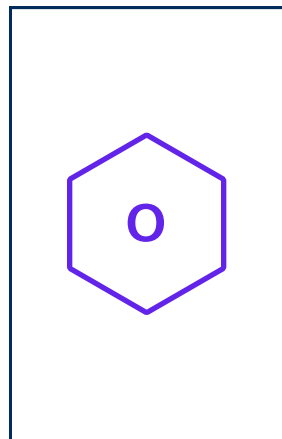
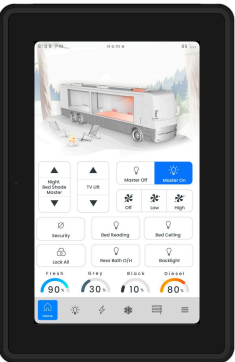
10" LCD Hall Wall

Spyder PN
BSSPZZXEF-1
Tiffin PN
5127306
Dimensions
10.5" X 7.3"



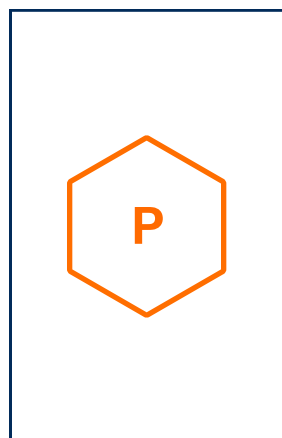
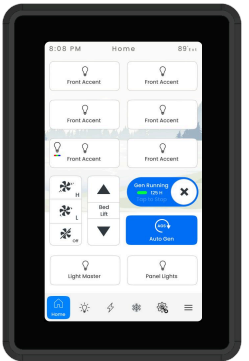
7" LCD

Spyder PN
BSSPZZPEF-1
Tiffin PN
5129092
Dimensions
7.75" X 5"



5" LCD

Spyder PN
BSSPZZREK
Tiffin PN
5127269
Dimensions
5.5" X 3.8"

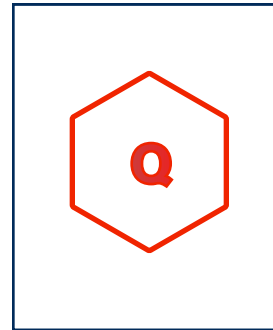
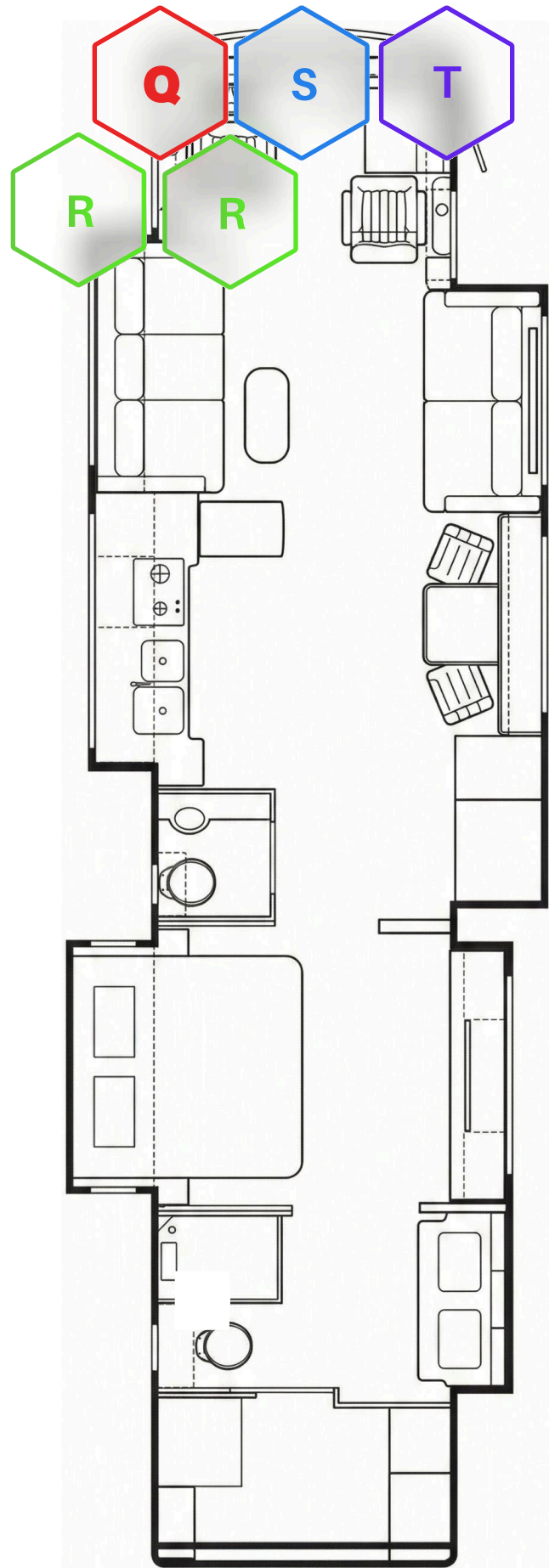


5" Exterior LCD Entry Exterior

Spyder PN
BSSPZZZEN
Tiffin PN
5145817
Dimensions
5.5" X 3.8"



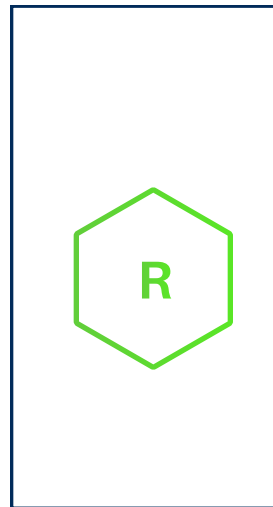
Component Locations



1 X 4 Button SSP25 D/S Dash

Spyder PN
1. Available Soon

Tiffin PN
1. Available Soon

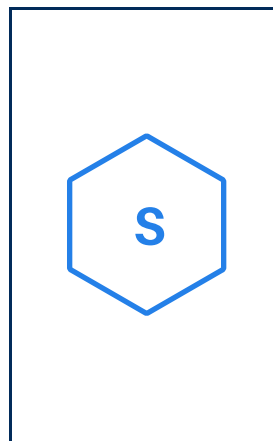
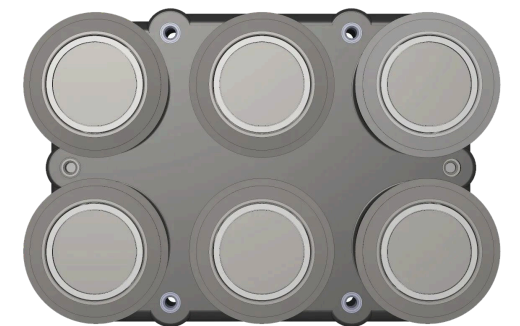


2 X 3 Button SSP25 D/S Dash

Spyder PN
1. BASPZ523HDT0-1A
2. BASPZ523HDT0-1B

Tiffin PN
1. 5169653
2. 5169652

Dimensions
3.6" X 2.8"

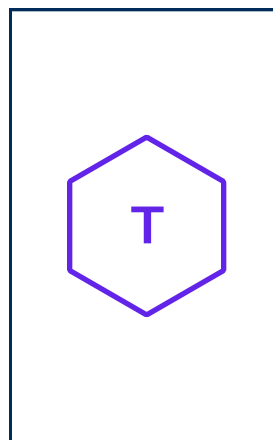


2 X 6 Button SSP25 Dash Center

Spyder PN
BASPZ526HDT0-1A

Tiffin PN
5169651

Dimensions
7.3" X 2.8"

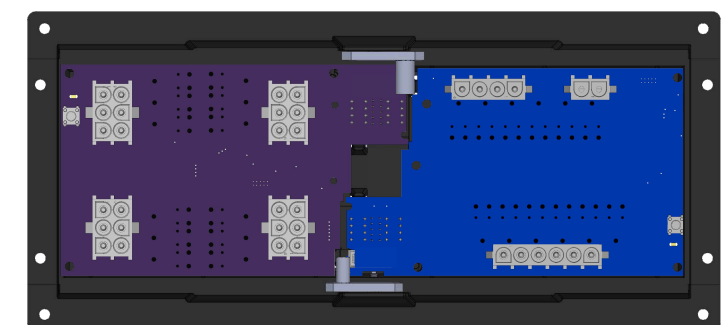


M1 Dash Module Behind Dash

Spyder PN
BENCZM7C1

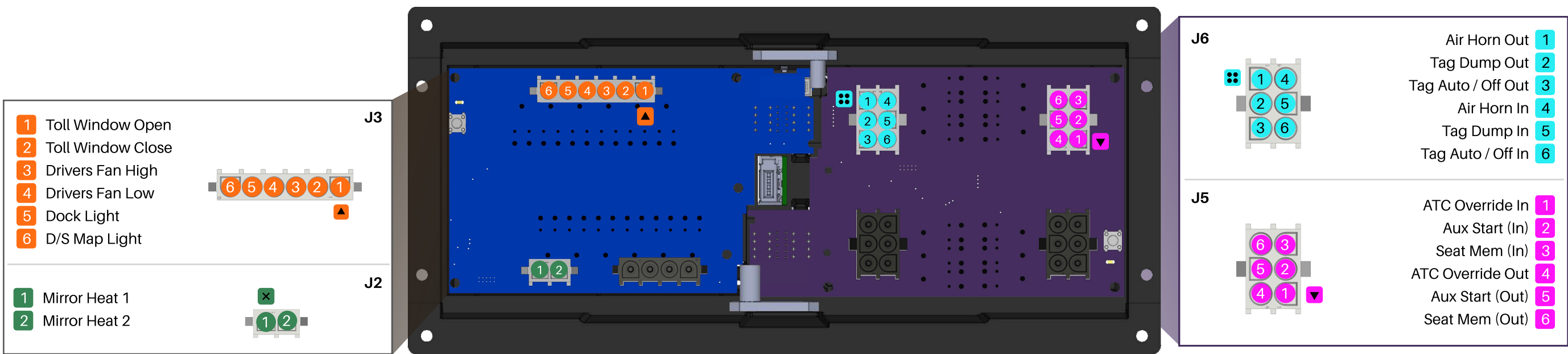
Tiffin PN
5170290

Dimensions
10.8" X 3.5"

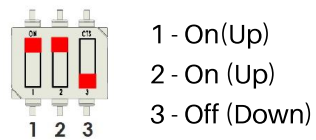


M1 Pinouts

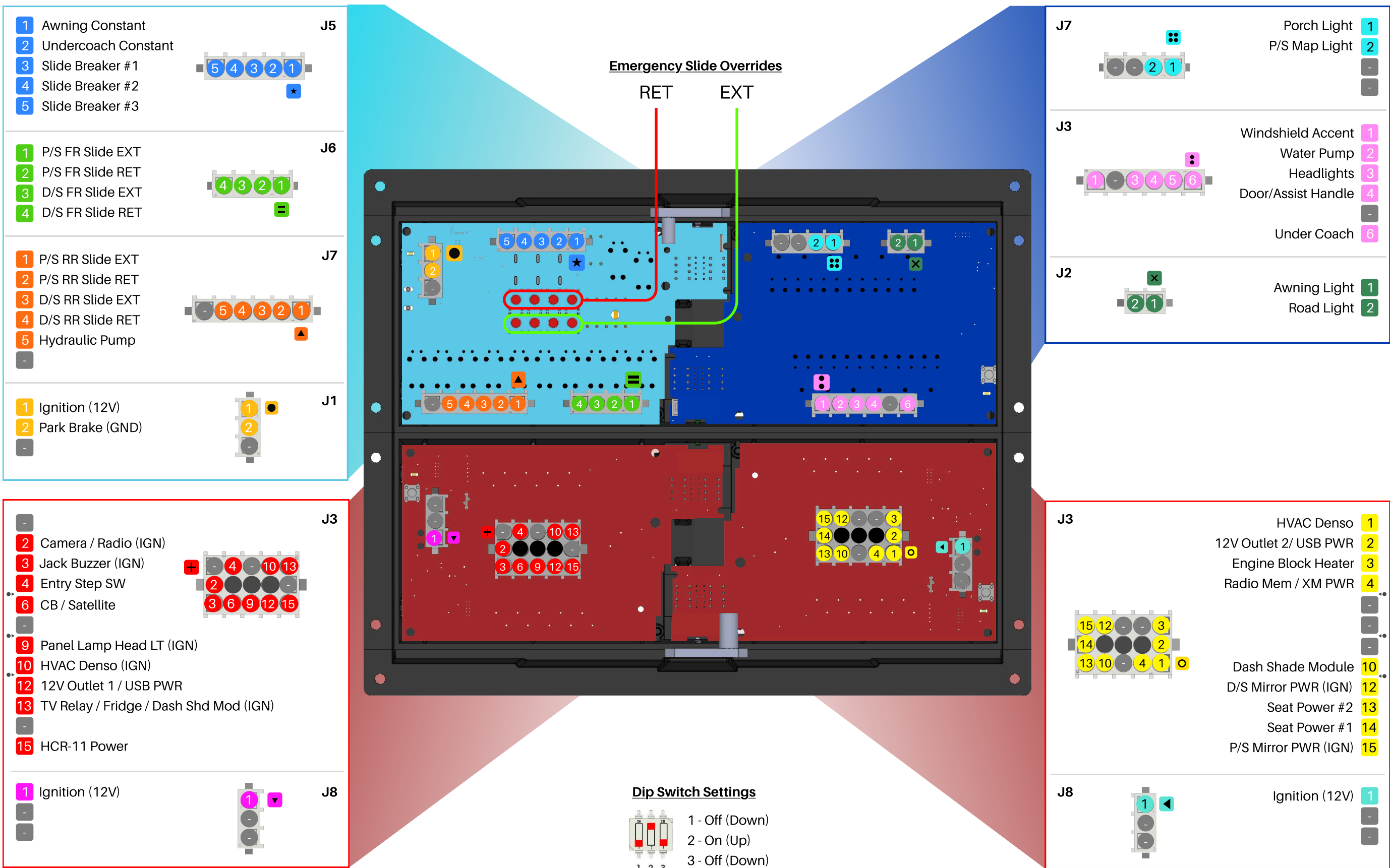
Zephyr Dash M1 Panel Pinout



Dip Switch Settings



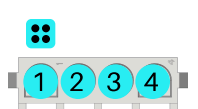
Zephyr Front M1 Panel Pinout



Zephyr Mid M1 Panel Pinout

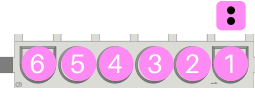
J7

- 1 Door Awning EXT
- 2 Door Awning RET
- 3 Entry Door Lock
- 4 Entry Door Unlock




J3

- 1 Bed Lift Up
- 2 Bed Lift Down
- 3 PS Fan High
- 4 PS Fan Low
- 5 Bay Door Lock
- 6 Bay Door Unlock



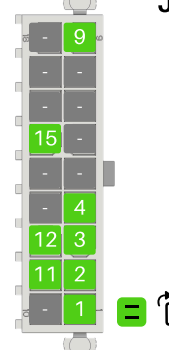
J2

- 1 Step Cover EXT
- 2 Step Cover RET



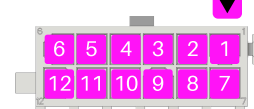
J2

- 1 IGN (+12V)
- 2 GEN Fault (+12V)
- 3 HSE Disconnect Sense (+12V)
- 4 Bed Lift Plunger (+12V)
- 9 Park Brake (GND)
- 11 Entry Door Pin SW (GND)
- 12 Merge Input (GND)
- Spare
- Spare
- 15 A/C Override Sense (GND)



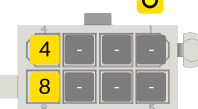
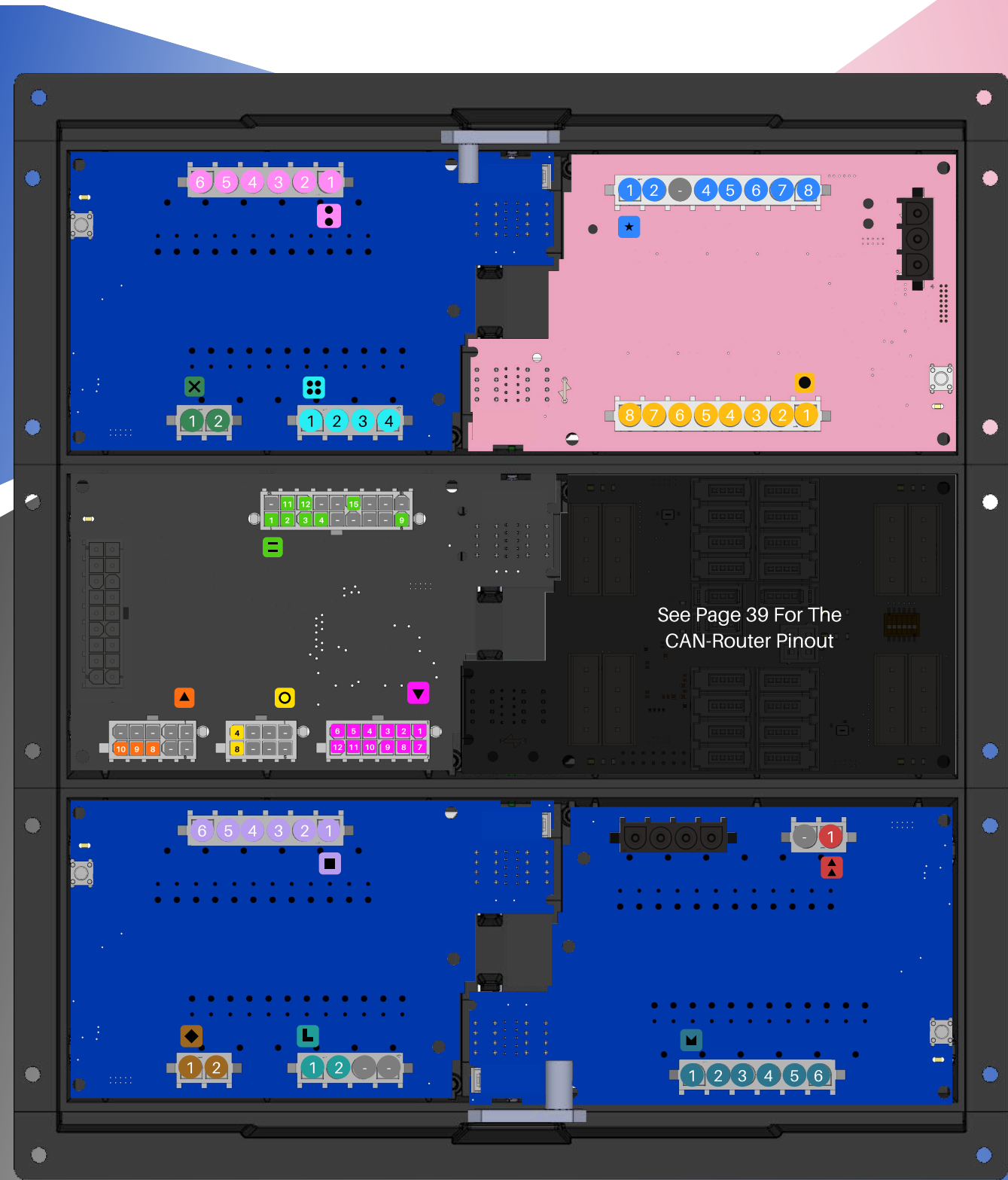
J4

- 1 FR Floor HT Therm Sig.
- 2 RR Floor HT Therm Sig.
- 3 Front A/C Therm Sig.
- 4 Mid A/C Therm Sig.
- 5 Rear A/C Therm Sig.
- 6 Bay Therm Sig.
- 7 FR Floor HT Therm GND
- 8 RR Floor HT Therm GND
- 9 Front A/C Therm GND
- 10 Mid A/C Therm GND
- 11 Rear A/C Therm GND
- 12 Bay Therm GND




J5

- 4 Ext Temp Sig.
- 8 Ext Temp GND

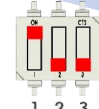



J6

- 8 Dash Sw Brightness (+12V)
- 9 Gen Run Signal (+12V)
- 10 RTC 12V Constant PWR



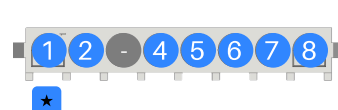
Dip Switch Settings



- 1 - Off (Down)
- 2 - On (Up)
- 3 - Off (Down)

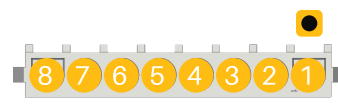
J4

- RR Bath NT Shd Up 1
- RR Bath NT Shd Dn 2
-
- Horn 4
- Furnace FR 5
- Furnace RR 6
- Gen Start (GND) 7
- Gen Stop (GND) 8



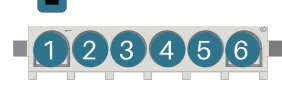
J2

- Galley Shade Up 1
- Galley Shade Dn 2
- Galley NT Shade Up 3
- Galley NT Shade Dn 4
- Sofa Day Shade Up 5
- Sofa Day Shade Dn 6
- Sofa NT Shade Up 7
- Sofa NT Shade Dn 8



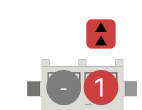
J3

- Black Dump Open 1
- Black Dump Close 2
- Macerator Pump 3
-
- Grey Dump Open 5
- Grey Dump Close 6



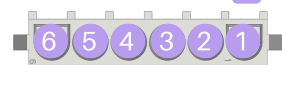
J2

- Hose Reel Retract 1
-




J3

- DS FR Wind Awning EXT 1
- DS FR Wind Awning RET 2
- DS RR Wind Awning EXT 3
- DS RR Wind Awning RET 4
- PS FR Wind Awning EXT 5
- PS FR Wind Awning RET 6



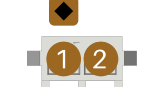
J7

- D/S Slide Box Light 1
- P/S Slide Box Light 2
-
-



J2

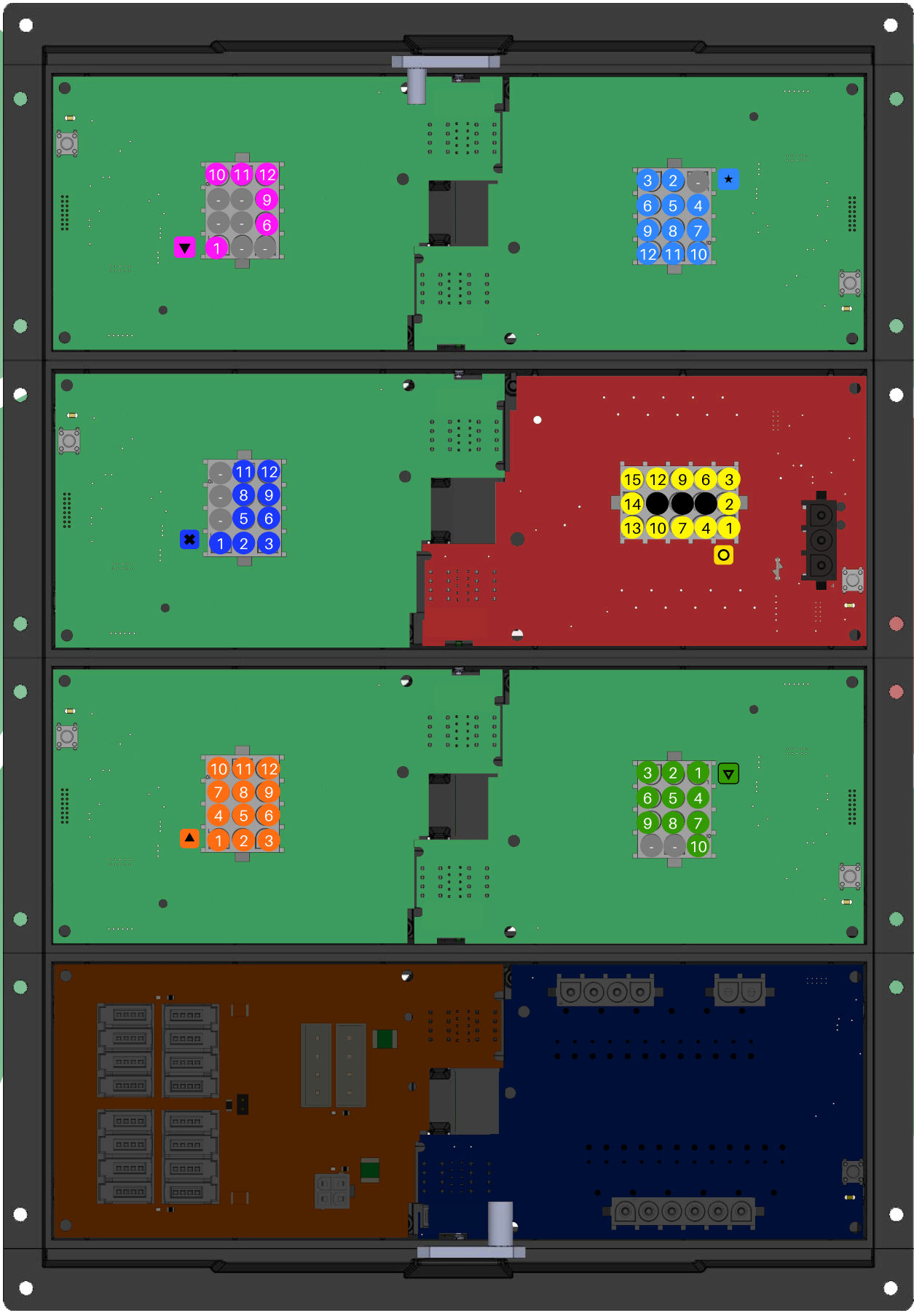
- PS RR Wind Awning EXT 1
- PS RR Wind Awning RET 2



Zephyr Rear M1 Panel Pinout

J1

- 1 Entry Light
-
-
-
-
- 6 Dash Accent Light
-
-
- 9 D/S Slide Light
- 10 P/S Slide Light
- 11 Front Courtesy Light
- 12 Rear Courtesy Light



J1

-
- Bed Accent Light 2
- Front Accent Light Ch.1 3
- Front Accent Light Ch.2 4
- Task Light 5
- Mid Bath Light 6
- Mid Bath Vanity Light 7
- Rear Bath Light 8
- Rear Bath Vanity Light 9
- Front Bed Reading Light 10
- Rear Bed Reading Light 11
- Rear Accent Light 12

J1

- 1 TV Accent Light
- 2 Closet Light
- 3 Bedroom Ceiling Light
-
- 5 Floor Heat Front Zone
- 6 Floor Heat Rear Zone
- 7 Auto Water Fill
- 8 Fireplace Override
-
-
- 11 Ceiling Fan High
- 12 Ceiling Fan Low

J3

- FR/RR TV Lift 1
- Basement 12V PWR/Ext TV 12V 2
- Seelevel 3
- Truma Water Heater 4
- Front Furnace 6
- Bed Slide USB /Wall USB 7
- AC Relay Sw/Gly Motn LT 9
- FR Pass Slide/ Dinette Shd Switcher /IR Blaster 12
- Mid Toilet 13
- Rear Furnace 14
- Vent Fan Power 15

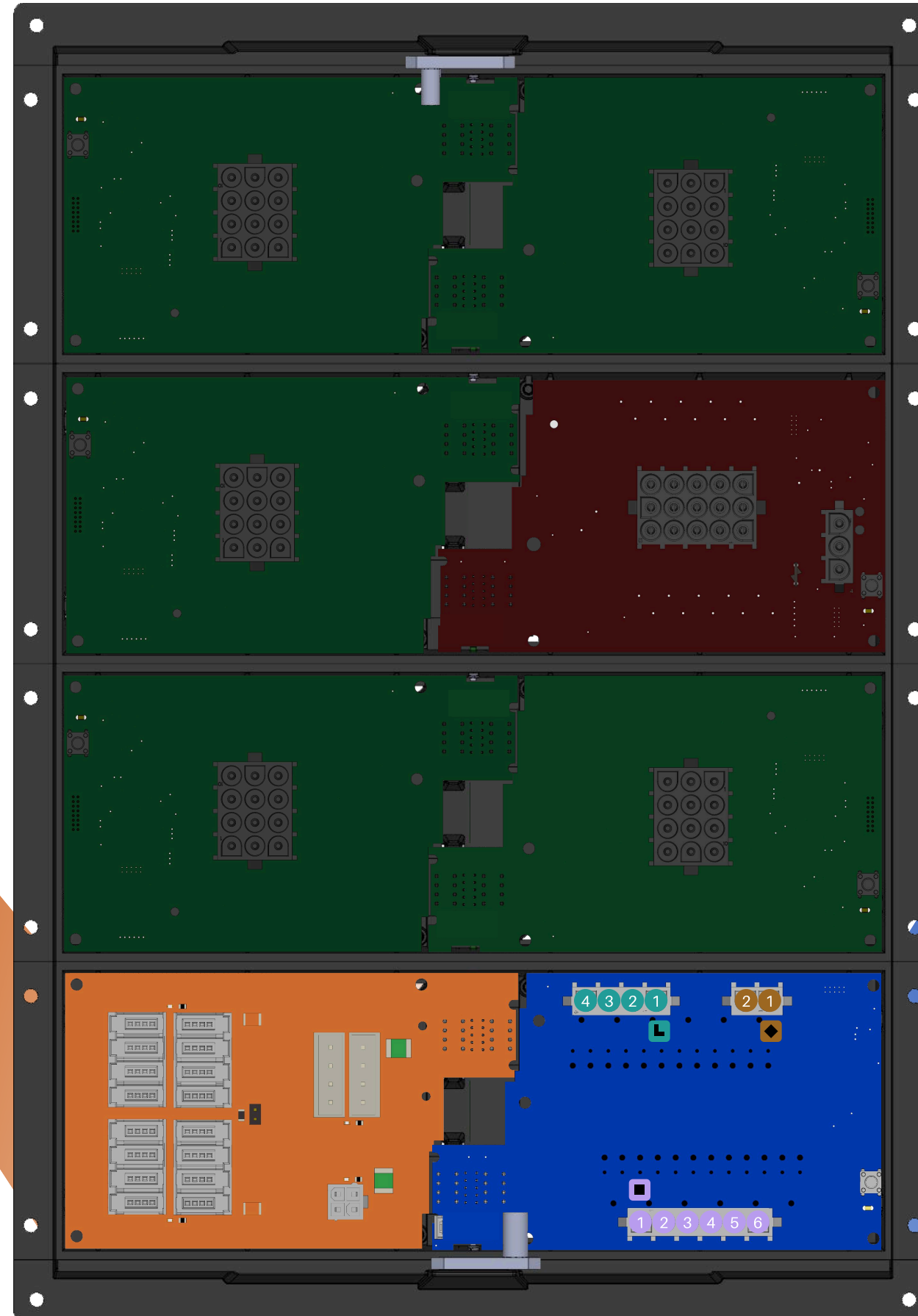
J1

- 1 Galley Light
- 2 Galley Accent Light
- 3 D/S Crown Accent Light
- 4 P/S Crown Accent Light
- 5 Bed Vanity Light
- 6 Foyer Light
- 7 Foyer Accent Light
- 8 FR Bed Valence Accent Light
- 9 RR Bed Valence Accent Light
- 10 Bed Headboard Accent Light
- 11 Hutch / Hall Accent Light
- 12 Hall Light

J1

- Mid Bath Crtsy Light 1
- Living Area Accent Light 2
- Living Area Light 3
- Wall Accent Light 4
- Rear Bath Crtsy Light 5
- Rear Bath Swr Miser Light 6
- Rear Bath Accent Light 7
- D/S Main Slide Val Acnt Light 8
- P/S Main Slide Val Acnt Light 9
- Outdoor Kitchen Light 10
-
-

Zephyr Rear M1 Panel Pinout



Dip Switch Settings



- 1 - Off (Down)
- 2 - Off (Down)
- 3 - Off (Down)

Network Card

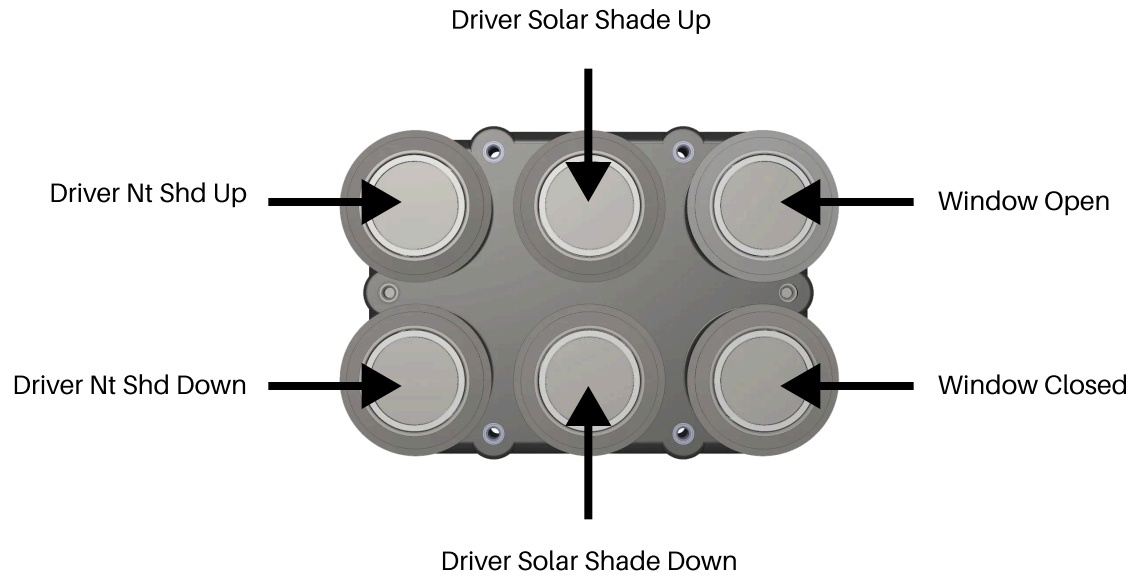
Network cables can be connected to the back of this card to allow communication between Spyder Devices.

A terminator jumper is placed on this card, when connected this jumper turns the network card into a terminator.

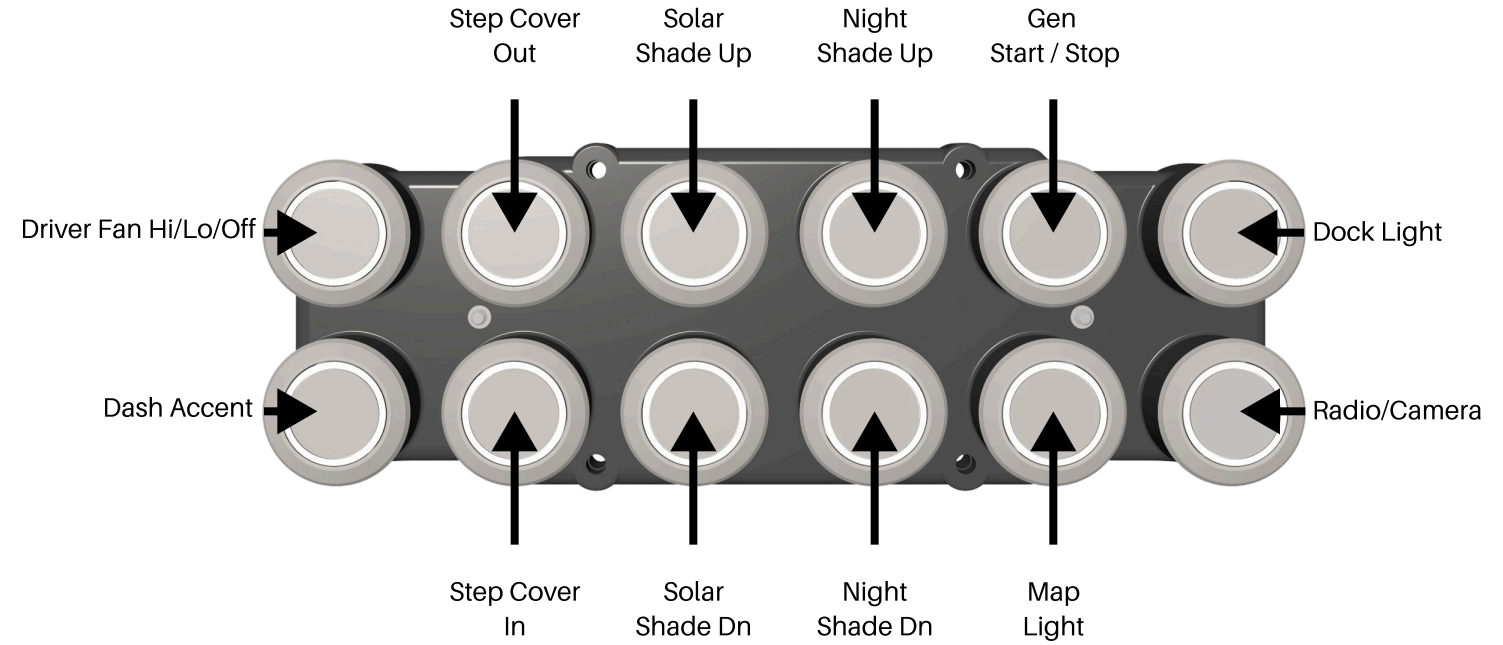
J3 	D/S Slide Light (12V+)	1
	D/S Slide Light (R)	2
	D/S Slide Light (G)	3
	D/S Slide Light (B)	4
	P/S Slide Light (12V+)	5
	P/S Slide Light (R)	6
J7 	Undercoach Light (12V+)	1
	Undercoach Light (R)	2
	Undercoach Light (G)	3
	Undercoach Light (B)	4
J2 	P/S Slide Light (G)	1
	P/S Slide Light (B)	2

SSP25 Button Layout

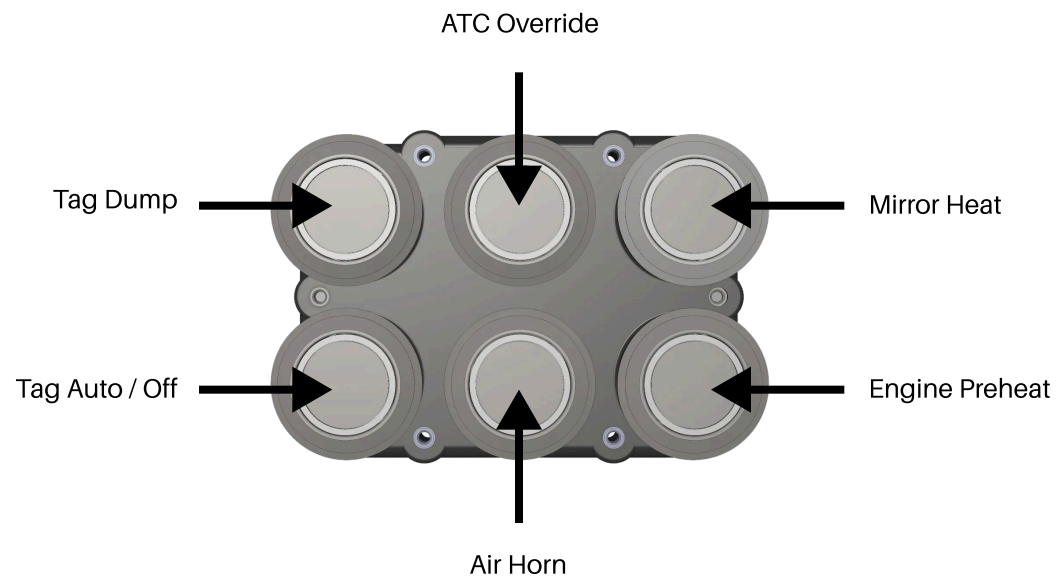
D/S Console SSP25



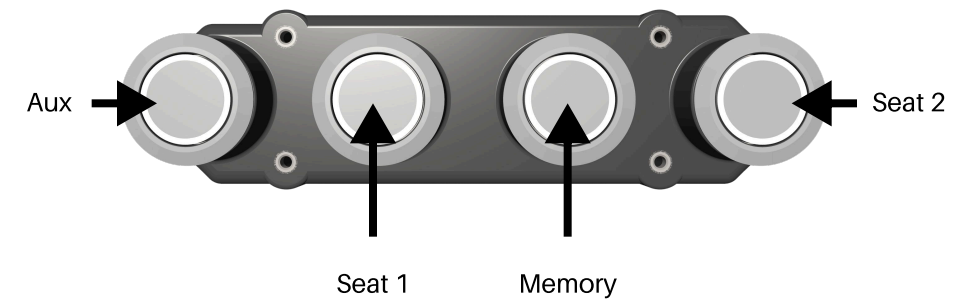
Dash SSP25



D/S Console SSP25

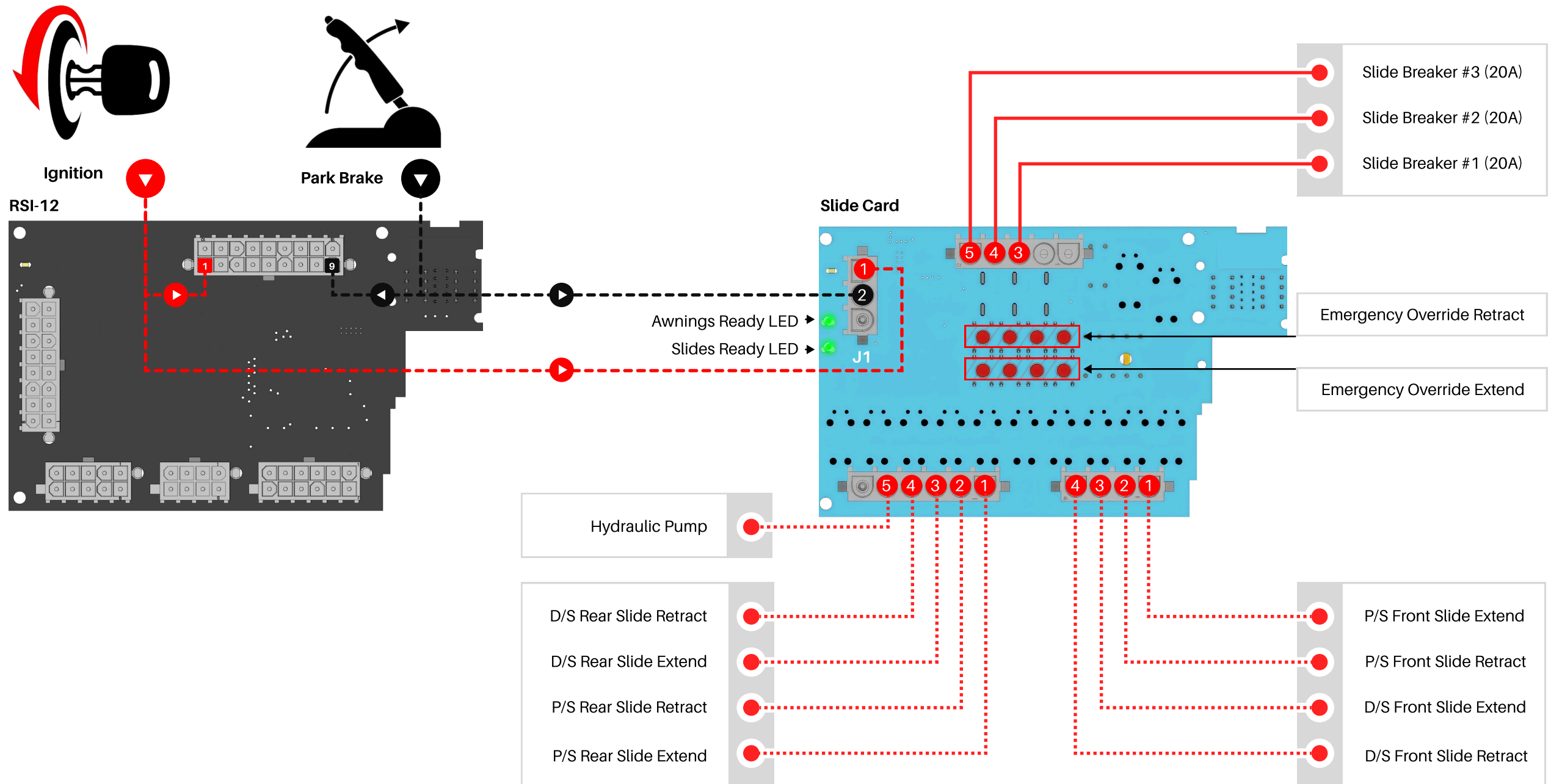


D/S Console SSP25



Mechanical Systems

Slides



Slide Safety And Overrides

To ensure safe and predictable slide operation, several safety measures are built into the Spyder system. The core of these protections is the **park brake and ignition interlock**.

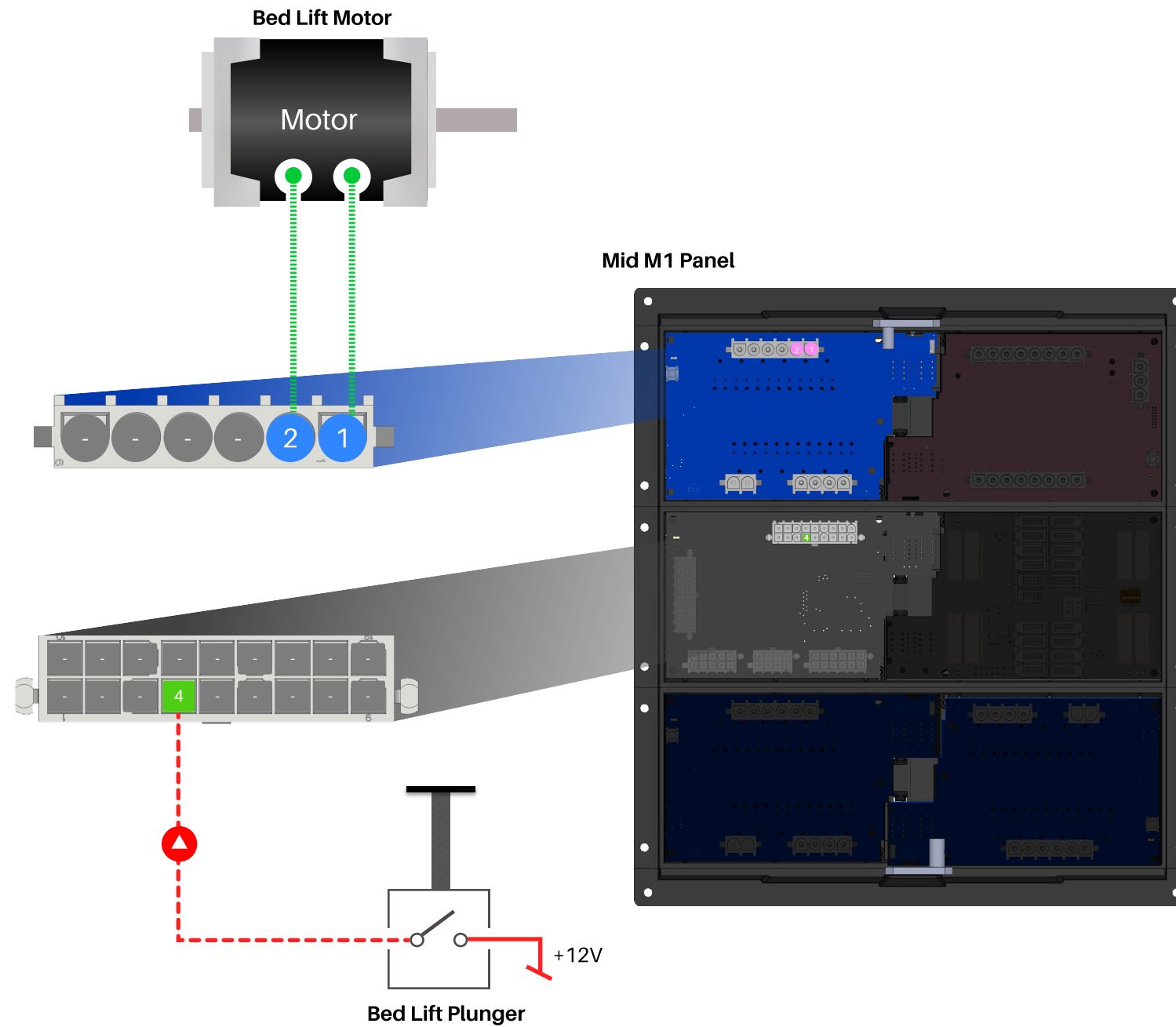
The Slide Card has dedicated park brake and ignition inputs. These act as a **physical lockout**: if 12V+ and GND are not present at the Slide Card (J1) before operating the slides, the **slides will not extend**. The RSI-12 also receives secondary park brake and ignition inputs. These inputs send a message over the Spyder Network telling all devices that park brake and ignition are active.

Because the safety inputs are split between the RSI-12 and the Slide Card, certain wiring issues can cause the LCD to show **"Slides Ready"** even though the slides will not operate. If you encounter slide issues, check the Slides Ready LED on the Slide Card in the front M1 panel.



- In the event of a system failure, **Emergency Overrides** are available on the **front M1 panel**. To use them, **press and hold one of the red buttons** with a non-metallic object in the direction you want the slide to move. The slide will run while the button is held and stop when you release it. **Emergency overrides** will only function if park brake and ignition signals are being received by the Slide Card.

Zephyr Bed Lift



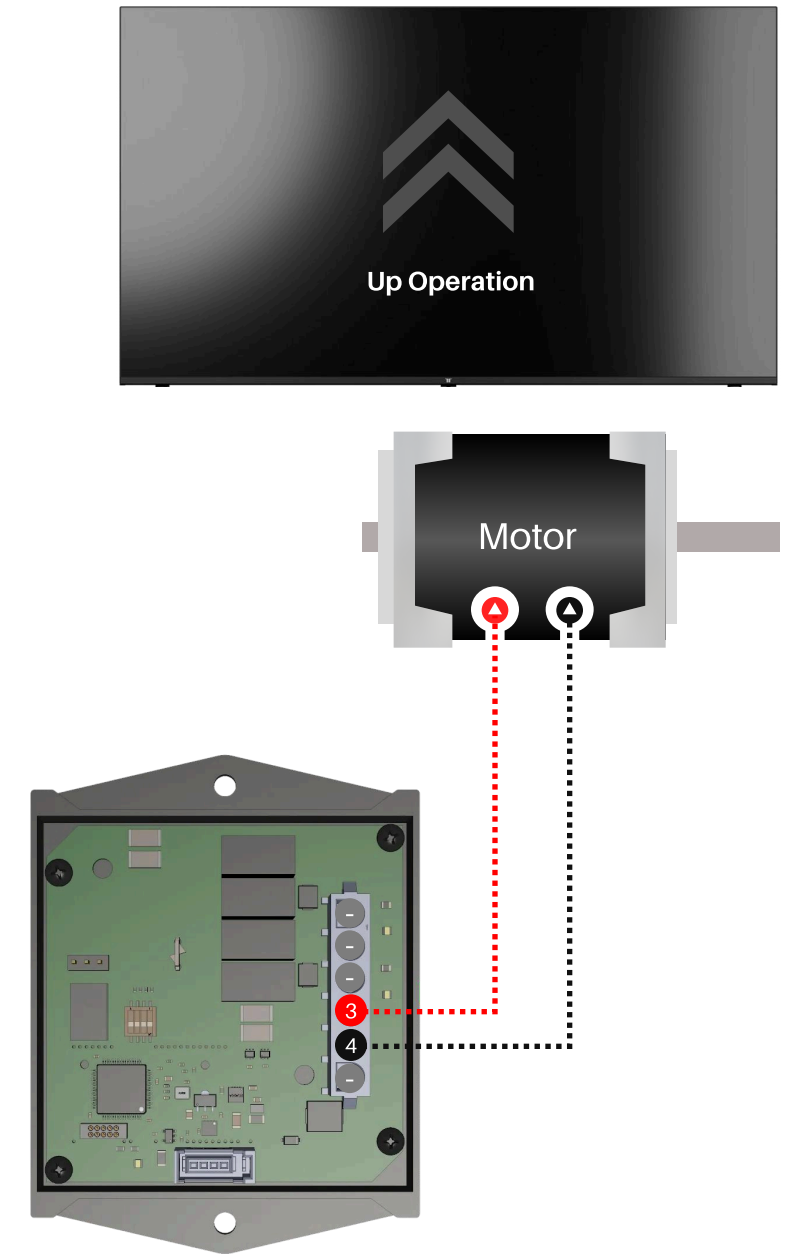
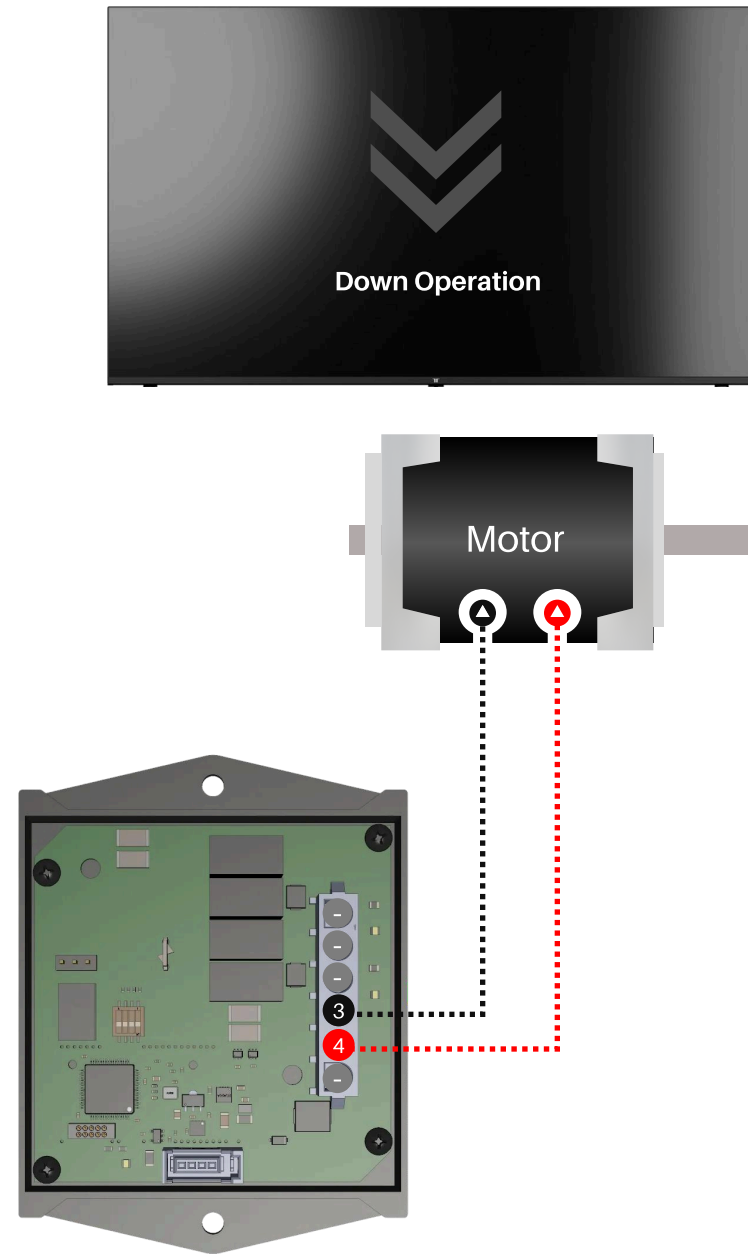
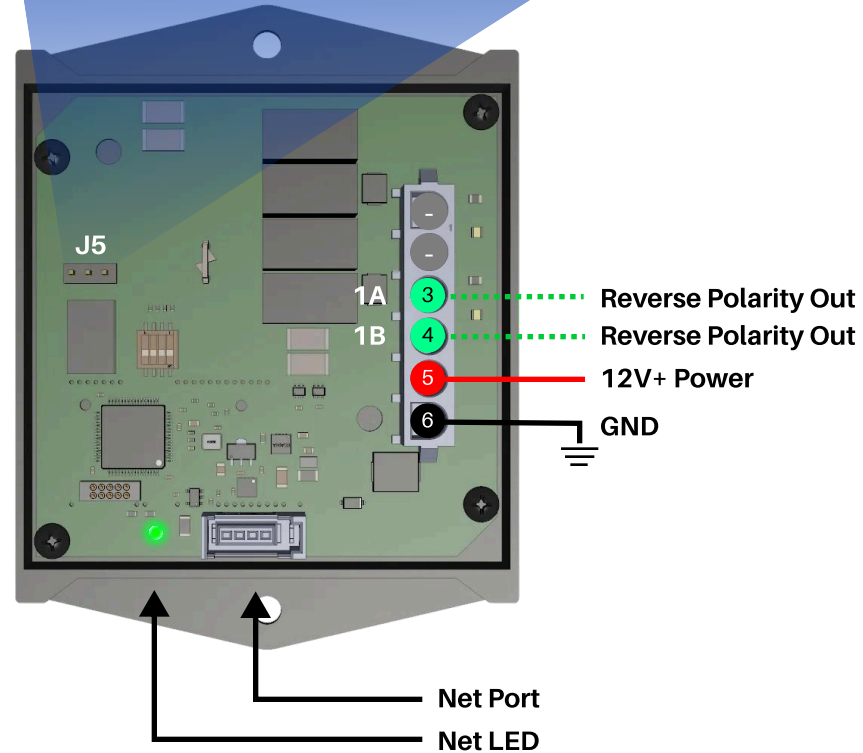
Bed Lift Operation

If equipped with a bed lift:

When pressed, the bed lift plunger sends +12V to connector J2 Pin 4 on the RSI-12, enabling the slides to operate. If the plunger is not depressed and the RSI-12 does not receive this +12V signal, the slides will not run.

MoRyde TV Lift

Front TV Lift	Rear TV Lift	Location Settings
		The location setting for the HCR-15 can be changed via connector J5.



Trouble Shooting

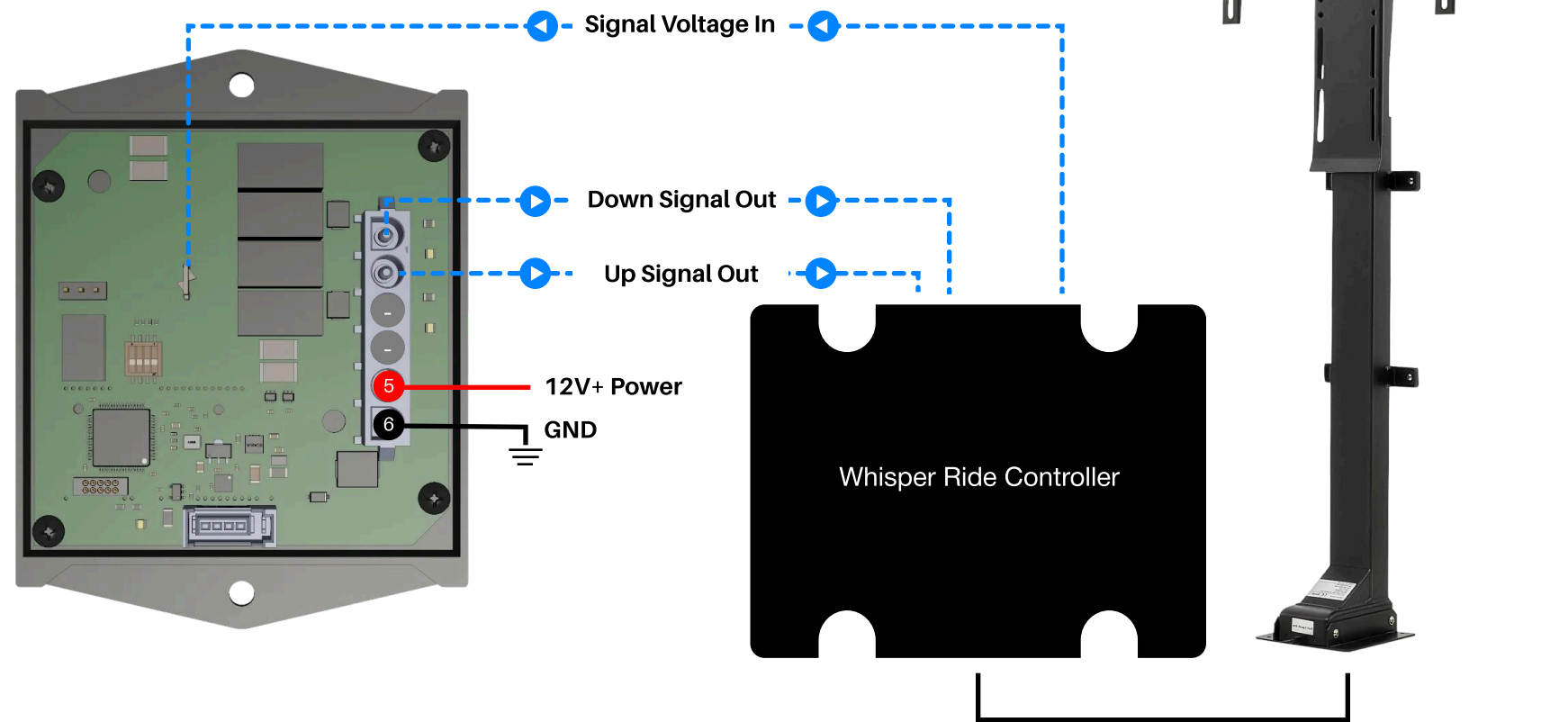
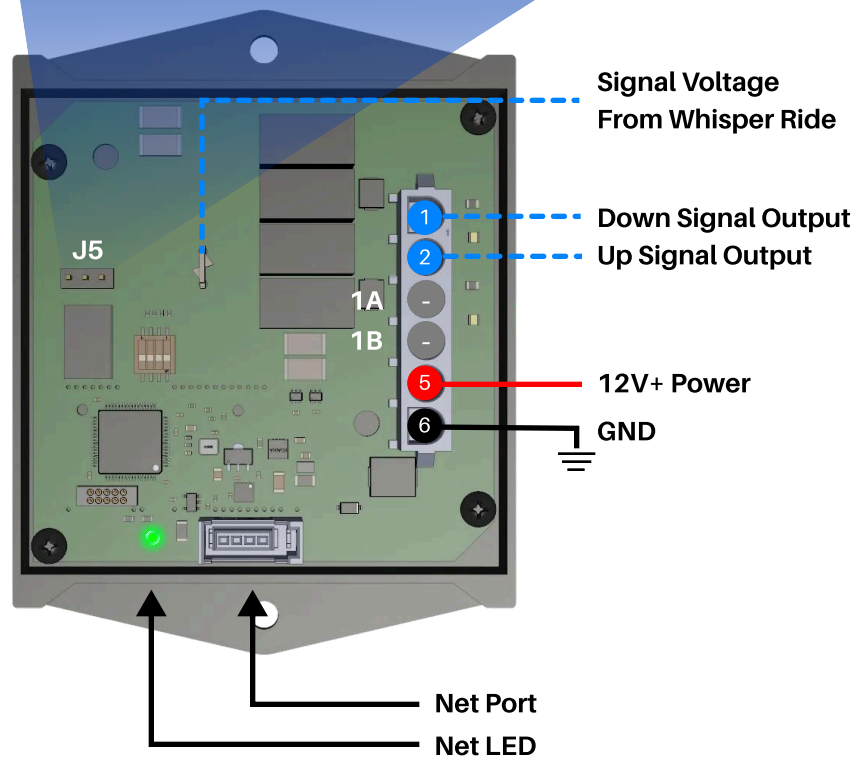
This information applies **only to coaches with a MoRyde TV Lift**. The module shown above is an HCR-15, which provides the reverse-polarity output needed to drive the MoRyde TV Lift motor. If the TV lift will not raise or lower, first check that the **NET LED** on the **HCR-15** is solid green.

- If it is flashing or off, there is a network connectivity issue.
- If the module is online (solid green LED) but the TV lift still does not work, test the output with a multimeter.

Insert one probe into **1A** and the other into **1B**. Proper operation will show the module outputting **12V+** on one pin and ground on the other, depending on the direction. If this is not occurring, please call **Spyder Controls**.

Whisper Ride TV Lift

Front TV Lift	Rear TV Lift	Location Settings
		The location setting for the HCR-15 can be changed via connector J5.



Trouble Shooting

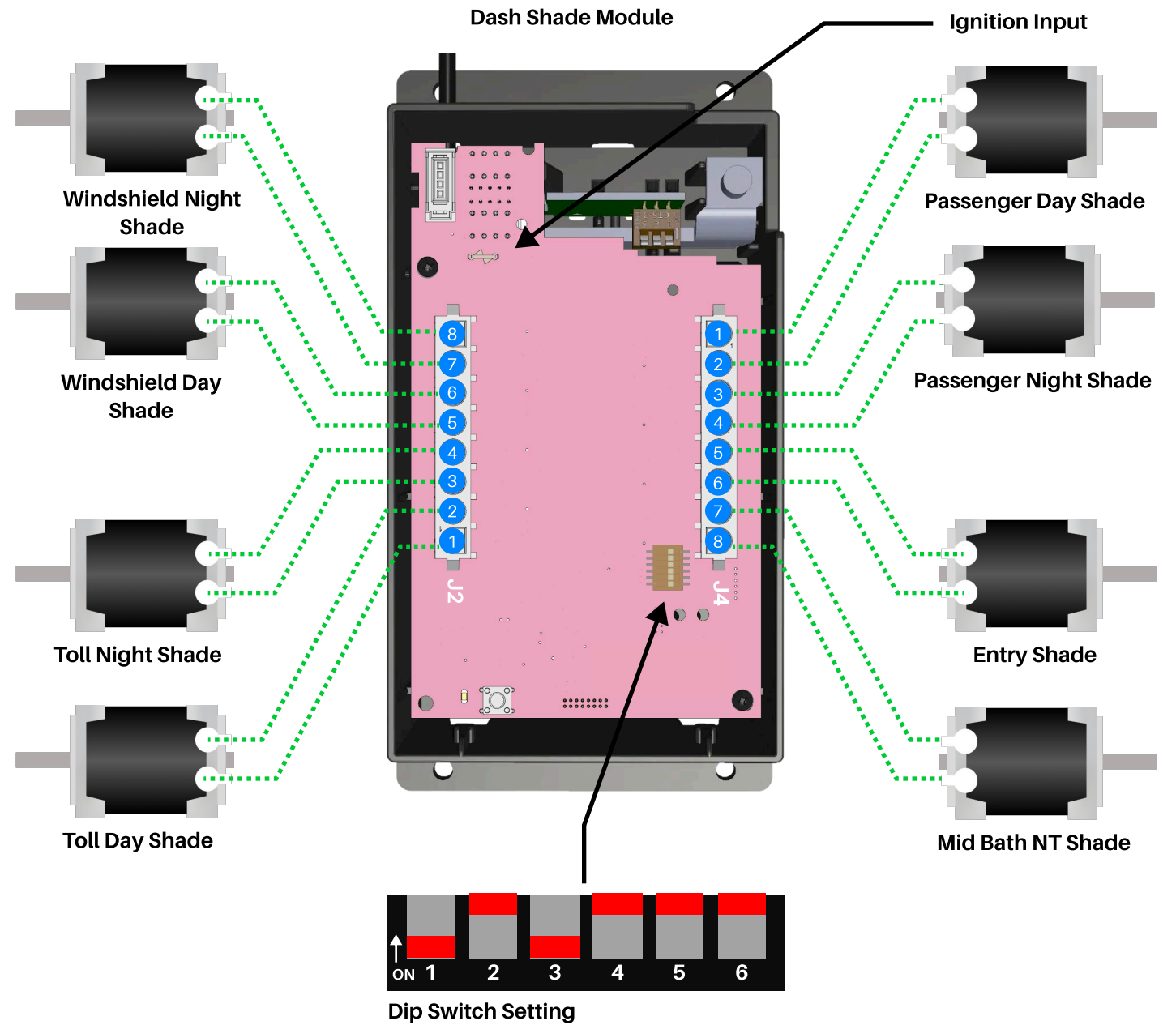
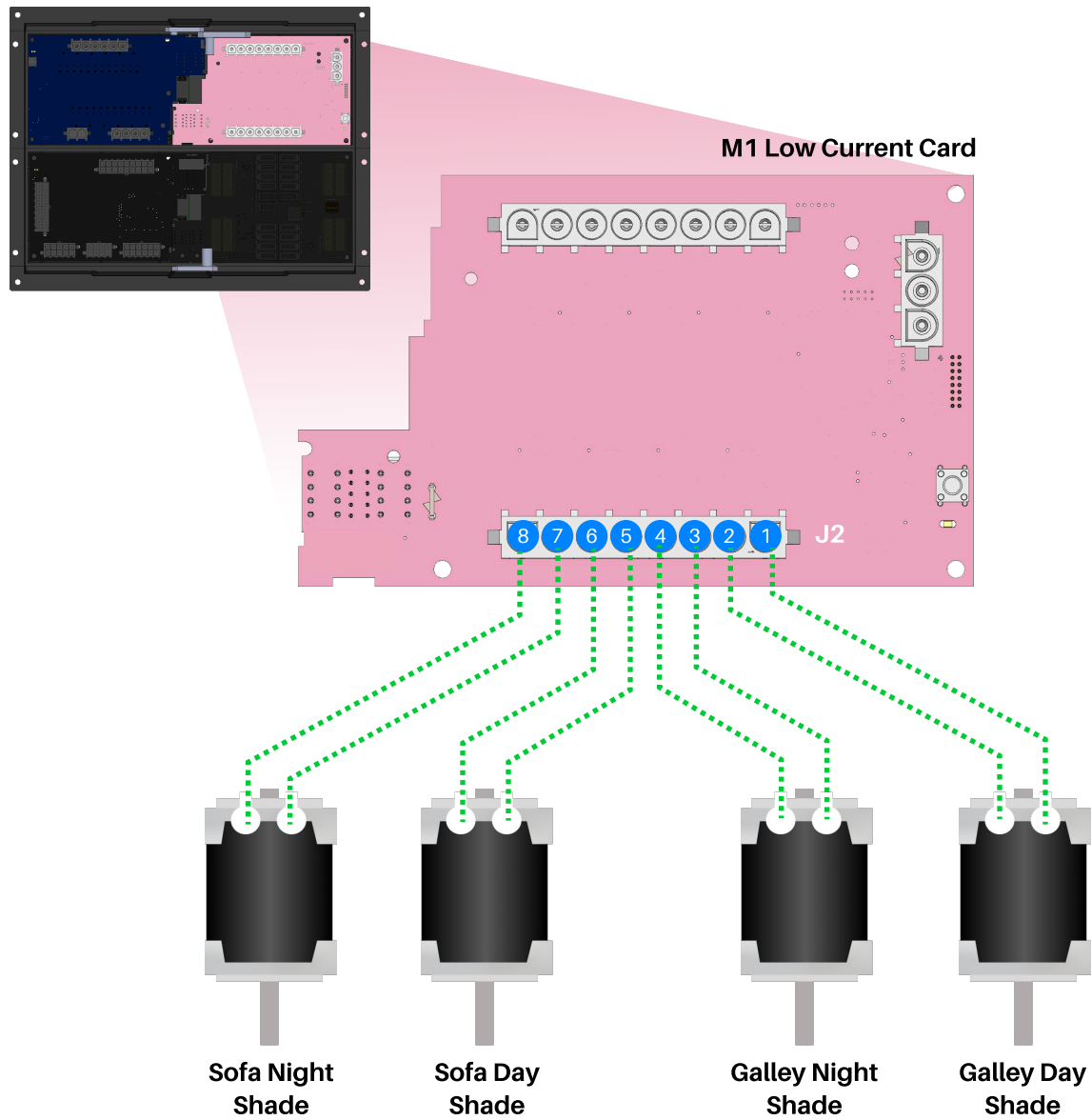
The module shown below is an **HCR-15**, which provides the **12V** output for the TV lift motor. If the TV lift will not raise or lower, first check that the **NET LED** on the **HCR-15** is solid green.

- If it is flashing or off, there is a network connectivity issue.
- If the module is online (solid green LED) but the lift still does not operate, use a multimeter to probe the connector.

For further troubleshooting, please contact **Spyder Controls**.

Zephyr Shades

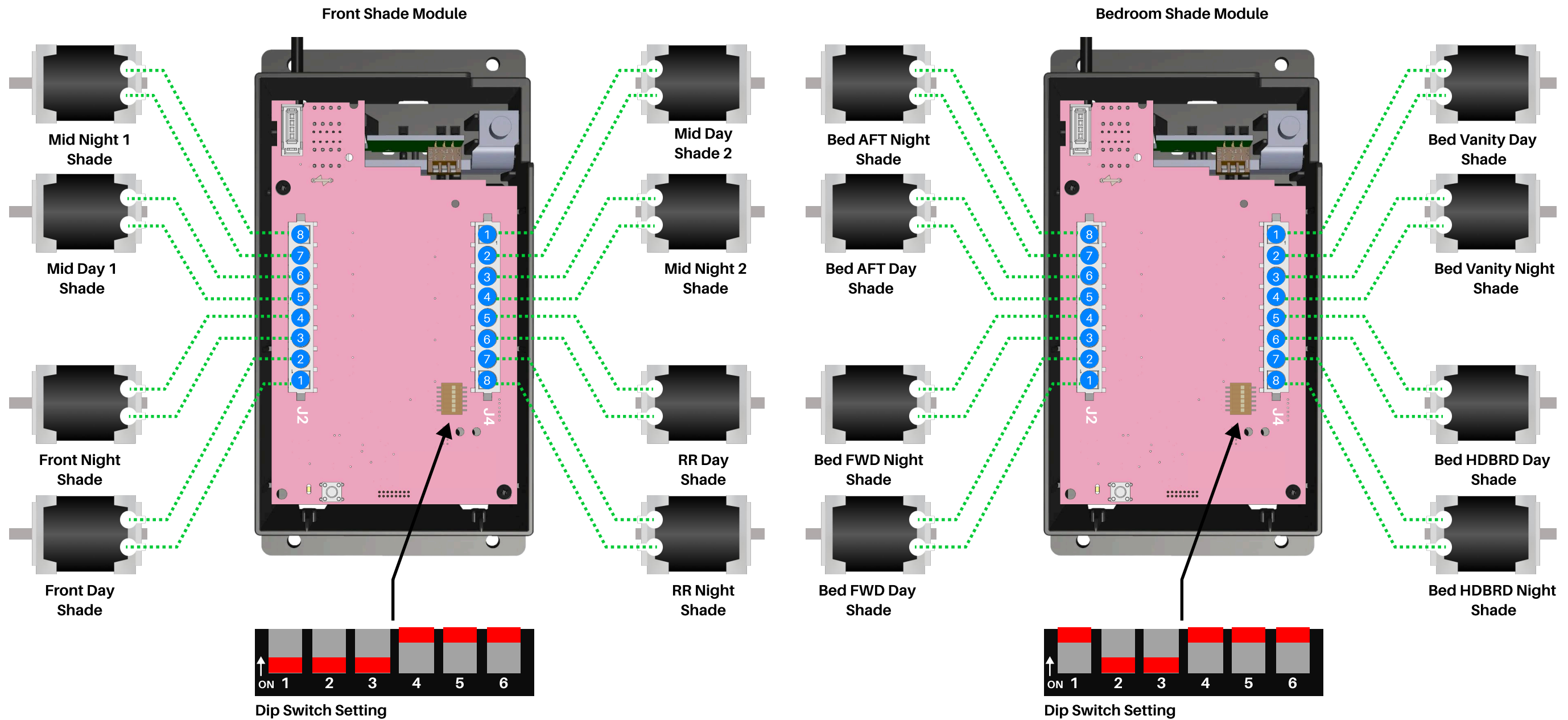
M1 Mid Panel



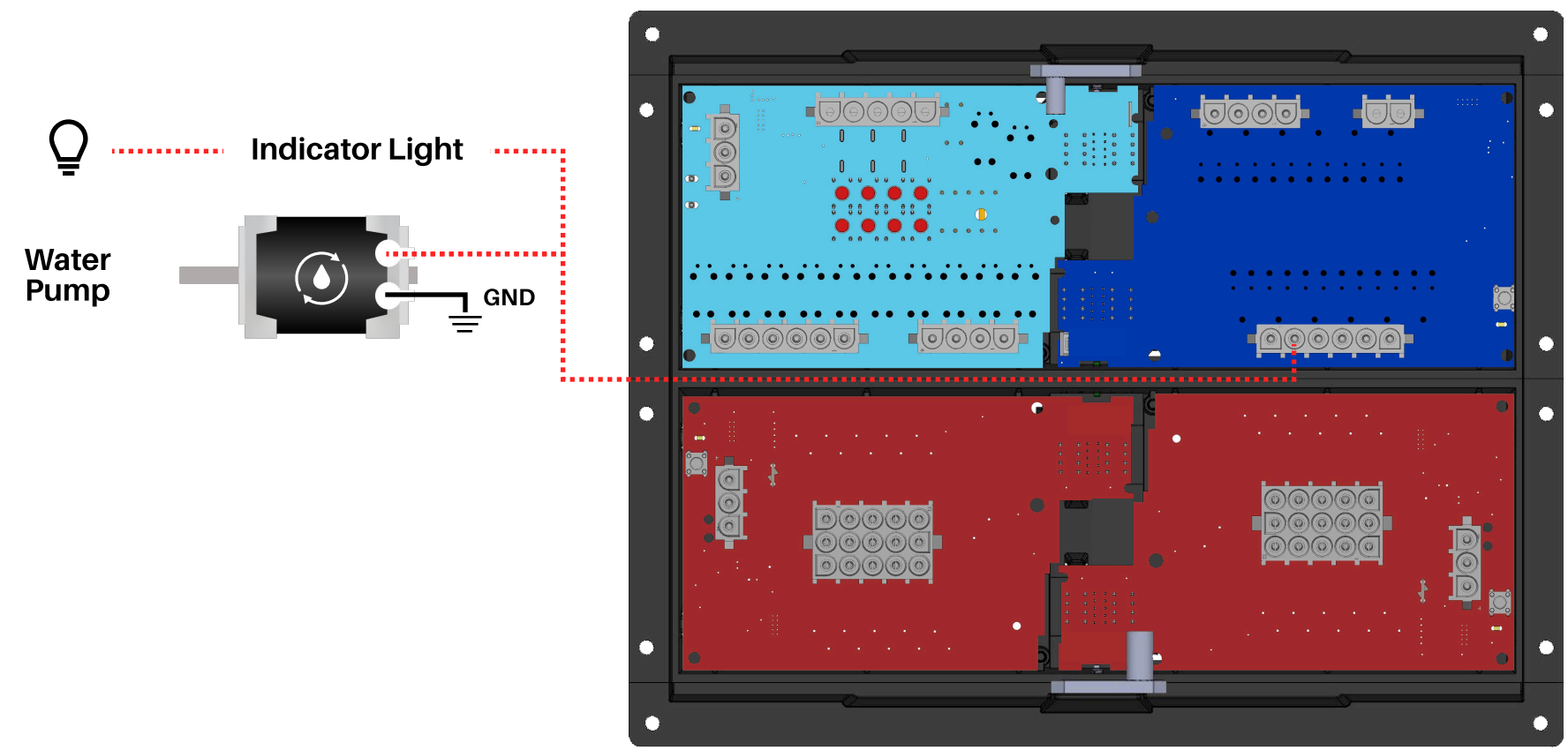
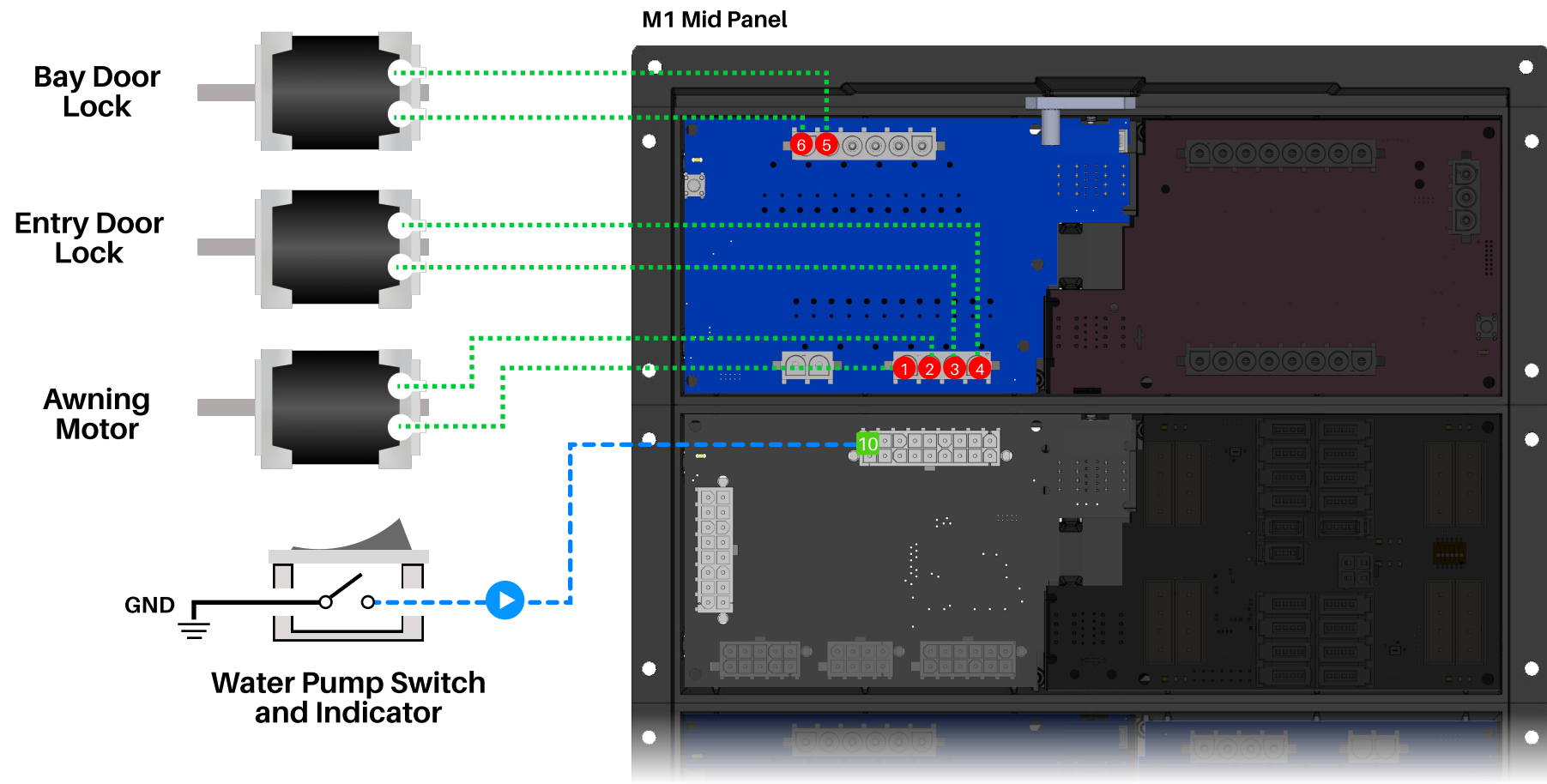
Dash Shade Ignition Lockout

When the ignition is turned on, the coach sends **12V+** to the **Dash Shade module**. When this signal is received, the module prevents the windshield shade from fully lowering with a single press. To lower the windshield shade **while ignition is present**, you must **press and hold** the windshield shade **Down** button.

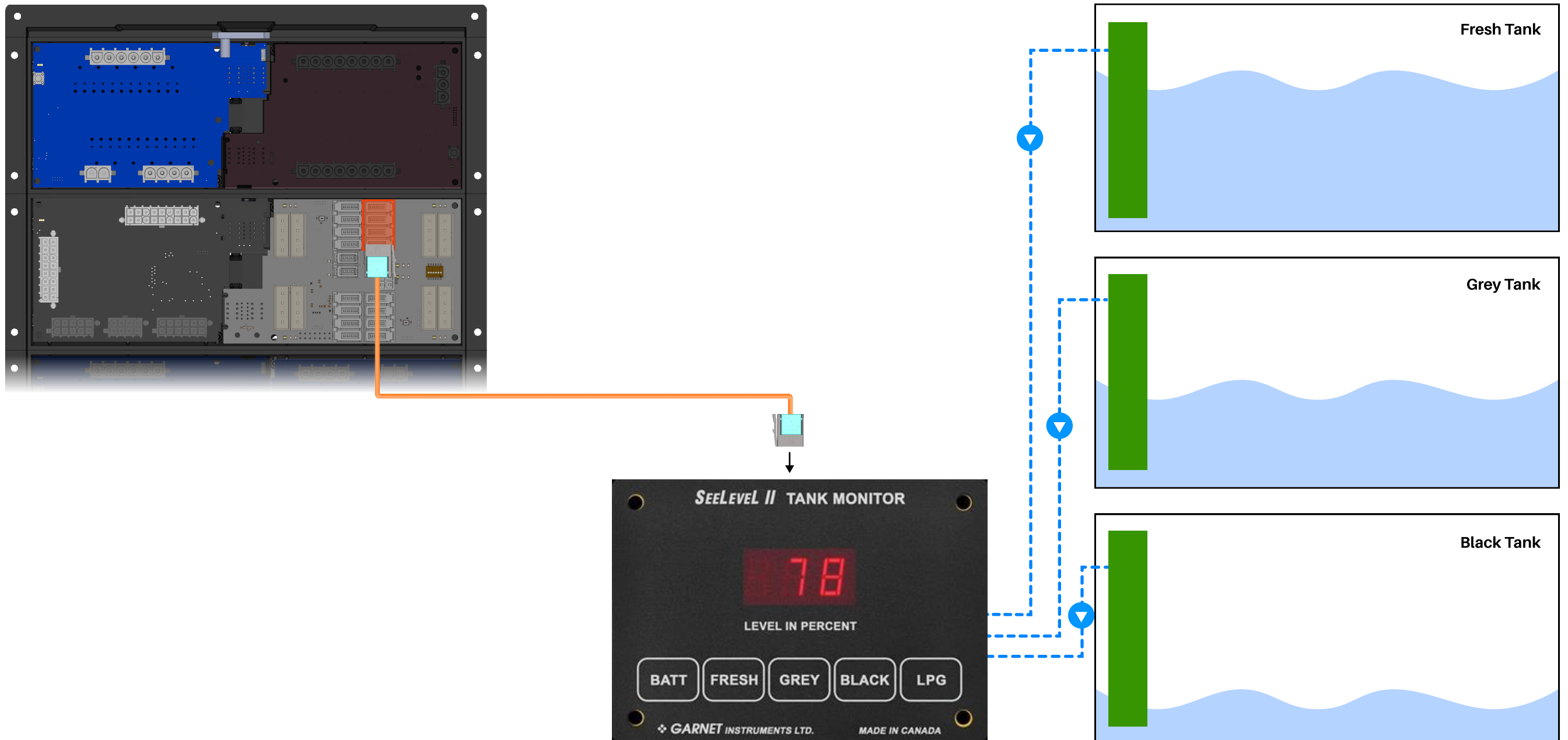
Zephyr Shades Cont.



Zephyr Motors And Pump



Tank Sensing



Tank Sensing

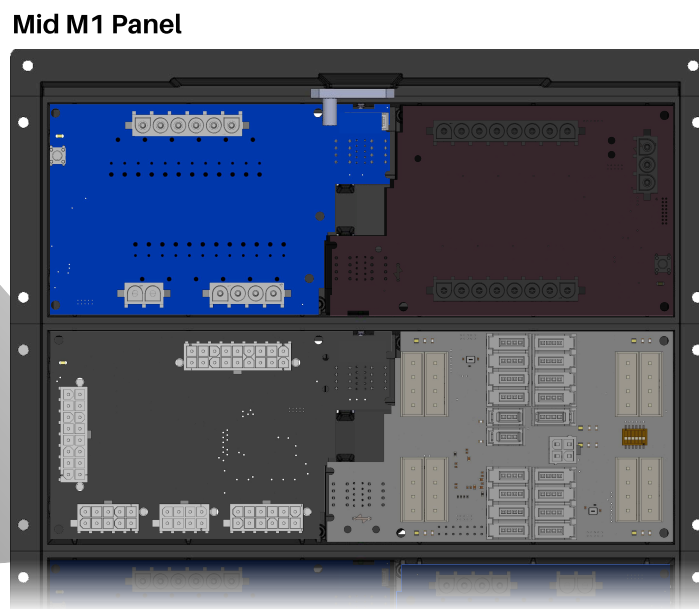
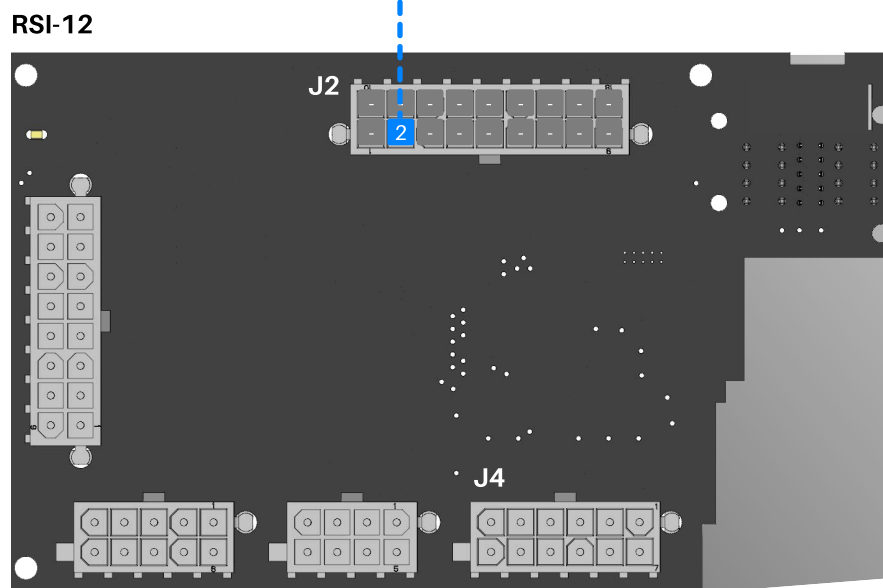
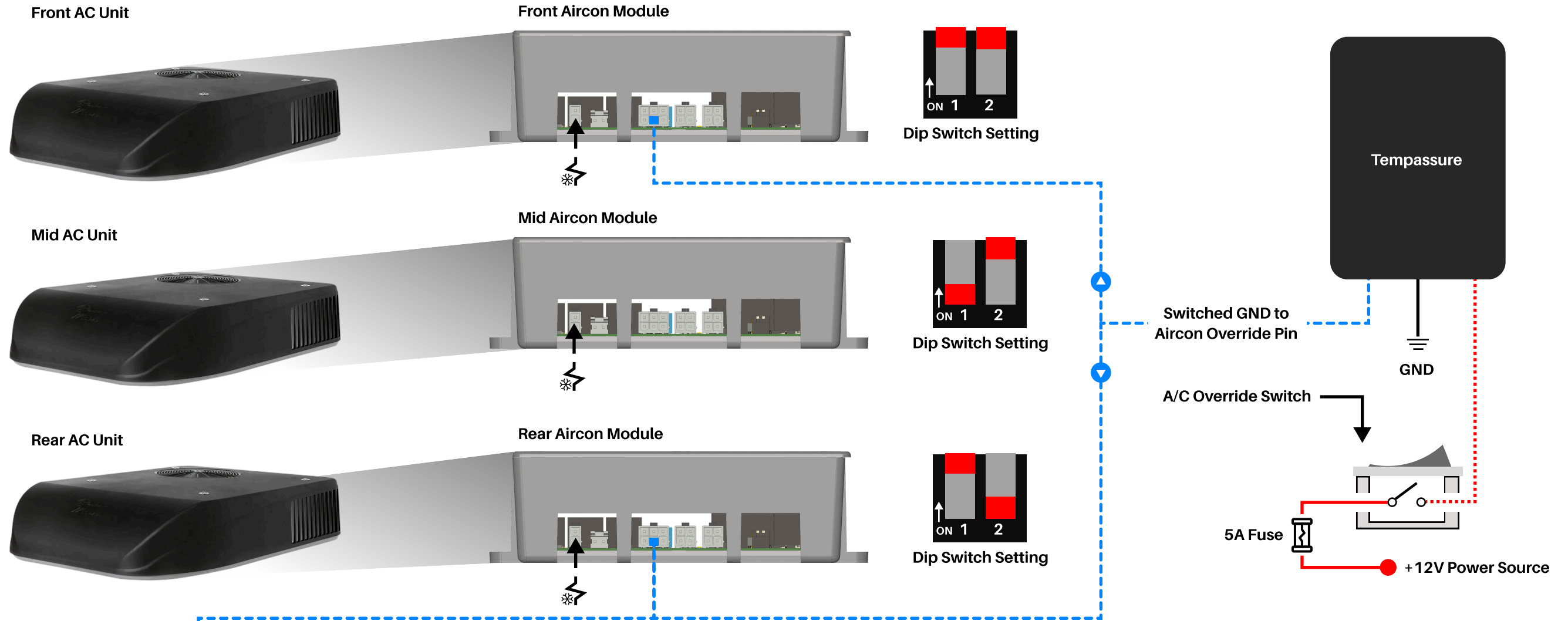
This coach uses a **Seelevel Tank Sensing System** made by **Garnet Industries**. The system reads tank levels using adhesive strip sensors mounted on each tank. The Seelevel monitor then sends this data across the RV-C network.

The Spyder System simply detects and displays the tank information broadcast by Seelevel on all Spyder screens that show tank levels. If the tank readings shown on a Spyder display are incorrect, the issue is not with the Spyder System. Spyder only displays the information provided by the Seelevel monitor.

If **no tank information** appears on the displays, the **Seelevel monitor** may be **offline**.

Climate Systems

HVAC Aircons & Overrides




Emergency HVAC Override

In the event of a system failure, the **front and rear A/C units** can be manually overridden to cool the coach. This **manual override switch** is located in the **rear closet**. Switching it to the **ON** position activates a small module in the ventilation system called the **Tempassure module**, which will then take control of the front and rear air conditioners.

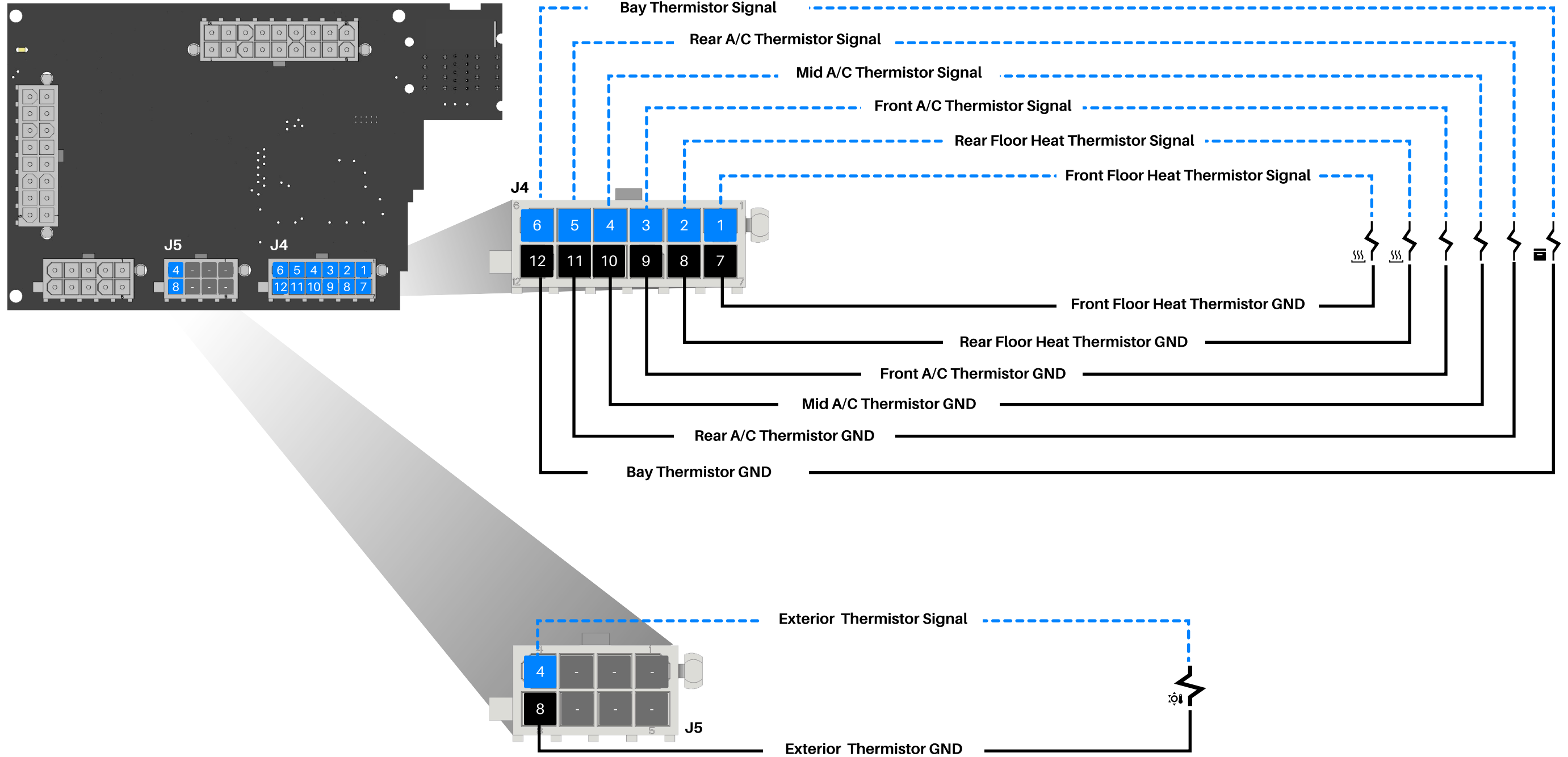
The Tempassure cools the coach **thermostatically**, maintaining a **preset temperature range** determined by the module. This override should be used **only in emergencies** when the A/C units cannot be controlled through the Spyder system.


If you notice the air conditioners turning on and off unexpectedly, the manual override switch may have been accidentally turned on—**switch it OFF** to restore normal operation.


 **A/C Freeze Sensor**
10K Ohms at 25C / 77F


HVAC Thermistors


RSI-12




 HVAC Thermistor
100K Ohms at 25C / 77F

 A/C Freeze Sensor
10K Ohms at 25C / 77F

 Floor Heat Thermistor
10K Ohms at 25C / 77F

 Bay Thermistor
100K Ohms at 25C / 77F

 Exterior Thermistor
100K Ohms at 25C / 77F

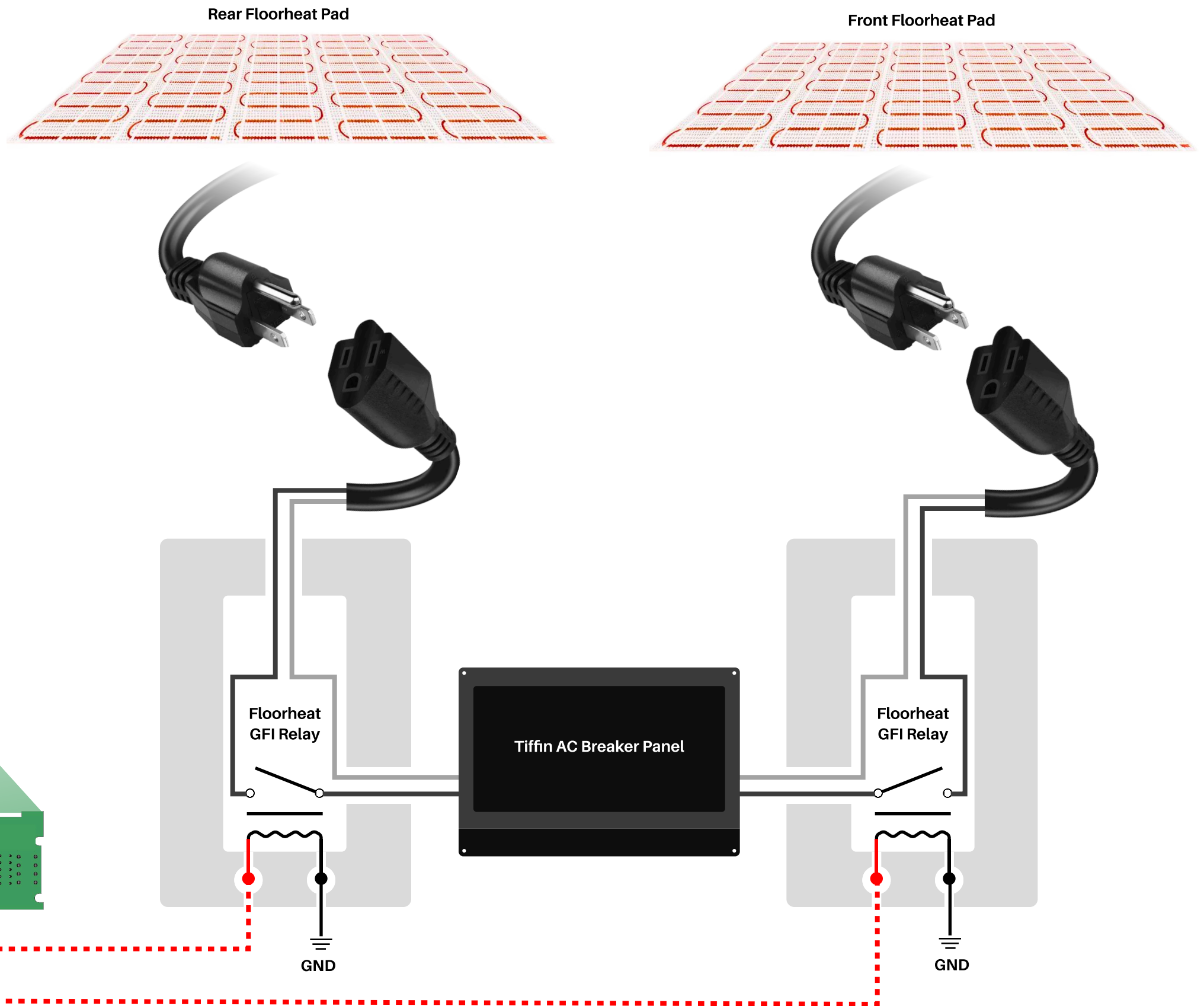
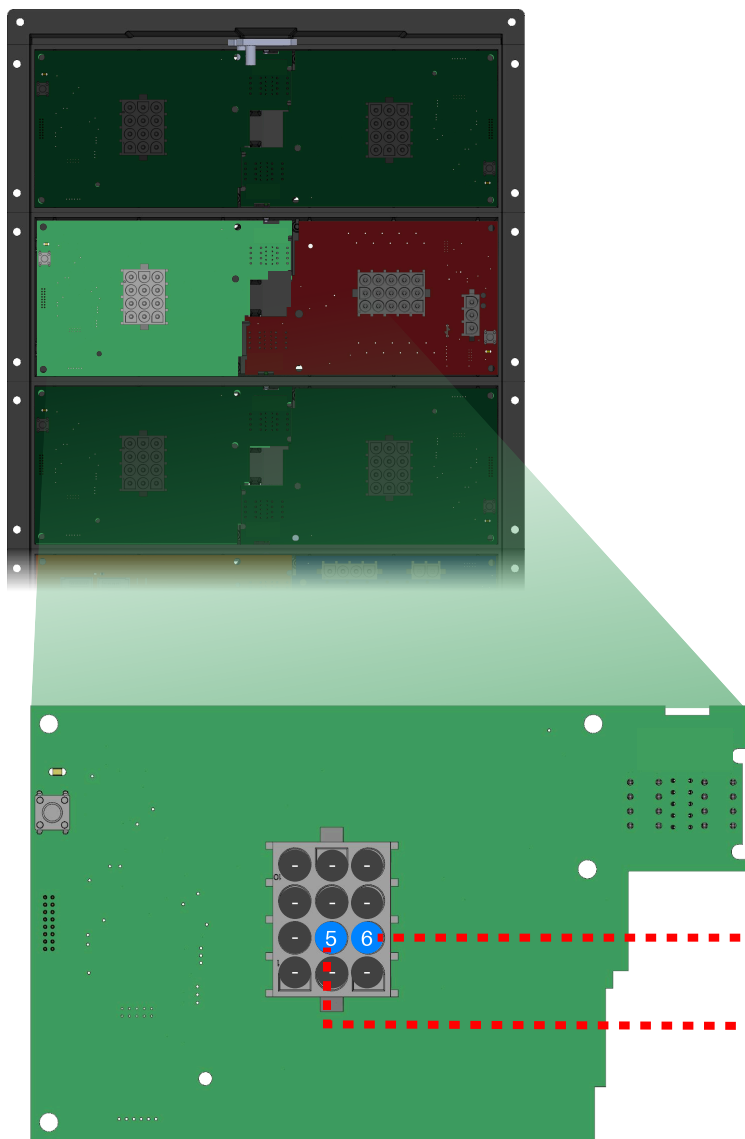
As the temperature increases resistance **lowers**.

Floorheat

Floorheat Set Points

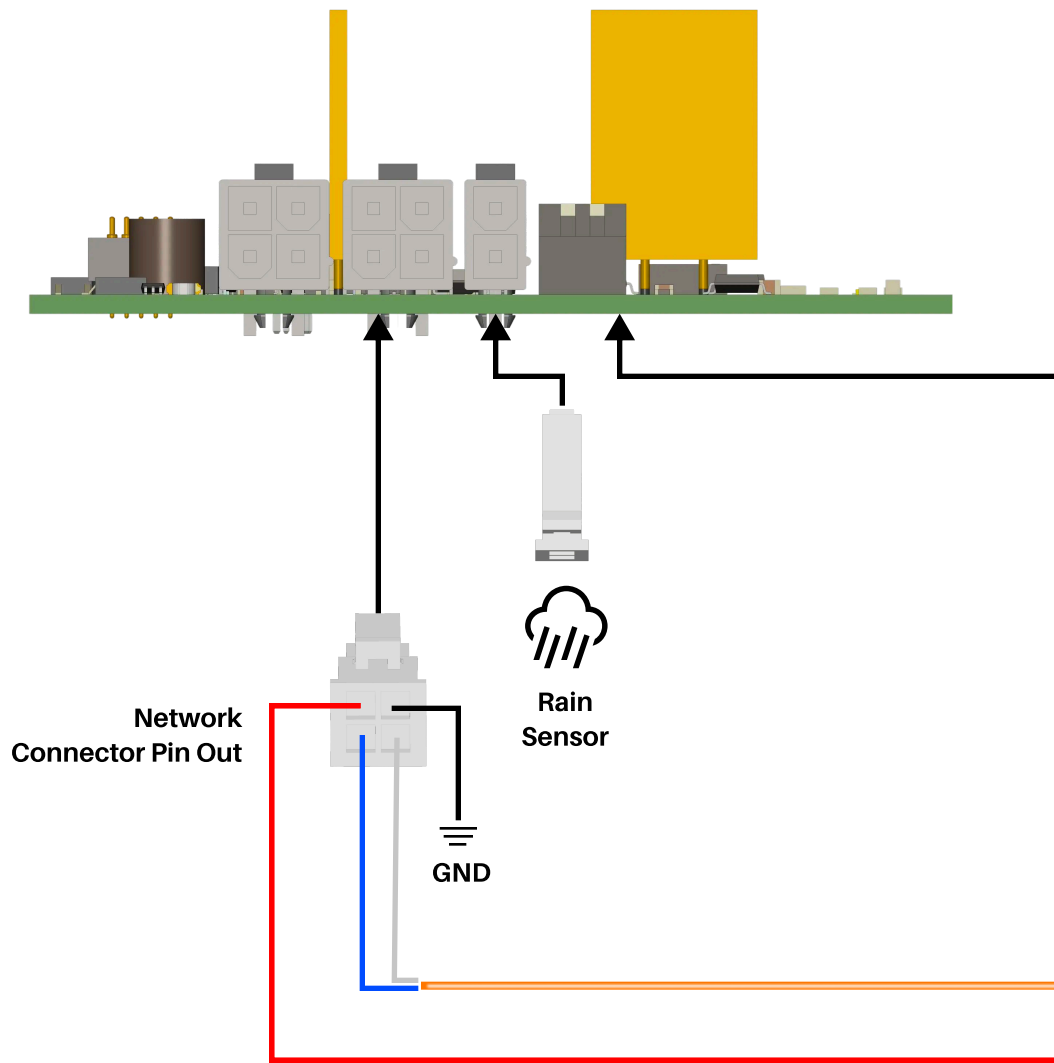
The floor heat system in your coach operates using **levels (1-5)**. Each level corresponds to a specific temperature range. The system heats the floor pad until the selected level is reached, then shuts off and monitors the floor temperature. It will turn back on **automatically** whenever additional heat is needed.

To power a heating pad, a channel in the rear M1 turns on and **sends 12V+** to a **GFCI outlet** in the rear closet. This activates the **120V AC** outlet, which then supplies power to the heating pad.



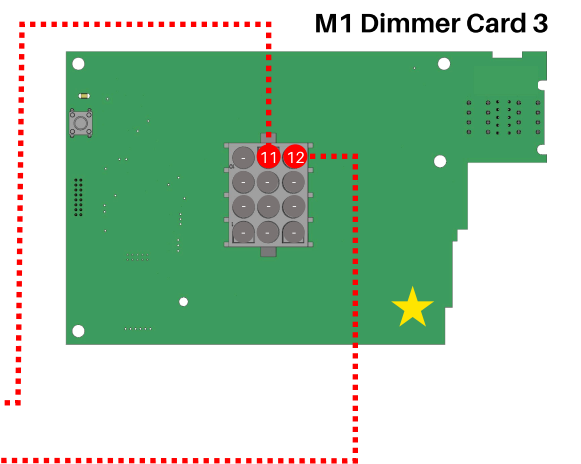
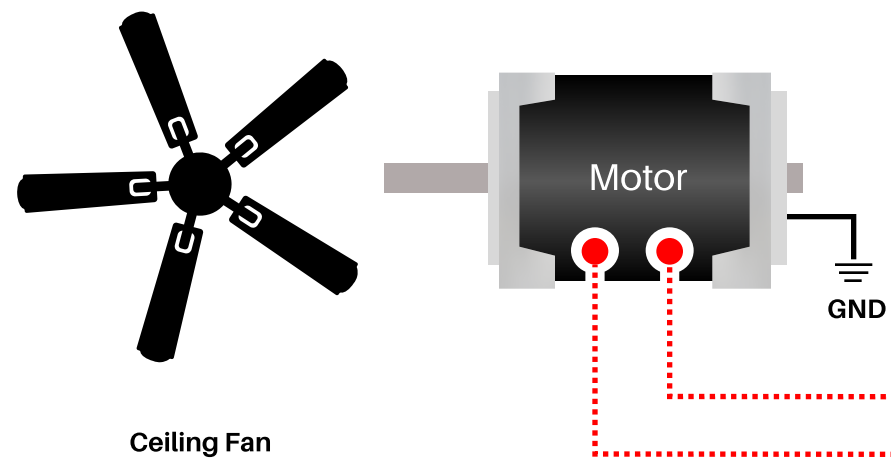
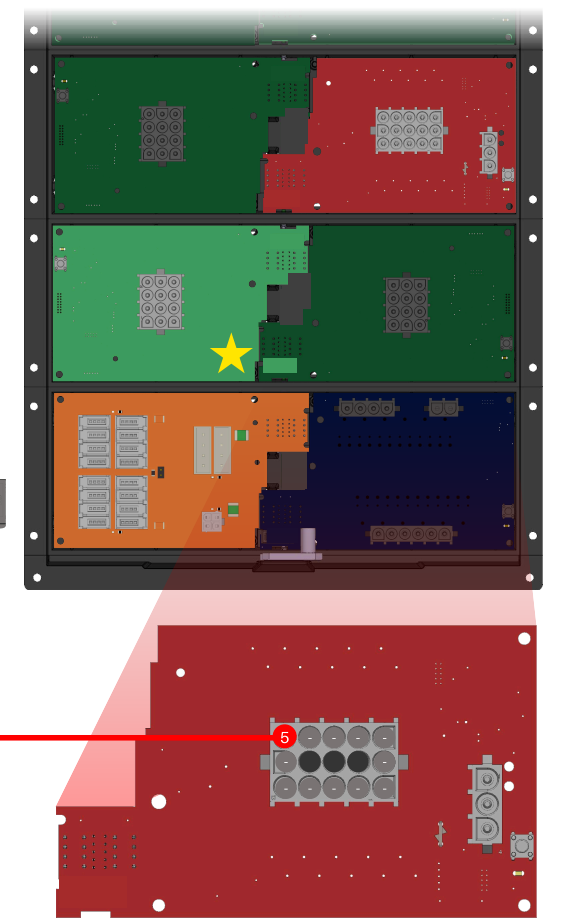
Vent Fans

Vent Fan Modules - Located in Vent Fans - 1 Per Vent Fan



Dip Switch Settings	
Fan Location	Dip Switch Setting
Galley Fan	
Mid Bath Fan	
Rear Bath Fan	

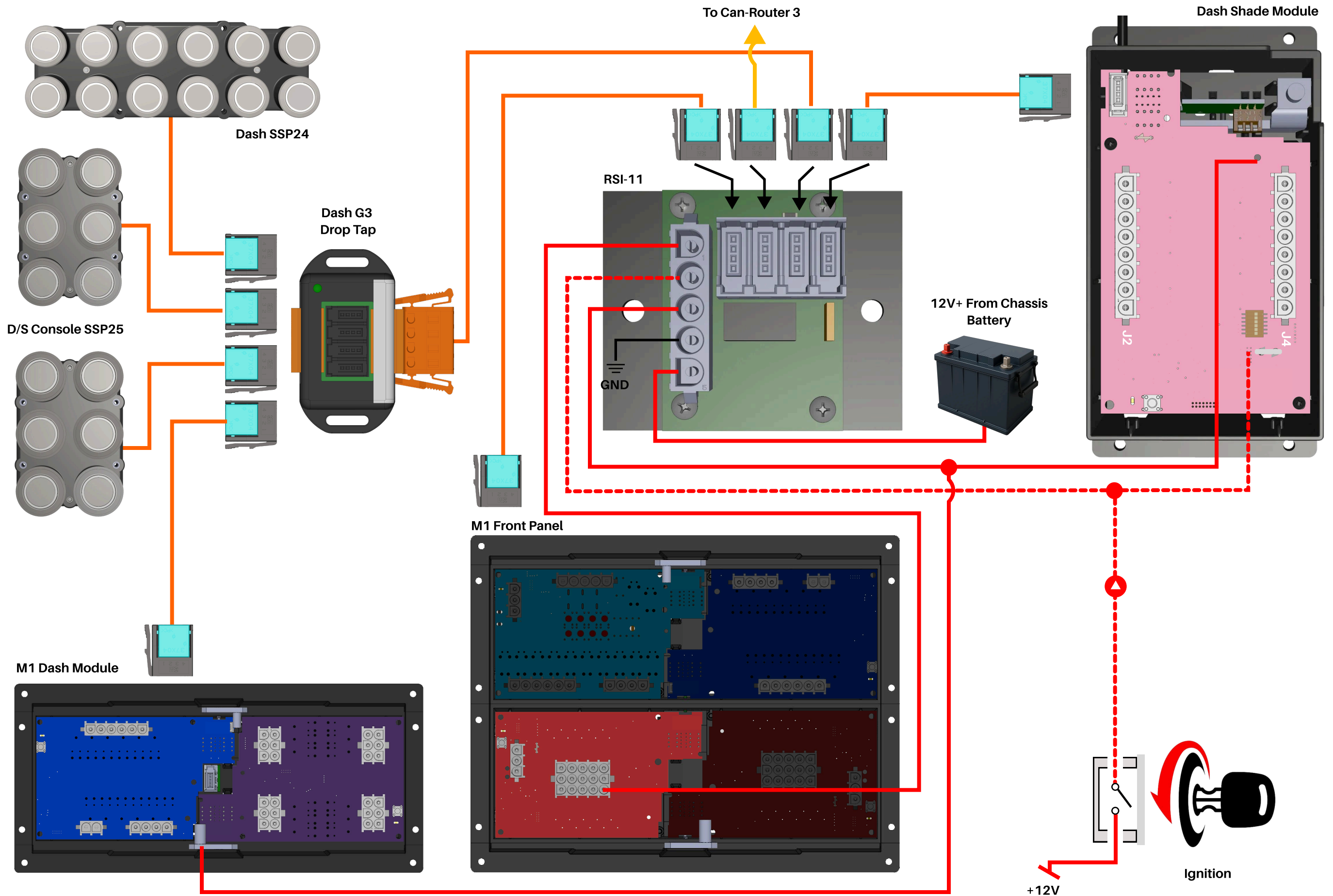
Rear M1 Panel



Fan Low Resistor - Tiffin P/N: 5040707

Power Systems

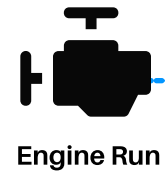
Front HCR-11



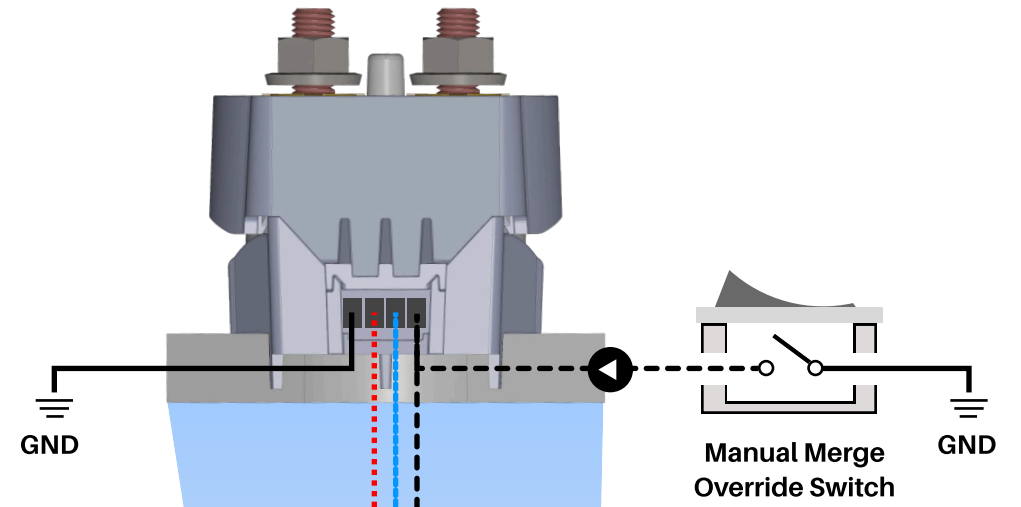
Battery Merge

Coach Running Input

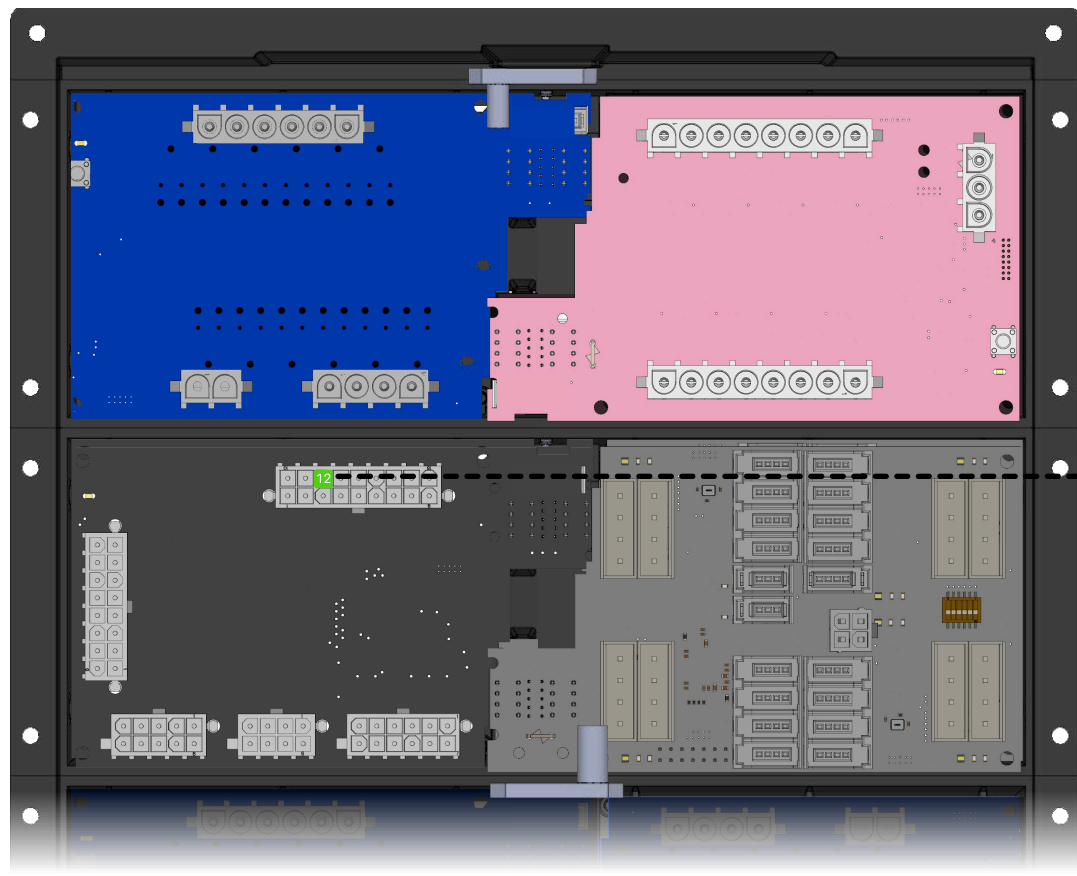
Depending on the chassis used in the coach, the coach running input will come from either the engine (switched GND input) or the ignition (switched 12V+ input).



Mergeman Merge Solenoid

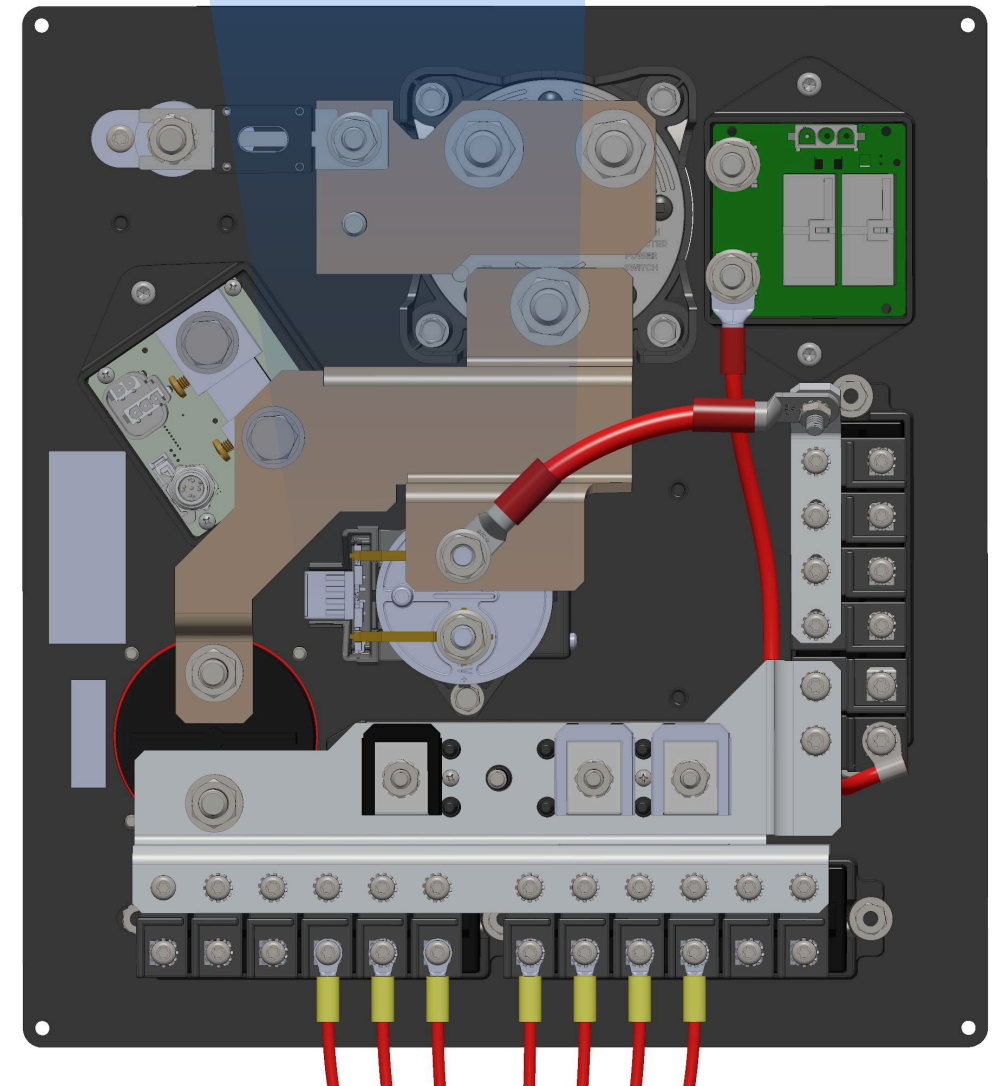


M1 Mid Panel



Auto / Manual Merge Input (GND)

DCD Panel

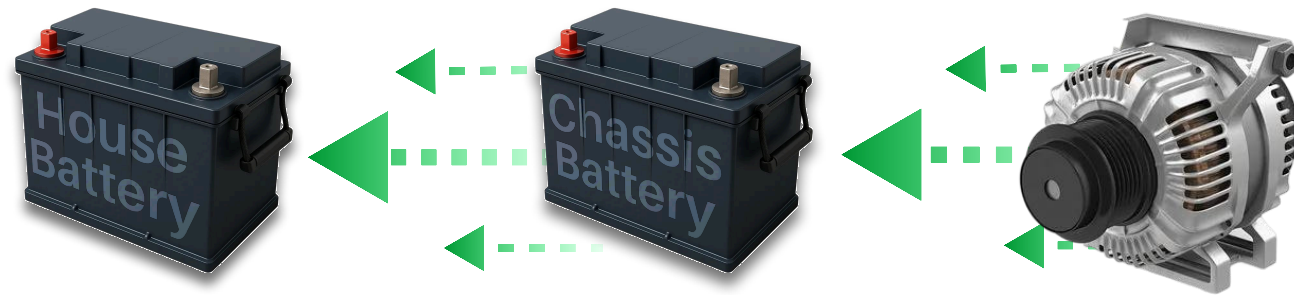


Merge Logic

What is Battery Merge?

Battery merge is a system that allows your house and chassis battery to share power ensuring both are sufficiently charged in all situations.

Chassis Charging House State



House Battery

Chassis Battery

Engine Alternator

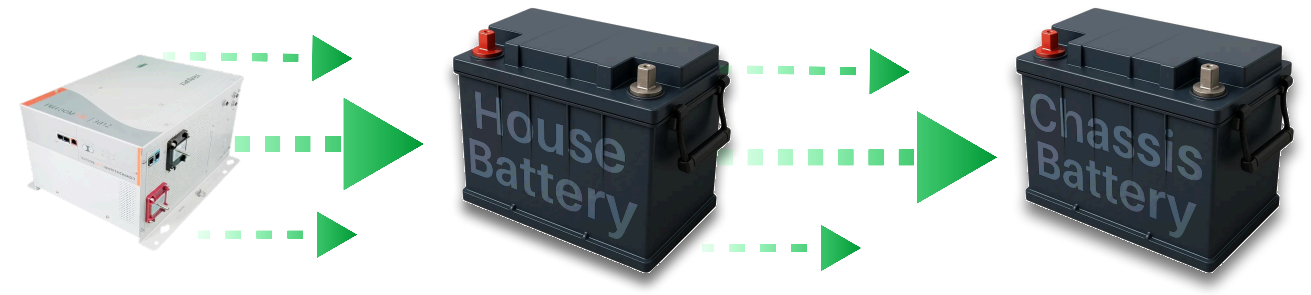
The merge solenoid will **engage** if the following conditions are present:

- Engine run or **ignition** signal is **present** and **chassis voltage** is **above 13.3 V** (Charging) for **30 seconds**

The merge solenoid will **disengage** under either of the following conditions:

- Engine run or **ignition signal** is **removed**
- **Chassis voltage** drops **below 12.6V** for more than **30 seconds** (unmerge until engine started again)

House Charging Chassis State



Charger or other DC
Charging Sources

House Battery

Chassis Battery

The merge solenoid will **engage** if the following conditions are present:

- The **House Voltage** is **above 12.5V** (Charging) and **Chassis Voltage** is **below 12.4V** (low Battery Voltage) for **30 seconds**.

The merge solenoid will **disengage** under either of the following conditions:

- **House Voltage** drops **below 12.2V** for more than **30 seconds**. **OR**
- The **60 minutes** timed battery **merge** period **expires**. **Re-merge** will occur again if the merge conditions are still present.



- The **voltages** listed in this spec are **measured directly** at the **merge solenoid** located in the DCD panel. These **readings** may **differ** from the **voltages shown** on the **LCD** screens, which are provided for general reference.

EMS Energy Management System

What is EMS (Energy Management System)

The **EMS** (Energy Management System) is **software** that monitors how much AC power is available and how much is being used.

When **demand exceeds the supply**, it **automatically temporarily shuts off** certain **loads** to prevent tripping the shore or generator breaker.

How Does it Work?

The EMS works by allowing or blocking AC power to specific loads. Note that not all AC loads are controlled by the EMS.

The loads that are EMS-controlled appear in the center column of the Power Page on the main hall LCD. **EMS must be enabled** for this information to be visible.

What Does "Shed" Mean?

When the EMS disallows AC power to a load, that load is considered "shed." This simply means there isn't enough AC power available at the moment.

The EMS will **automatically** restore power to the load once sufficient power becomes available.

What Loads Can Shed?

The following loads can **shed**:

- Dishwasher
- Aqua-Hot
- Clothes Washer / Dryer
- Aqua-Hot High (650D Only)
- Engine Preheat
- All Air Conditioner Zones
- All Floorheat Zones
- Fireplace

The TRC Transfer Switch

The TRC transfer switch receives AC power from either the generator or the shore power pedestal.

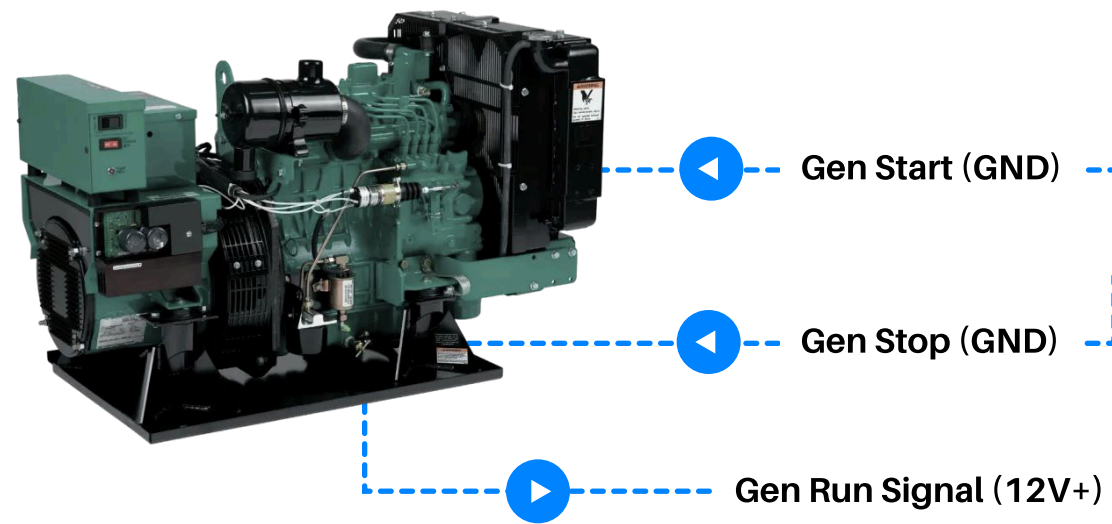
It also reports information about the **type and quality** of that power, which is then **displayed** on the **Spyder LCD** screens inside the coach.

The Spyder system **does not** produce the AC power readings we only display the readings.

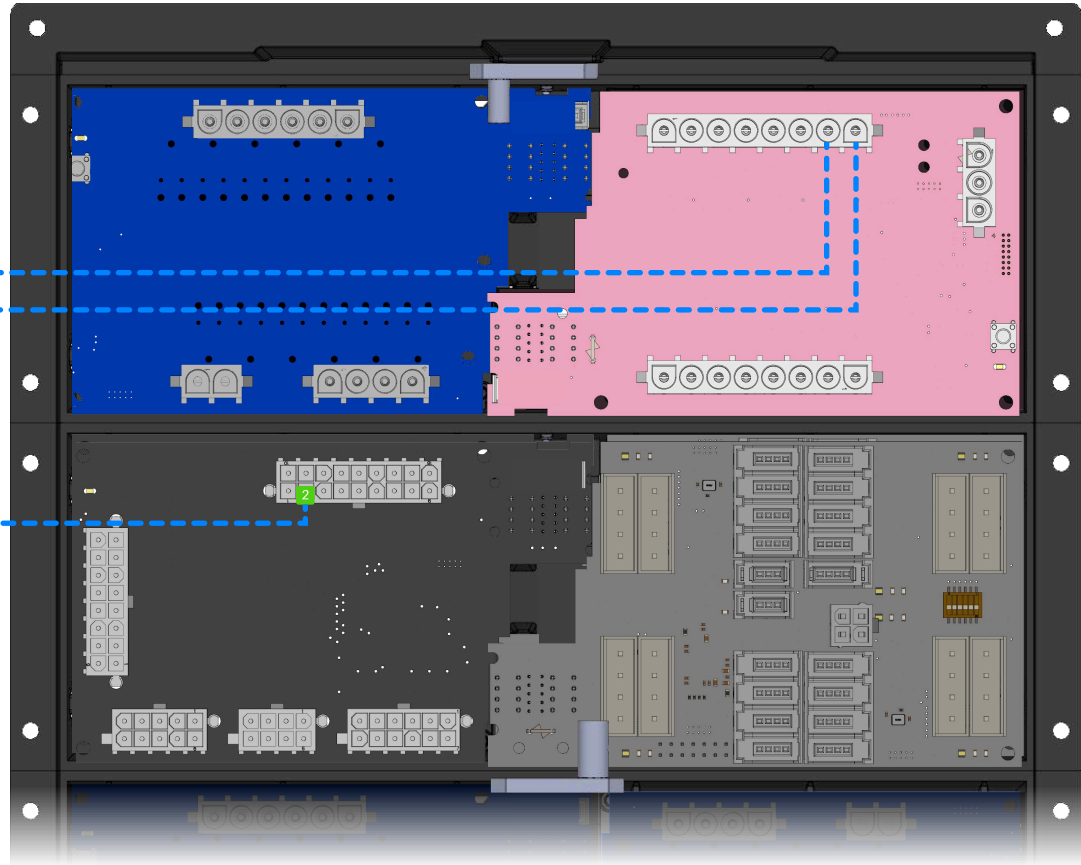
Inverter Assist

- On rare occasions you may notice a large negative current draw on the house batteries while you are connected to shore or running the generator. This state is called **Inverter Assist**.
- Inverter assist is a state in which power is temporarily drawn from the batteries to keep EMS loads from shedding.
- If the following is **TRUE** inverter assist will activate:
 - Shore or generator power is available
 - The charger is in **Float Mode** (batteries close to full)
 - The charge rate has been reduced
 - A non-EMS inverted load is activated, such as a microwave or hair dryer.

Generator



M1 Mid Panel

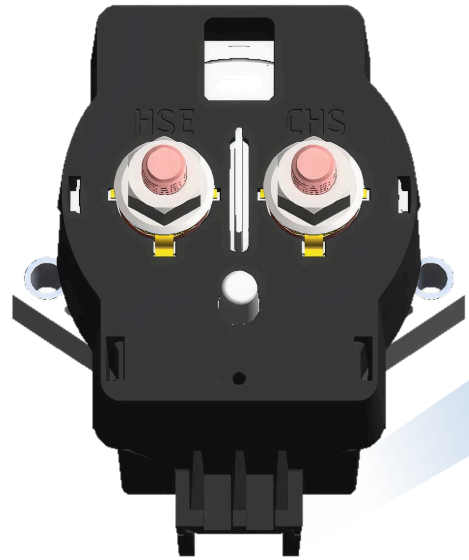


Operating the Generator

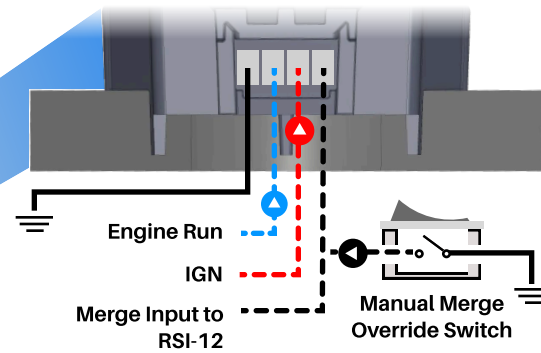
The generator can be started by using the generator start/stop switch on the dash or by activating it from any Spyder Screen.

The AGS (Auto Generator Start) can be set to automatically toggle the generator on or off based on user defined conditions.

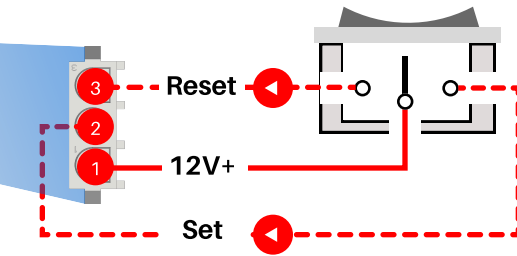
DCD Panel



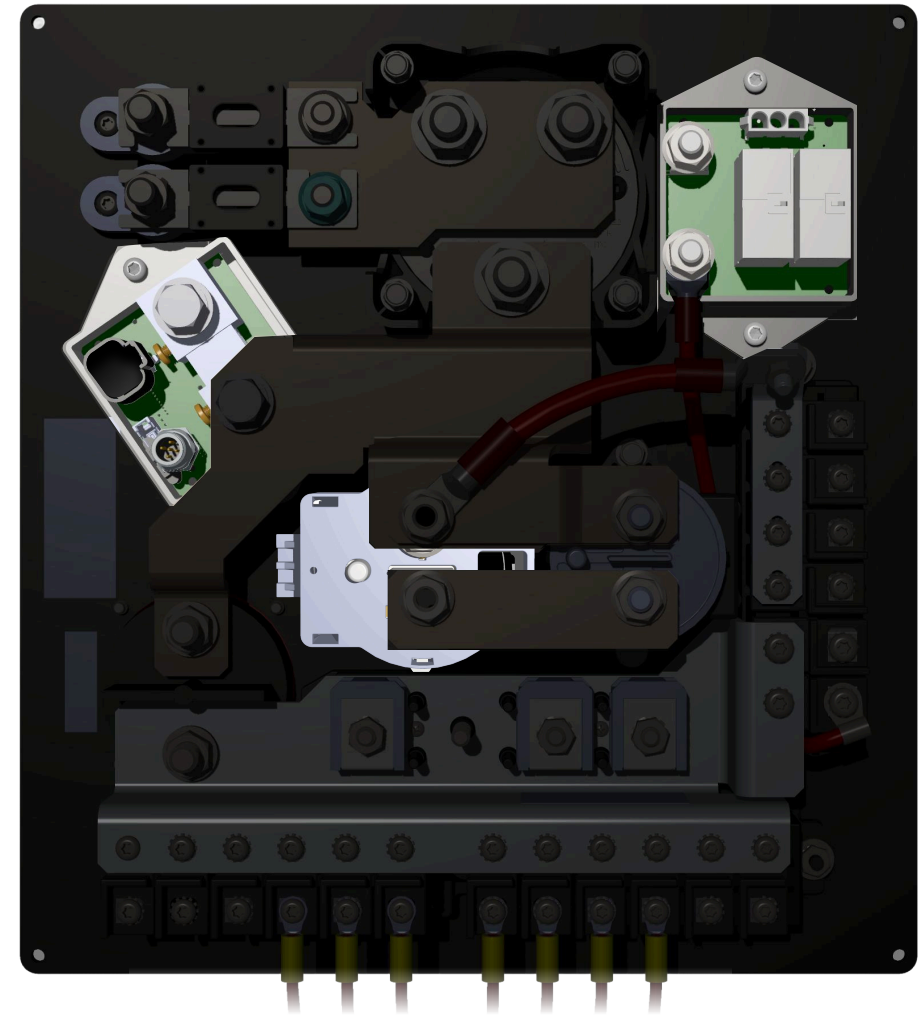
Mergeman



BDC3



The **BDC3** module **shuts off house power** to the **Rear M1 Panel** when the battery switch is toggled at the entry way 5" panel.

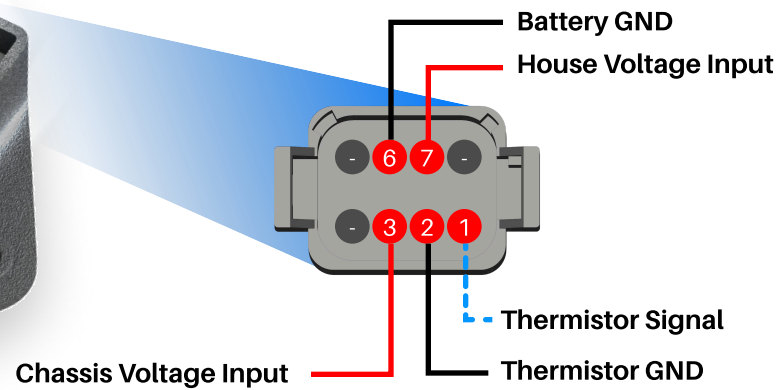


DCD Panel

The DCD panel serves as the central hub for high-current DC power distribution. It has several compact, intelligent modules mounted to it, as shown to the left.



Trustate Module



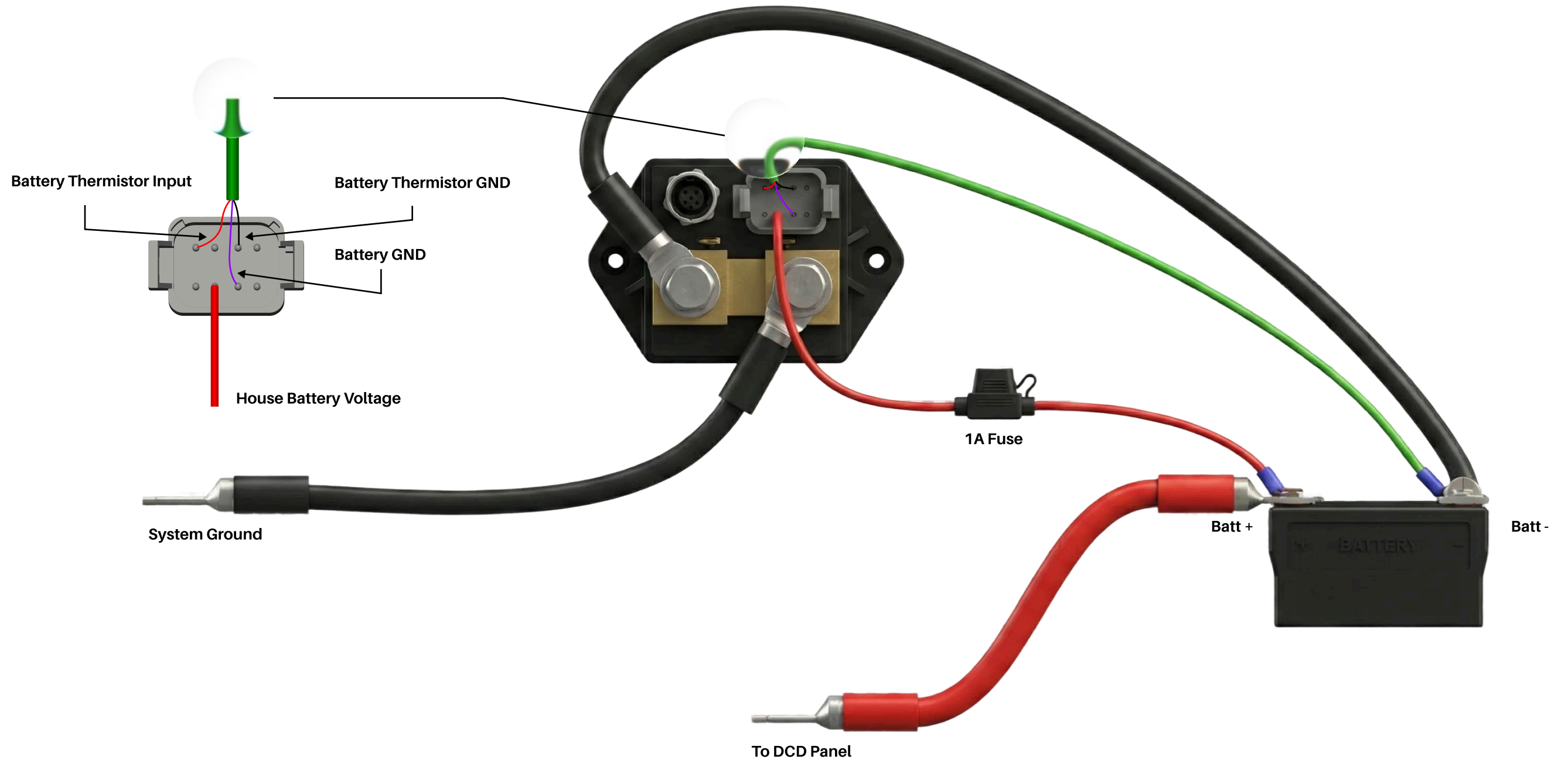
The Trustate provides the following information:

- Current in Amps (In/Out) of the House Batteries
- House battery voltage
- Chassis battery voltage
- House battery temperature



The Trustate **only** provides battery **information**. It **does not determine when or if to charge** the batteries.

Trustate	Spyder PN:	BMODZC700TF-M0
	Tiffin PN:	5181225
Batt Thermistor	Spyder PN:	BSPL8T4F3TF
	Tiffin PN:	5181224



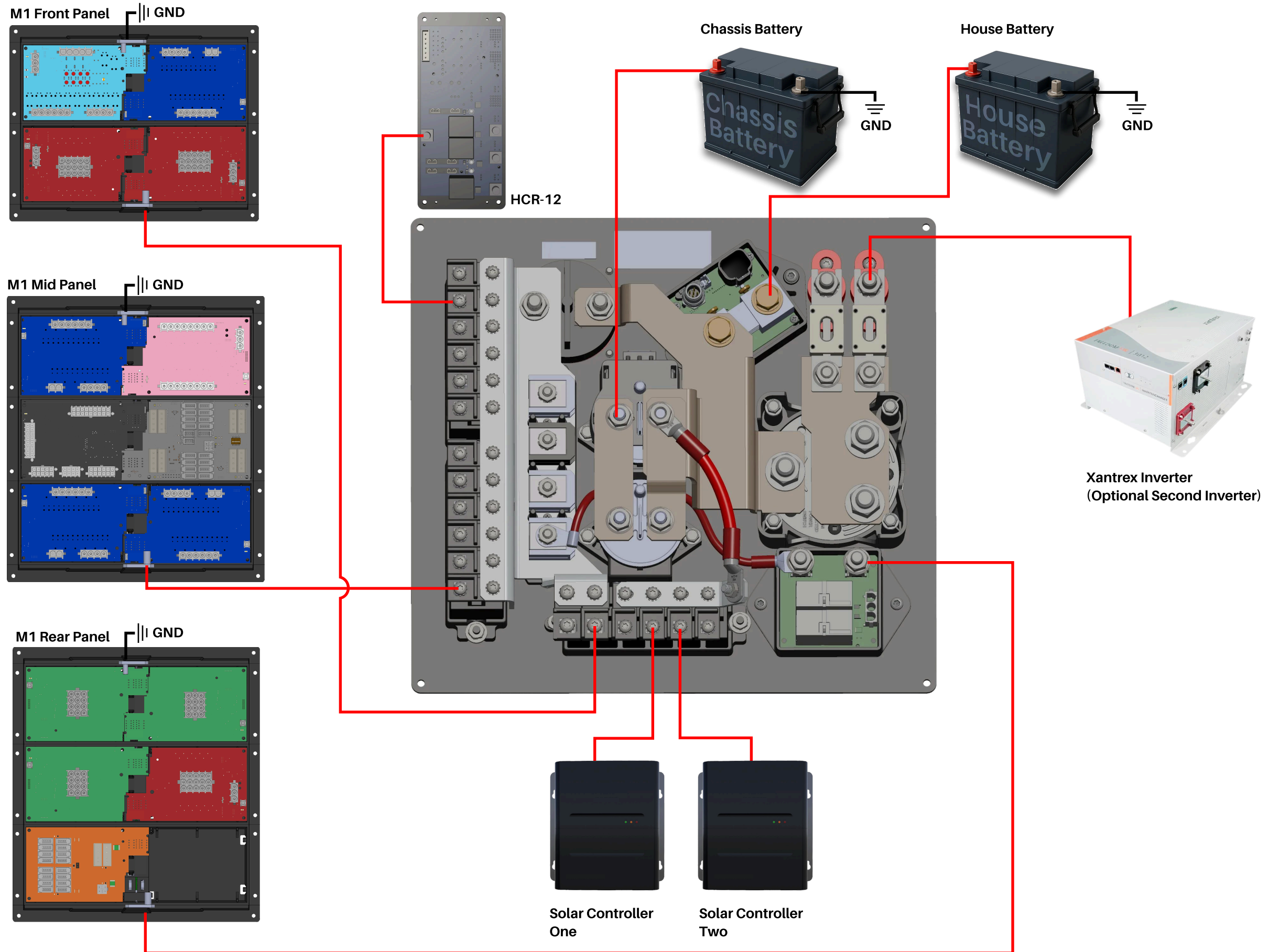
Trustate Module

The TruState module in this coach measures battery state of charge (SoC) on the ground side of the system. All current entering or leaving the battery passes through the TruState shunt, allowing the module to accurately calculate and report battery SoC on the LCD displays. This value is shown as the battery percentage on the main hallway screen. In addition to state of charge, the TruState also monitors house battery voltage, house battery temperature, and chassis voltage.



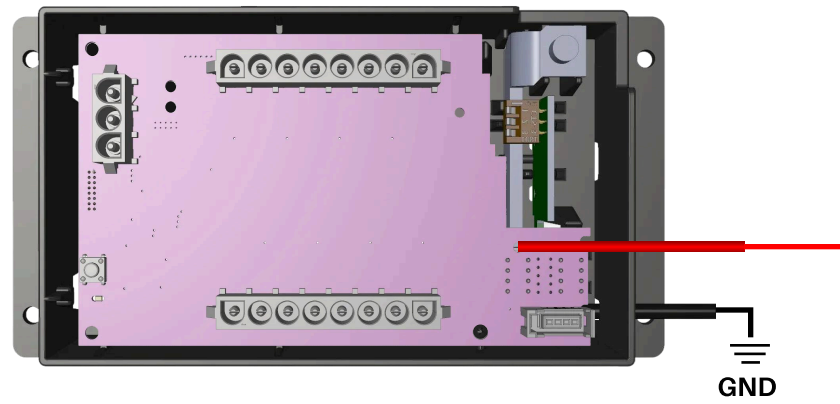
For the TruState to operate correctly, the battery bank capacity must be configured on the main LCD screen. This setup is completed at the factory when the coach is new. If the battery bank size or battery chemistry is changed, the settings must be updated on the main LCD. To adjust these settings, navigate to: Power → Power Settings → TruState → Adjust Bank Size or Battery Type

DCD Panel

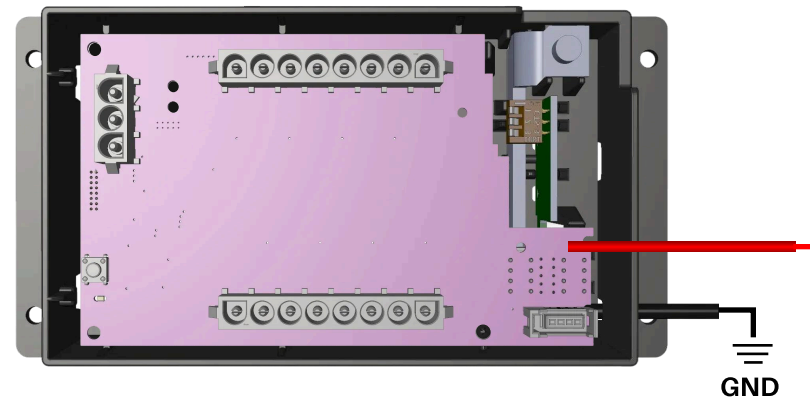


Shade Module Power

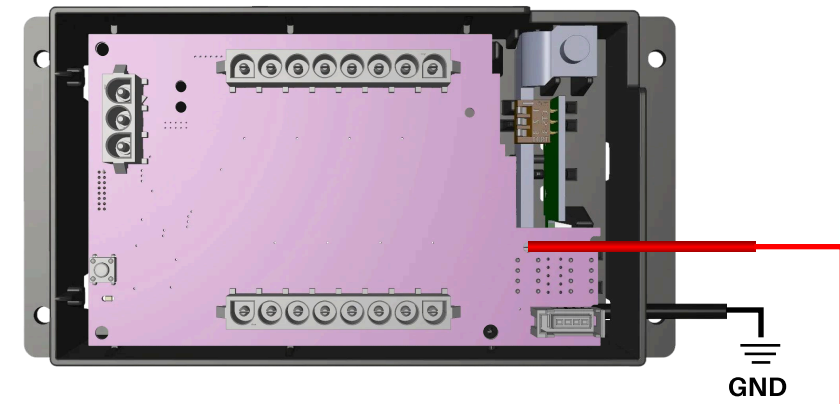
Dash Shade Module



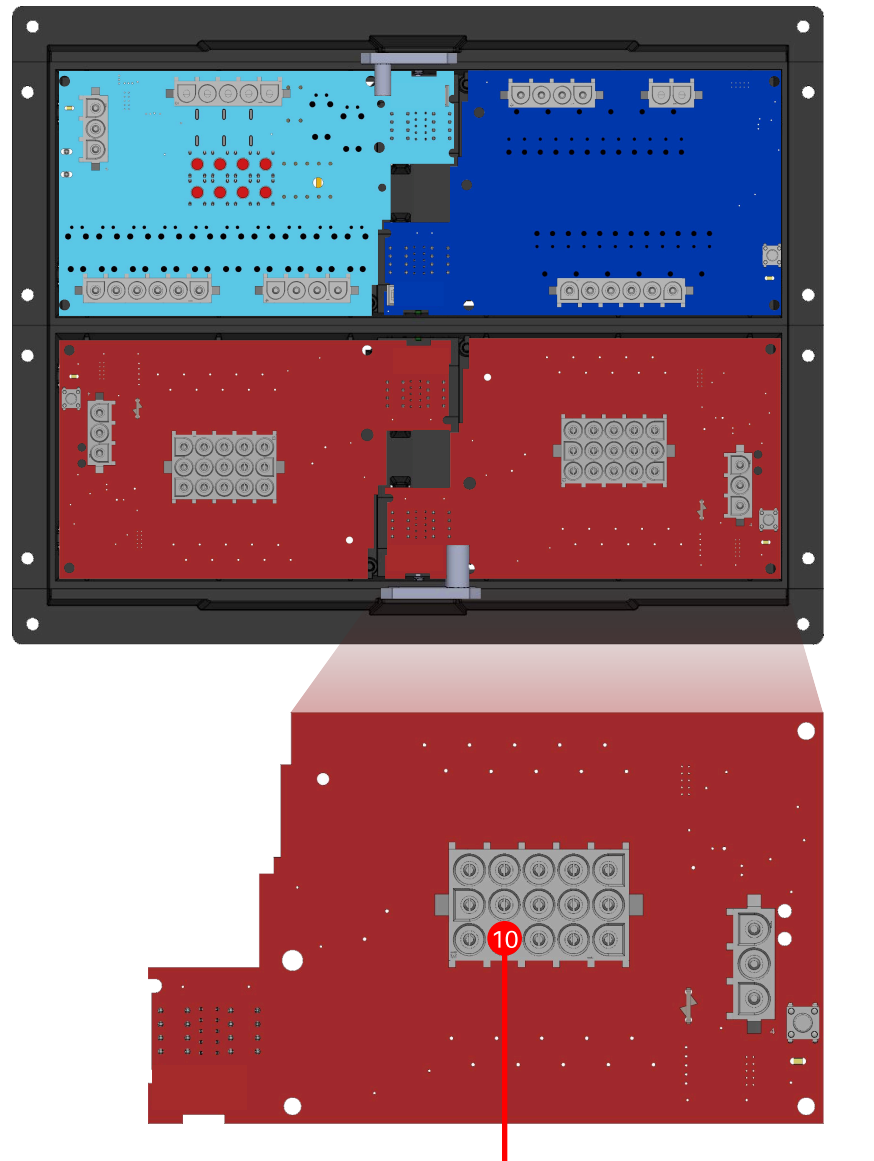
Front Shade Module



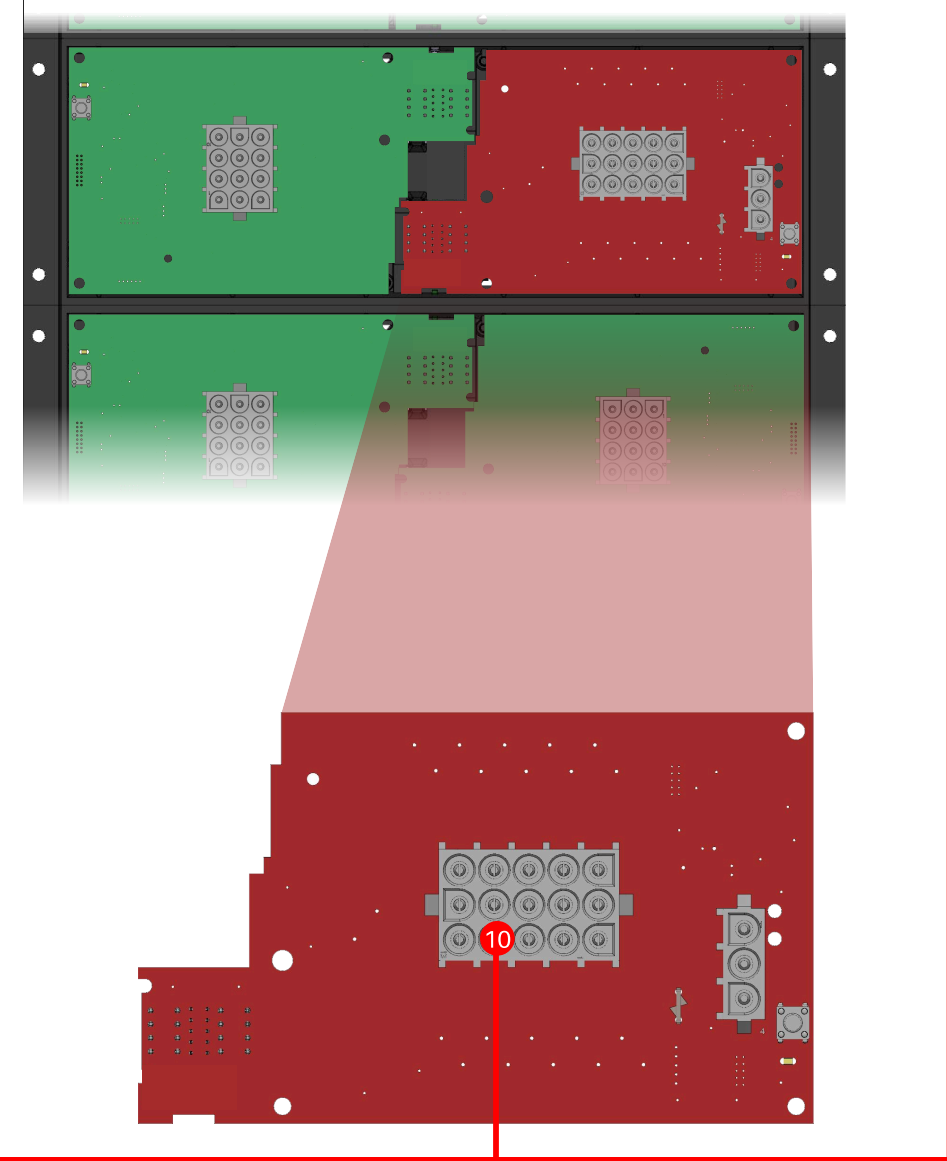
Bedroom Shade Module



M1 Front Panel



M1 Rear Panel



Spyder Network

CAN Router

Networks Overview

Yellow - Always On

The orange network is powered on even when the battery disconnect switch at the entry door is off.

Blue - Critical Network

The blue network contains critical items like A/C units, rear M1 panel, hall LCD, ACR3.

Orange - Switches

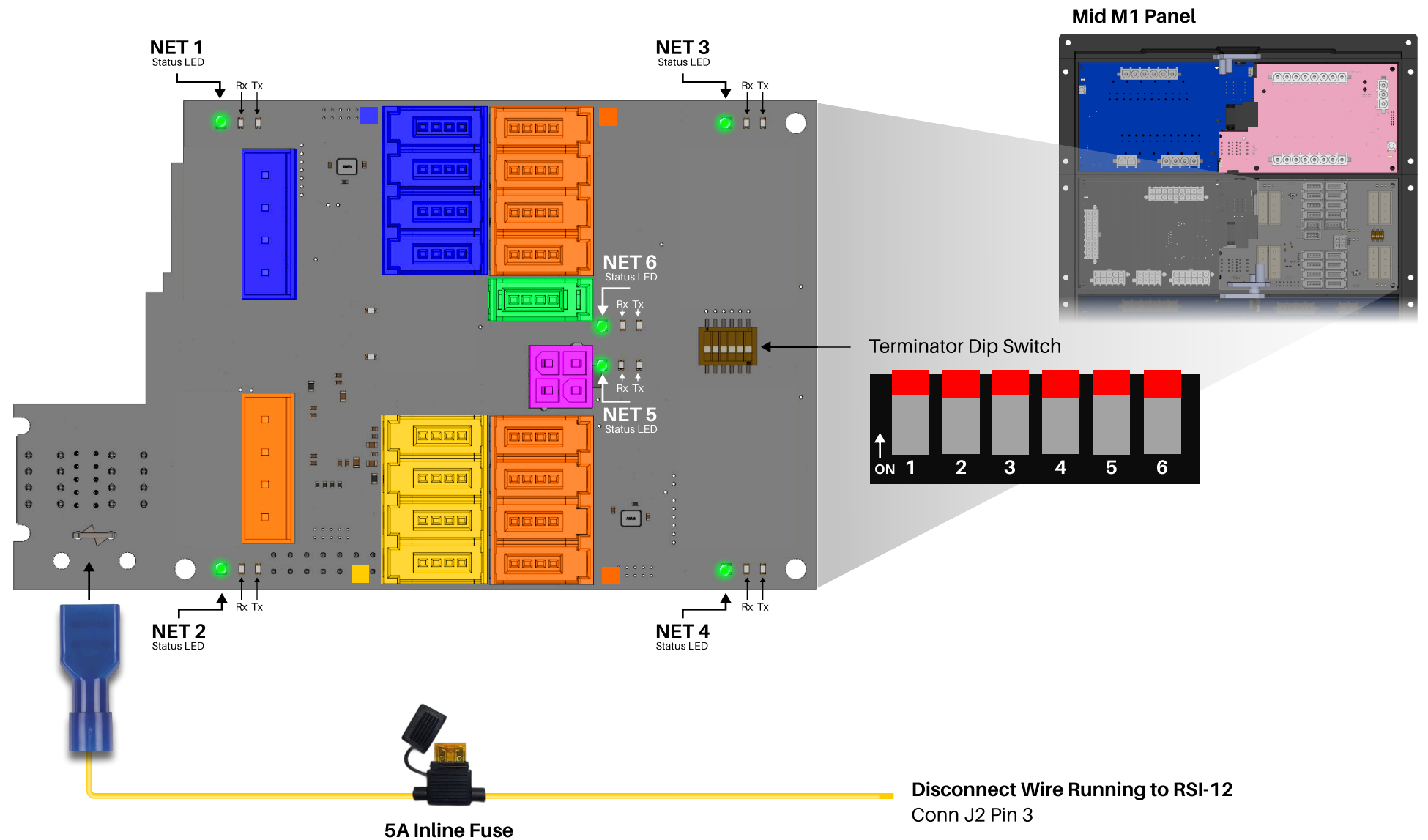
The yellow network is primarily the switch and screen network where most LCDs connect too.

NET 5 (Not Actually Pink)

NET 5 shown in pink only for visual purposes connects to the Xantrex Inverter.

NET 6 (Not Actually Green)

NET 6 shown in green only for visual purposes connects to the Valid Glass Dash.



Network LEDs

- **Solid Green**
Device is connected to network and communicating properly.
- **LED Off**
Device has no power or has failed completely.
- **Solid Red LED**
Device has gone offline and is not connected to the network

- **Fast Flashing Green (1 times / sec)**
Device is connected to network and communicating properly.
- **Slow Flashing Green (4 times / sec)**
Device is connected to network and communicating properly.
- **Alternating Red / Orange**
Device is connected to network and communicating properly.

- **Alternating Green / Orange**
Device is connected to network and communicating properly.

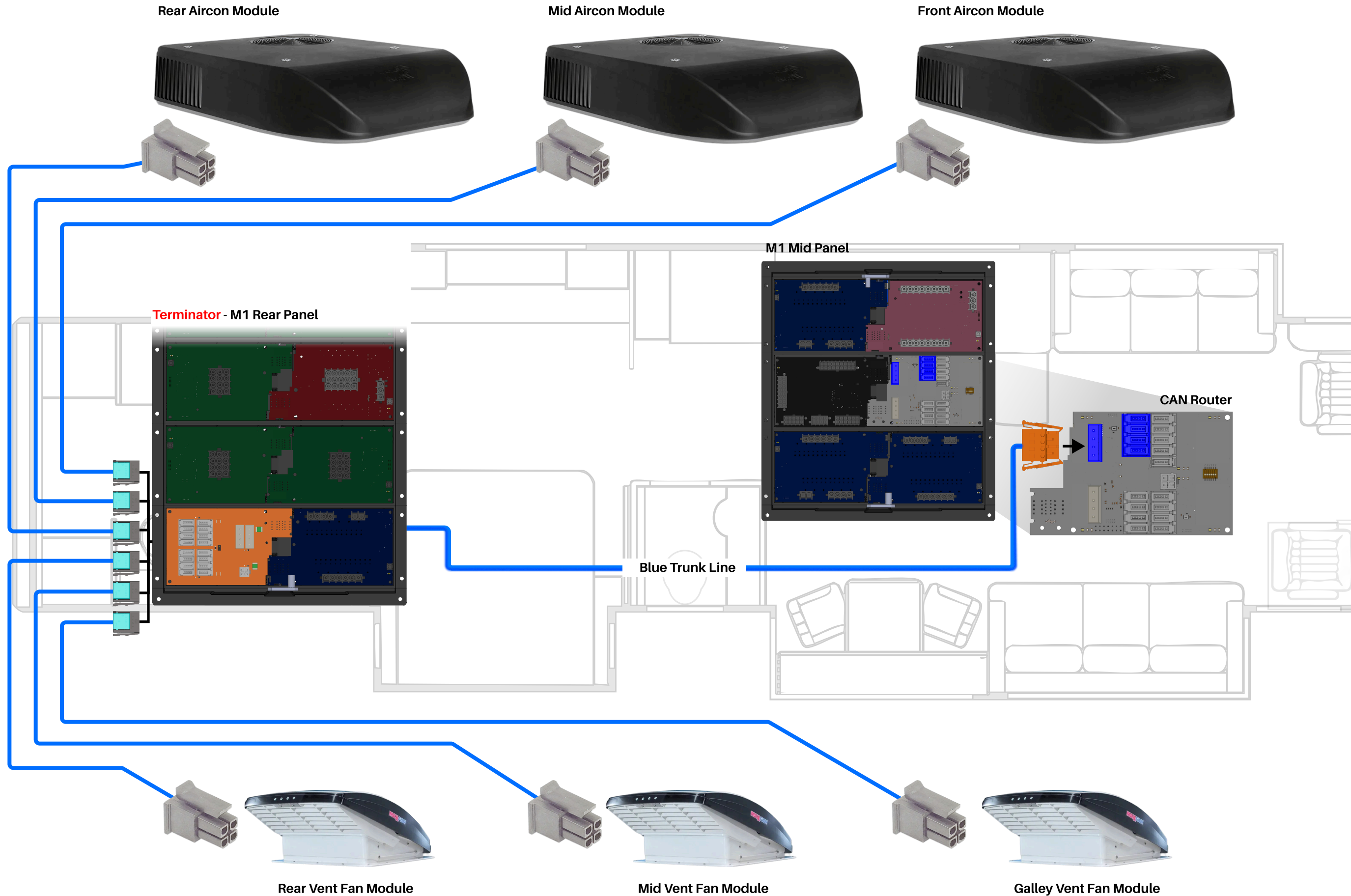
Understanding NET LEDs

This LED provides a quick, at-a-glance indication of that device's network status. By looking at the NET LEDs on multiple devices, you can assess the overall network health.

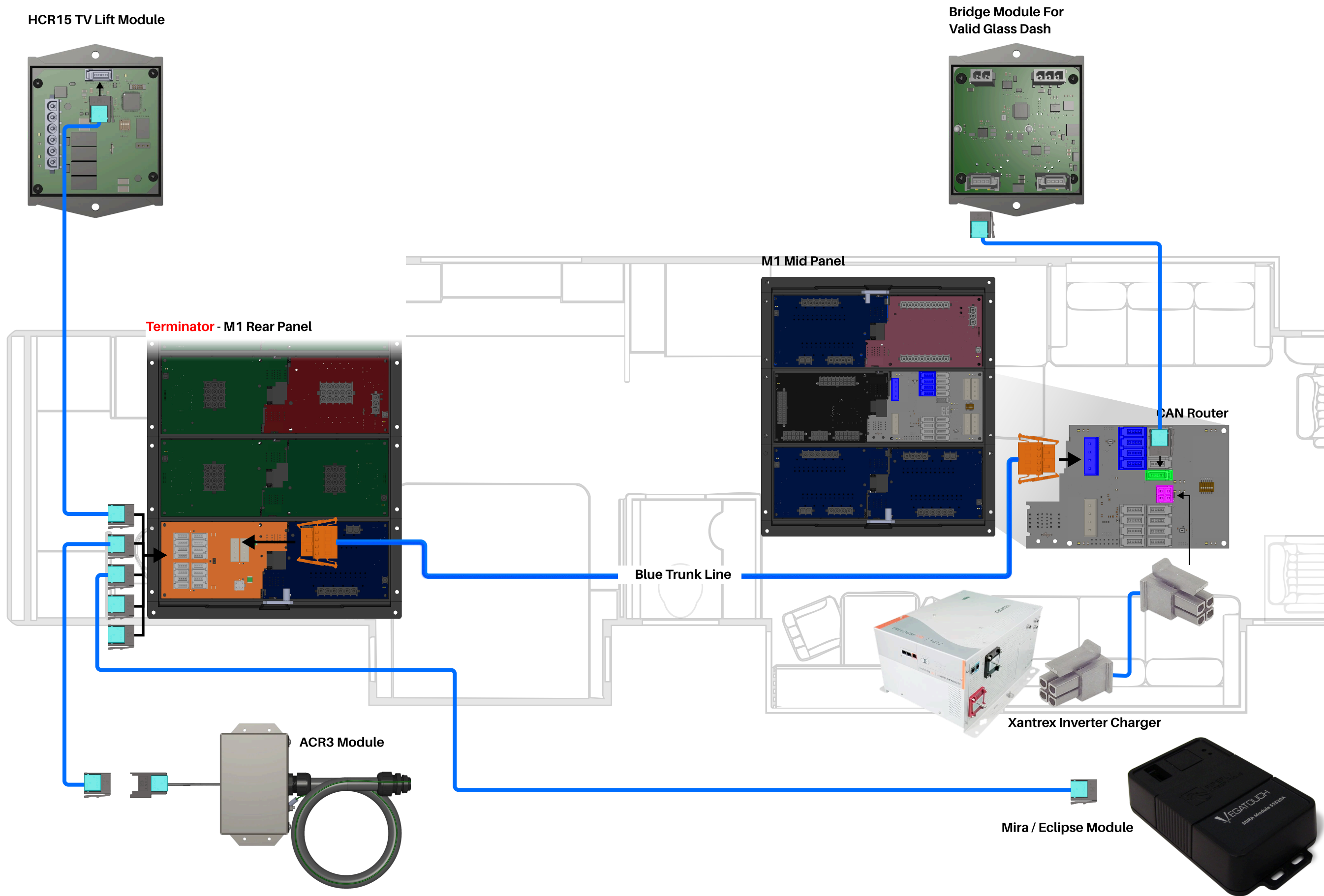
For example:

- If all NET LEDs are green, the network is healthy.
- If all NET LEDs are red, the network is not healthy and there is a communication issue.

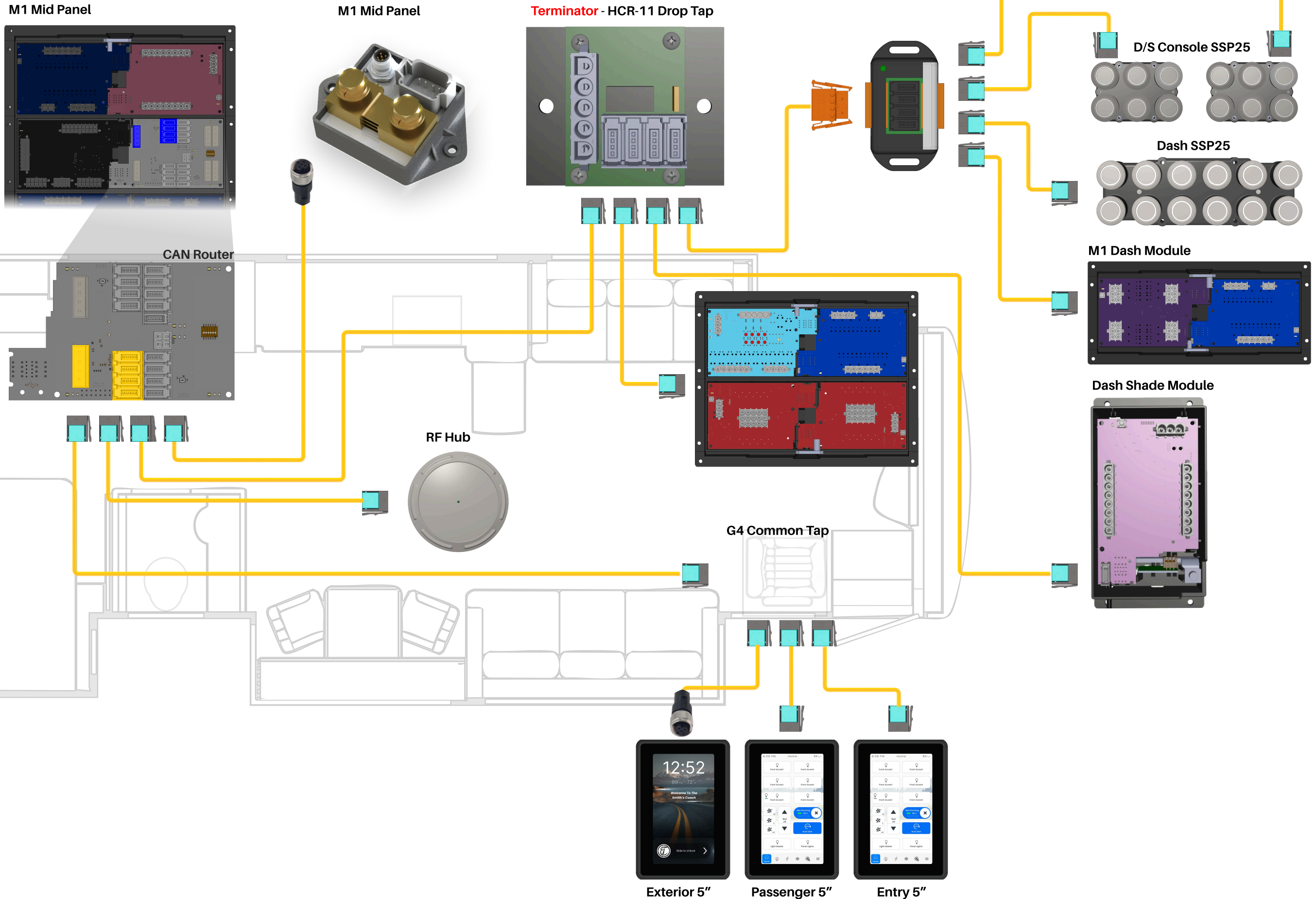
Blue Network



Blue Network



Yellow Network



Orange Network

M1 Mid Panel

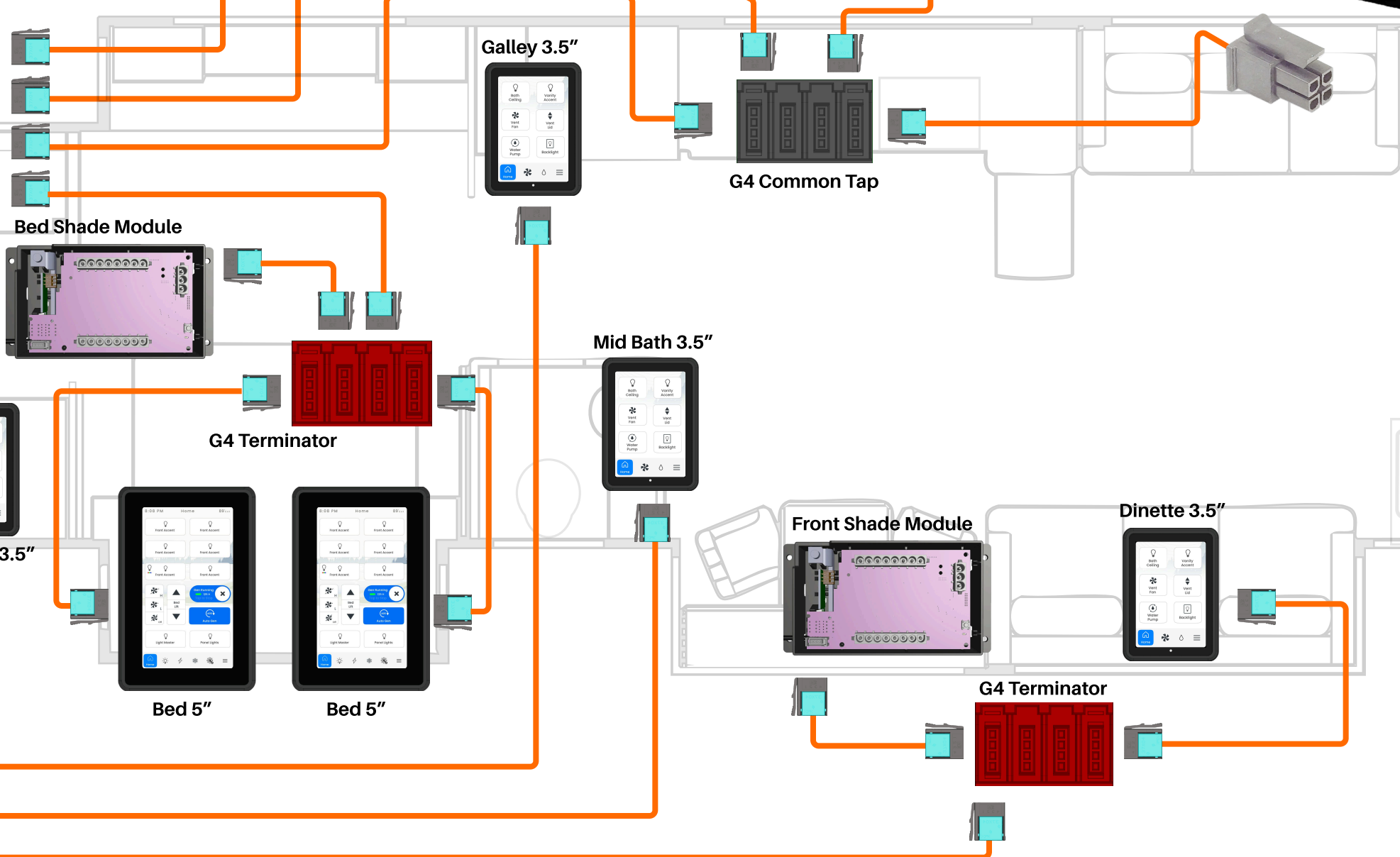
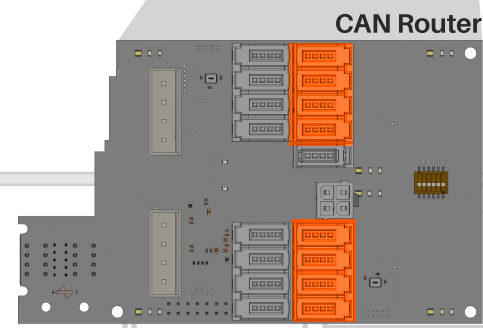
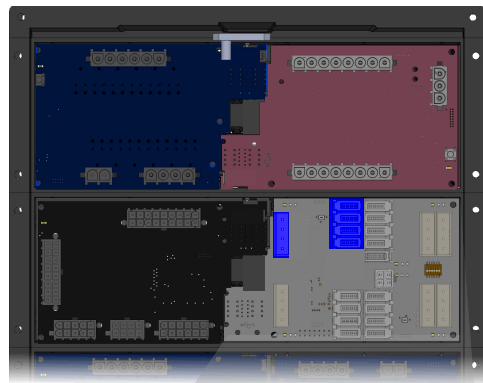
SeeLevel Tank Monitor

Aqua-Hot

Solar Controller One

Solar Controller Two

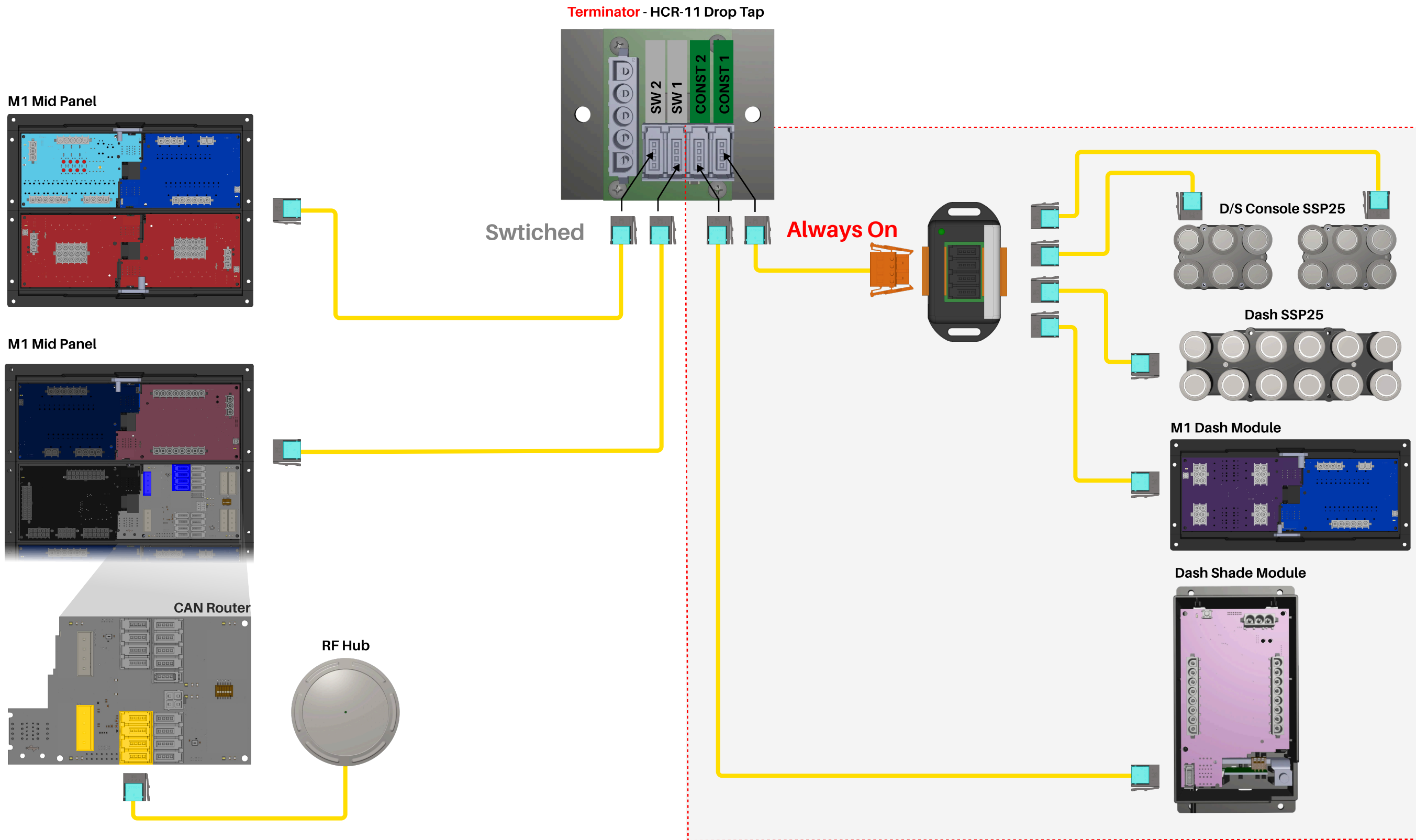
TRC Transfer Switch



Always On



• THE NETWORK CABLES INSERTED INTO THIS DROP TAP MUST BE IN ORDER. THE ITEMS ON THE RIGHT ARE ALWAYS ON. THE ITEMS ON THE LEFT TURN OFF WHEN THE BATTERY DISCONNECT IS TOGGLED. SWAPPING THE NETWORK CABLES AT THIS TAP WILL CAUSE ISSUES.



Additional Information

Connectors

Connectors		
 <p>Male Network End Spyder P/N: CON824204 Tiffin P/N: 5066157 Manufacturer P/N: 37104-2165-000 FL 100</p>	 <p>12 Pos - Mini Fit Jr Connector Manufacturer P/N: 770581-1 Matching Pin (16-20 AWG) Manufacturer P/N: 171639-1</p>	 <p>3 Pos - Mate-N-Lok Connector Manufacturer P/N: 350766-1 Matching Pin (14-20 AWG) Manufacturer P/N: 350550-1</p>
 <p>Female Network End Spyder P/N: CON824204 Tiffin P/N: 5066157 Manufacturer P/N: 37104-2165-000 FL 100</p>	 <p>16 Pos - Mini Fit Jr Connector Manufacturer P/N: 770583-1 Matching Pin (16-20 AWG) Manufacturer P/N: 171639-1</p>	 <p>4 Pos - Mate-N-Lok Connector Manufacturer P/N: 350779-1 Matching Pin (14-20 AWG) Manufacturer P/N: 350550-1</p>
 <p>4 Pos - Mini Fit Jr Connector Manufacturer P/N: 0039013042 Matching Pin (18-24 AWG) Manufacturer P/N: 0039000039</p>	 <p>18 Pos - Mini Fit Jr Connector Manufacturer P/N: 770584-1 Matching Pin (16-20 AWG) Manufacturer P/N: 171639-1</p>	 <p>5 Pos - Mate-N-Lok Connector Manufacturer P/N: 643406-1 Matching Pin (14-20 AWG) Manufacturer P/N: 350550-1</p>
 <p>8 Pos - Mini Fit Jr Connector Manufacturer P/N: 770579-1 Matching Pin (16-20 AWG) Manufacturer P/N: 171639-1</p>	 <p>2 Pos - Mate-N-Lok Connector Manufacturer P/N: 350777-1 Matching Pin (14-20 AWG) Manufacturer P/N: 350550-1</p>	 <p>6 Pos - Mate-N-Lok Connector Manufacturer P/N: 640581-1 Matching Pin (14-20 AWG) Manufacturer P/N: 350550-1</p>
 <p>10 Pos - Mini Fit Jr Connector Manufacturer P/N: 770580-1 Matching Pin (16-20 AWG) Manufacturer P/N: 171639-1</p>	 <p>2 Pos - Mate-N-Lok Connector Manufacturer P/N: 350777-1 Matching Pin (14-20 AWG) Manufacturer P/N: 350550-1</p>	 <p>8 Pos - Mate-N-Lok Connector Manufacturer P/N: 640582-1 Matching Pin (14-20 AWG) Manufacturer P/N: 350550-1</p>

Important Contact Information

• If this document has been printed the numbers, emails, and websites may be out of date.

Spyder Controls Corp: info@spydercontrols.com - www.spydercontrols.com - 866-919-9092

Firefly integrations (Mobile App): support@fireflyint.com - www.fireflyint.com - 574-825-4600

Tiffin Service: www.tiffinmotorhomes.com - 256-356-0261

Dometic (Solar Controllers): dometic.com - 1-800-544-4881

Aqua-Hot (Water Heater): www.aquahot.com - 574-247-9235



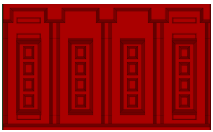


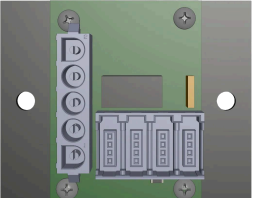

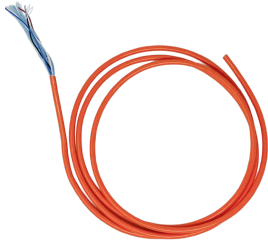





Garnet Industries (SeeLevel Tank Sensors): www.garnetinstruments.com - 1-800-617-7384

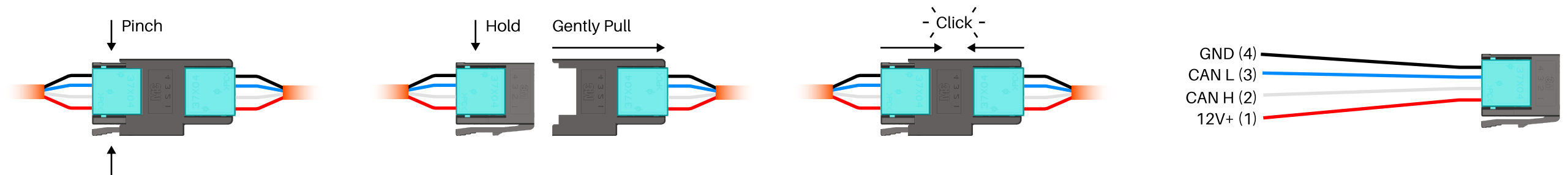
Xantrex (Inverter/Charger): www.xantrex.com - 1-800-670-0707

Valid Manufacturing (Glass Dash): validmfg.com - 1-888-632-6477 - **24HR Service** 250-804-1247

Airxcel (Ventfan / AC Units): Airxcel.com - 574-247-9235

Connectors & Tools

Connectors		
 <p>6 Pos - Mate-N-Lok Connector Manufacturer P/N: 1-480704-0</p> <p>Matching Pin (14-20 AWG) Manufacturer P/N: 350550-1</p>	 <p>Wago Connector Tiffin P/N: 5015508 Manufacturer P/N: 231-304/037-000</p>	 <p>G4 Terminator Drop Tap Spyder P/N: BBCKZK400 Tiffin P/N: 5051936</p>
 <p>12 Pos - Mate-N-Lok Connector Manufacturer P/N: 1-480708-0</p> <p>Matching Pin (14-20 AWG) Manufacturer P/N: 350550-1</p>	 <p>Wago Hook Tool Manufacturer P/N: 231-131</p>	 <p>Terminator - HCR-11 Drop Tap Spyder P/N: BMODZGAN6-1 Tiffin P/N: 5131310</p>
 <p>15 Pos - Mate-N-Lok Connector Manufacturer P/N: 350736-1</p> <p>Matching Pin (14-20 AWG) Manufacturer P/N: 350550-1</p>	 <p>RV-C Cable (By FT) Tiffin P/N: 5064775</p>	<p>How To Properly Crimp RV-C Network Ends Video</p>  <p>Scan with phone camera</p>
 <p>Mate-N-Lok Pin Extractor Manufacturer P/N: 305183</p>	 <p>RV-C Cable (20ft W/ MALE ENDS) Spyder P/N: BSPLZL200-20</p>	
 <p>Mini Mate-N-Lok Pin Extractor Manufacturer P/N: 189727-1</p>	 <p>G4 Common Drop Tap Spyder P/N: BBCKZK200 Tiffin P/N: 5016592</p>	



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