2027 Tiffin Bus

Integration Schematics

www.spydercontrols.com



Revision 3 May 1, 2026

SPYDER CONTROLS CORP

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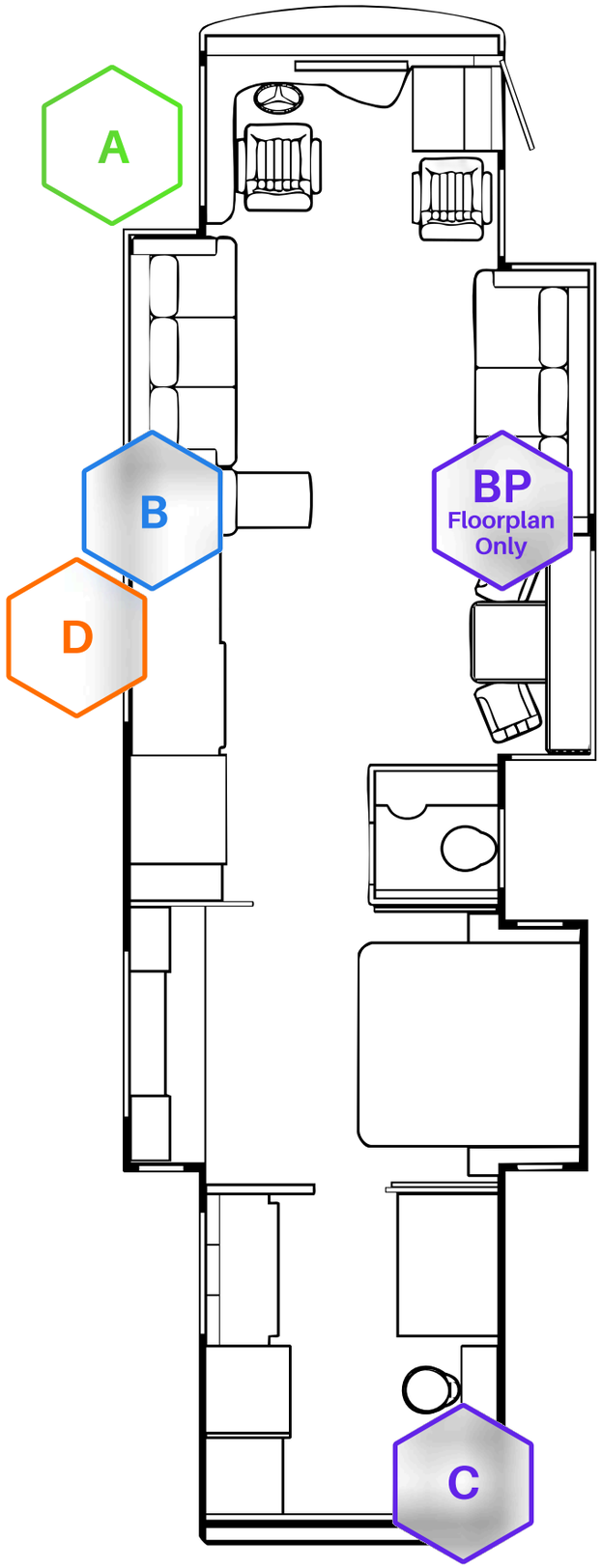
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Connection Legend

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



A

Front M1 Panel — D/S Ext Compartment

Spyder PN

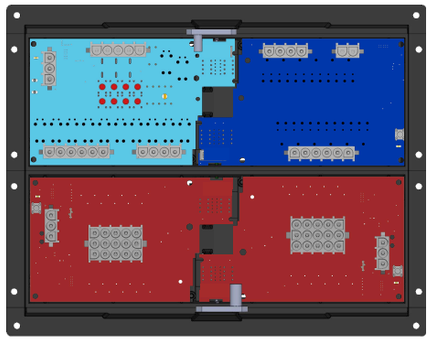
BENCZM2DS

Tiffin PN

5126983

Dimensions

10″ X 7.8″



B

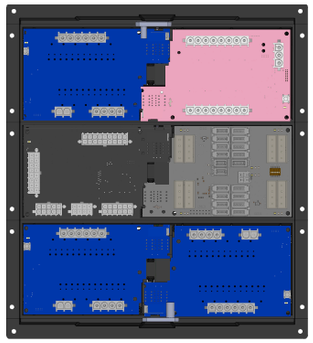
Mid M1 Panel — Inverter Bay

Spyder PN

BENCZM4C0

Tiffin PN

5184812



C

BP
Floorplan
Only

Rear M1 Panel — Rear Closet

Spyder PN

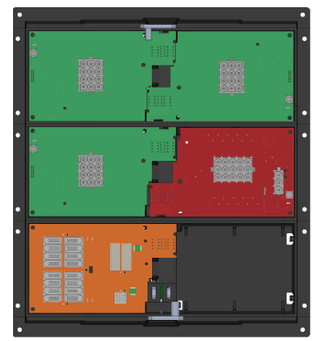
BENCZM6DP

Tiffin PN

5127300

Dimensions

9.1″ X 10″



D

DCD Panel — Inverter Bay

Spyder PN

BENCZ38DP-3

Tiffin PN

5181454

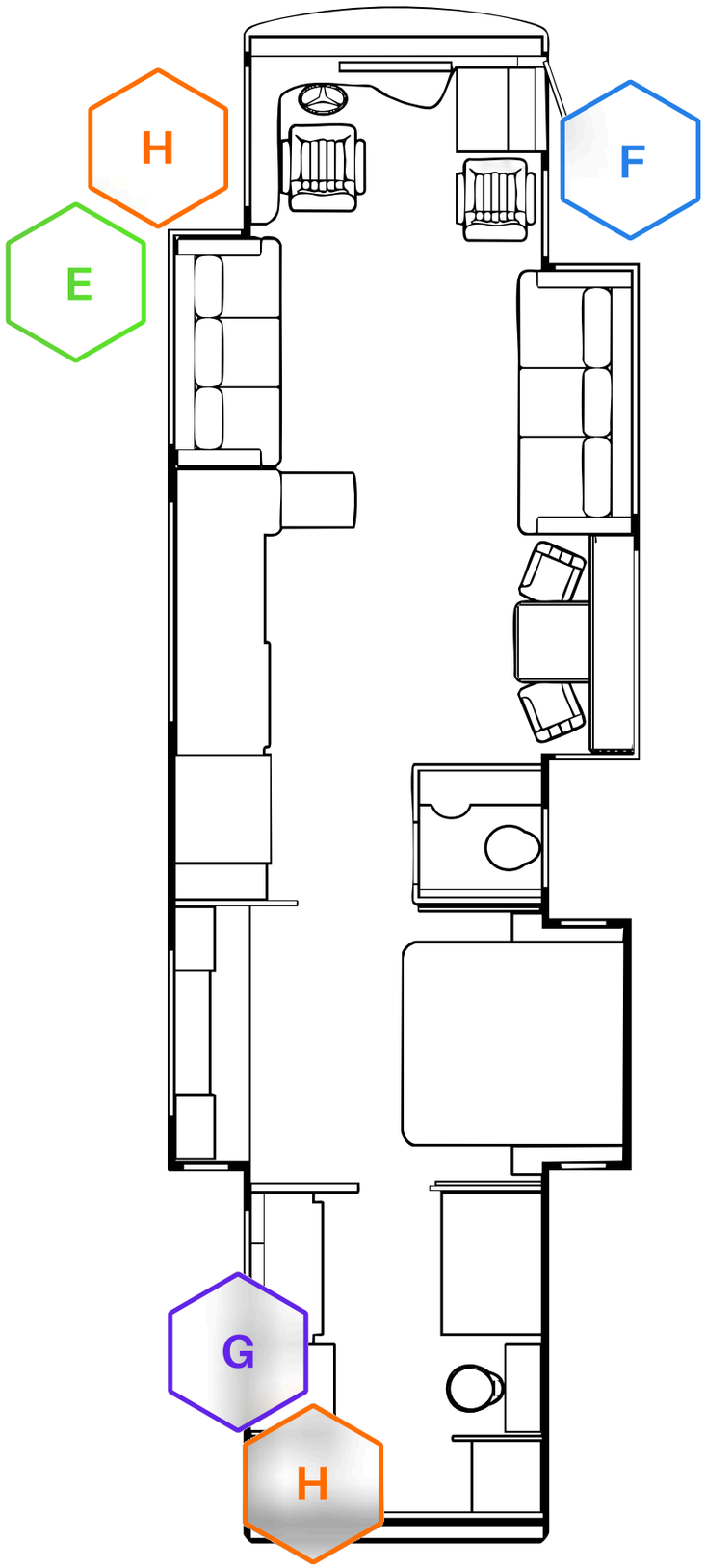
Dimensions

13.5″ X 12.5″



SPYDER CONTROLS CORP

Component Locations



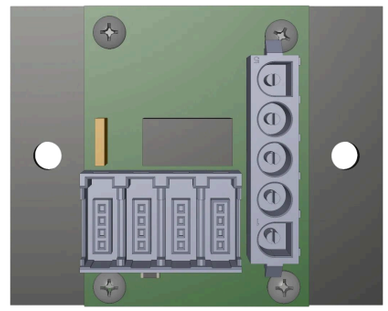
E

Terminator HCR-11 Drop — Front D/S Compartment

Spyder PN
BMODZGAN6-1

Tiffin PN
5131310

Dimensions
2.5″ X 2″



F

Mira Module (Not Manufactured By Spyder) — Front O/H Cabinet

Tiffin PN
5114034

Dimensions
4″ X 2.5″



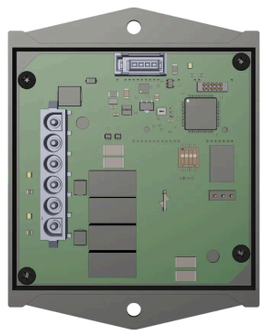
G

HCR-15 TV Lift — Rear Closet

Spyder PN
BMODZQFCN-A

Tiffin PN
5134953

Dimensions
3″ X 3″



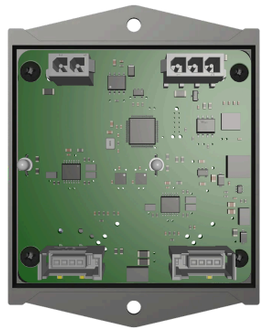
H

Bridge Module — Behind Dash

Spyder PN
BMODZTCT0

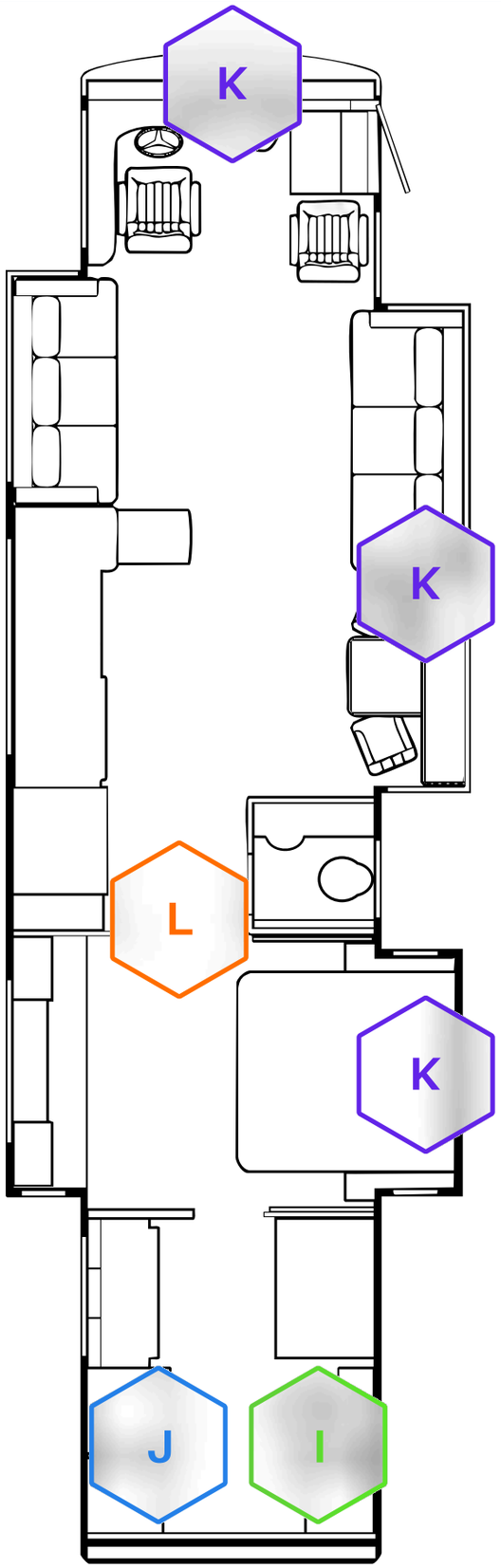
Tiffin PN
5127271

Dimensions
3″ X 3″



SPYDER CONTROLS CORP

Component Locations



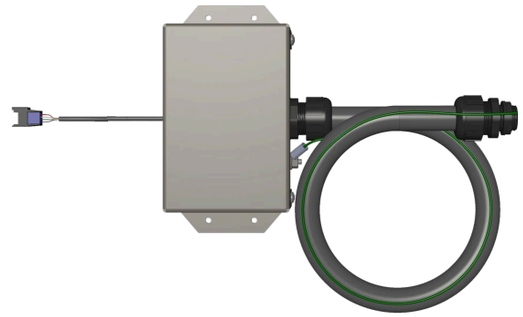
I

ACR3 — Hall Wall

Spyder PN
BMODZYACG-B

Tiffin PN
5091114

Dimensions
6″ X 4.8″



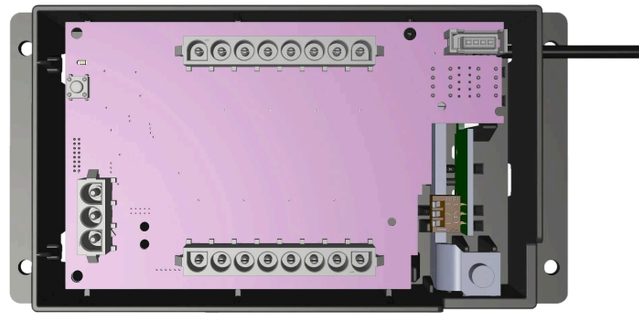
K

Shade Module

Spyder PN
BMODZMKM1-T

Tiffin PN
5127302

Dimensions
3.5″ X 6.5″



L

RF Hub — Rear Closet

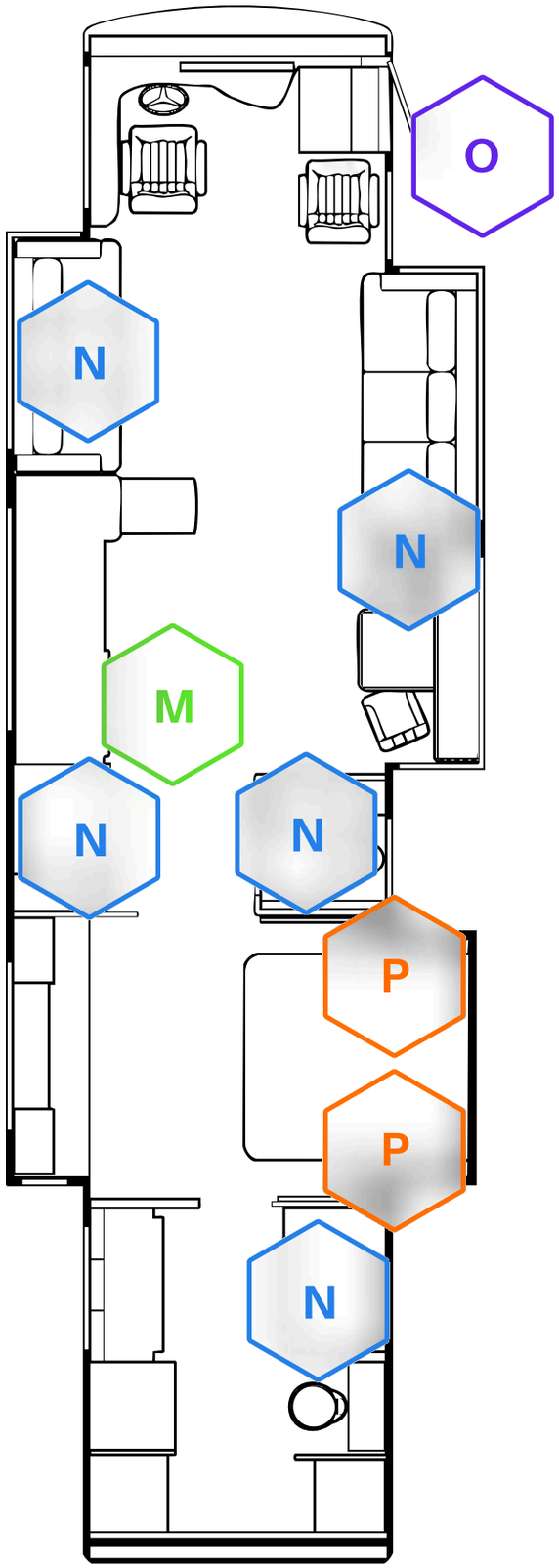
Spyder PN
BMODZRFT0-W

Tiffin PN
5141264

Dimensions
5.1″ Diameter



Component Locations



M

10″ LCD — Hall Wall

Spyder PN

BSSPZZXEF-1

Tiffin PN

5127306

Dimensions

10.5″ X 7.3″



N

3.5″ LCD

Spyder PN

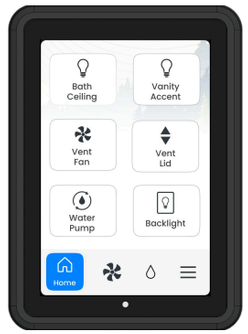
BSSPZZTED-1

Tiffin PN

5133664

Dimensions

4.5″ X 2.9″



O

5″ Exterior LCD — Entry Exterior

Spyder PN

BSSPZZZEN

Tiffin PN

5145817

Dimensions

5.5″ X 3.8″



P

5″ Bedside LCD — Bedside

Spyder PN

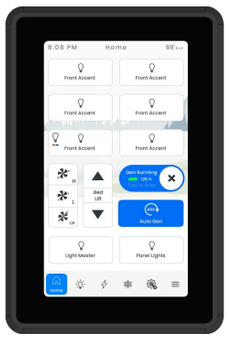
BSSPZZREK

Tiffin PN

5127269

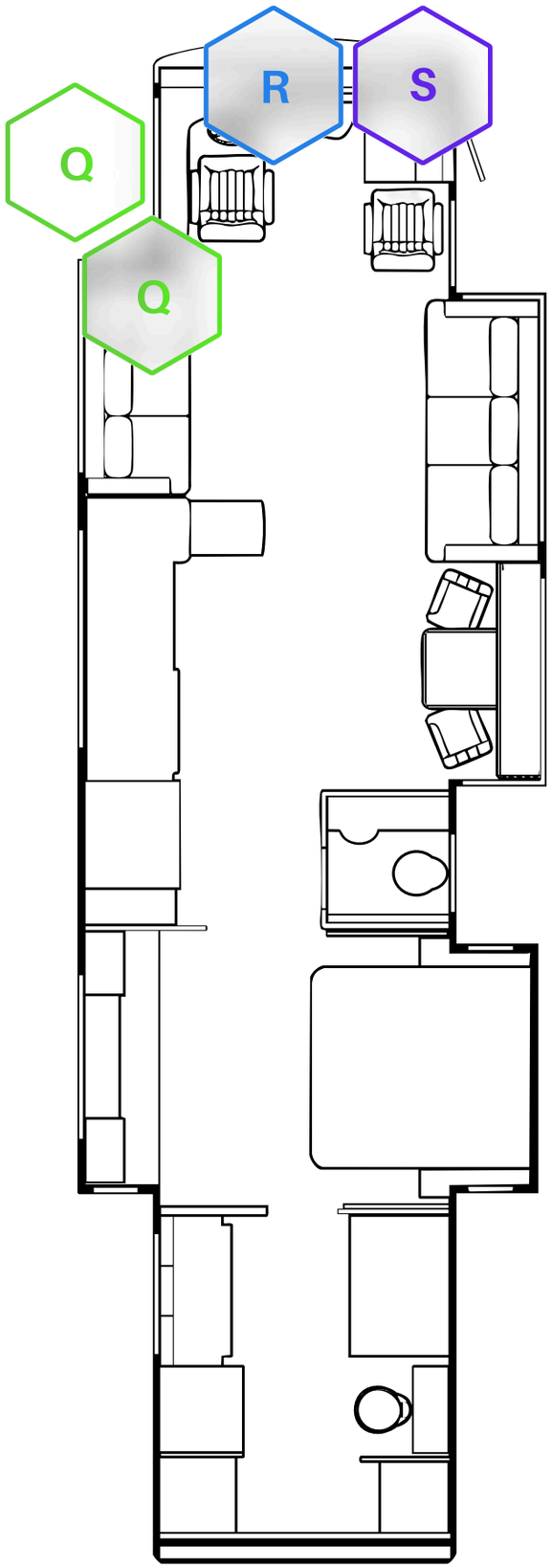
Dimensions

5.5″ X 3.8″



SPYDER CONTROLS CORP

Component Locations



Q

2 X 3 Button SSP25 — D/S Dash

Spyder PN

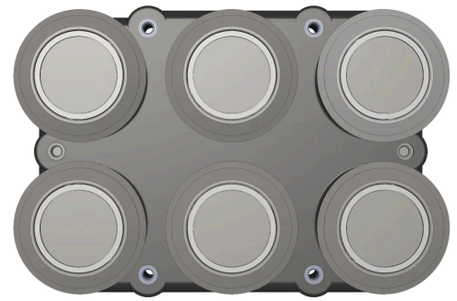
1. BASPZ523HDT0-1A
2. BASPZ523HDT0-1B

Tiffin PN

1. 5169653
2. 5169652

Dimensions

3.6″ X 2.8″



R

2 X 6 Button SSP25 — Dash Center

Spyder PN

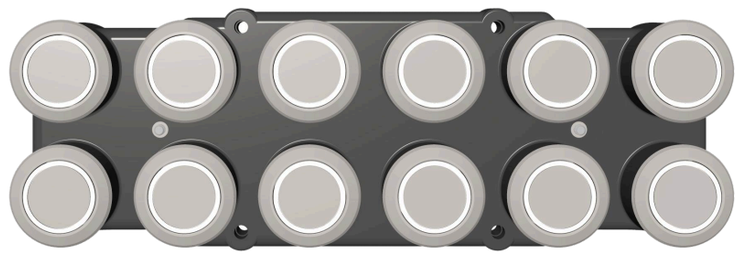
BASPZ526HDT0-1A

Tiffin PN

5169651

Dimensions

7.3″ X 2.8″



S

M1 Dash Module — Behind Dash

Spyder PN

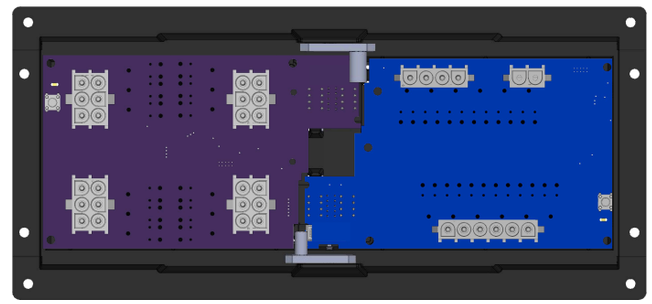
BENCZM7C1

Tiffin PN

5170290

Dimensions

10.8″ X 3.5″



M1 Pinouts

Bus Dash M1 Panel Pinout

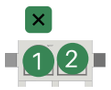
J3

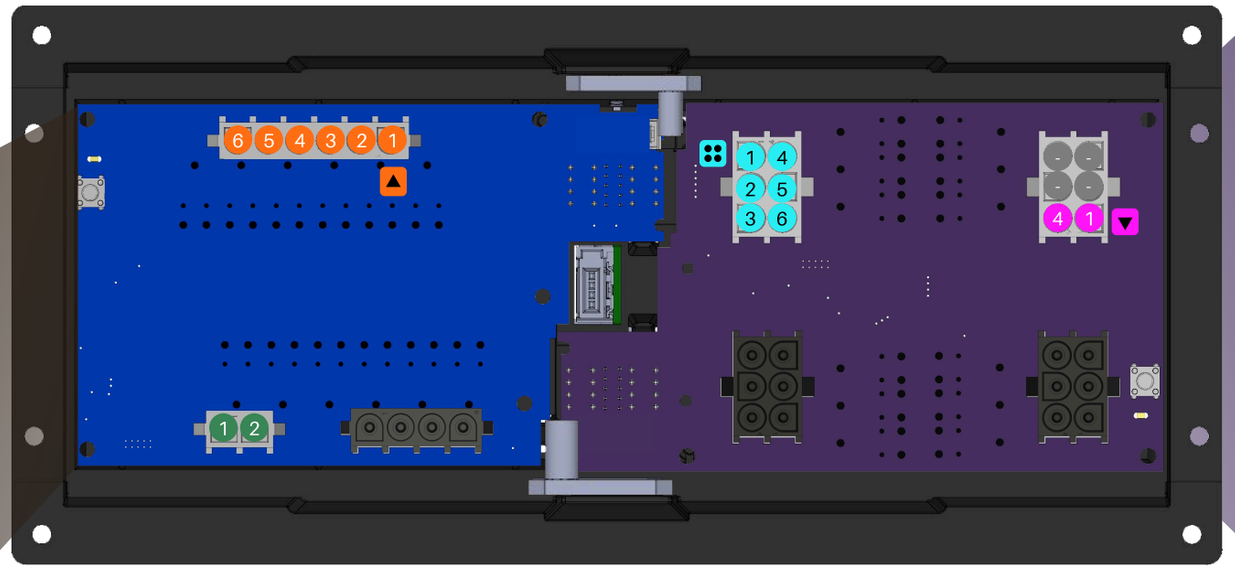
1 Toll Window Open
2 Toll Window Close
3 Drivers Fan High
4 Drivers Fan Low
5 Dock Light
6 D/S Map Light



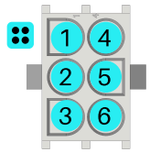
J2

1 Mirror Heat 1
2 Mirror Heat 2



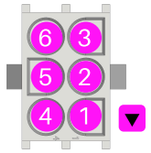


J6



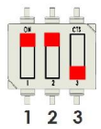
Air Horn Out 1
Tag Dump Out 2
Tag Auto / Off Out 3
Air Horn In 4
Tag Dump In 5
Tag Auto / Off In 6

J5



ATC Override In 1
Spare -
Spare -
ATC Override Out 4
Spare -
Spare -

Dip Switch Settings



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

SPYDER CONTROLS CORP

Bus Front M1 Panel Pinout

J5

1 Awning Constant
2 Undercoach Constant
3 Slide Breaker #1
4 Slide Breaker #2
5 Slide Breaker #3



J6

1 P/S FR Slide EXT
2 P/S FR Slide RET
3 D/S FR Slide EXT
4 D/S FR Slide RET



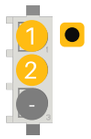
J7

1 P/S RR Slide EXT
2 P/S RR Slide RET
3 D/S RR Slide EXT
4 D/S RR Slide RET
5 Hydraulic Pump
-



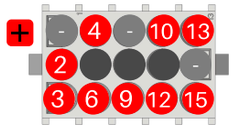
J1

1 Ignition (12V)
2 Park Brake (GND)
-



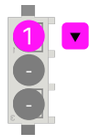
J3

-
2 Camera / Radio (IGN)
3 Jack Buzzer (IGN)
4 Entry Step SW
6 CB / Satellite
-
9 Panel Lamp Head LT (IGN)
10 HVAC Denso (IGN)
12 12V Outlet 1 / USB PWR
13 TV Relay / Fridge / Dash Shd Mod (IGN)
-
15 HCR-11 Power



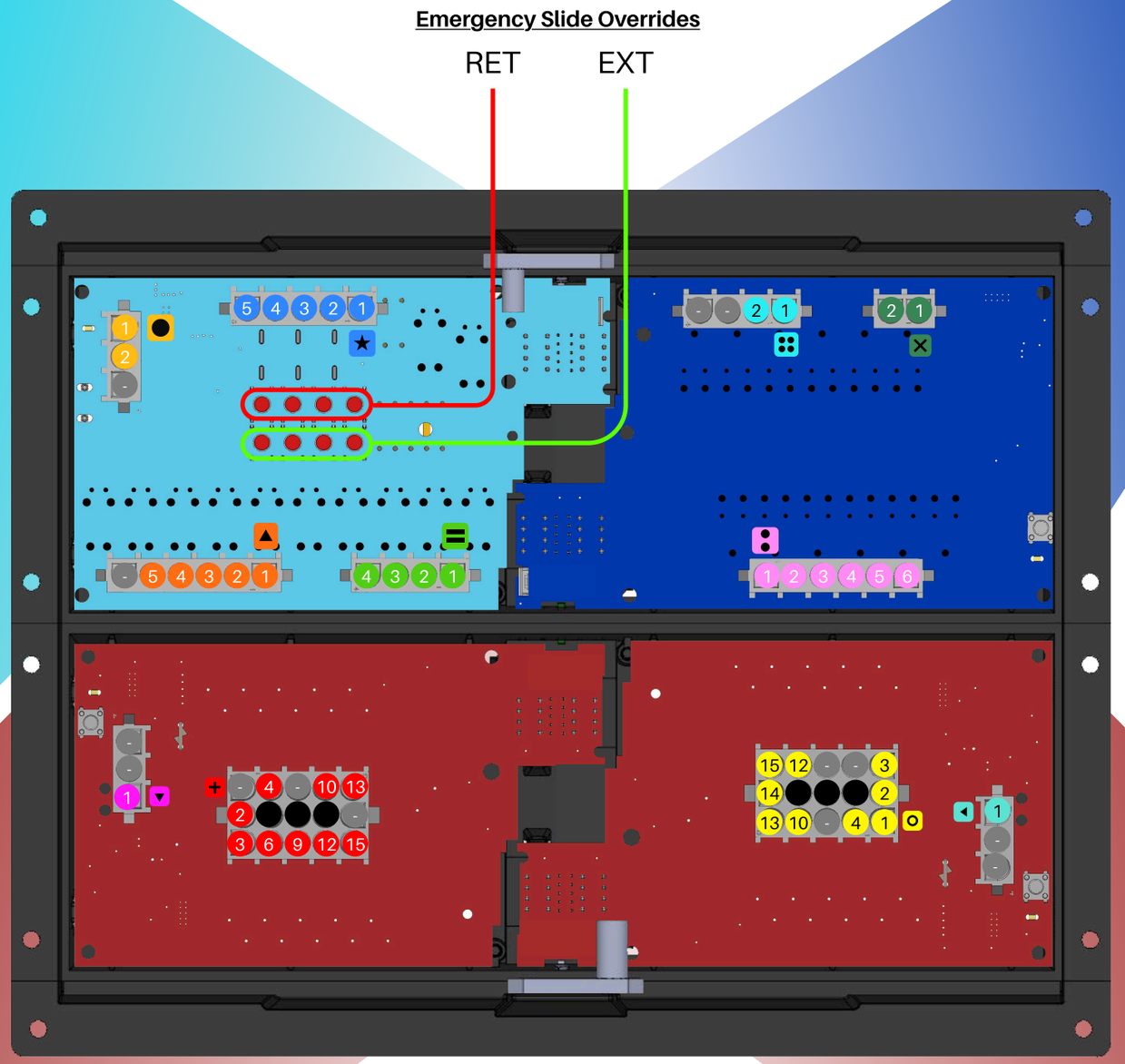
J8

1 Ignition (12V)
-
-

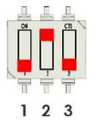


Emergency Slide Overrides

RET EXT

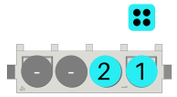


Dip Switch Settings



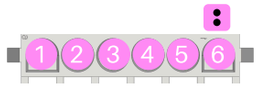
1 - Off (Down)
2 - On (Up)
3 - Off (Down)

J7



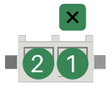
Porch Light 1
P/S Map Light 2
-
-

J3



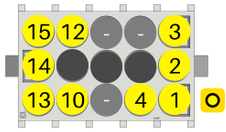
Windshield Accent 1
Water Pump 2
Headlights 3
Door/Assist Handle 4
Slide Box Lights 5
Under Coach 6

J2



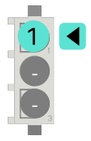
Awning Light 1
Road Light 2

J3



HVAC Denso 1
12V Outlet 2/ USB PWR 2
Engine Block Heater 3
Radio Mem / XM PWR 4
-
-
-
Dash Shade Module 10
D/S Mirror PWR (IGN) 12
Seat Power #2 13
Seat Power #1 14
P/S Mirror PWR (IGN) 15

J8



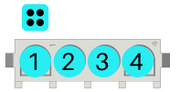
Ignition (12V) 1
-
-

SPYDER CONTROLS CORP

Bus Mid M1 Panel Pinout

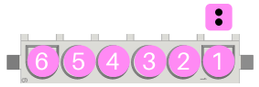
J7

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



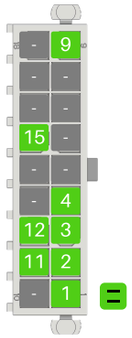
J2

1	Step Cover EXT
2	Step Cover RET



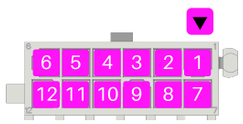
J2

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)



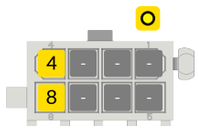
J4

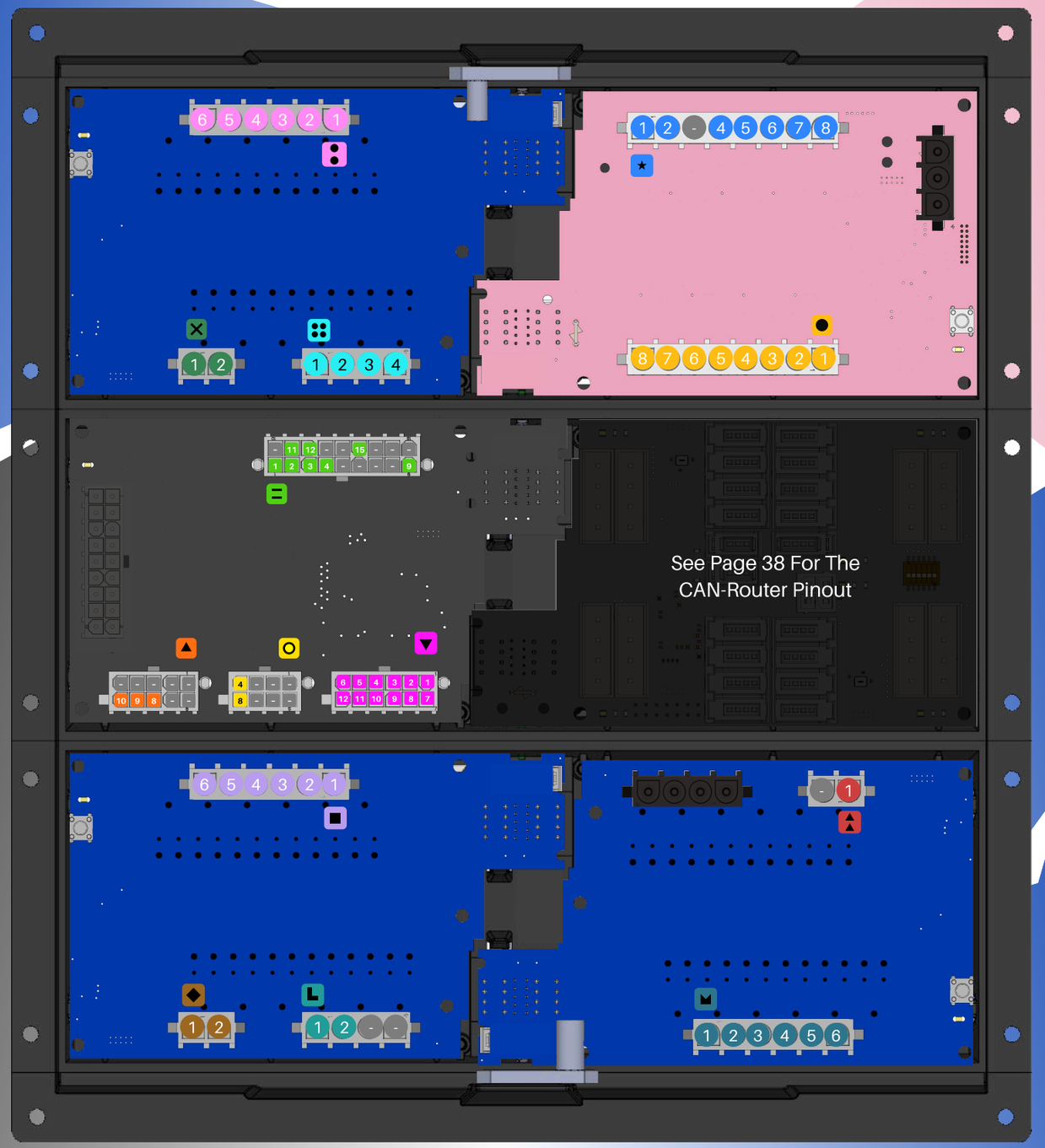
1	FR Floor HT Therm Sig.
2	RR Floor HT Therm Sig.
3	Front A/C Therm Sig.
4	Mid A/C Therm Sig.
5	Rear A/C Therm Sig.
6	Bay Therm Sig.
7	FR Floor HT Therm GND
8	RR Floor HT Therm GND
9	Front A/C Therm GND
10	Mid A/C Therm GND
11	Rear A/C Therm GND
12	Bay Therm GND



J5

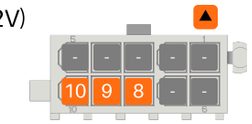
4	Ext Temp Sig.
8	Ext Temp GND



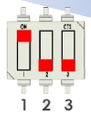


J6

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

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



J2

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



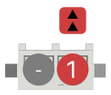
J3

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



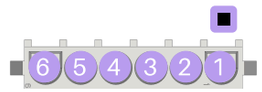
J2

1	Hose Reel Retract
-	



J3

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



J7

1	FWD Awning EXT
2	FWD Vanity RET
-	
-	



J2

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

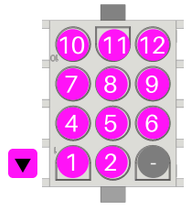


SPYDER CONTROLS CORP

Bus Rear M1 Panel Pinout

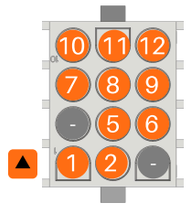
J1

1	Entry Light
2	Main OH/ Living Light
-	
4	PS Ceiling Light
5	DS Ceiling Light
6	Dash Accent Light
7	Front Sconce Light
8	Rear Sconce Light
9	D/S Slide Light
10	P/S Slide Light
11	Front Courtesy Light
12	Rear Courtesy Light



J2

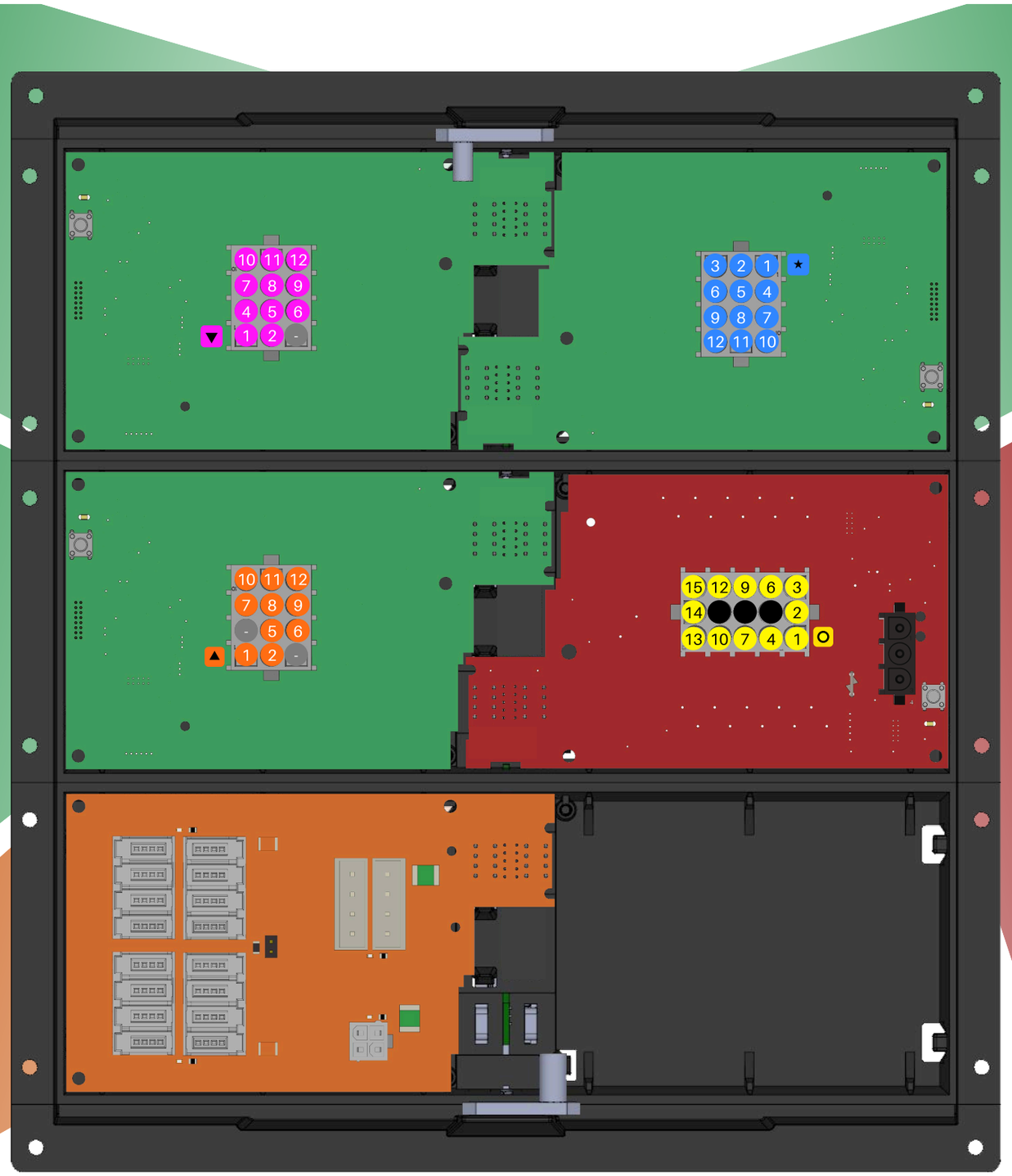
1	TV Accent Light
2	Closet Light
-	
-	
5	Floor Heat Front Zone
6	Floor Heat Rear Zone
7	Auto Water Fill
8	Fireplace Override
9	Rear TV Lift Up
10	Rear TV Lift Down
11	Ceiling Fan High
12	Ceiling Fan Low



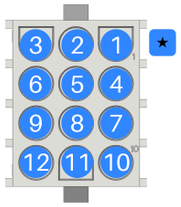
Network Card

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.

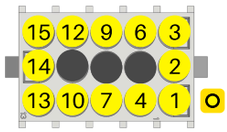


J1



Bedroom Ceiling Light	1
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

J3



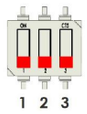
FR/RR TV Lift	1
Basement 12V PWR/Ext TV 12V	2
Seelevel	3
Truma Water Heater	4
Front Furnace	6
Bed Slide /Wall USB	7
AC Relay Sw/Gly Motn LT	9
FR Pass Slide/ Dinette Shd	10
Switcher /IR Blaster	12
Mid Toilet	13
Rear Furnace	14
Vent Fan Power	15

J8



Not Used	-

Dip Switch Settings

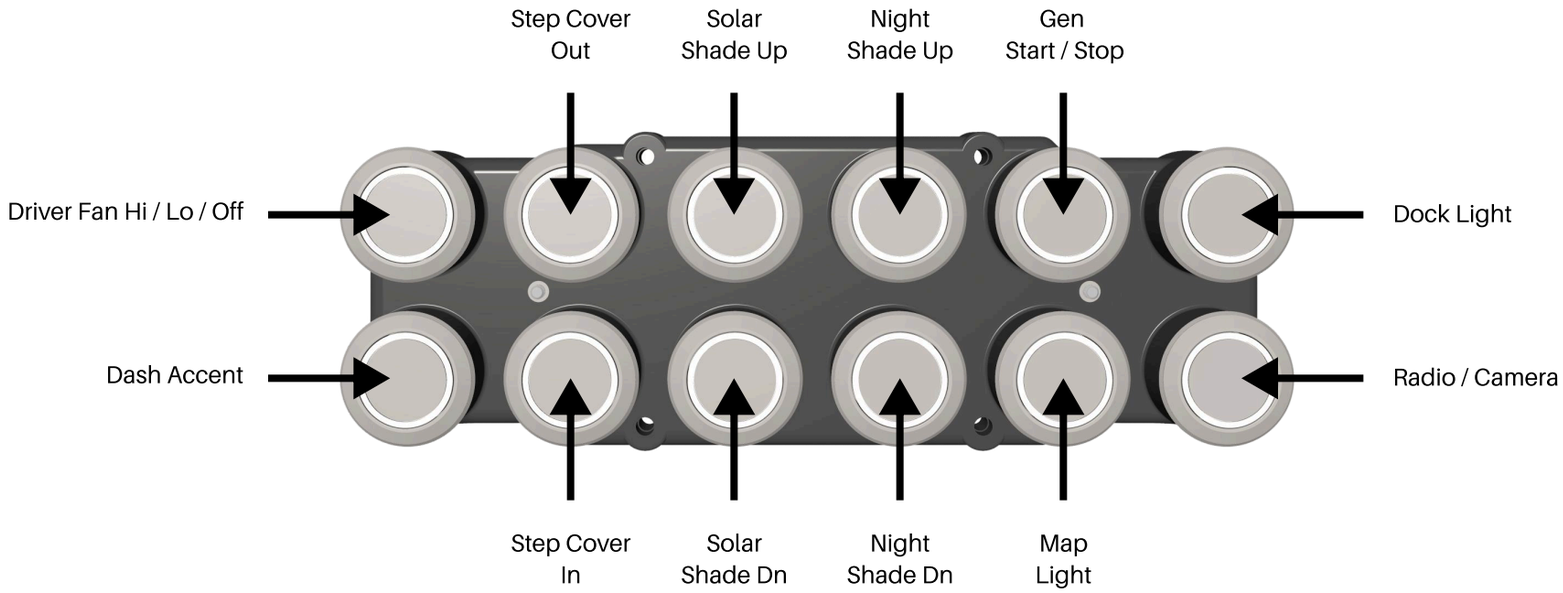


1 - Off (Down)
2 - Off (Down)
3 - Off (Down)

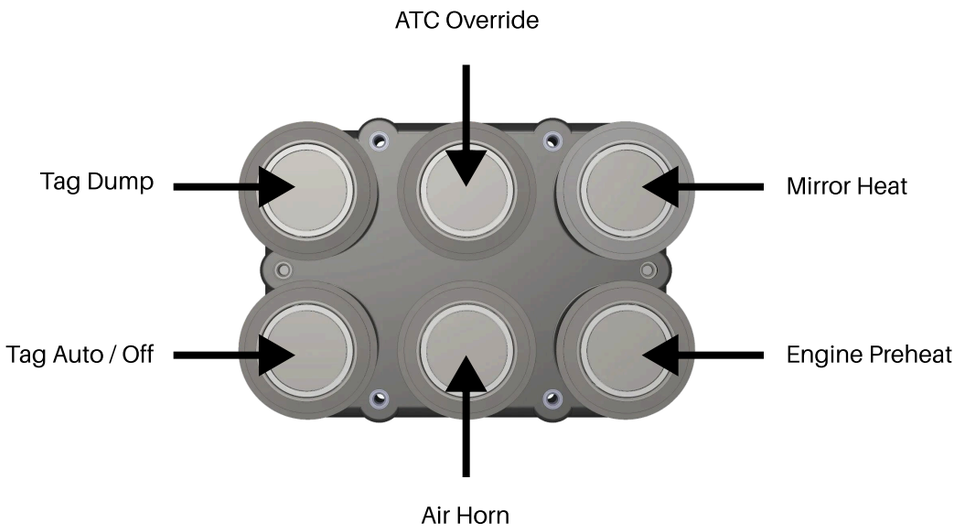
SPYDER CONTROLS CORP

SSP25 Button Layout

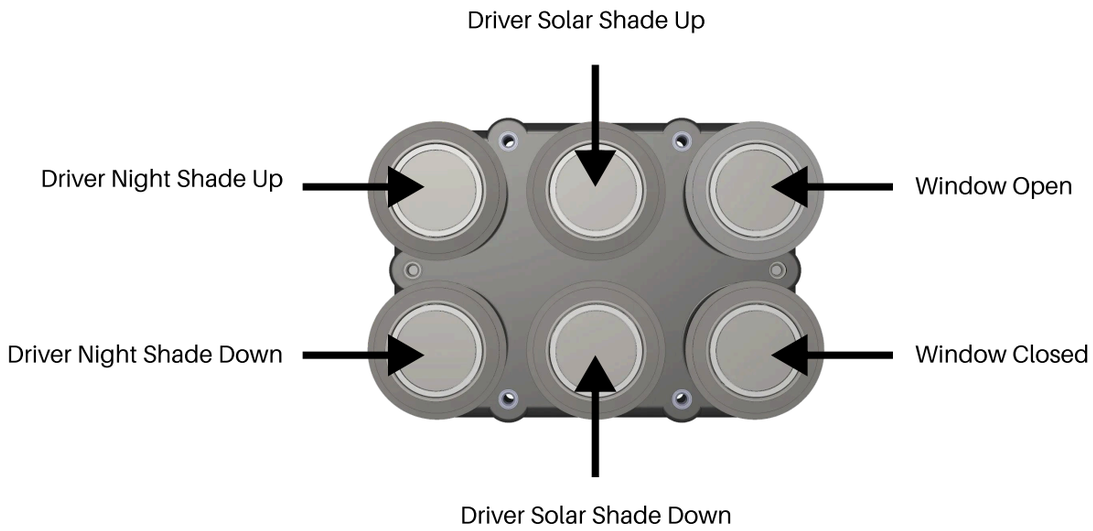
Dash SSP25



D/S Console SSP25

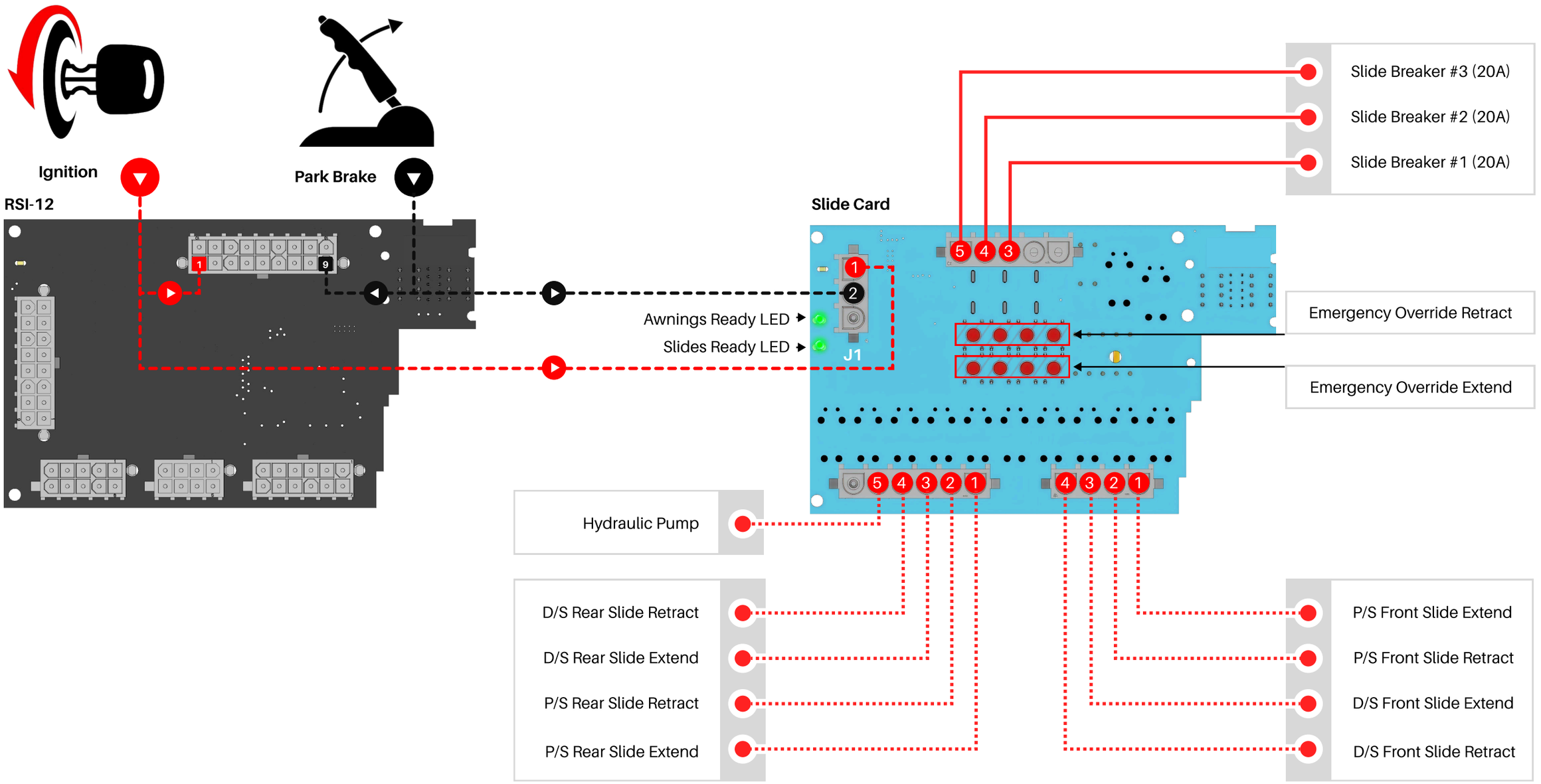


D/S Console SSP25



Mechanical Systems

Slides



Slide Safety And Overrides

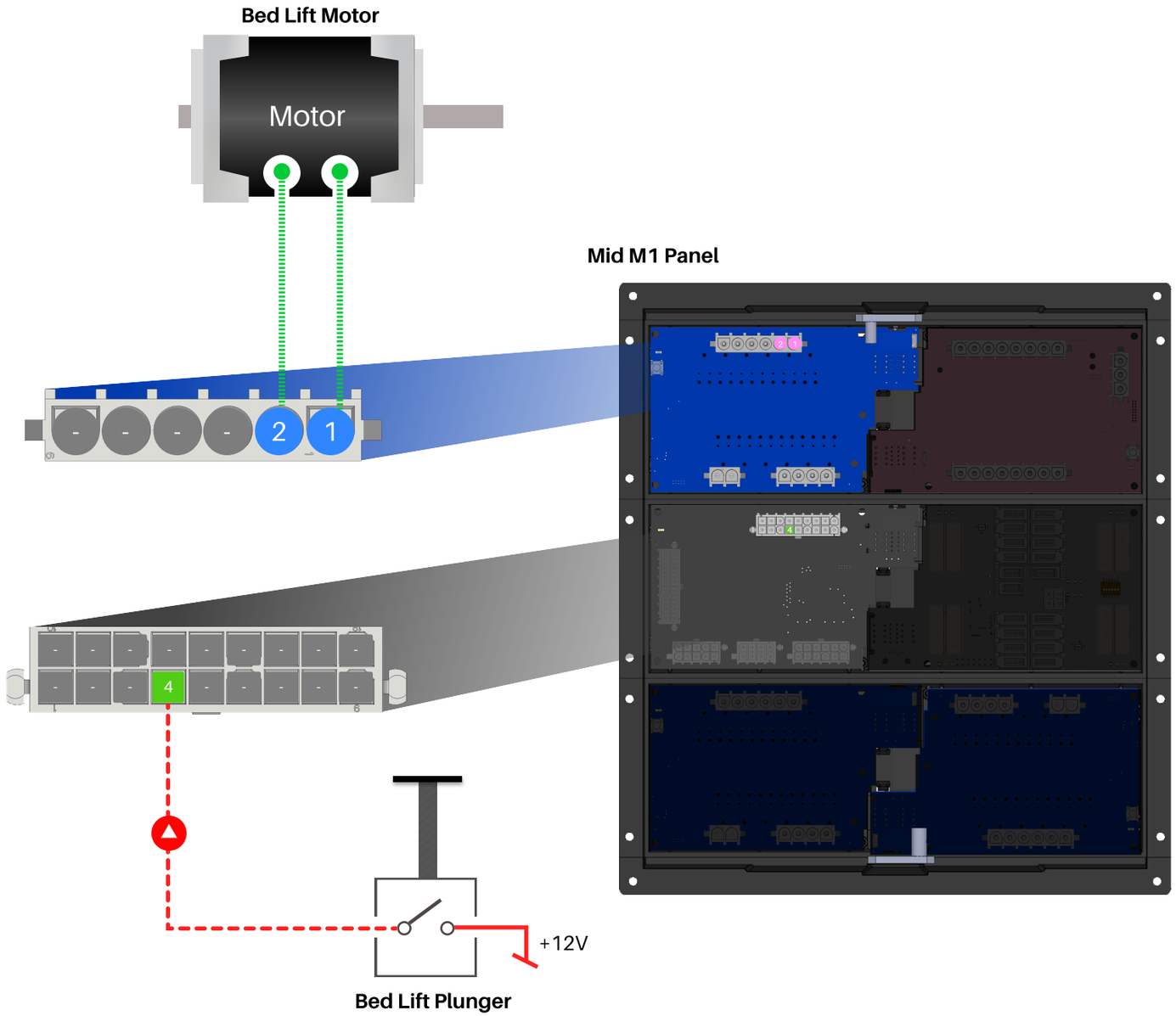
To ensure safe and predictable slide operation, several safety measures are built into the Spyder system. The core of these protections is the **park brake and ignition interlock**.

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.

Bus Bed Lift

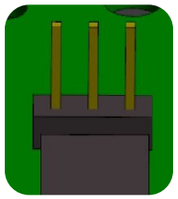
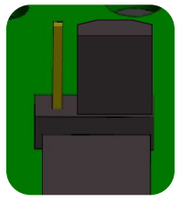


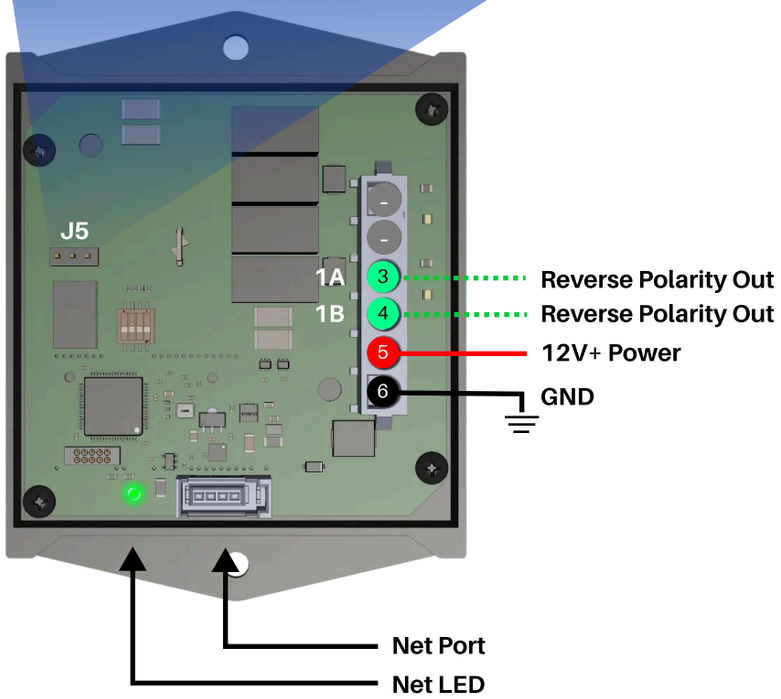
Bed Lift Operation

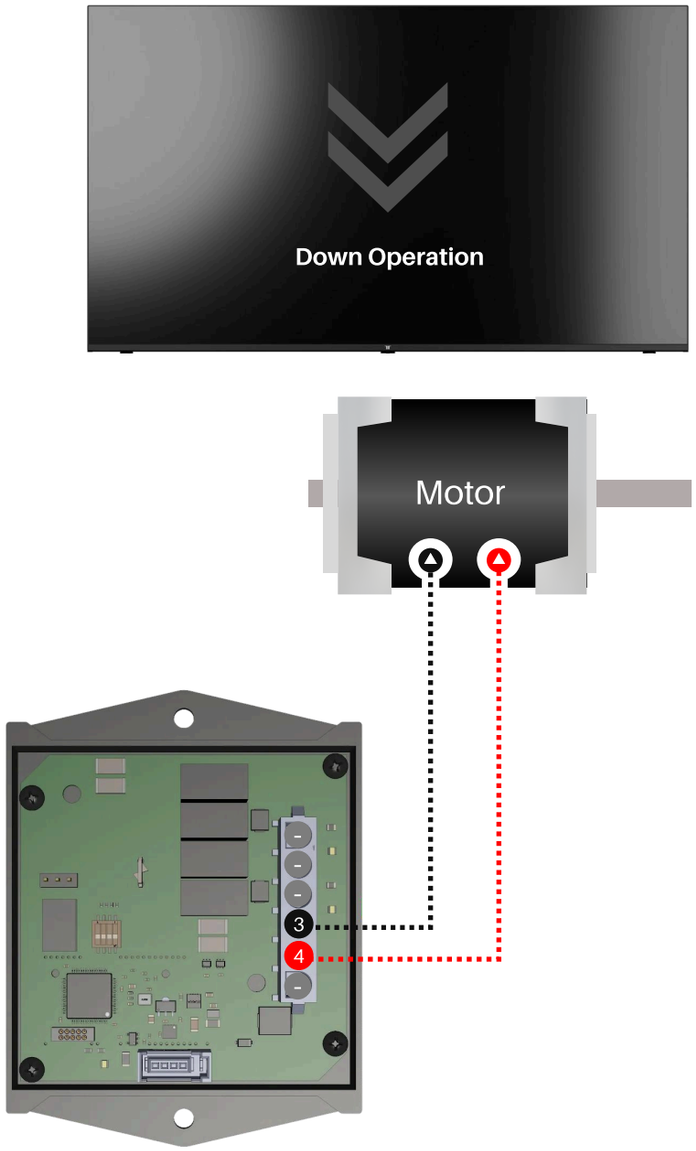
If equipped with a bed lift:

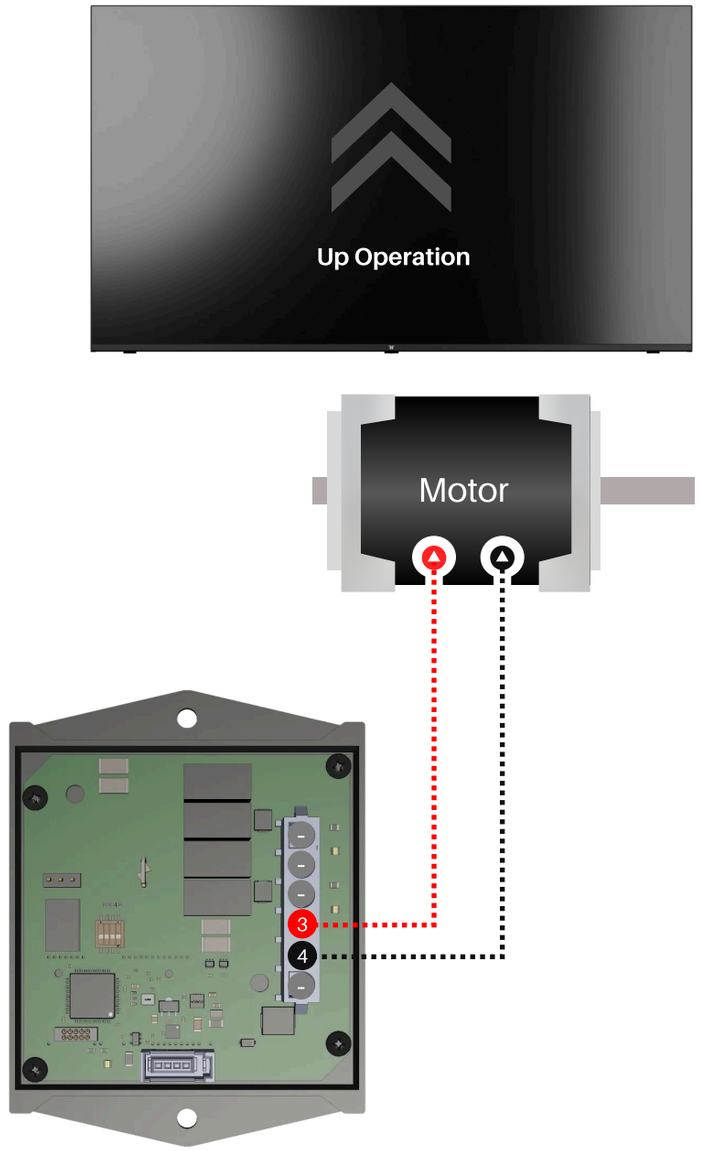
When pressed, the bed lift plunger sends +12V to connector J2 Pin 4 on the RSI-12, enabling the slides to operate. If the plunger is not depressed and the RSI-12 does not receive this +12V signal, the slides will not run.

MoRyde **TV Lift**

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







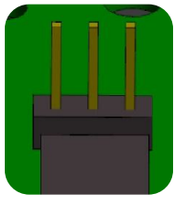
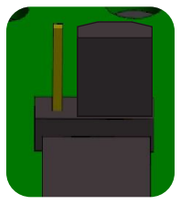
Trouble Shooting

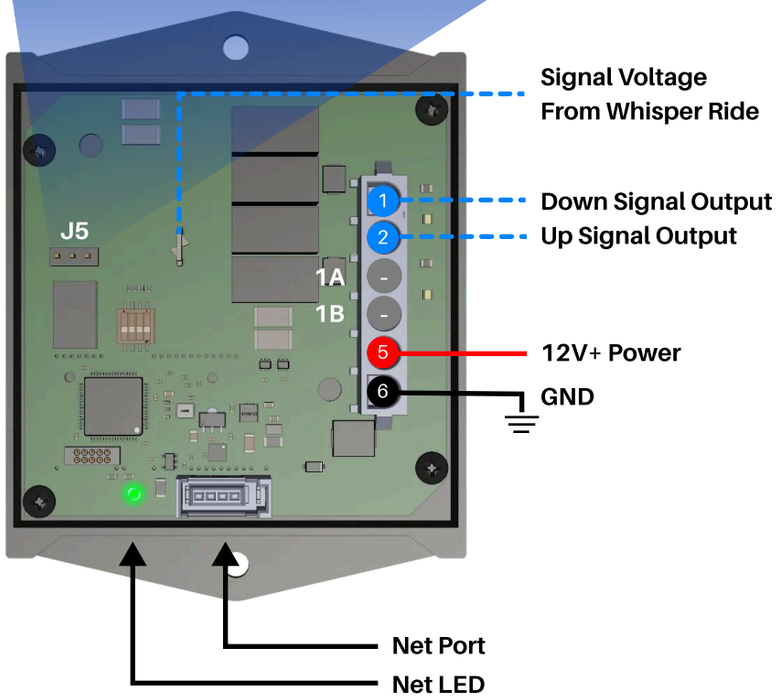
This information applies **only to coaches with a MoRryde TV Lift**. The module shown above is an HCR-15, which provides the reverse-polarity output needed to drive the MoRryde TV Lift motor.
If the TV lift will not raise or lower, first check that the **NET LED** on the **HCR-15** is solid green.

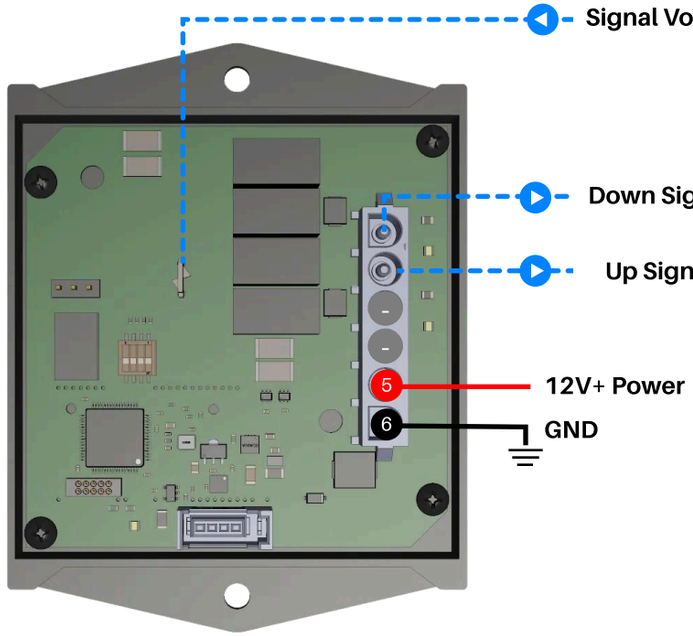
- If it is flashing or off, there is a network connectivity issue.
- If the module is online (solid green LED) but the TV lift still does not work, test the output with a multimeter.

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.







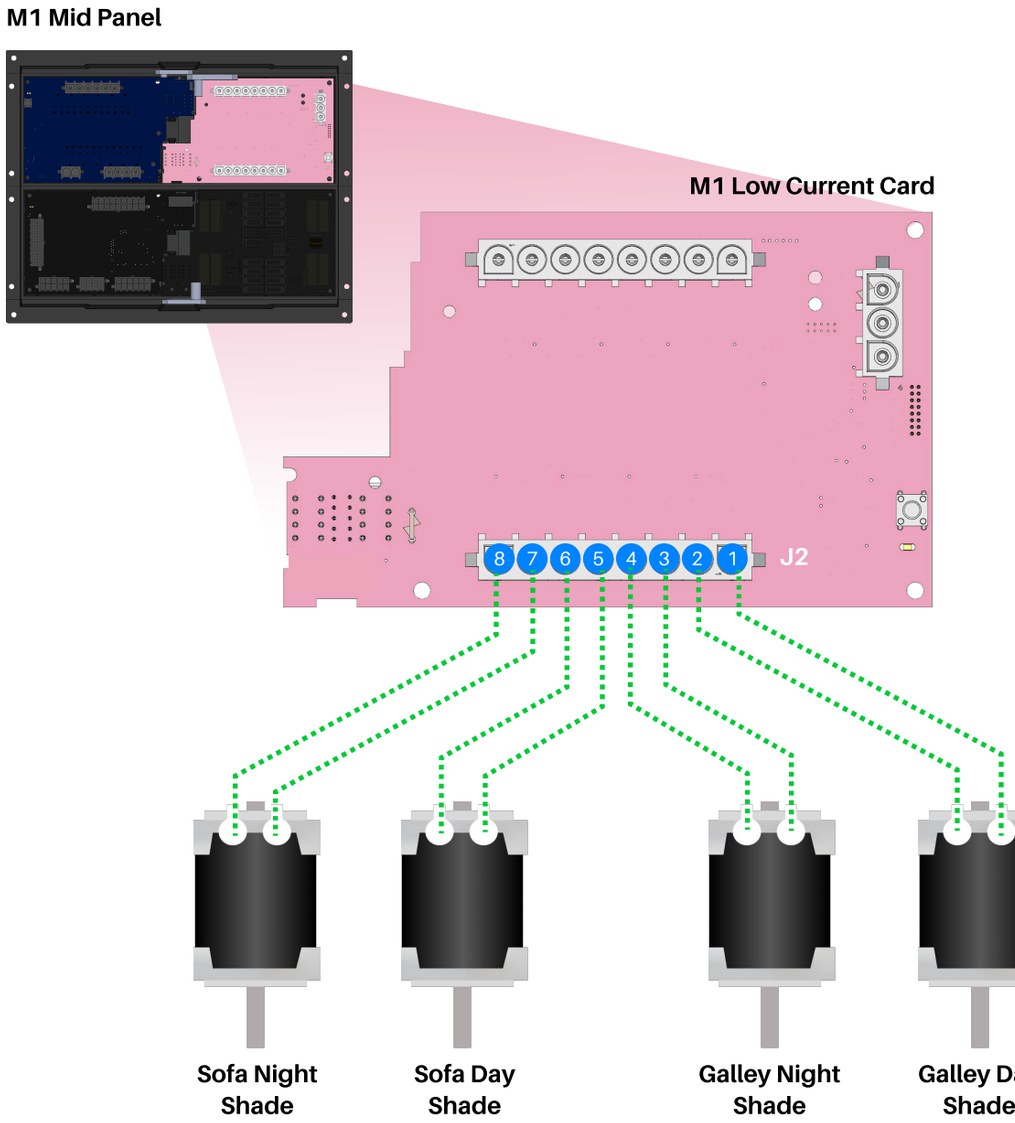
Trouble Shooting

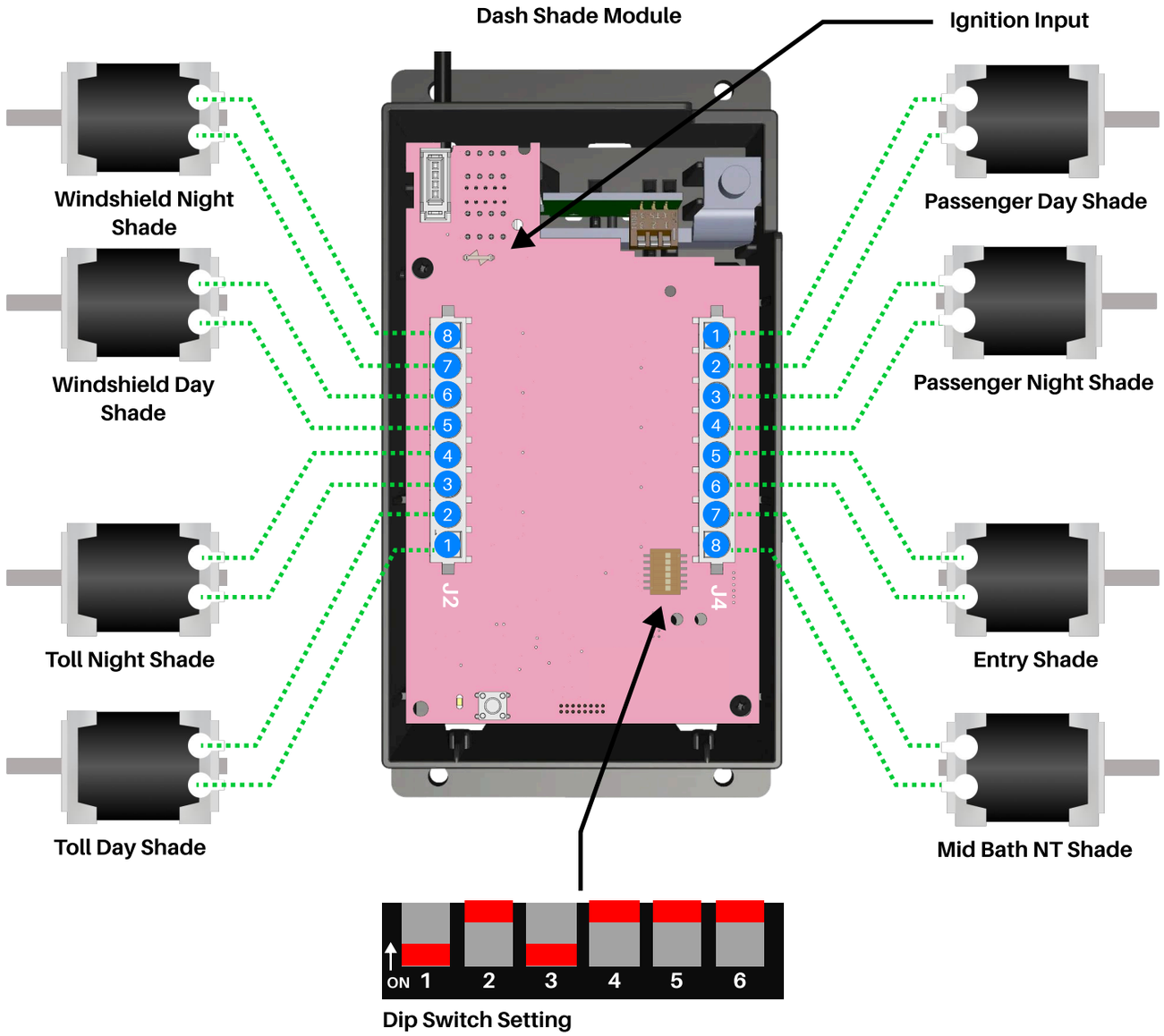
The module shown below is an **HCR-15**, which provides the **12V** output for the TV lift motor. If the TV lift will not raise or lower, first check that the **NET LED** on the **HCR-15** is solid green.

- 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.**

Bus Shades

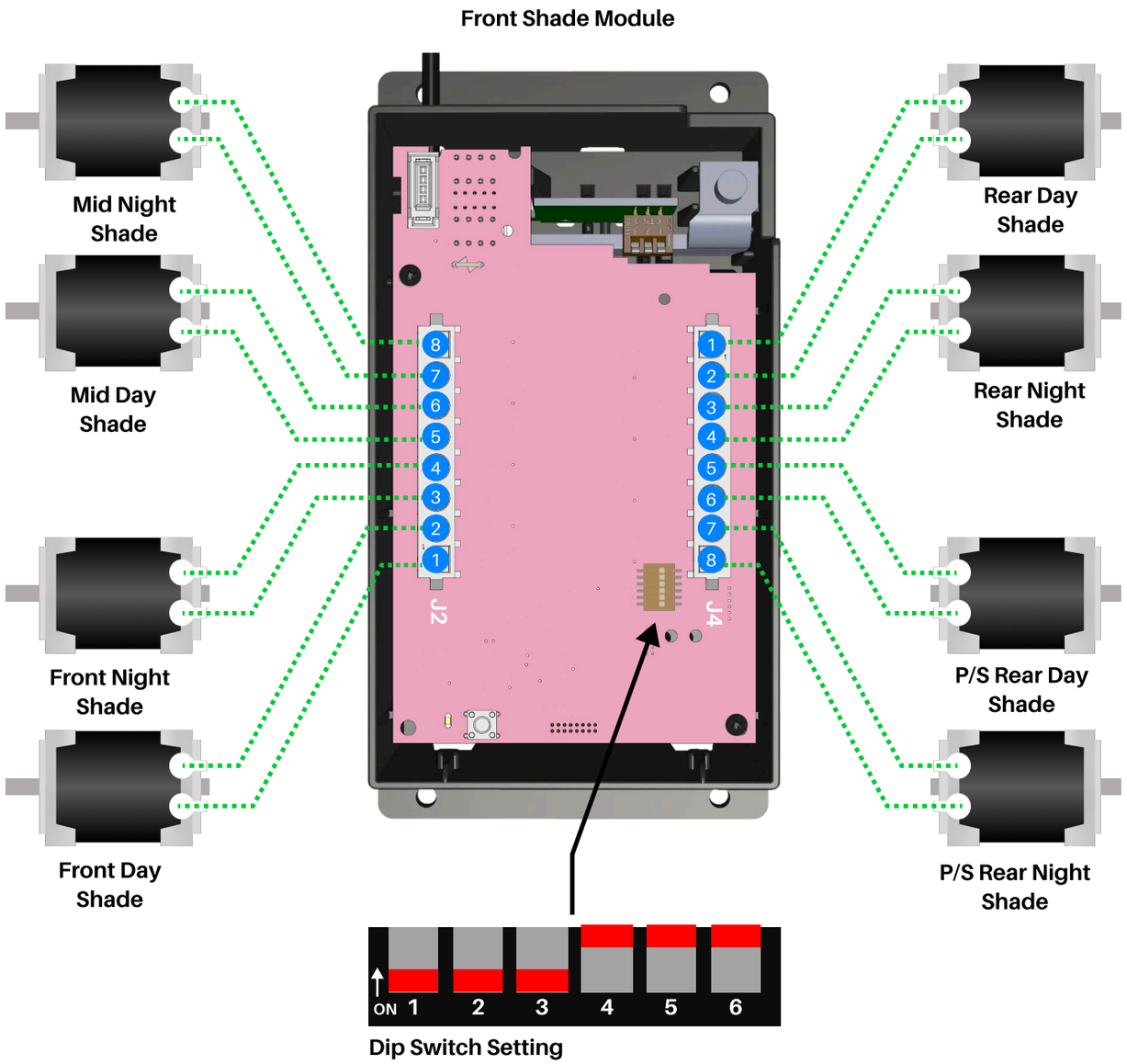


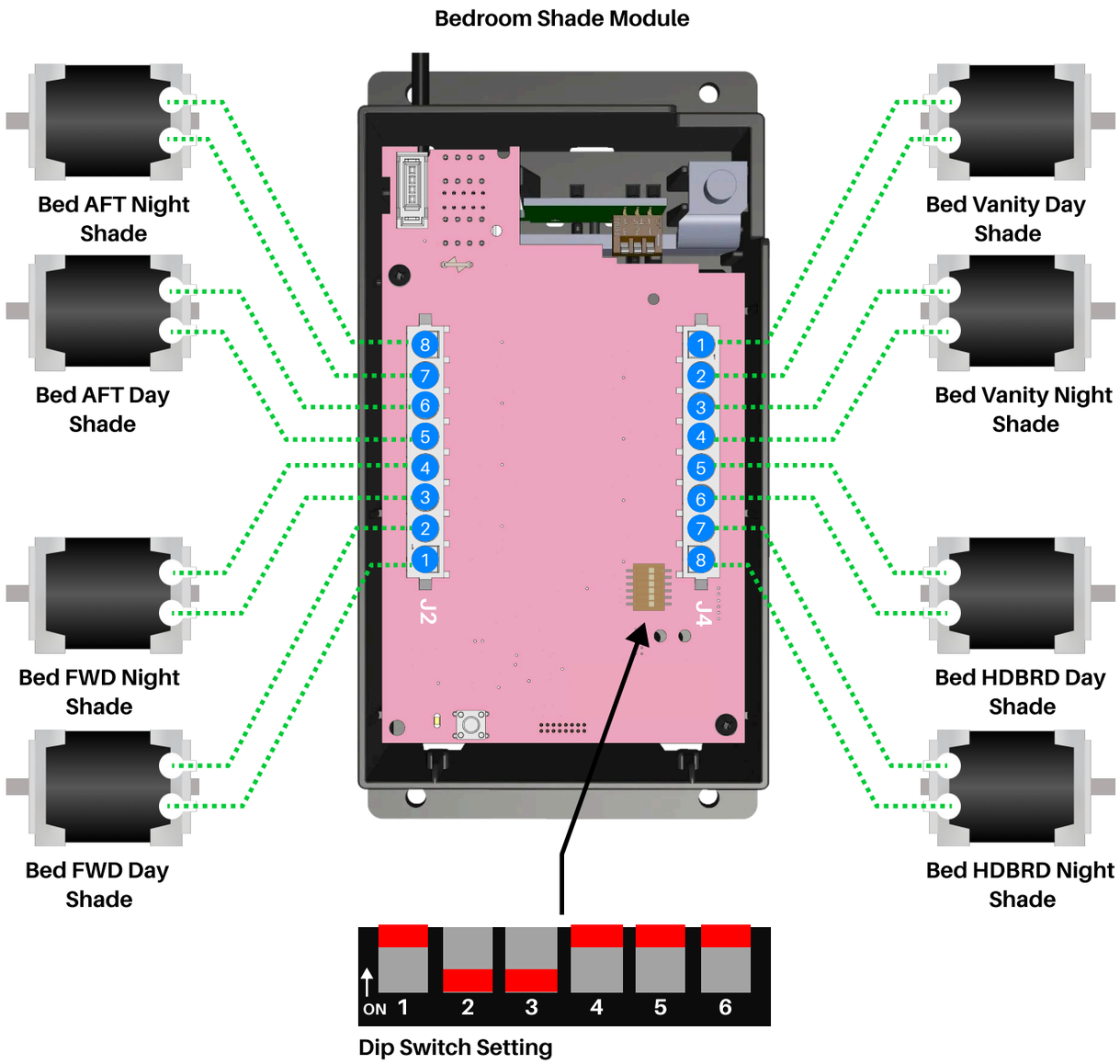


Dash Shade Ignition Lockout

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.

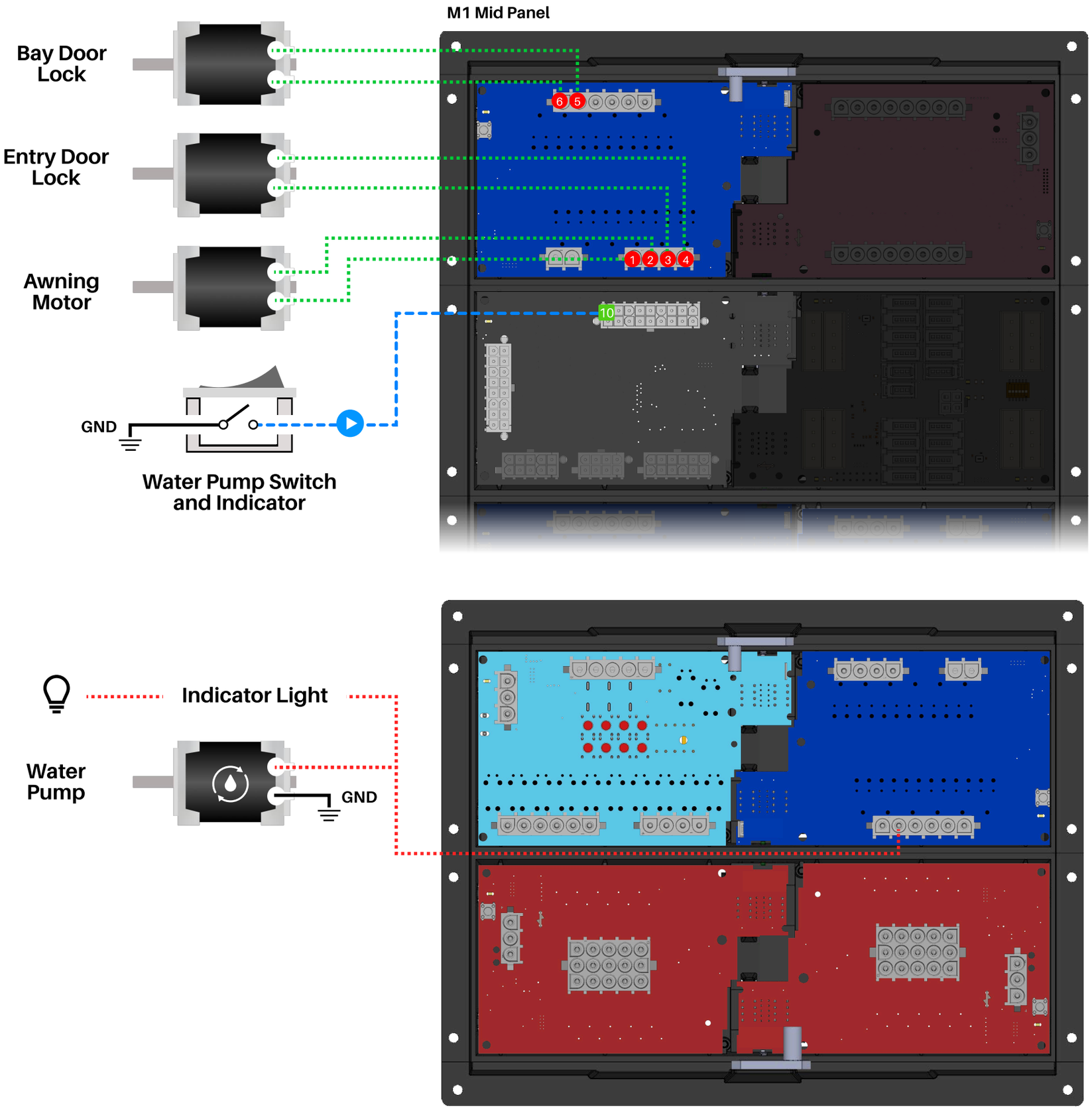
Bus Shades Cont.





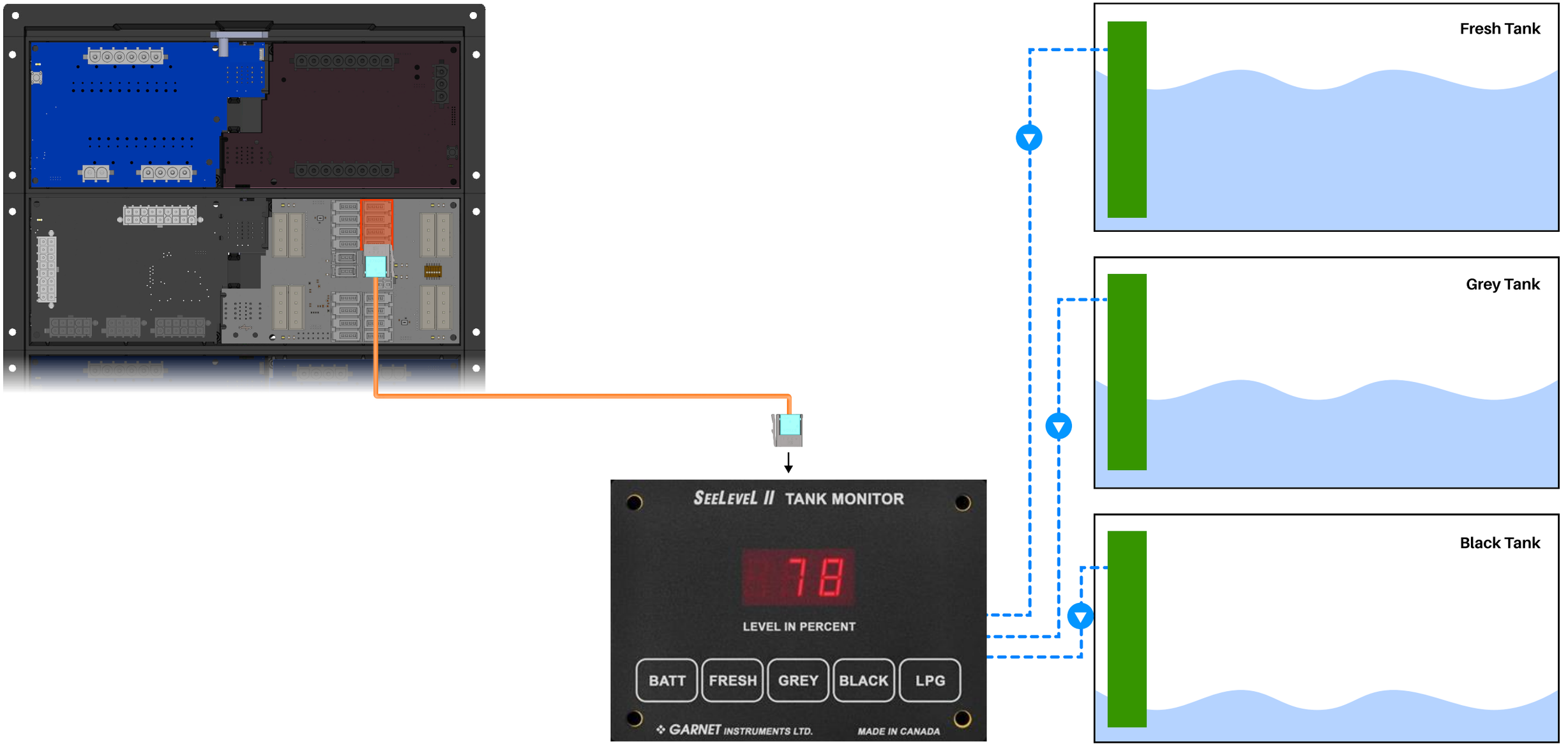
SPYDER CONTROLS CORP

Bus Motors And Pump



SPYDER CONTROLS CORP

Tank Sensing



Tank Sensing

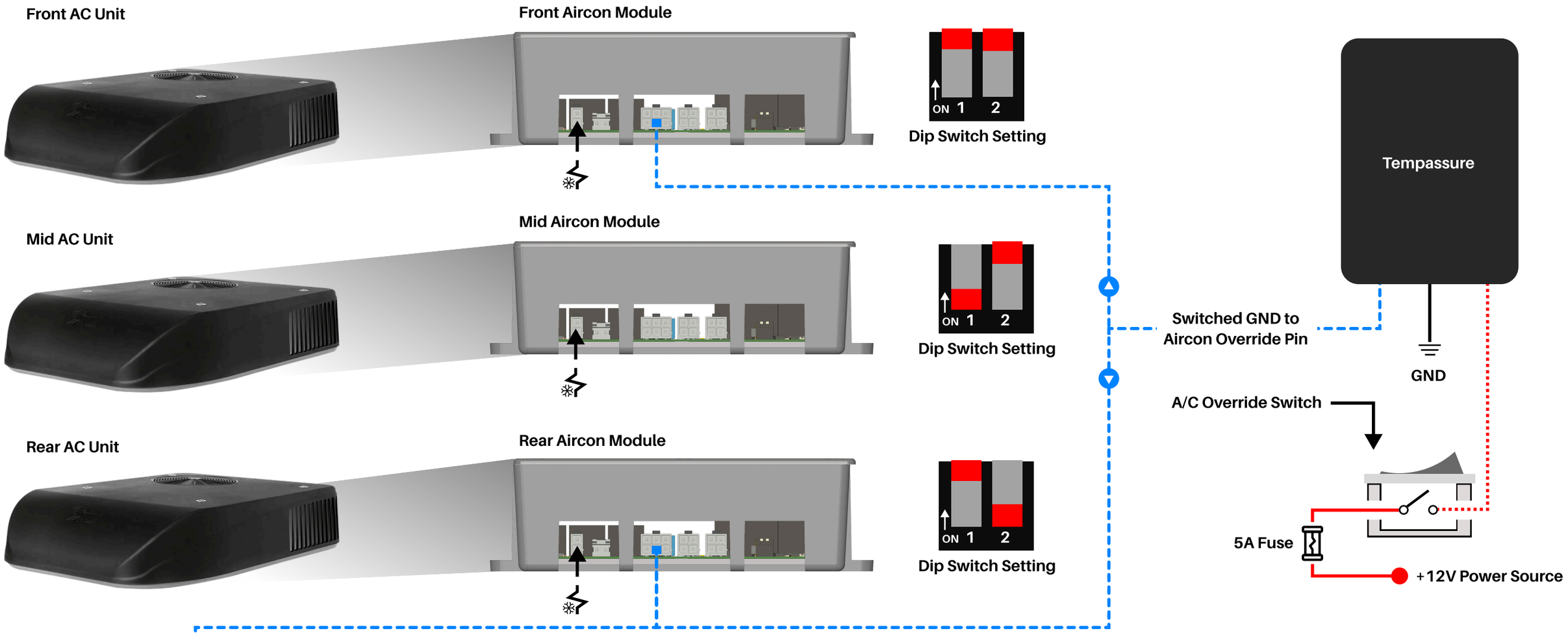
This coach uses a **Seelevel Tank Sensing System** made by **Garnet Industries**. The system reads tank levels using adhesive strip sensors mounted on each tank. The Seelevel monitor then sends this data across the RV-C network.

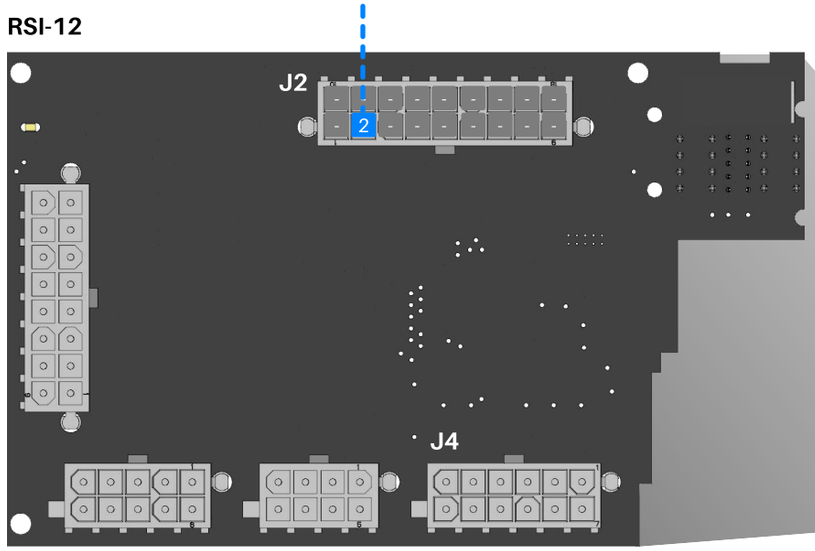
The Spyder System simply detects and displays the tank information broadcast by Seelevel on all Spyder screens that show tank levels. If the tank readings shown on a Spyder display are incorrect, the issue is not with the Spyder System. Spyder only displays the information provided by the Seelevel monitor.

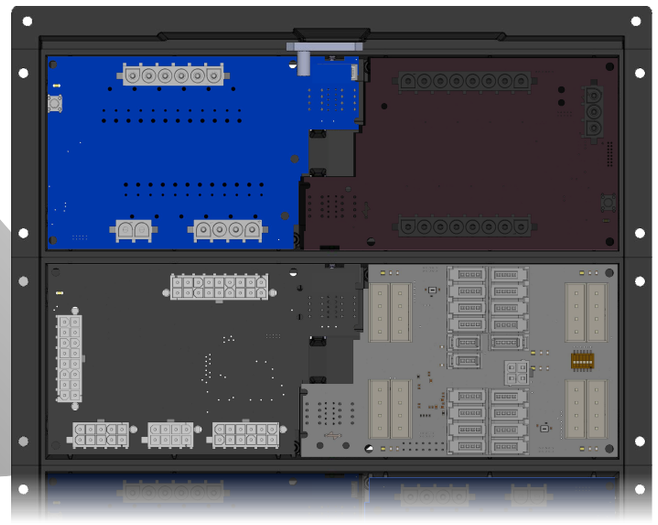
If **no tank information** appears on the displays, the **Seelevel monitor** may be **offline**.

Climate Systems

HVAC Aircons & Overrides







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

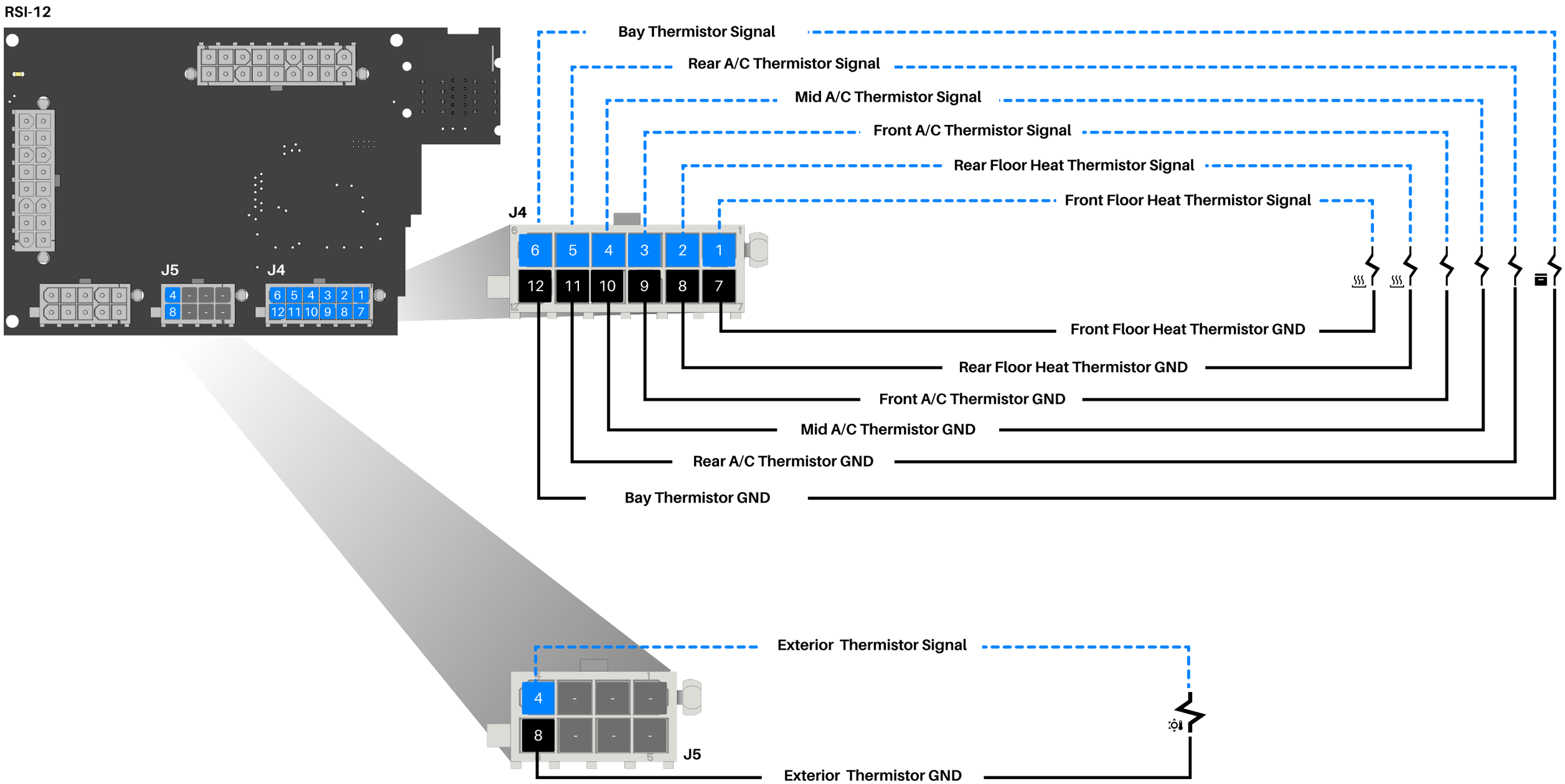
Emergency HVAC Override

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.

HVAC Thermistors



HVAC Thermistor
100K Ohms at 25**C** / 77**F**

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

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

Bay Thermistor
100K Ohms at 25**C** / 77**F**

Exterior Thermistor
100K Ohms at 25**C** / 77**F**

As the temperature **increases** resistance **lowers.**

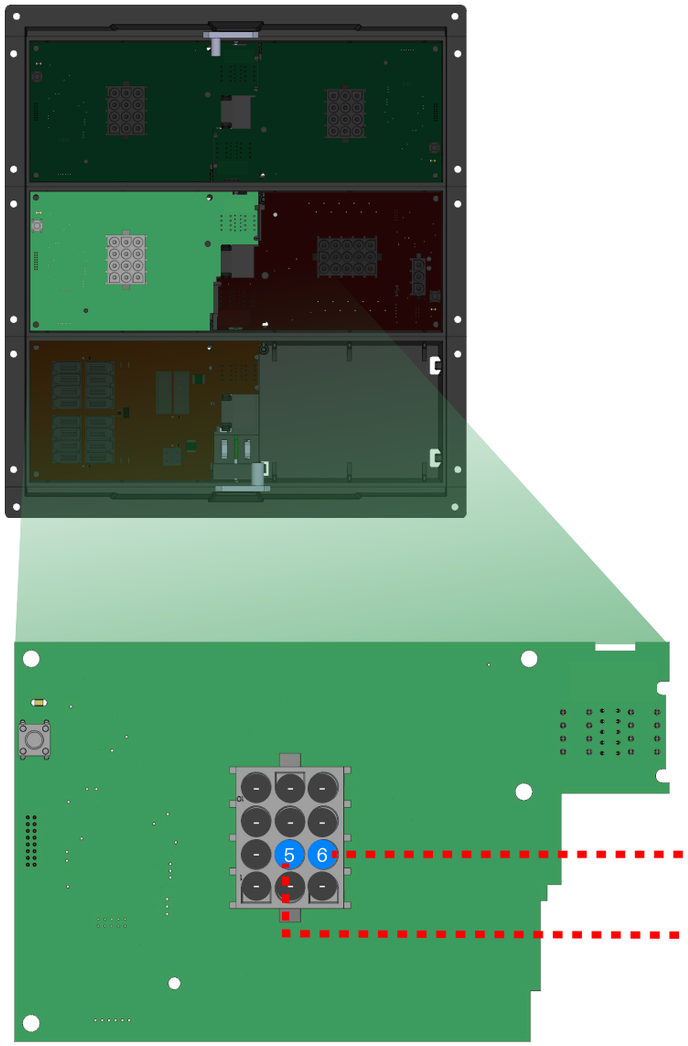
SPYDER CONTROLS CORP

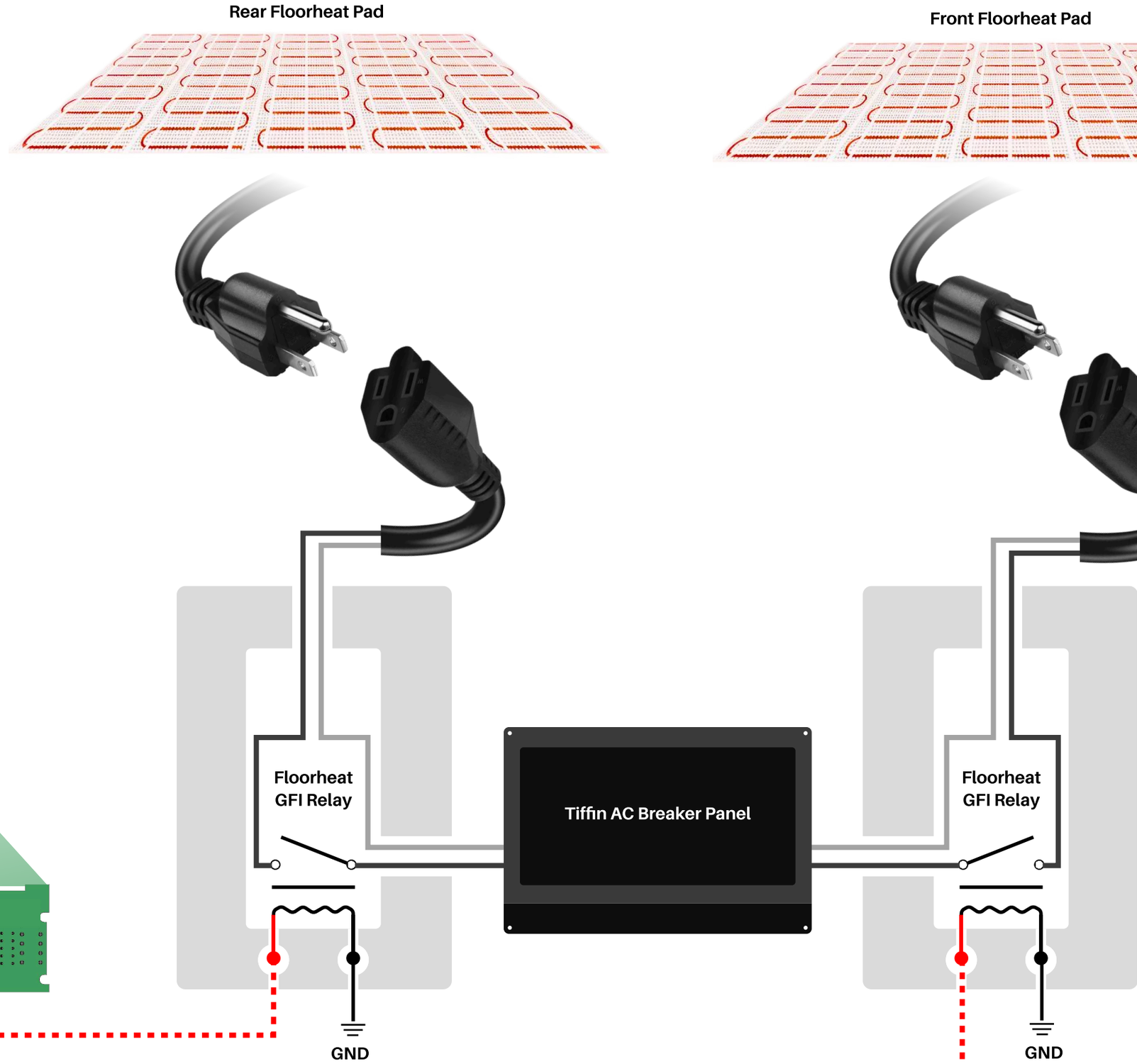
Floorheat

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.

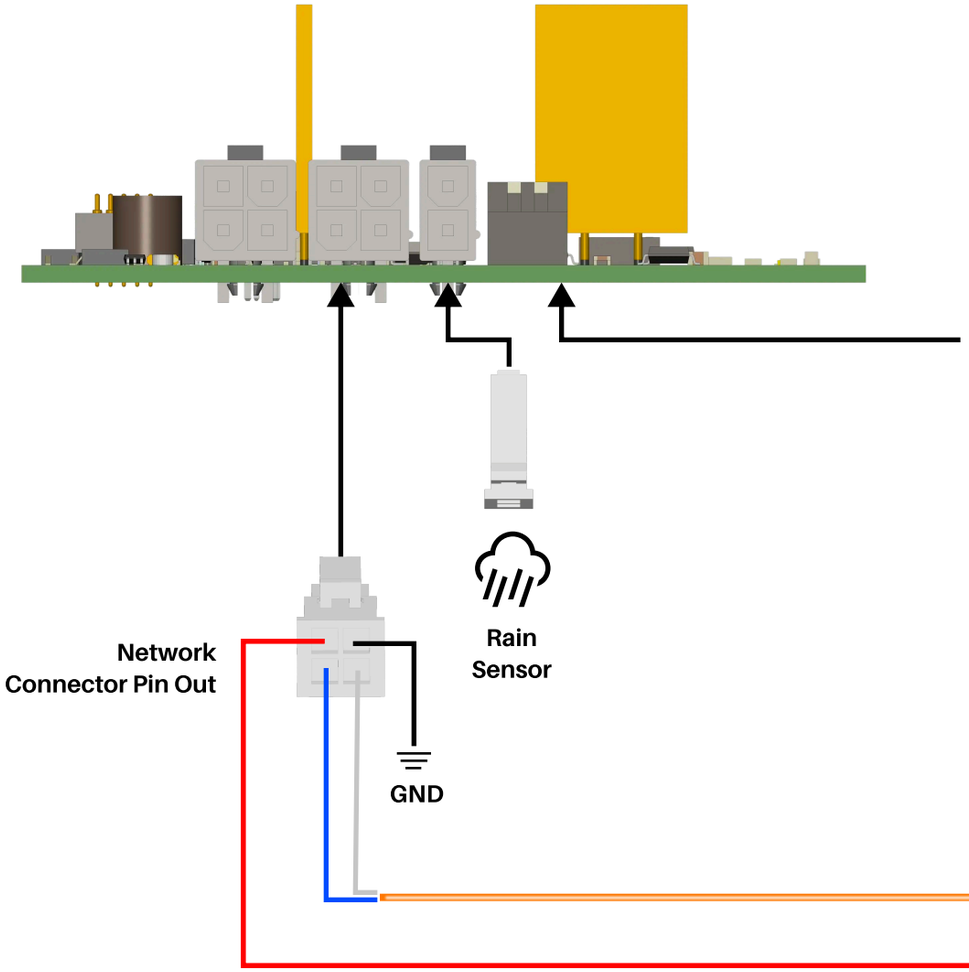


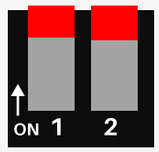
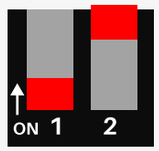
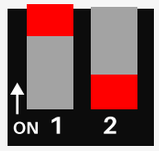


SPYDER CONTROLS CORP

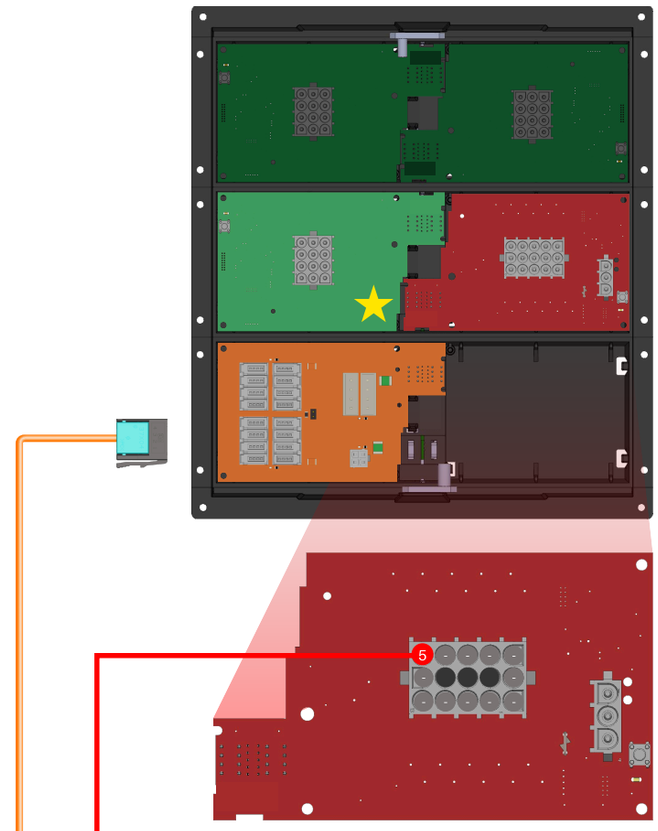
Vent Fans

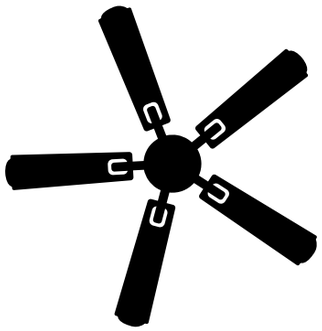
Vent Fan Modules - Located in Vent Fans - 1 Per Vent Fan

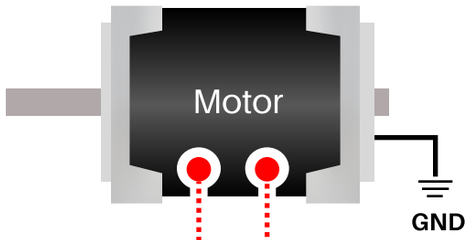


Dip Switch Settings	
Fan Location	Dip Switch Setting
Galley Fan	
Mid Bath Fan	
Rear Bath Fan	

Rear M1 Panel

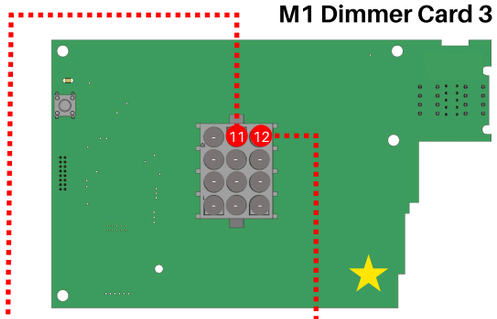






Ceiling Fan

M1 Dimmer Card 3



Fan Low Resistor - Tiffin P/N: 5040707

SPYDER CONTROLS CORP

Power Systems

Front HCR-11

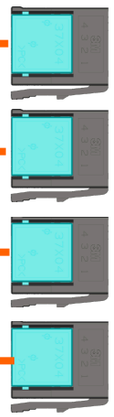


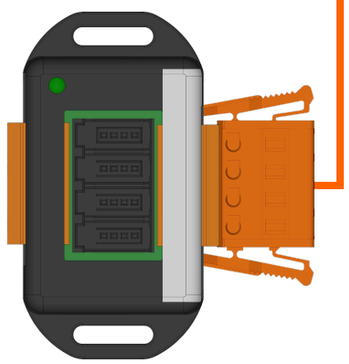
Dash SSP24



D/S Console SSP25

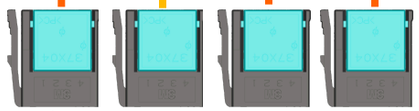


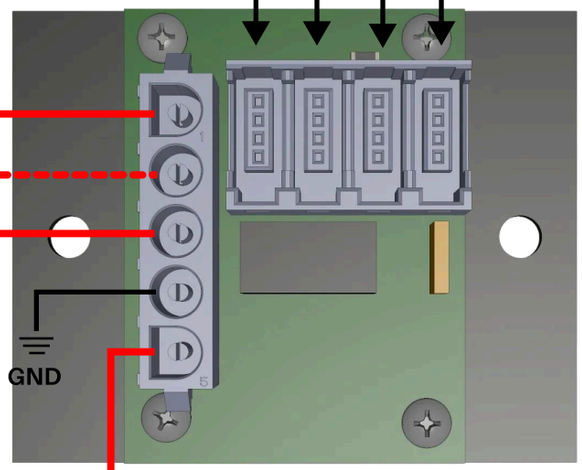




Dash G3
Drop Tap

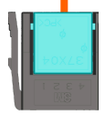
To Can-Router 3





RSI-11

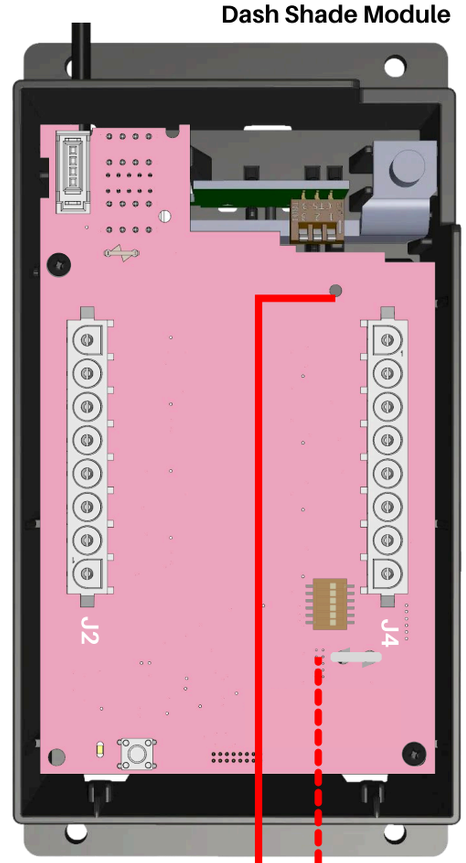
GND





12V+ From Chassis
Battery



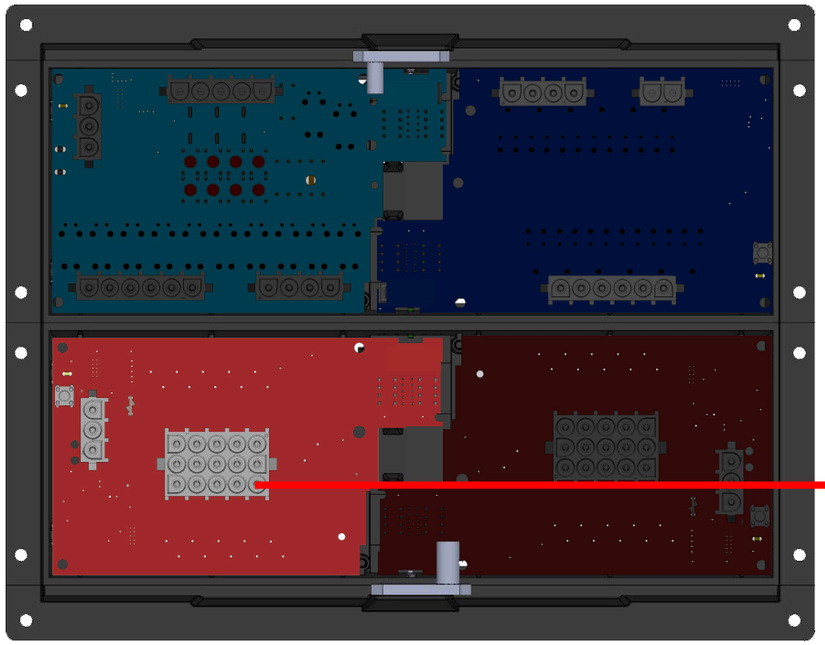


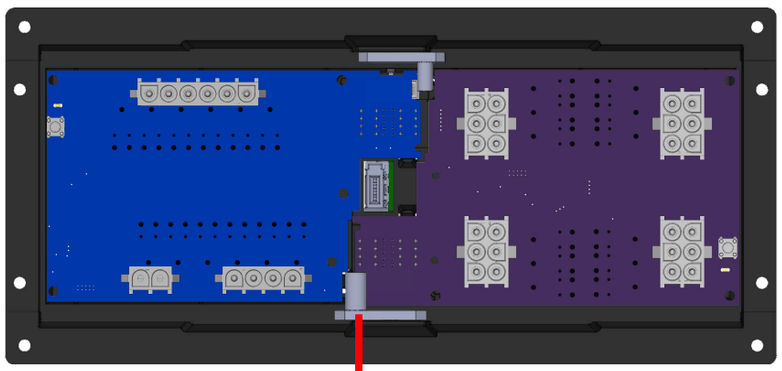
Dash Shade Module

J2

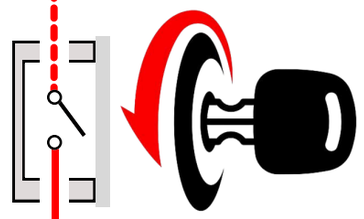
J4

M1 Front Panel





M1 Dash Module



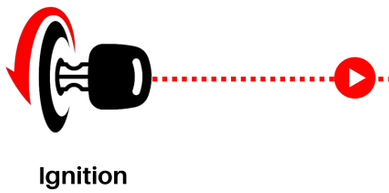
Ignition

+12V

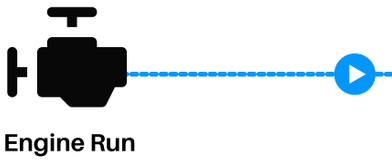
Battery Merge

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).

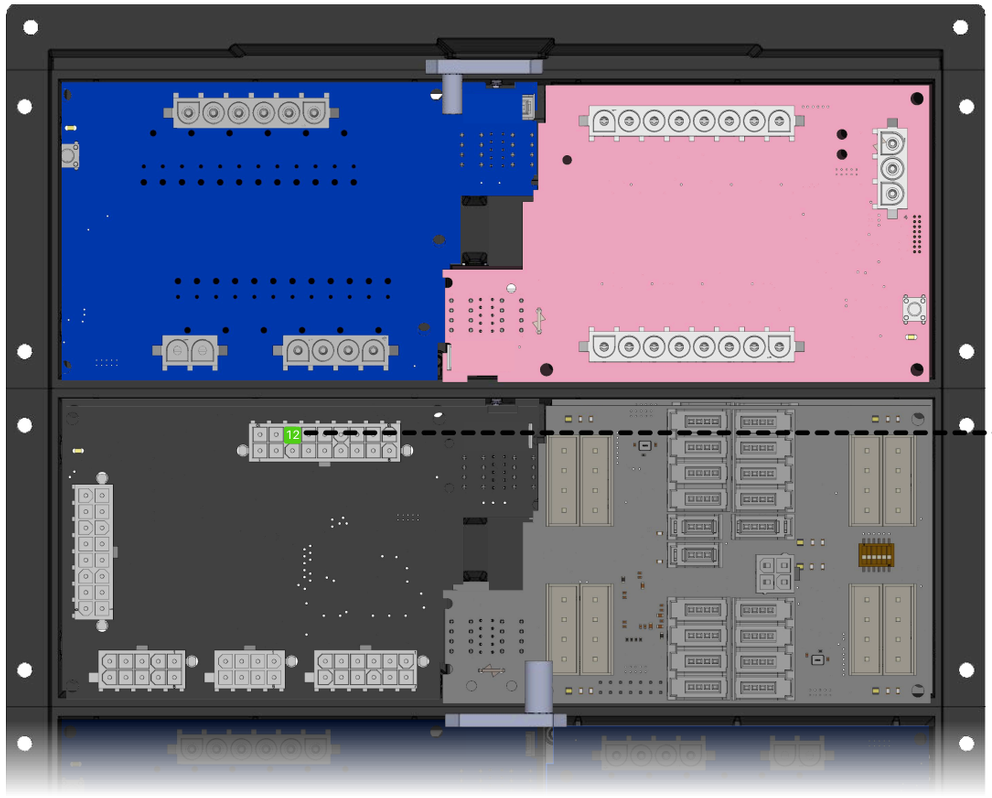


Ignition



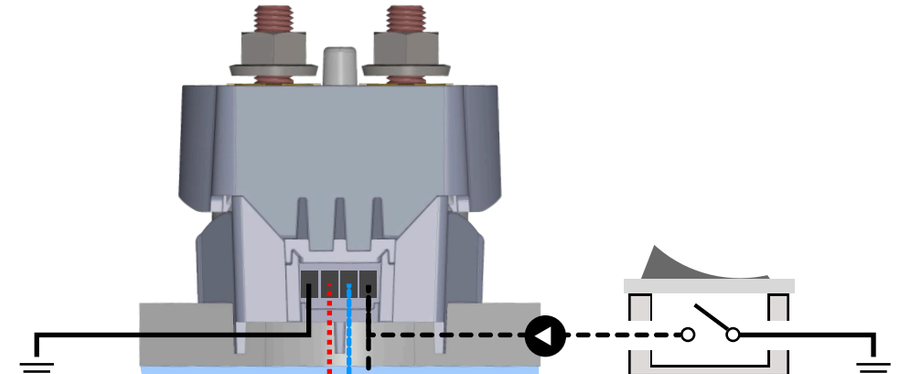
Engine Run

M1 Mid Panel

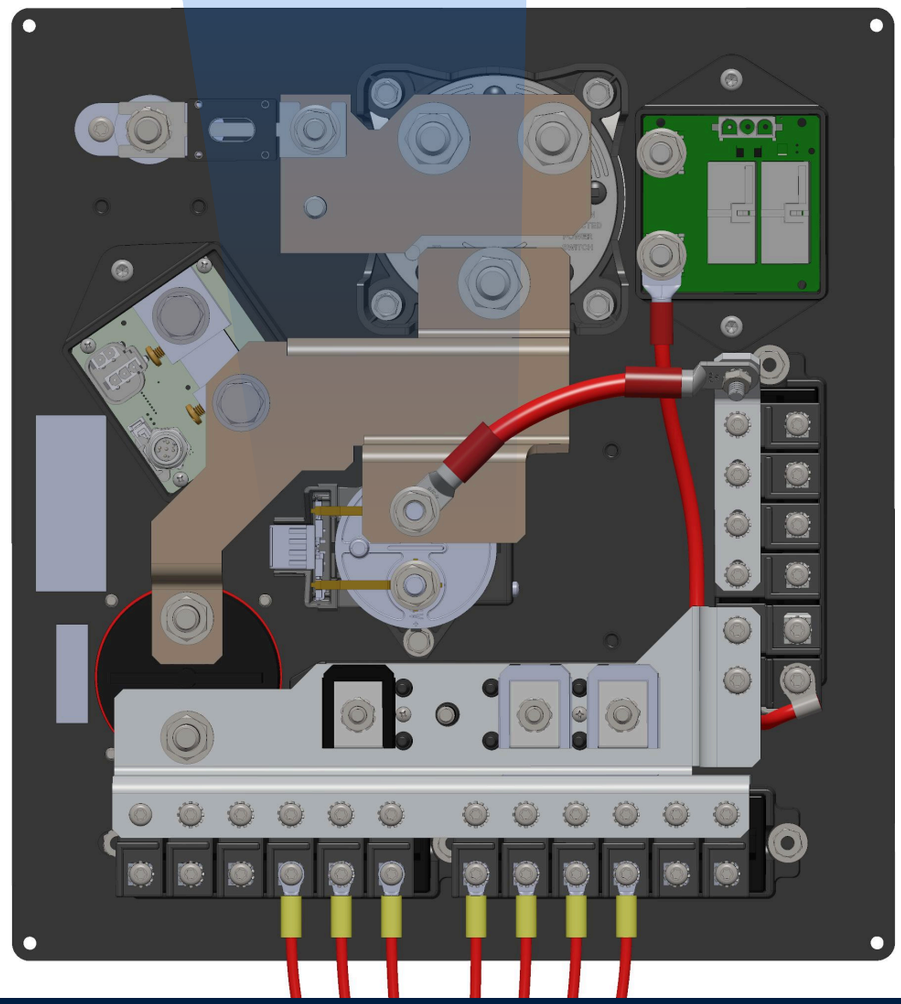


Auto / Manual Merge Input (GND)

Mergeman Merge Solenoid



DCD Panel



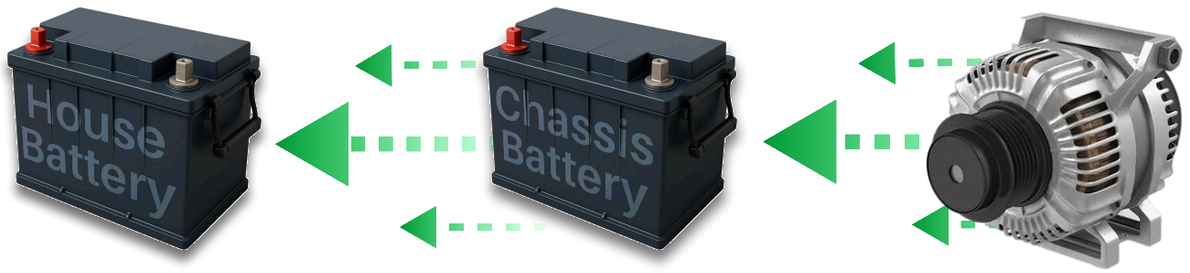
SPYDER CONTROLS CORP

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**

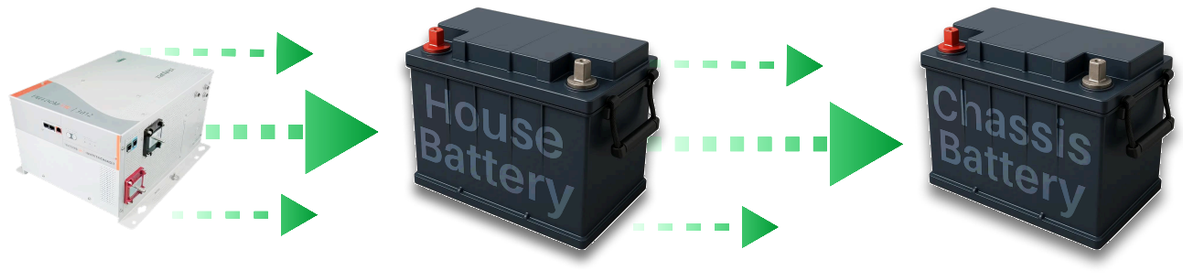
The merge solenoid will **engage** if the following conditions are present:

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

The TRC Transfer Swtich

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

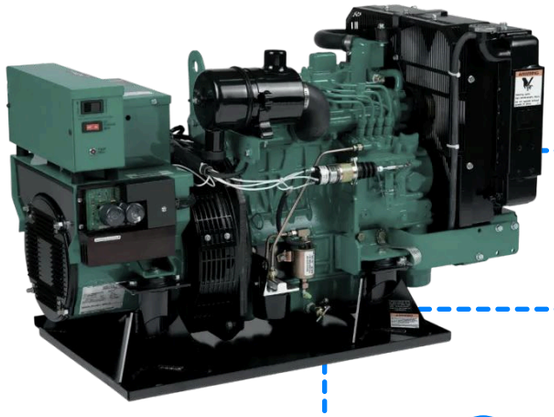
It also reports information about the **type and quality** of that power, which is then **displayed** on the **Spyder LCD** screens inside the coach.

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

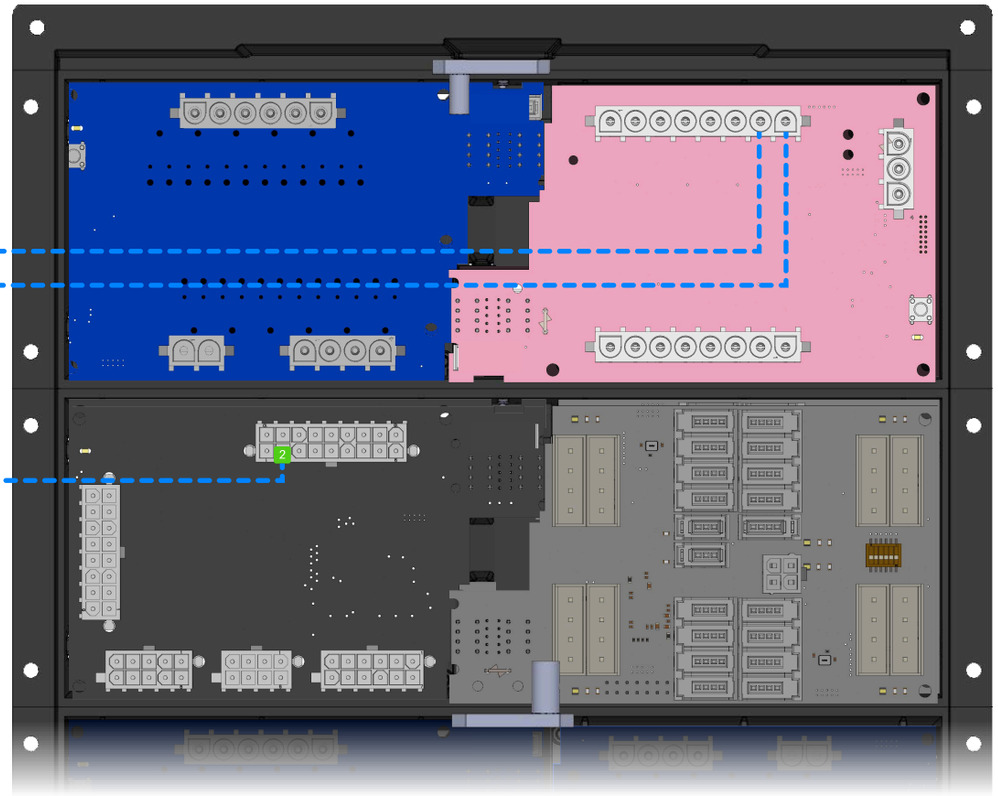


Gen Start (GND)

Gen Stop (GND)

Gen Run Signal (12V+)

M1 Mid Panel

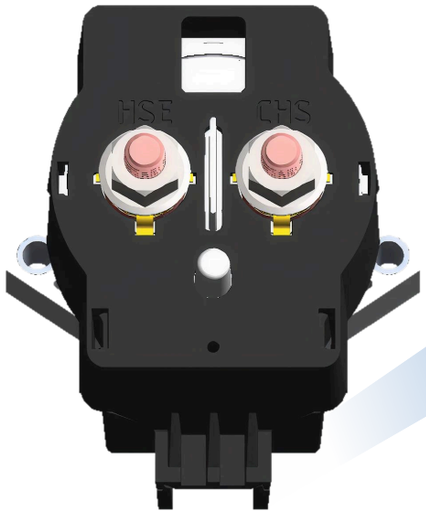


Operating the Generator

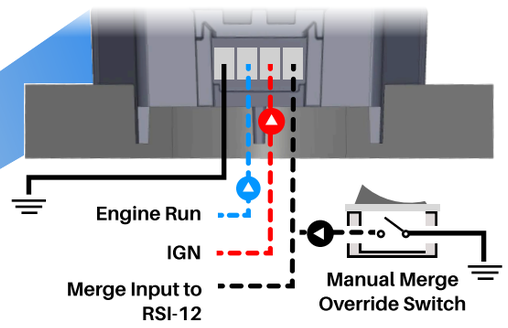
The generator can be started by using the generator start/stop switch on the dash or by activating it from any Spyder Screen.

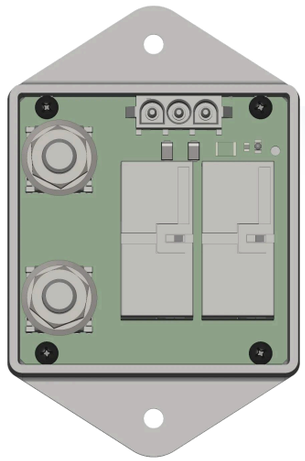
The AGS (Auto Generator Start) can be set to automatically toggle the generator on or off based on user defined conditions.

DCD Panel

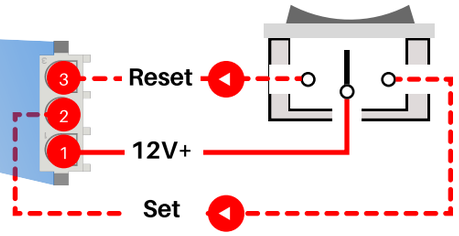


Mergeman

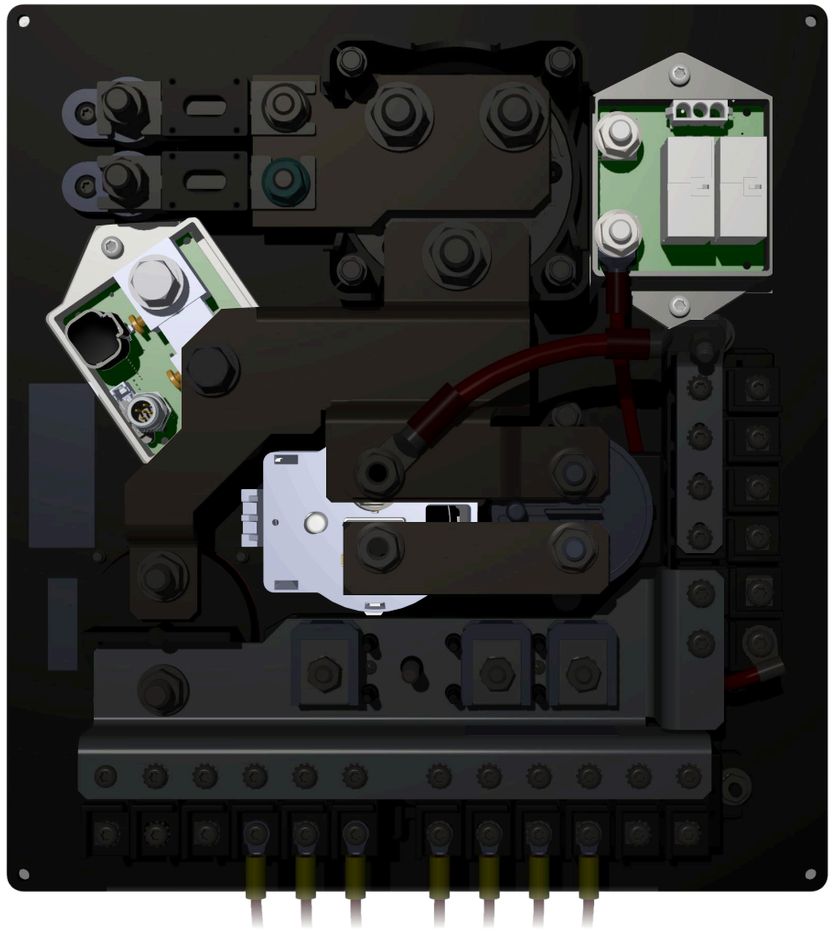




BDC3



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

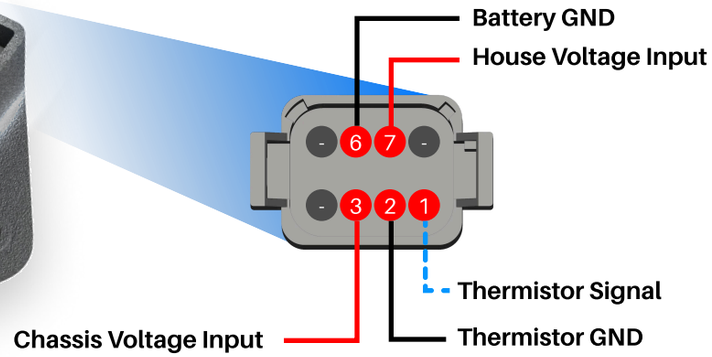


DCD Panel

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

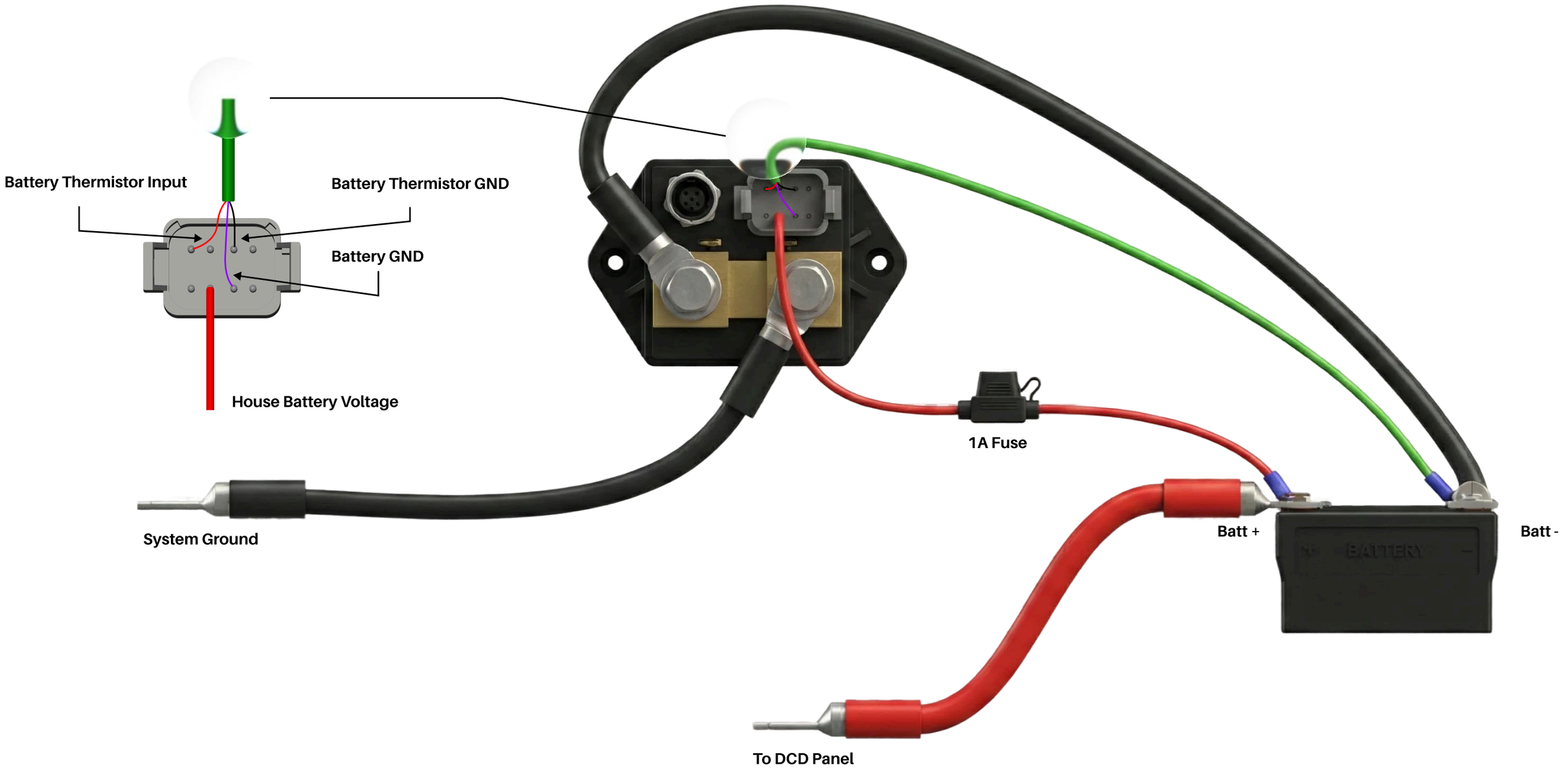


The Trustate provides the following information:

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

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

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

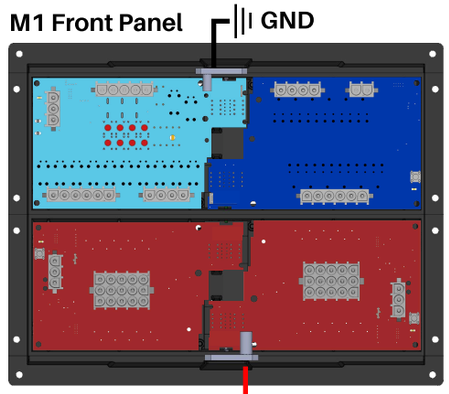


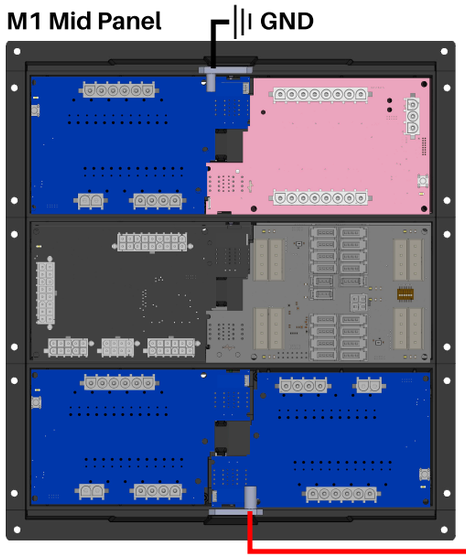
Trustate Module

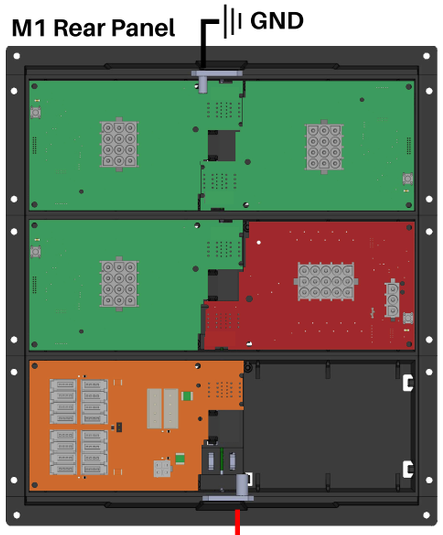
The TruState module in this coach measures battery state of charge (SoC) on the ground side of the system. All current entering or leaving the battery passes through the TruState shunt, allowing the module to accurately calculate and report battery SoC on the LCD displays. This value is shown as the 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

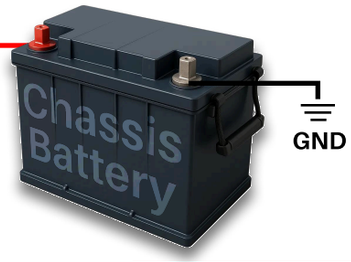
DCD Panel

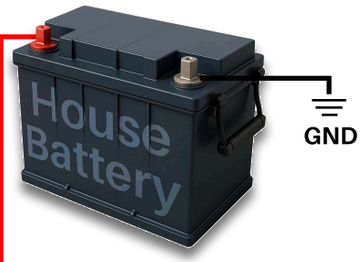


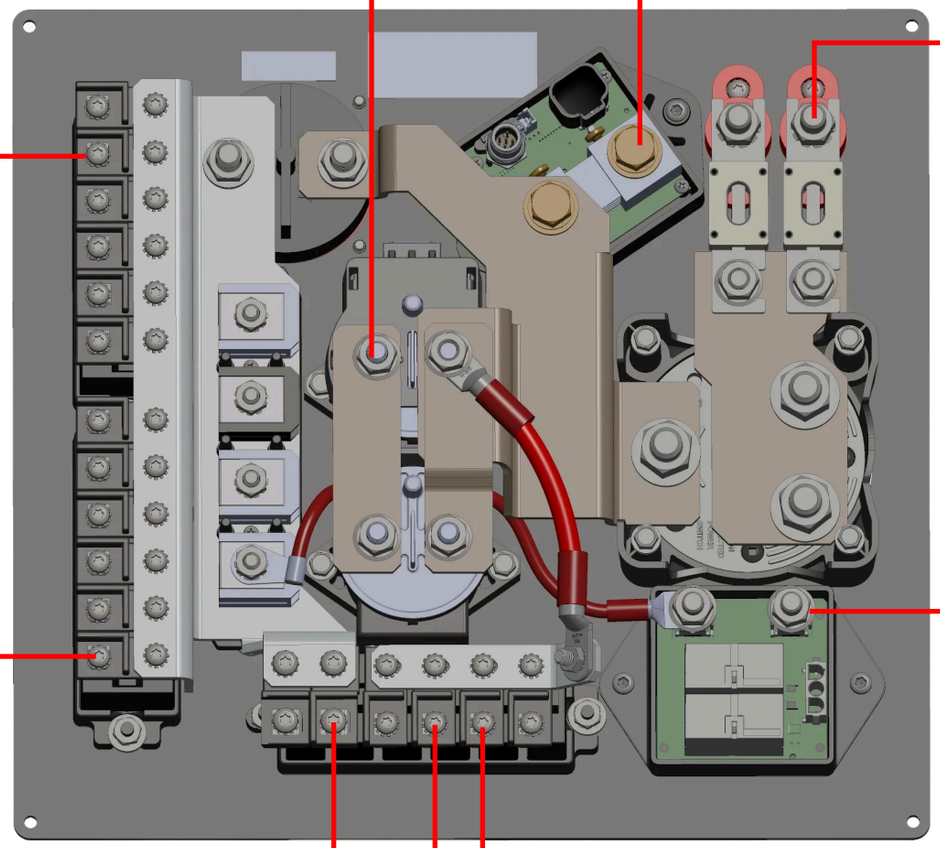





HCR-12









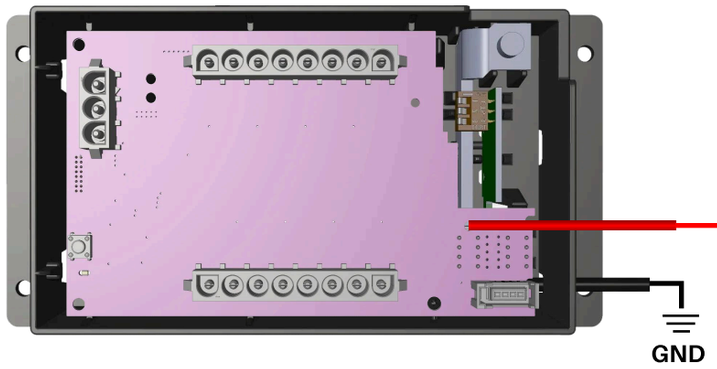
Xantrex Inverter
(Optional Second Inverter)


Solar Controller
One

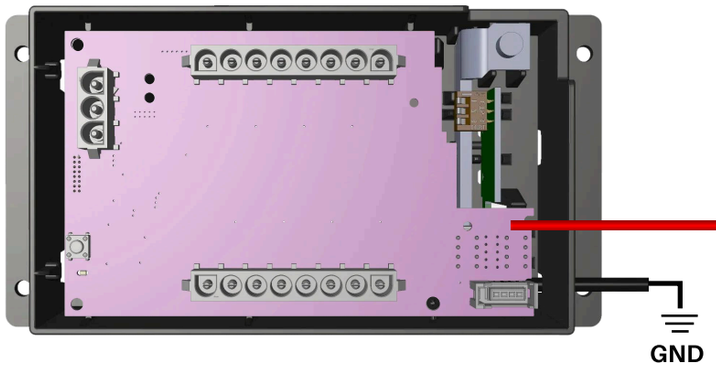

Solar Controller
Two

Shade Module Power

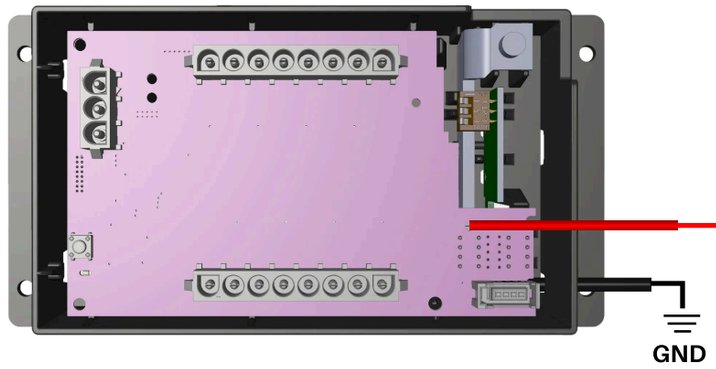
Dash Shade Module



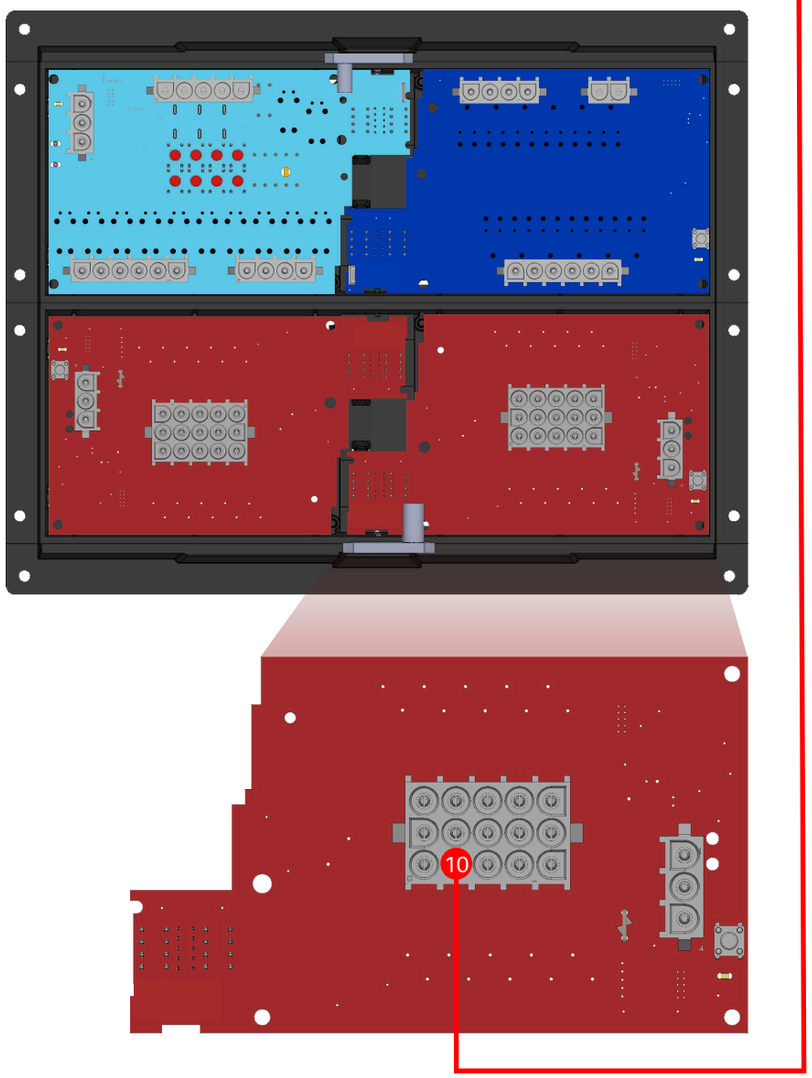
Front Shade Module



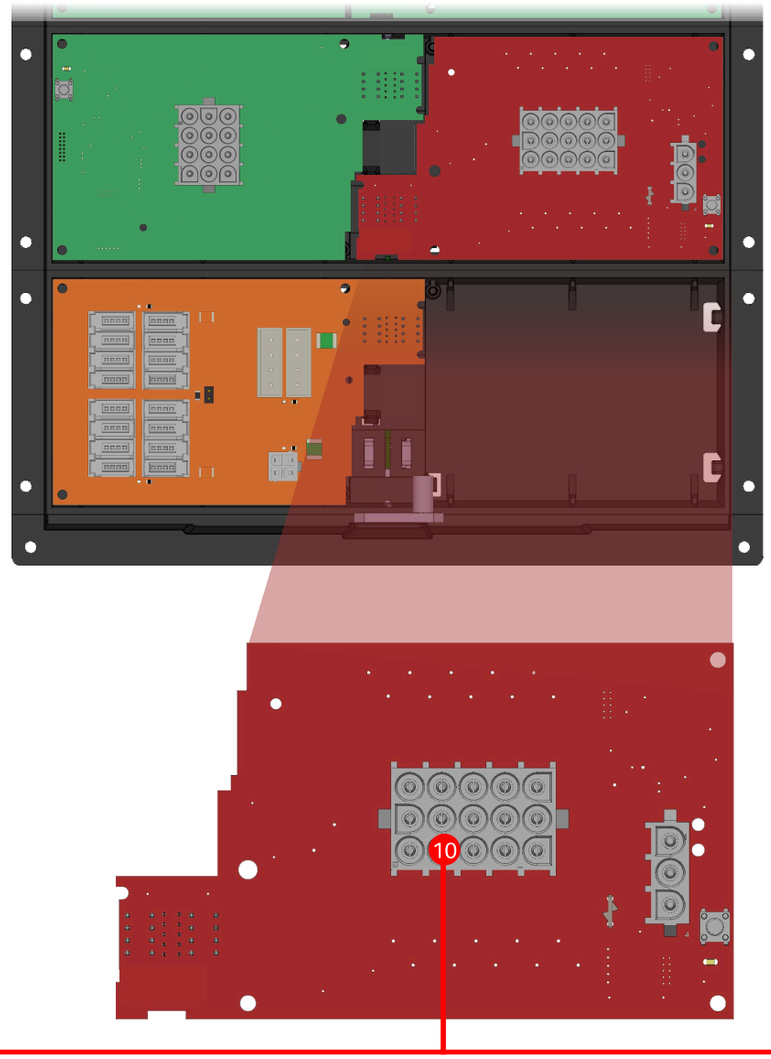
Bedroom Shade Module



M1 Front Panel



M1 Rear Panel



SPYDER CONTROLS CORP

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

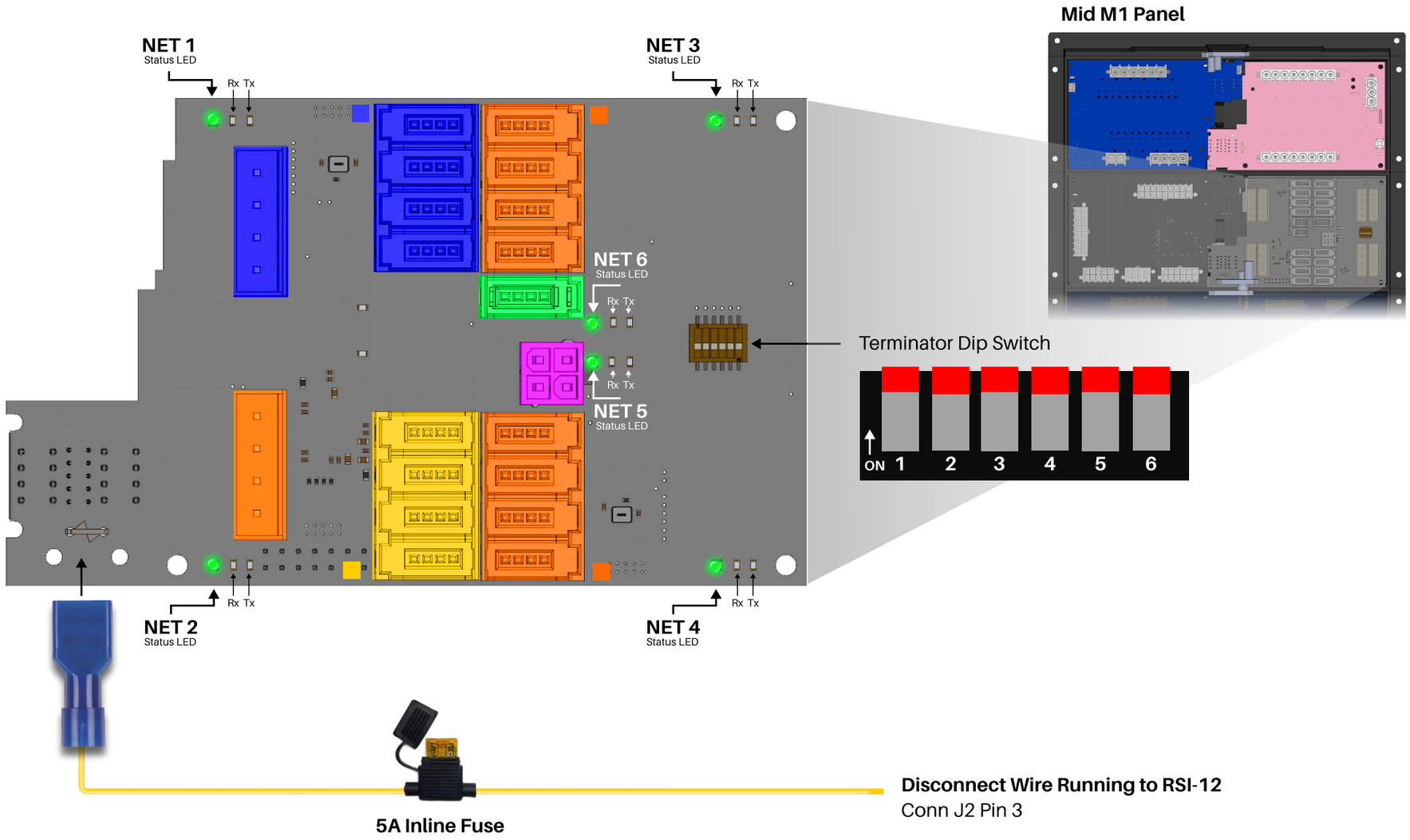
The yellow network is primarily the switch and screen network where most LCDs connect too.

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

Rear Aircon Module



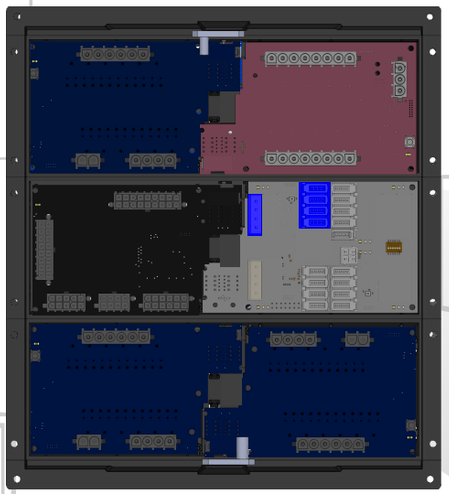
Mid Aircon Module



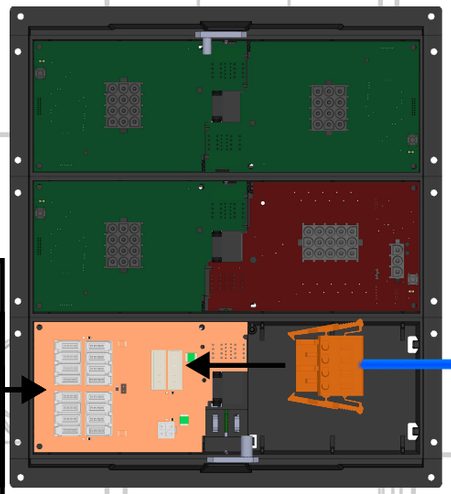
Front Aircon Module



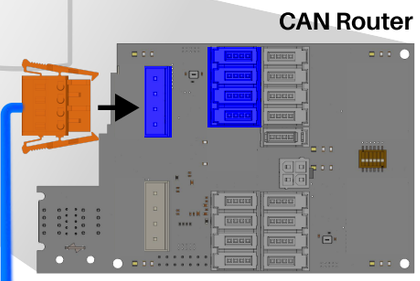
M1 Mid Panel



Terminator - M1 Rear Panel



CAN Router



Blue Trunk Line



Rear Vent Fan Module



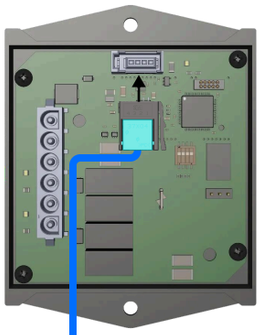
Mid Vent Fan Module



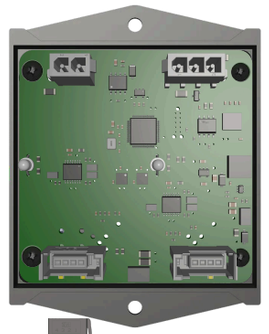
Galley Vent Fan Module

Blue Network

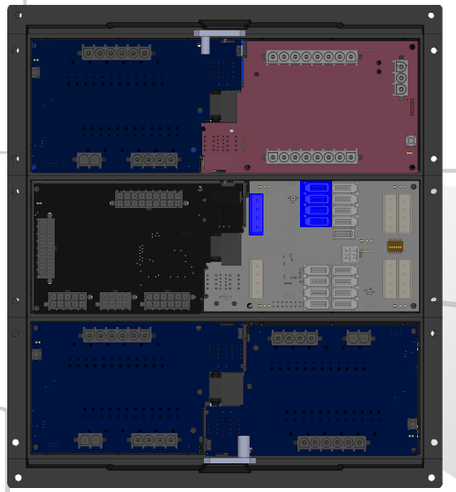
HCR15 TV Lift Module



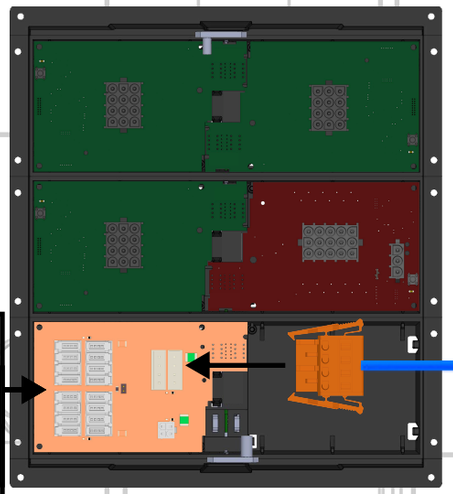
Bridge Module For
Valid Glass Dash



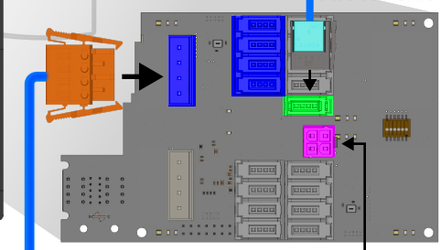
M1 Mid Panel



Terminator - M1 Rear Panel



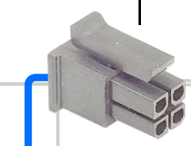
CAN Router



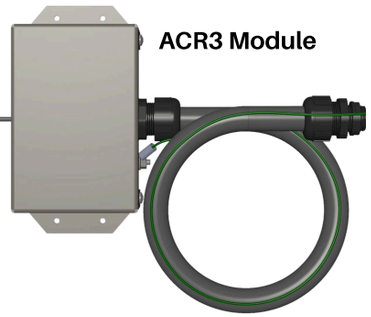
Blue Trunk Line



Xantrex Inverter Charger



ACR3 Module

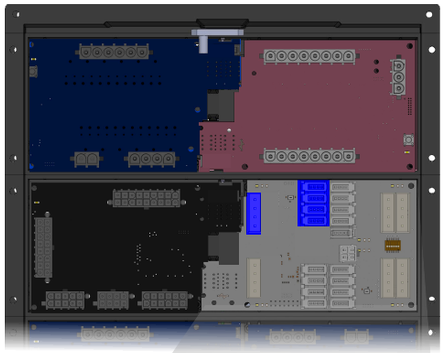


Mira / Eclipse Module



Yellow Network

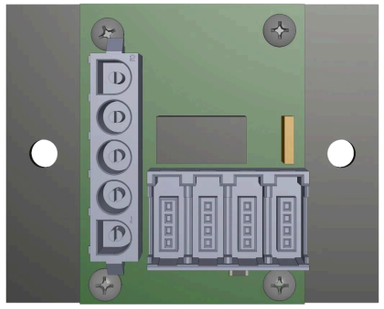
M1 Mid Panel

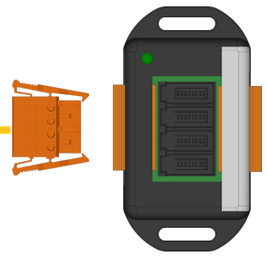


M1 Mid Panel



Terminator - HCR-11 Drop Tap

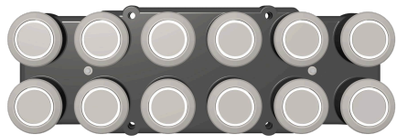




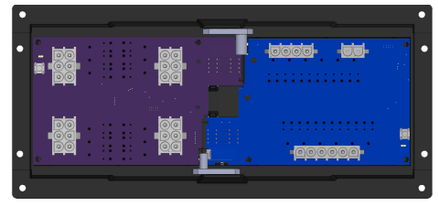
D/S Console SSP25



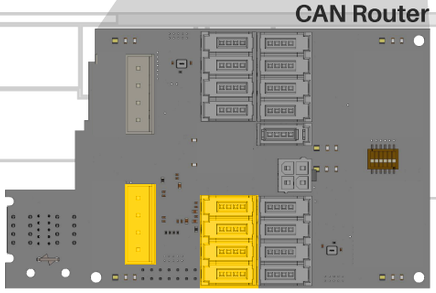
Dash SSP25

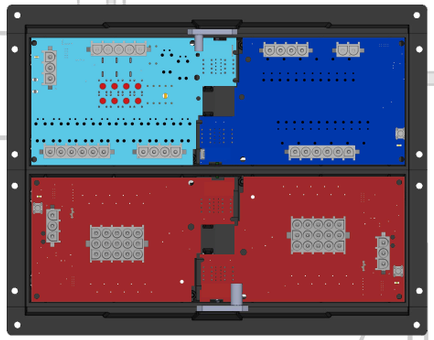


M1 Dash Module



CAN Router





Dash Shade Module



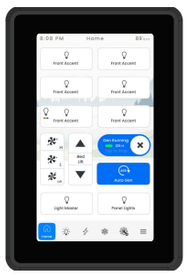
RF Hub



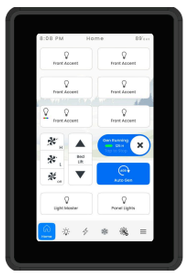
G4 Common Tap



Exterior 5”



Passenger 5”

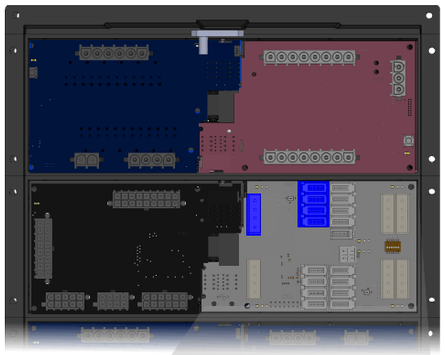


Entry 5”

SPYDER CONTROLS CORP

Orange Network

M1 Mid Panel



SeeLevel Tank Monitor



Aqua-Hot



Solar Controller One



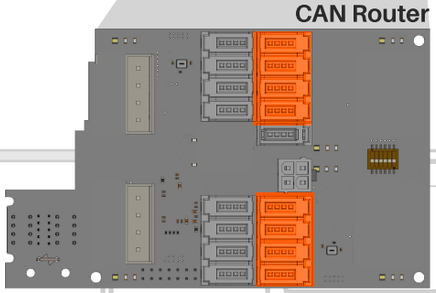
Solar Controller Two



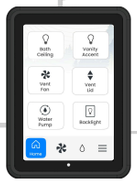
TRC Transfer Swtich



CAN Router



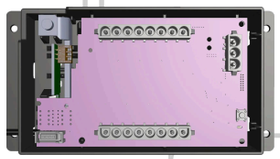
Galley 3.5”



G4 Common Tap



Bed Shade Module



G4 Terminator



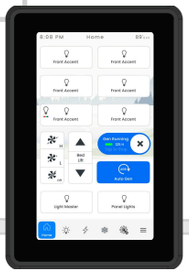
Mid Bath 3.5”



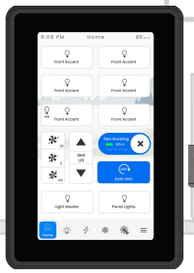
Rear Bath 3.5”



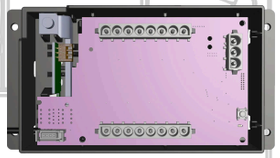
Bed 5”



Bed 5”



Front Shade Module



Dinette 3.5”



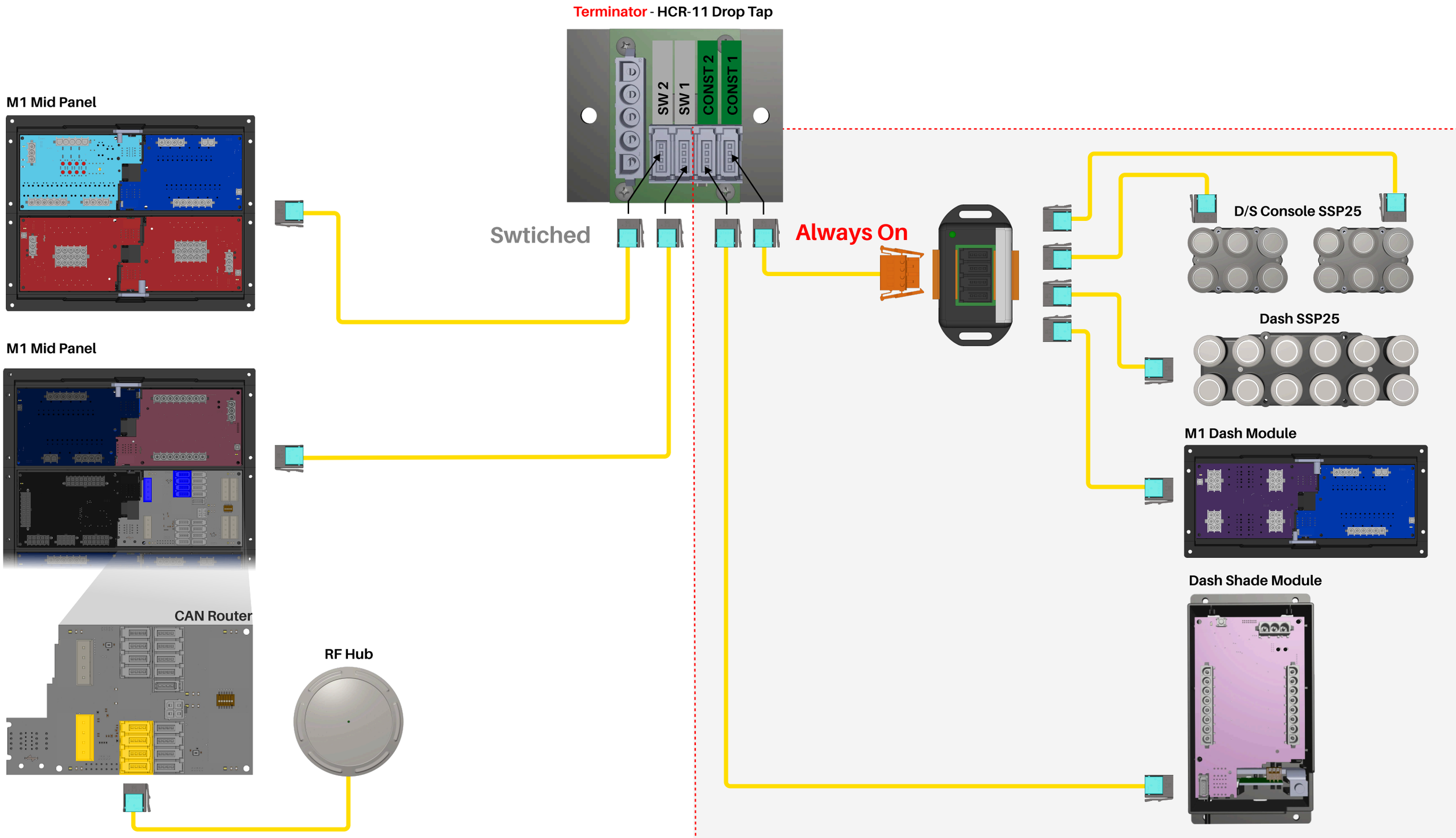
G4 Terminator



SPYDER CONTROLS CORP

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.



SPYDER CONTROLS CORP

Additional Information

Connectors

Connectors



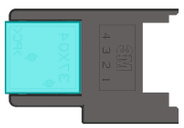
Male Network End
Spyder P/N: CON824204
Tiffin P/N: 5066157
Manufacturer P/N: 37104-2165-000 FL 100



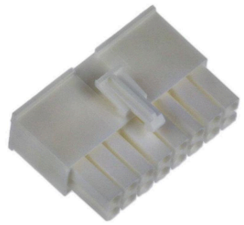
12 Pos - Mini Fit Jr Connector
Manufacturer P/N: 770581-1
Matching Pin (16-20 AWG)
Manufacturer P/N: 171639-1



3 Pos - Mate-N-Lok Connector
Manufacturer P/N: 350766-1
Matching Pin (14-20 AWG)
Manufacturer P/N: 350550-1



Female Network End
Spyder P/N: CON824204
Tiffin P/N: 5066157
Manufacturer P/N: 37104-2165-000 FL 100



16 Pos - Mini Fit Jr Connector
Manufacturer P/N: 770583-1
Matching Pin (16-20 AWG)
Manufacturer P/N: 171639-1



4 Pos - Mate-N-Lok Connector
Manufacturer P/N: 350779-1
Matching Pin (14-20 AWG)
Manufacturer P/N: 350550-1



4 Pos - Mini Fit Jr Connector
Manufacturer P/N: 0039013042
Matching Pin (18-24 AWG)
Manufacturer P/N: 0039000039



18 Pos - Mini Fit Jr Connector
Manufacturer P/N: 770584-1
Matching Pin (16-20 AWG)
Manufacturer P/N: 171639-1



5 Pos - Mate-N-Lok Connector
Manufacturer P/N: 643406-1
Matching Pin (14-20 AWG)
Manufacturer P/N: 350550-1



8 Pos - Mini Fit Jr Connector
Manufacturer P/N: 770579-1
Matching Pin (16-20 AWG)
Manufacturer P/N: 171639-1



2 Pos - Mate-N-Lok Connector
Manufacturer P/N: 350777-1
Matching Pin (14-20 AWG)
Manufacturer P/N: 350550-1



6 Pos - Mate-N-Lok Connector
Manufacturer P/N: 640581-1
Matching Pin (14-20 AWG)
Manufacturer P/N: 350550-1



10 Pos - Mini Fit Jr Connector
Manufacturer P/N: 770580-1
Matching Pin (16-20 AWG)
Manufacturer P/N: 171639-1



2 Pos - Mate-N-Lok Connector
Manufacturer P/N: 350777-1
Matching Pin (14-20 AWG)
Manufacturer P/N: 350550-1



8 Pos - Mate-N-Lok Connector
Manufacturer P/N: 640582-1
Matching Pin (14-20 AWG)
Manufacturer P/N: 350550-1

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



6 Pos - Mate-N-Lok Connector

Manufacturer P/N: 1-480704-0

Matching Pin (14-20 AWG)

Manufacturer P/N: 350550-1



12 Pos - Mate-N-Lok Connector

Manufacturer P/N: 1-480708-0

Matching Pin (14-20 AWG)

Manufacturer P/N: 350550-1



15 Pos - Mate-N-Lok Connector

Manufacturer P/N: 350736-1

Matching Pin (14-20 AWG)

Manufacturer P/N: 350550-1



Mate-N-Lok Pin Extractor

Manufacturer P/N: 305183



Mini Mate-N-Lok Pin Extractor

Manufacturer P/N: 189727-1



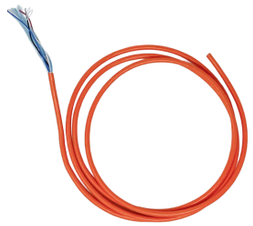
Wago Connector

Tiffin P/N: 5015508

Manufacturer P/N: 231-304/037-000

Wago Hook Tool

Manufacturer P/N: 231-131



RV-C Cable (By FT)

Tiffin P/N: 5064775



RV-C Cable (20ft W/ MALE ENDS)

Spyder P/N: BSPLZL200-20



G4 Common Drop Tap

Spyder P/N: BBCKZK200

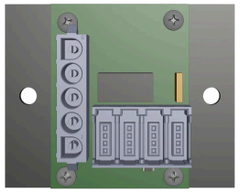
Tiffin P/N: 5016592



G4 Terminator Drop Tap

Spyder P/N: BBCKZK400

Tiffin P/N: 5051936



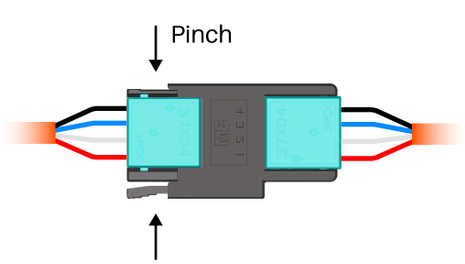
Terminator - HCR-11 Drop Tap

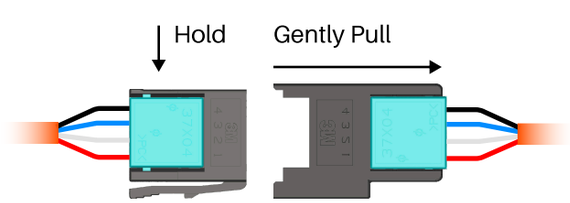
Spyder P/N: BMODZGAN6-1

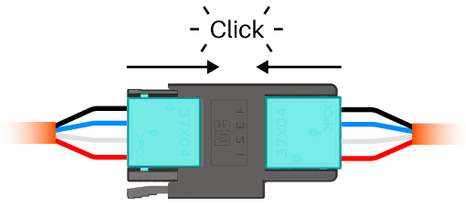
Tiffin P/N: 5131310

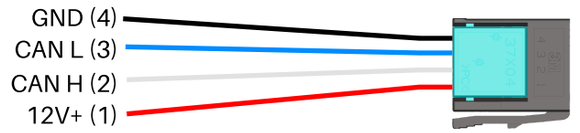
How To Properly Crimp RV-C Network Ends Video

Scan with phone camera









SPYDER CONTROLS CORP

SPYDER

CONTROLS CORP