

Zion SRT

2021 OWNER'S MANUAL



www.roadtrek.com

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Introduction to Your Zion

Congratulations on the purchase of your Roadtrek and welcome to the Roadtrek Inc. family. The information included in this manual is meant to help and guide you with your vehicle so that you know how to properly use the many functions your Roadtrek has to offer.

Please keep this manual in your vehicle as a reference for when you are travelling. If you have any questions or comments on information found in this document, please contact us at manuals@roadtrekinc.com.

Disclaimer

This owner's manual was created to help owners with general use, maintenance, and care of their RV. Roadtrek Inc., conducts ongoing product development and uses photos from multiple models and vehicles to create these instructions. The included images may not reflect exact makes and/or models however, the information remains relevant and useful. These instructions are provided as general guidelines only, as certain add-ons or customization to an RV may change the manner these operations are performed.

Copyright

Roadtrek Inc. reserves the right to make changes at any time, without notice in colors, materials, equipment, specifications, and models. The information contained in this manual is intended as a guide only, as continuous improvements are ongoing.

Please visit <https://www.roadtrek.com/owners/#section-manuals> for the most up to date manuals available. **Some motorhomes may be shown with equipment that is optional. Accessories shown in any photographs may not be included.**

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Do's and Don'ts

Symbol Legend



Information: Useful information and knowledge.



Warning: Not following this instruction may lead to negative results.



Caution: You should follow this instruction.



Danger: Do NOT perform this action. Doing so may result in injury, severe damage, or death.

Regulatory Warnings

LEVEL	ITEM	INSTRUCTION
	Warning	Do not place propane cylinders inside the vehicle. • Propane cylinders are equipped with safety devices that relieve excessive pressure by discharging propane to the atmosphere. • Propane gas is highly flammable. This action can lead to fire or explosion and result in death or serious injury.
	Danger	Do not use gas cooking appliances for comfort heating. • Can lead to carbon monoxide poisoning, which can lead to death or serious injury.
	Warning	Gas cooking appliances need fresh air for safe operation. • Open vents or windows slightly or turn on exhaust fan prior to using cooking appliance. • Gas flames consume oxygen, which should be replaced to ensure proper operation. • Improper use can result in death or serious injury.
	Caution	Do not fill propane containers to more than 80% of their capacity. • A properly filled container contains approximately 80 percent of its volume as liquid propane.

		• Overfilling propane container(s) can result in uncontrolled propane flow, which could lead to a fire or explosion and result in death or serious injury.
	Danger	If you smell propane: 1. Extinguish any open flames and all smoking materials. 2. Shut off propane supply at the container valve(s) or propane supply connection. 3. Do not touch electrical switches. 4. Open doors and other ventilating openings. 5. Leave the area until the odor clears. 6. Have the propane system checked and leakage source corrected before using again. 7. Ignition of flammable vapors could lead to a fire or explosion and result in death or serious injury.
	Danger	Vehicles and equipment powered by internal combustion engines and placed in recreational vehicles can cause carbon monoxide poisoning or asphyxiation, which could result in death or serious injury. • Do not store, transport, or dispense fuel inside this vehicle.

Information, Cautions and Warnings

LEVEL	ITEM	COMMENT
	Seat Belts	Use only seats equipped with factory installed seat belts while the vehicle is in motion. All passengers must be seated in these seats only, with the seat belts fastened while the vehicle is in motion.
	TV	Turn the TV off and stow it while the vehicle is in motion.
	TV	The flat screen TV should not be stored inside the Roadtrek in cold temperatures. Remove it to reduce the chance of damage from the cold. Check the Owner's Manual for the TV for storage and operating temperatures.
	TV	To remove the TV, release the bracket on the back of the TV mounting bracket and remove the RCA cables, power supply cable and antenna cable.
	Electrical	It is recommended that a surge protector or EMS system is used to protect your electrical system from outside influences that could damage your inverter and other sensitive electronics.
	Propane	Do not store propane tanks inside your vehicle. Propane tanks are equipped with safety devices which relieve excessive pressure by discharging gas to the atmosphere.
	Propane	Do not refuel the propane tank to more than 80% of its capacity.
	Propane	The propane tank valve must be closed and all pilot lights, appliances and their igniters must be turned off during refueling of the motor fuel tank and/or the propane fuel tank. Only qualified personnel should refuel your propane tank.
	Propane	Purchase propane from a reputable propane facility. Contaminated propane is a common cause of system failure and is not covered under any warranty.

	Propane	The BBQ quick disconnect is regulated to 10 P.S.I. Please ensure that all devices connected to this are either rated for high "pressure" or have their own regulator. Many grills sold in the United States are "low pressure" (1/2 P.S.I.) and will require an additional regulator to step the pressure down to a useable level. If hooked directly to the BBQ quick disconnect, they will be a severe fire hazard.
	Propane Leak Detector	Do not block the air circulation in the area where the Propane Leak Detector is located.
	Propane Leak Detector	Battery disconnect switch must be in the "ON" position for the propane detector to function.
	Flammable Liquids and Gasses	Do not store gasoline or other flammable liquids inside your vehicle.
	Heating	Never use cooking appliances or unvented propane heaters for space heating purposes. They need fresh air for safe operation.
	Heating	The heating furnace provides its own outside combustion air and exhausts to the outside.
	Heating	Portable fuel burning equipment, including wood, charcoal, and liquid fuel grills, and stoves, should not be used inside your vehicle. Use of this type of equipment inside your vehicle may cause a fire or asphyxiation.
	Carbon Monoxide Leak Detector	Do not block the air circulation in the area where the Carbon Monoxide Leak Detector is located.
	Carbon Monoxide Leak Detector	Battery disconnect switch must be in the "ON" position for the Carbon Monoxide Leak Detector to function.
	110 V Electrical Servicing	Prior to servicing any 110 V, ensure that the power sources are disconnected.
	Exterior Access Doors	Ensure the shore power cord and city water supply lines are disconnected and in their stored positions before the vehicle is put in motion.
	Awning	Close the sliding side door prior to opening or closing the awning.
	Dining Table	When storing the dining table, secure in place using the Snap-On strap.
	Extra Counter Space	Make sure the stove is off and has cooled prior to lowering the stove cover.
	Battery	Battery acid can burn your skin and damage clothing. Protective eye wear and gloves should be worn while handling batteries. Effective June 2010 all Roadtrek Inc. installed batteries are sealed AGM batteries that do not require the addition of water.

	Battery	Disconnect the inverter/charger prior to disconnecting the auxiliary battery.
	Generator	The Roadtrek is supplied with a DC generator located underneath the engine. Never submerge the generator. Use a spotter when launching a boat or crossing streams.
	Wastewater Storage and Dumping System	Close the gray water gate valve before using the wastewater system.
	Freezing	Under moderate subfreezing conditions, antifreeze is required in the exterior freshwater tank, toilet cassette and gray wastewater tank. Use RV antifreeze in accordance with the manufacturer's instructions.
	Electrical Servicing	This unit has a 12VDC, 110VAC and potentially 36-volt solar system. These systems need to be disconnected before working on them.

Before You Head Out

Your new Roadtrek is ready to go with just a little bit of preparation. To prepare for your first trip, you should:

- Read this manual.
- Contact your dealer with any questions.
- Plan your trip.

Then use this quick checklist:

- The day before your trip:
 - Charge your batteries by plugging in overnight.
 - Cool your refrigerator by turning it on.
 - Chill any beverages in your home refrigerator.
 - Fill your freshwater tank with clean tap water.
 - The day of the trip:
 - Load the refrigerator with cold food (from your home refrigerator).
-

Coming Home

When you come home, there are a few maintenance tasks you should do to get your Roadtrek ready to go for next time. Refer to other sections in this manual for the procedures listed here.

- On your way home, dump the gray and black tanks at a convenient facility. Visit the owner's section of our website to read the HOWTO: Wastewater Dumping guide for a concise description of the procedure to do this. Some RV parks and gas stations will let you dump for a fee, some city wastewater plants will let you dump for free but there is no real pattern, so local knowledge is vital in locating dump stations. The website <http://www.sanidumps.com> is a good resource. The maps for each state and province are Especially helpful: <http://www.sanidumps.com/maps/help.php>
 - At home, flush the water tank and fill it with fresh chlorinated water if you will be using it in the next few days. Otherwise, drain the tank. Don't let water you are planning to use sit in your tank for more than a week or so, and don't let any water sit in your tank for more than two weeks, whether you plan on using it or not. Over time, the chlorine goes away, and the microbes come out to play.
 - To flush the tank, fill it using the fill port in the driver's side rear panel and open the freshwater tank drain under the tank at the rear of the Roadtrek.
 - Plug in overnight to fully charge batteries.
Turn off and clean out the refrigerator and prop the door open to let it air out.
Turn off the battery disconnect switch to keep from draining your batteries.
 - If you turn everything off and you have solar panels, the panels will keep your AGM coach batteries topped up while your Roadtrek is parked. (non-lithium version). If you don't have solar panels, it would be prudent to check your coach battery state of charge every month or so and charge them if necessary. If you don't turn everything off, even with solar panels, you will probably come back to dead batteries.
-

Interior Living Space

Cabinets

Your Roadtrek is equipped with cabinet latches which prevent the door from opening while the vehicle is in motion. The pushbuttons on the cabinet latches toggle from latched (button in) to openable (button out) by pressing the button. (Pictures 13.1, 13.2)

To open a cabinet, press the button to pop the latch, pull gently on the latch, and the cabinet door will open.

To close a cabinet, make sure the latch is still open (button out), then close the door. Once the cabinet door is closed, press the latch button in to lock the cabinet.



Do not attempt to close the cabinet doors while the latch button is pressed in. This will break the latch. Always make sure the button is out before attempting to close a cabinet door.



Weight in each cabinet should not exceed 50 lbs. Exceeding this weight could cause the cabinet to break or for the latch to not engage properly.



It is not recommended to keep large, round, and/or heavy objects in a cabinet unsecured as they may roll around and apply excessive pressure to the inside of the cabinet doors as you drive. The objects may shift position with vehicle motion and cause injury when the cabinets are opened. For this reason, Roadtrek Inc. recommends that you are aware of the objects that you store in overhead cabinets.

If you load a large amount of weight into a cabinet, experience large swings in temperature or humidity, ride on bumpy roads at high speeds frequently, or sometimes as part of normal wear and tear, the cabinet hinges may go out of adjustment. You will know the cabinet is out of adjustment when it will not open with the button out, or not latch with the button in.



Picture 13.1



Picture 13

Cabinets (Continued)



Picture 14.1

Apply moderate upward pressure and GENTLE outward pressure with both thumbs on the bottom corners of the door to open a stuck cabinet



Picture 14.2

Turn screw clockwise to lower cabinet face (if it won't latch), counterclockwise to raise it up (if it won't open)



Picture 14.3

Each cabinet has an adjustable arm to hold the door open

To open a cabinet stuck shut with the button out, apply pressure UPWARD with your thumbs on both bottom corners of the cabinet door while simultaneously applying gentle pressure to open it, as shown above left. (Picture 14.1)



DO NOT FORCE THE DOOR OPEN BY PULLING OR PRYING ON IT - you will break the latch.

The screw in the top part of the hinge nearest the pivot point adjusts the vertical location of the door. Screw out to raise the door and fix stuck doors; screw in to lower the door and fix doors that won't stay shut when latched. (Picture 14.2)

To adjust the door brake, use an allen key to adjust the tension on the brake. Use caution when adjusting as too much tension increases the stress on the hinge when closing the door

Galley Cabinets

Immediately beneath the galley countertop there two cabinets and one drawer to hold your kitchen supplies. The drawer underneath the stove pulls out and can be used to hold silverware and small cooking utensils. (Picture 15.1)



Picture 15.1

Galley with propane cooktop

Lights

All but 2 of the coach lights are controlled via the control panel. The oval ceiling lights and circular spotlights may be individually controlled and can be turned on by tapping the lens area of a given light. (Picture 15.2) NOTE: the battery disconnect switch must be on for any of these lights to work. These are LED lights, and consume very little electricity.



Picture 15.2

Tables

The tables (Pictures 17.2, 18.1) can be set up to use either the front or rear lounge areas for dining, computer, gaming, or other recreational use. The table leg is stored in the closet to the left of the galley, next to the water heater. (Picture 16.1) The leg keys into a T-nut fitting in the floor plate. (Picture 16.2) Rotate the table leg clockwise and it will tighten into place within a couple of turns. If it does not, unscrew the T-nut all the way and try again.



Do not force the T-nut. If it's set up right, it will lock in place with very little effort.

The tabletop is stored in the rear door. (Picture 18.2)



Picture 16.1

Table leg storage in wardrobe to right of galley



Picture 16.2

Table leg T-nut attachment



Picture 18.2

Tabletop storage in back door

Front Table Setup



The vehicle will not drive unless the front seats are locked and forward facing.



Picture 17.1

To rotate the front seats, lift on the front inside corner trim



Picture 17.2

Front lounge table

Rear Table Setup



Picture 18.1

Rear dining table



Picture 18.2

Tabletop storage in back door

Captain's Seats

The two captain's seats in the front of your Roadtrek are adjustable fore-and-aft by pulling up on the bar under the front of the seat and will swivel when the inside corner is pulled up. Always return the seats to the forward-facing position when driving. They will lock into this position and stay locked until the swivel tab is raised again.

To create a front lounge area, first ensure that the seats are fully upright by loosening the recline adjustment and bringing the backs of the seats forward. Do not attempt to pivot a reclined seat. Use the fore-and-aft adjustment while pivoting the seats to allow the sides of the chairs to clear the armrests on the vehicle doors, the engine cover, and other obstructions. Do not force the seats around. Swiveling the driver's seat may require you to loosen the tilt steering wheel adjustment and move the steering wheel as far forward and up as possible. Opening the front doors slightly will allow you to clear the door armrests easily.

Window Treatments

The nightshade curtain blocks airflow. (Picture 19.1) If you leave the window open, then close the nightshade, close all other windows, and then close the side door, it is possible for the curtain to get blown out of the track. Always close the window prior to closing the nightshade.

The window curtains slide to the right and left. The plastic clip is not a pull tab; it is a locking tab. Always pull on the aluminum bar. The curtains are configured so that the nightshade side covers the window opening for additional privacy.



Picture 19.1
The side window screens –
nightshade side



Picture 19.2
The side window screens –
bug screen side

Ventilation

Your Roadtrek is equipped with a ceiling mounted ventilation fan. (Picture 21.1)

The fan has a cover that must be raised by turning the large knurled knob or with the remote. Raise the cover, then use the remote to the desired speed and temperature.

The fan also has a thermostat, which will allow you to set the temperature at which the fan comes on. If you want the fan to operate at all temperatures, turn the thermostat all the way toward the blue section of the dial.

There is also a fuse in the body of the fan, in addition to the fuse in the distribution panel. Check both this fuse and the one on the 12-volt fuse panel if your fan stops working.

For more details, please refer to the Fantastic Fan manual.



Turn the fan off and close the cover completely before driving. The cover will rattle and might be damaged by wind pressure if you drive with it open.



Open the windows and open the nightshade slightly to allow for airflow



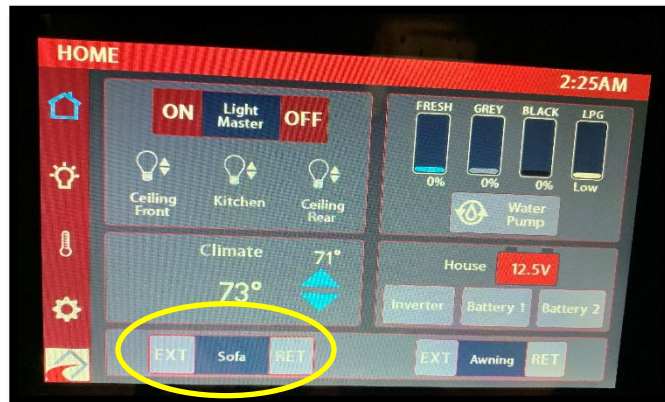
Picture 21.1

Sleeping Facilities

Your Roadtrek has beds that can be configured as a king bed or twin bed. Experiment with different configurations to find what works best for you.

The Bluetooth switch to lower the sofa into the bed position is located on the passenger side in the rear next to the thermostat. (Picture 22.1) The sofa can also be raised and lowered using the Firefly monitor panel. (Picture 22.2)

The seatbelts for the power sofa are attached to the floor behind the power sofa. To use the power sofa as a seating position while driving, these seat belts must be threaded up through the gap between the seat back and bottom to secure passengers in these seating positions.



Picture 22.2
Sofa controls on monitor
panel



Picture 22.1
Power sofa switch

Power Sofa

To make the sofa into a twin bed, use the sofa switch to lower the sofa. (Picture 22.1) Remember to push the seatbelts through the sofa.



Picture 24.1

Forward facing sofa



Picture 24.2

The sofa in twin configuration



Picture 24.3

To make the king bed, lower the sofa, then retrieve the center board from under the driver's ottoman cushion



Picture 24.4

Move the ottoman cushions toward the center, and use the small backrest cushions to fill in the gaps and to hold the ottoman cushions in place



To make the sofa, remember to pull the seatbelts up through the sofa before raising it to a sitting position.

Bathroom Facilities

Door

The bathroom doors are secured by a pin which is attached to the right door. To secure the doors for driving, close the left door first, then the right door, and then push the pin down so that it engages behind the lip at the front of the bathroom floor. (Picture 25.1) Push gently on the top to secure the latch along the upper enclosure lip. This will prevent the doors from swinging open when the vehicle is in motion.



Always engage this pin before moving the vehicle, even for a short distance.

Using the Toilet

The enclosed bathroom in the Roadtrek contains a marine toilet. To flush the toilet, press the foot pedal located at the bottom of the front of the toilet bowl. (Picture 25.2)



Picture 25.1

Bathroom door pin



Picture 25.2

Toilet flush pedal

Shower



Picture 26.1
Shower connection and knob



Picture 26.2
Shower drain



Picture 26.3
Shower curtain and light

To take a shower, unscrew the drain stopper in the center of the bathroom floor. (Picture 26.2) Release the hook and loop fastener straps retaining the shower curtain and slide the shower curtain along its track to enclose the shower space. (Picture 26.3) Pull the knob on the spout up and adjust the water temperature as desired. (Picture 26.1) There is a water cutoff on the shower nozzle to conserve water. When finished, either towel off or air dry the curtain before storing it. Refasten the drain stopper to prevent the contents of the gray water tanks from sloshing up into the shower area while driving and remove the shower hose from the sink connection. Push the knob back down to change the sink back into normal mode.

Outside Shower

The outside shower (picture 26.4) is located on the driver's side, towards the rear wheel, next to the model name decal. A key supplied with the coach will be needed to open the outside shower storage door.



Picture 26.4
Outside shower

Appliances

TV

The Smart TV is in the rear lounge area on the passenger side. The television uses 120 volts, so the inverter, generator, or shore power must be on and available for it to work. The TV is supplied with a remote control.

Antenna and Cable Connections

There are two antenna connections in the cabinet above the TV. One is labeled for the antenna, the other is available for owners to connect their own device. Connect the cable to the appropriate jack. (Picture 27.1)



Picture 27.1
TV connections

Refrigerator

The refrigerator is an electric compressor model that runs on 12-volt DC power. When shore power is available, the inverter charger provides enough power to run the fridge without discharging the batteries.

The refrigerator temperature control is inside the unit, on the right side of the freezer compartment. (Picture 27.3) Please see the appliance manual for operation details.



Picture 27.2

Push on the latch to open fridge door



Picture 27.3

Thermostat is located inside on the rear wall



Do not block the vents at the top and bottom of the fridge. These vents must be unobstructed for the refrigerator to work properly.

Microwave Oven

The oven is a standard microwave oven. It operates much the same as the microwave at your house. It is probably lower powered, so cooking may take a bit longer.

The microwave will operate from the batteries through the inverter for reheating purposes or other brief use. However, for extended microwave use, you must be connected to shore power or have the optional generator running.

Propane Cooktop (Picture 28.1)

The propane cooktop needs fresh air for its safe operation. Make sure to open a window and turn on the overhead fan for proper ventilation. The igniters are powered by 12-volt coach battery power, so turn the battery disconnect switch on before using the propane cooktop. For detailed information on this appliance consult the cooktop Owner's manual. (Picture 28.2 an optional Induction Stove)



Picture 28.1

Propane cooktop



Picture 28.2

Optional Induction Stove

Hot Water

Your Roadtrek is equipped with a propane fired tankless water heater. The heater has no tank and operates on demand. At low flows water may be hot, while at high flows water may be cooler, this is normal. When you turn on the water heater you will not hear it fire up. It only ignites when it senses a water demand. The power switch is located on the water heater, (Picture 29.2) which can be found behind the access door on the driver's side exterior of the coach and the control panel is located on the inside of the cabinetry, floor level below the fridge.(Picture 29.3) Refer to your Girard water heater manual for details of operation.



Picture 29.2
Girard water heater



Picture 29.3
Water heater control panel

Outside Your Roadtrek

Awning

Your Roadtrek has a roll up awning. (Picture 30.1) The awning is controlled by the Firefly interface, simply press the touch screen switch to extend or retract. (Picture 30.2) The awning has two support struts that must be used to support the awning. (Picture 30.3) These are secured to the two attachment points on the side of the Roadtrek. Refer to the awning manual for the proper way of securing the awning supports to the attachments. To stow the awning, detach the supports, stow them in the awning housing, and retract the awning.

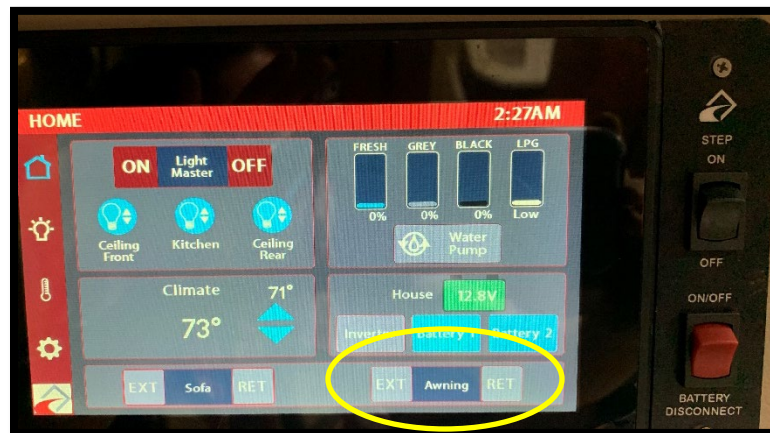


Awnings are susceptible to damage from wind and rain, for this reason should never be left extended when you are away from the vehicle. If a thunderstorm or other windy weather is imminent, stow your awning until the wind calms down.



Picture 30.1

Power awning



Picture 30.2

The awning power switch



Picture 30.3

Awning support

If the power to the vehicle is not available, the awning can be safely retracted using the manual override located on the idler (right) end of the case. (Picture 30.4)

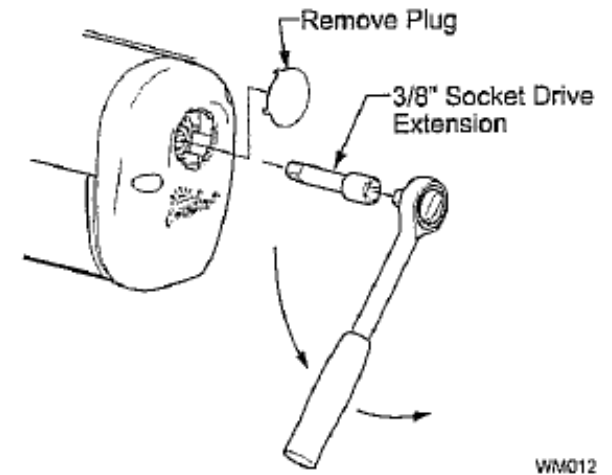


This procedure cannot be used to extend the awning.

1. Remove the plug from the right end cap and save.
2. Insert a 3/8" socket drive extension and handle into the square drive hole inside the endcap.
3. Turn the handle clockwise until the awning is retracted.
4. Replace the plug.



After closing the awning with the manual override, the lead rail may move out from the case 1/4"-1/2". This is normal and the awning is secure for travel until the power is restored or repairs are completed. Do not attempt to force the lead rail in with the override, serious damage can occur to the awning.



Picture 30.4

Exterior Shower

The outside shower hose attaches to the faucet inside the rearmost driver's side storage compartment, behind the rear wheel. This faucet provides hot and cold running water from the same sources as your inside faucets. When finished, disconnect, and store the shower hose and nozzle.

Side Doorstep

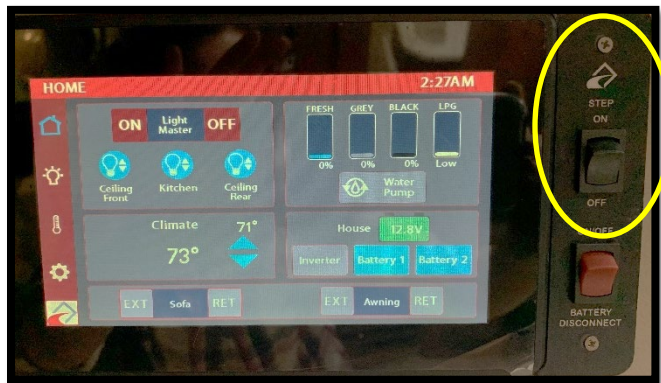
Your Roadtrek is equipped with a step that automatically extends when the side door is opened for easy entry and exit out of your vehicle. The controls can be accessed thru the firefly control unit. With the step switch on, the step will extend once when the door is open and remain extended even if the door is closed. With the switch off, the step will extend and retract every time the door is opened and closed. (Picture 31.1, 31.2)



For safety reasons, the step will automatically retract when the ignition is turned on, even if the step switch is on. This is to prevent damage caused by driving with the step extended.



The driver's side and passenger's side doorsteps are not affected by this switch and will extend and retract every time the doors are opened.



Picture 31.1
Step switch



Picture 31.2
Step extended

Rear Door Screen

Roadtrek's have a rear screen which allows you to open the rear doors to get fresh air and a better view, without bugs coming in or (attended) pets going out. (Picture 33.1, 32.2, 32.3) The screen is attached to the rear door frame and cargo area floor. Along the bottom of the screen you can find three large pockets that can be used to store a range of different items. In addition to the bug screen, there is a built-in privacy blind that can be easily zipped up to provide full privacy.



Picture 32.1

Rear screen with full privacy



Picture 32.2

Rear screen with bug (and no-see-ums) net



Picture 32.3

Rear screen fully open

Side Door Screen

In addition to the rear door screen, there is also a side door screen which will allow you to keep the side door open for ventilation without admitting insects. The side door screen offers a bug (and no-see-ums) screen that comes equipped with a magnetic door catch that allows you to easily pass through the door without having to zip it open and closed. The screen can also be unzipped and rolled out of the way when not in use.



Picture 32.4

Side screen closed with bug (and no-see-ums) net



Picture 32.5

Side screen showing magnetic close



While sturdy enough to keep insects out, neither this screen nor the rear screen is designed to resist repeated and persistent attempts by pets to get out of the vehicle. Do not leave your pets unattended with the screen in place and the door open. They may take themselves for a walk.

Utilities

Just like your house, your Roadtrek has fresh water, electricity, wastewater disposal, heating, and cooling systems. In the Roadtrek, these systems are self-contained and travel with you.

Your vehicle should be reasonably level to allow normal operation of the system.

Fresh Water

Your freshwater tank uses a gravity fill system, located in the driver's side door pillar. You can fill the freshwater tanks from a convenient water spigot.

To fill the tanks with fresh water, open the driver's side front door and remove the orange plug in the freshwater fill port. (Picture 34.1) Fill until water comes out the hole.

City Water

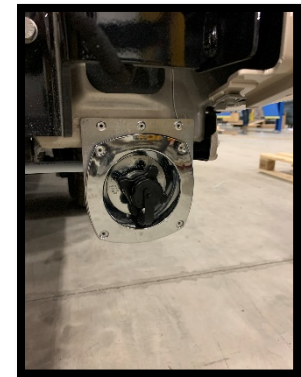
The city water connection is in the rear, underneath the rear bumper on the passenger's side. (Picture 34.2) Unscrew the white plastic protective cap and connect your clean hose to the water faucet and this connection point. Turn the faucet on and check for leaks, tightening the connections as necessary.

There is a pressure regulator in the connection. Visit the owner's section of our website to read the HOWTO: Potable Water Use guide for instructions on how to hook up to city water.



Picture 34.1

Fresh water tank fill



Picture 34.2

City water connection

Water Pump

To use the water in the tank, you need to turn on the water pump using the firefly Control Panel. (Picture 35.1)

Wastewater Gray Tank

Galley sink, bathroom sink and shower drain water drains into the gray water tank. The shower and sink have traps to prevent tank odors from entering the living space. Be sure to replace the screw-in plug in the shower floor after use to prevent gray water from sloshing up into the shower pan from the gray water tank while driving.

Black Tank

The black water tanks contain toilet waste. Visit the owner's section of our website to read the HOWTO: Wastewater Dumping guide for an explanation of which materials you can and can't flush down the toilet.

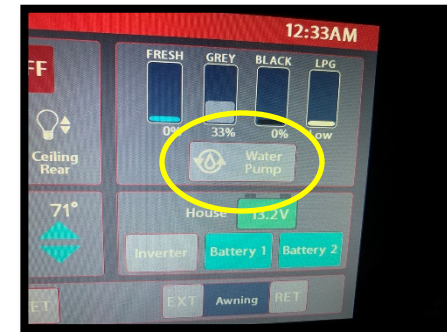
Indicators

The gray and black water tank level indicators found on the firefly control panel will give you an approximate indicator of your tank levels. (Picture 35.2) When the gray water tank is full, water will no longer drain down the shower and sink drains, and you need to dump the tank before running any more water. If you see fluid below the toilet valve in the bowl of the toilet, your black water tank is full and needs to be emptied before further use.

See Firefly Panel for more information.

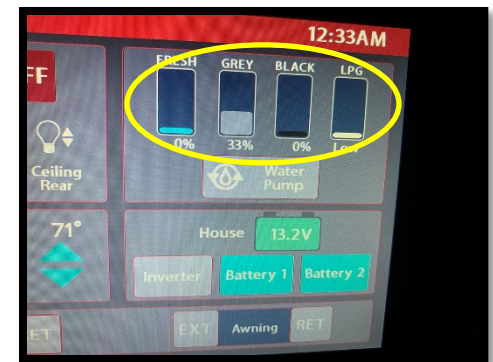


Ensure that both the black and grey water gate valves are closed before using the wastewater system. It is possible for the valves to open slightly especially after extensive driving. Black and grey water dump valves are accessed through the driver side storage door.



Picture 35.1

Water pump switch location
on monitor panel



Picture 35.2

Tank level indicators on monitor panel

Gate Valves and Macerator Hose Location

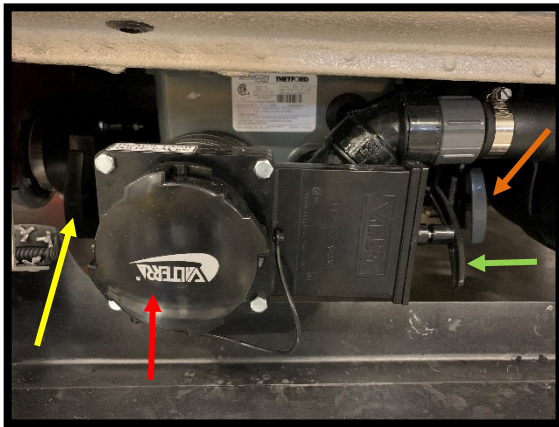
The wastewater holding tank gate valves and macerator system is located on the driver side of the van just forward of the rear tire behind a fold down access door (picture 35.3). To access the area, place a hand in each of the molded hand pulls and lift the door slightly to release it from the magnets and track and fold the door downward.

Once open you will find:

- 3" Conventional RV waste hose connection (red arrow in picture 35.4)
- 3" Gate valve for manual hose connection (green arrow in picture 35.4)
- 1.5" Gate valve for grey water holding tank (orange arrow in picture 35.4)
- 3" Gate valve for back water holding tank, located just behind forward door bracket (yellow arrow in picture 35.4)
- Locking storage compartment for flexible macerator hose and nozzle assembly



Picture 35.3
Wastewater holding tank gate valve
and macerator system location



Picture 35.4
Gate valves



Picture 35.5
Locking storage compartment for
flexible macerator hose



Picture 35.6
Flexible macerator hose

Heating and Cooling

Thermostat

The thermostat controls the furnace and the air conditioner. Set the thermostat on "heat" or "cool" and the thermostat is integrated in the firefly and it controls the furnace and the air conditioner. Review the Firefly control instructions to turn on "heating" or "cooling" and set the desired temperature.

Note the third setting, "fan", recirculates cabin air using the fan inside the air conditioning unit.

If this is set to any other, then "auto" the A/C fan will be on.

Air Conditioning

The air conditioner (AC) provides cooling for your Roadtrek using electric shore power or the under-hood generator. (Picture 36.3) The AC can be operated normally when you are plugged in to shore power.

Propane Furnace

The furnace is controlled by the thermostat located on the firefly unit. (Picture 36.1) The furnace requires propane and 12-volt power. The furnace can be used without shore power or generator use

Keep the aisle in front of the furnace clear of any obstructions when using the furnace to allow air circulation. The furnace can operate when outside temperatures are below freezing.



Picture 36.3
Roof-mount air conditioner



Picture 36.2
Propane Furnace

Propane System

The propane tank is located on the passenger side of the van, just forward of the rear tire (picture 36.4). The access door is hinged at the top and held closed magnetically. Grab the bottom of the door and swing it upwards to access the propane tank (picture 36.5).

⚠ Ensure the propane system and their respective appliances are turned off before filling the propane tank.

To turn the propane, supply off, locate the “Vapor” supply valve, and turn it clockwise to close it once the propane system has been filled. Do not forget to turn the valve back on to resume normal operations.

The external BBQ connection is also located in this area (picture 36.6), while this is not a full tank pressure it is considered a high-pressure connection.

⚠ Any BBQ connected to this **must** contain their own built-in regulators, remove the yellow protective cap to access the connection.

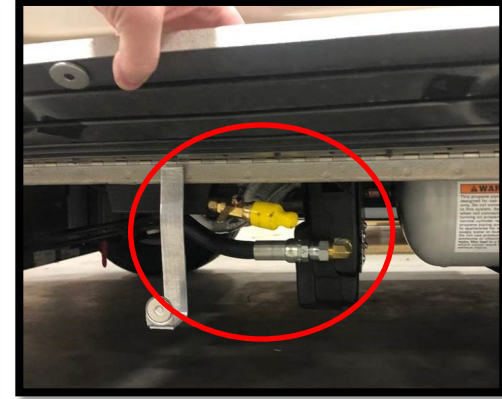
⚠ The connection required is **not** a ¼ inch quick connect, it is a special fitting called a Cast product male 829000.



Picture 36.4
Propane tank location



Picture 36.5
Propane tank



Picture 36.6
External BBQ connection

Main Shutoff valve



Propane Tank



Propane tank main shutoff valve

Propane Tank Filling

To fill the tank, first turn off all propane appliances, then turn off the tank shutoff valve.

We recommend that you find a qualified LPG technician to fill the tank. The following is an outline of the process to help you understand and not intended to be complete, nor to substitute for formal training or instruction.

✗ Do not attempt to fill the tank unless you have had appropriate training. Reading this manual does not constitute sufficient training to safely fill propane. If you overfill the tank, propane will vent uncontrollably out of the relief valve.

Attach the fill hose to the fill valve, open the bleeder valve slightly, and fill the tank to 80% capacity. The stop-fill valve should automatically stop the filling process. You may also see liquid propane spit out of the bleeder valve. Stop filling immediately and close the bleeder valve.

We recommend that you use only propane from certified LPG retailers.



Propane bleed valve and propane fill valve

Propane relief valve

There is a pressure relief valve on the tank. It is not easily visible on the Zion.

Under no circumstances should anyone fill the tank to more than 80% capacity; doing so can cause liquid propane to flow into the regulators. If this happens the regulators will have to be replaced. The relief valve with the blue plastic cover will automatically vent propane if the tank is overfilled or overheats. This is not a user-serviceable item; never attempt to remove the cover, test, or otherwise interfere with the operation of this valve. Sometimes an overfilled tank will not start venting until the temperature rises. If this valve should open, it is best to remove all sources of ignition and expeditiously leave the area until propane odor is no longer detectable. Venting unburned propane is a slightly more advantageous situation than a tank explosion, which is what this valve is designed to prevent.

Propane Sender

The propane tank has a level indicator with a remote sender to the Monitor Panel. Both the three-light system on the monitor panel and the gauge on the tank will give you a rough idea of your propane level; you will get a more accurate indication when you fill up. Note the amount it takes to fill your tank. The seven-gallon tank in your Roadtrek will hold 5.9 gallons / 22 liters when completely empty and filled to the correct 80% full level. Subtract the amount you buy from this number, and you'll know how much was in the tank when you filled it. You may find that the gauge will read one light when you still have a considerable reserve, or you may find that empty means empty, and you'd be wise to refill as soon as it goes down to one light. It depends on the characteristics of your individual propane system.

Slam shut valve

The propane system is equipped with a slam-shut valve. If this valve detects a sudden increase in flow (as if from a ruptured line) or a shock (as if from an accident) the valve will shut down the propane system. The slam shut valve can also be triggered by a sudden high demand, for example turning on both burners and the furnace. If you detect weak or no propane flow, and you have checked that you have propane in the tank, shut off all appliances and the main valve.

Turn on one burner on the stove and light it. Let it burn out completely.

Slowly turn on the propane, turning the main valve very slowly, until the valve is open. Check for propane smell as you turn on the valve. You may hear a click as the slam shut valve resets.

Once the valve is open, turn on the stove and try to light it. If air entered the line, it may take a short time to purge the air out of the line. It may take a few tries to reset the slam shut valve.

If you still have no propane at the stove, and you detect no propane smell, have a qualified technician check the system.

About Propane

Propane fuel is colorless, heavier than air and smells like garlic or rotten eggs. The odor is added by the distributor so propane may smell differently as you travel and purchase propane from various distributors. Being heavier than air it will collect in low spots and along the floor of your vehicle.

If you smell propane or your propane detector sounds, immediately get all occupants out of the vehicle, and turn the manual shutoff valve off. Wait for the propane to dissipate. Once the smell is gone, take the vehicle to a qualified repair facility to find and fix the problem before using the propane system again. If closing the manual shutoff valve does not stop the propane leak and you still smell propane, do not attempt to start, drive, occupy or otherwise use the vehicle in the presence of a propane smell.



Propane tanks must not be placed or stored inside your vehicle. Propane tanks are equipped with safety devices which relieve excessive pressure by discharging gas to the atmosphere. The Roadtrek's propane tank is mounted outside the vehicle and will vent propane where it can dissipate; any tank inside the vehicle will vent into the passenger compartment, creating an explosive propane-air mixture inside the enclosed space, which also contains many potential sources of ignition.



To reduce the danger of fire or explosion do not store gasoline or other flammable liquids inside your vehicle. In a moving vehicle, containers get tipped over or jostled and leak, and flammable vapors will create an explosive air-vapor mixture inside your passenger compartment, which also contains many potential sources of ignition.



Purchase propane from a reputable propane facility. Contaminated propane is a common cause of system failure.

Regulatory Concerns

Many jurisdictions place restrictions on propane on highways, in tunnels, on ferries, and on bridges. Please follow all local restrictions in all the jurisdictions along your trip. Some bridges/tunnels/ferries require you to have your main tank valve closed. This valve must be closed whenever the vehicle is in motion in any case, not just in certain areas. Other bridge/tunnels/ferries ban vehicles with propane tanks entirely. Plan and take an alternate route if passing through areas where vehicles with propane are prohibited.

Electrical System

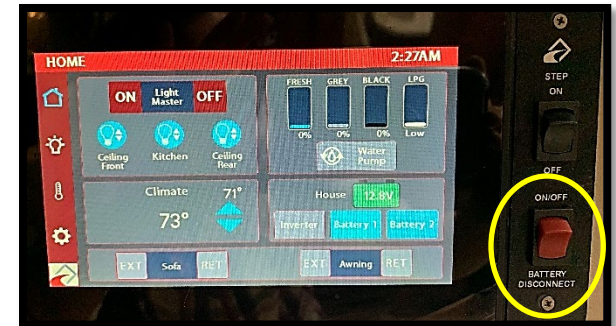
 It is recommended that a surge protector or EMS system is used to protect your electrical system from outside influences that could damage your inverter and other sensitive electronics.

Coach Batteries

Your Roadtrek uses a combination of Lithium and AGM batteries. These are sealed batteries. Do not attempt to open them. There is no maintenance possible on these batteries.

Battery Disconnect Switch

The battery disconnect switch provides power to all 12-volt appliances, such as the water pump, the refrigerator, the Firefly control panel and so forth. This switch should be off when you are not using your Roadtrek, and on whenever you are driving or camping.



Picture 37.1

Battery Disconnect

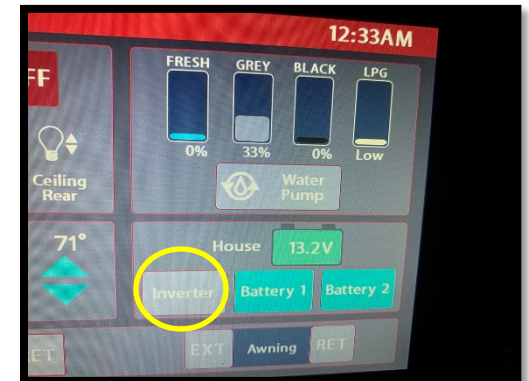
Charging Your Batteries

Inverter Charger

Your Roadtrek is equipped with a 3000-watt inverter-charger which converts 120-volt AC (household current) to 12 volts DC when you are connected to shore power. This 120-volt power is used to power your 12-volt DC appliances as well as charge your batteries. Whenever you are receiving either source of 120-volt power, you are charging your batteries.

Under hood Generator

Your Zion is equipped with a under hood generator. This generator operates transparently to you. There is no special maintenance or usage instructions to operate this generator; it runs whenever your vehicle engine is on.



Picture 37.2

Inverter Switch

Solar

The provided solar panels will charge your batteries when sufficient sunlight is available. The solar charge controller (Picture 38.1) is installed at the factory for the type of panels and batteries installed on your vehicle, and Roadtrek strongly recommends that you make no adjustments or changes to the charge controller or its programming. If equipped with a display, the charge controller usually displays either system voltage or amperes generated by the panels.

On Board 120 Volt AC Power

Standard 3000W Inverter

The standard configuration includes a 3000-watt inverter. (Picture 38.2) This inverter provides 120-volt AC (household current) for the outlets in your Roadtrek; primarily the ones running the TV and the DVD player. It will run the microwave and the air conditioner.

The inverter is configured at the factory for the batteries and power sources in your Roadtrek. Please do not change any settings without consulting the factory.



Picture 38.1

Solar charge controller

Shore Power

The shore power connection is through the shore power cord, stored in the driver's side large compartment. See Outside your Roadtrek for location. The switchover from shore power to inverter is automatic.

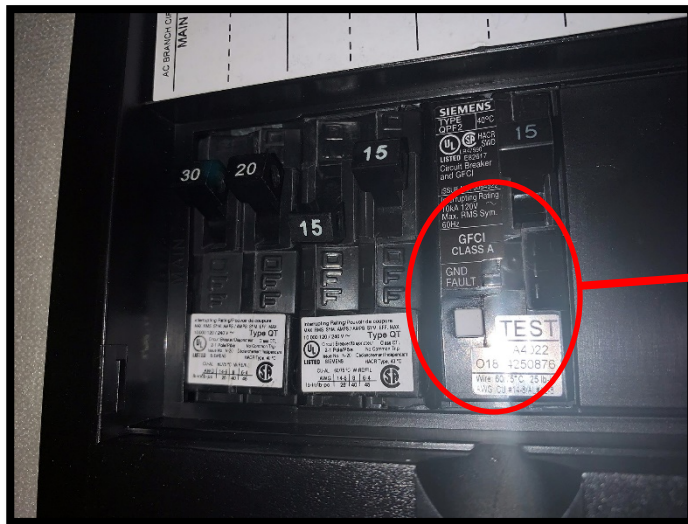
To connect to external (shore) power, open the side compartment and remove the power cord. Plug the power cord into the campsite 30-amp power source. Visit the owner's section of our website to read the HOWTO: Shore Power guide on how to connect and disconnect to shore power.



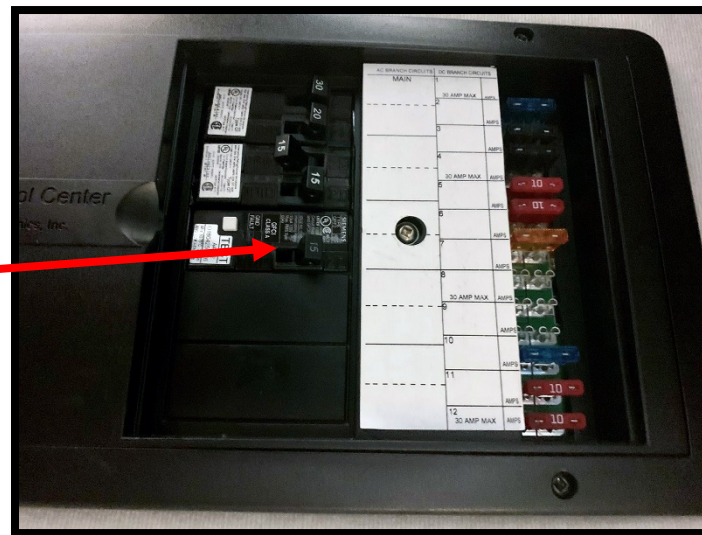
Running certain appliances when plugged into less than 30 amps will result in component damage

Outlets

The outlets are operated from the inverter, generator, or shore power. Further, the outlets are protected by GFCI. The outlets are operated from the inverter, generator, or shore power. Further, the outlets are protected by GFCI. The GFCI is located above the driver's seat at the distribution panel.



GFCI located on the fuse panel above the driver's seat



Breaker and fuse panel above the driver's seat

Monitor Panel

Location

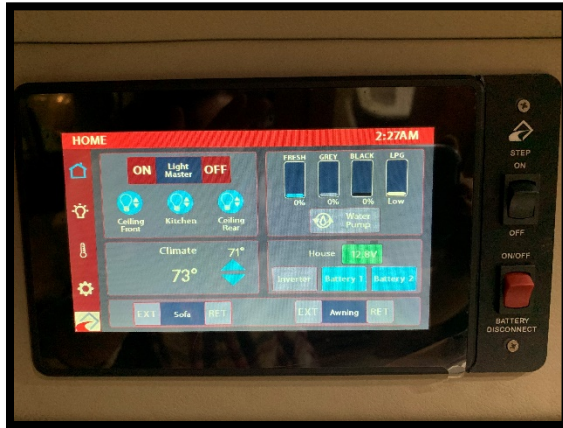
The Firefly monitor panel is located inside the side door, above the doorframe, to the left of the galley. (Picture 40.1). The battery disconnect switch must be in the on position for the Firefly control panel to function.

Power Sources

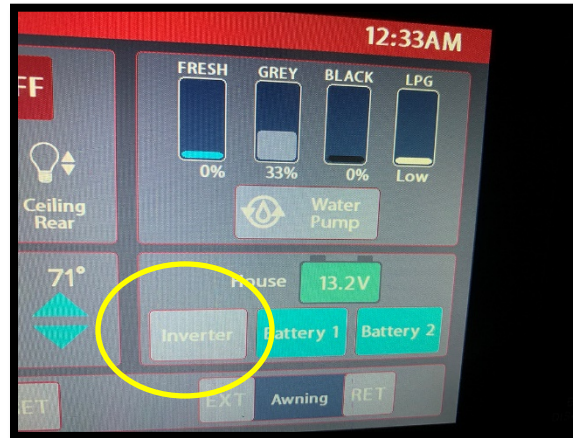
The monitor panel controls 2 separate power sources: the 12-volt DC and the 120-volt AC power via the inverter, shore power, or optional generator.

12 Volt DC Power

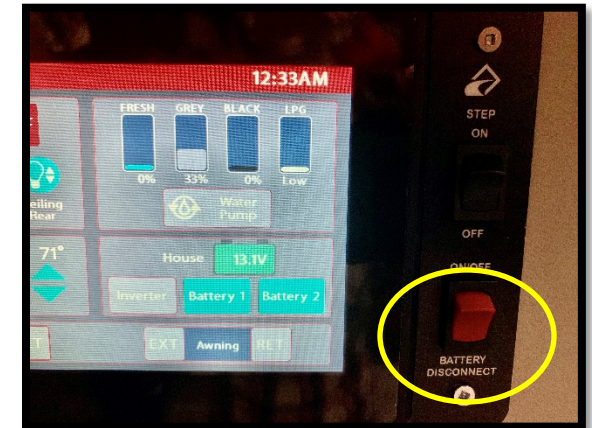
The power to the 12-volt DC outlets and appliances is controlled by the battery disconnect switch located adjacent to the Firefly monitor. This switch must be on for any of the 12-volt electrical devices to work. Remember to turn off two switches -the inverter switch and the battery disconnect switch when your Roadtrek is not being used to avoid discharging the batteries.



Picture 40.1
Monitor Panel



Picture 40.2
Inverter switch



Picture 40.3
Battery disconnect switch

Inverter

The inverter provides 120-volt AC (household current) to the 120-volt appliances and wall outlets. (Picture 40.2) The switch on the inverter unit should always remain in the off position.

Shore Power

Shore power is the name for power supplied by a utility company that you plug into to provide power to your Roadtrek. Please visit the owner's section of our website to read the HOWTO: Shore Power for a concise guide to plugging in and unplugging from shore power.

Other Switches

An in-depth description of all other switches can be found in the Firefly Panel Manual located in the appendix section of this owner manual.

Distribution Panel

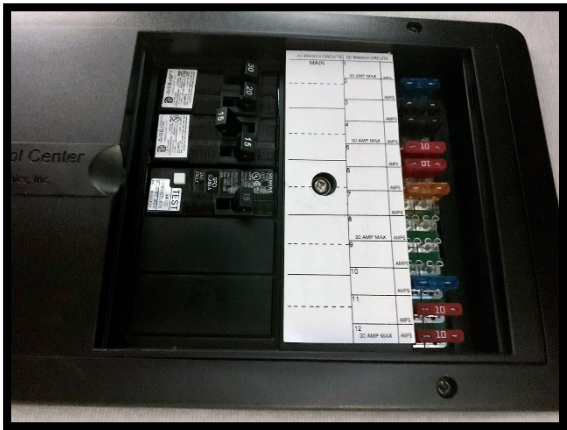
The distribution panel is in the headliner above the driver's seat. The 120-volt AC breakers, GFCI and the 12-volt DC fuses are behind a black plastic cover on the right side.

AC Breaker

Flip the cover to the right and note the sticker under the cover with the identifying information on each breaker. (Picture 44.1) When storing the Roadtrek for the winter, turn off the battery disconnect switch, the inverter, and all circuit breakers in this panel.

12 Volt Fuse Panel

The 12-volt fuses are on the right side of the distribution panel with the labels for each fuse on the inside of the cover.



Picture 44.1

Breaker and fuse access

DANGER: Hazard of electrical shock or burn TURN OFF power supply before servicing equipment		
58190542	30 Amp, 110 VAC MAIN	A
	20 Amp, 110 VAC Roof AC	B
	15 Amp, 110 VAC	C
	15 Amp, 110 VAC AV	D
	15 Amp, 110 VAC GFCI All	E
	Not Used	F

1	15 Amp, 12VDC Refrigerator
2	1 Amp, 12VDC Shower lite/Auto Start
3	1 Amp, 12VDC CO/LP Gas Detector
4	10 Amp, 12VDC Fresh
5	10 Amp, 12VDC AC, Furnace WH
6	5 Amp, 12VDC Power Roof
7	Not Used
8	Not Used
9	Not Used
10	15 Amp, 12VDC Power
11	10 Amp, 12 VDC Cntr roof, Dr lites & recpts
12	10 Amp, 12VDC Patio, Cab, Ps lites & recpts

Alarms and Warnings

Propane and CO Monitor

Your vehicle has been equipped with a combination propane leak and carbon monoxide detection device for your protection. It is located slightly above floor level next to the furnace and below the fridge.

Be sure the detector is operating while using your vehicle. Do not block air circulation in the area where the propane leak detector is located. The detector runs on 12-volt power supplied by the coach batteries and is operational whenever the battery disconnect switch is on. For this reason, whenever the vehicle is occupied, particularly if you are asleep, the battery disconnect switch should be in the "on" position.



Coach power on the Monitor Panel must be on for detector operation. Make sure your battery disconnect switch

is on.



Do not disable, unplug, or otherwise hinder the operation of this detector or the smoke detector.



The detector has a useful service life, beyond which it needs to be replaced. See Manufacturer's Owner's Manual for other operating instructions or look for the sticker which is placed on the detector to see the replacement date.



The detector will chirp if the coach batteries are running low.

Smoke Detector

The smoke detector is located to the left of the side door. It is powered by a 9-volt battery which needs periodic replacement. Refer to the Owner's Manual for the smoke detector for replacement interval for the battery and for the detector itself.



Smoke alarm is shipped with battery reserved. Check battery installation if the smoke alarm does not work. Alarm will sound if battery fall below 10.5 volts



Some aerosols and other products can set off detectors when near each other.

Low Battery Level

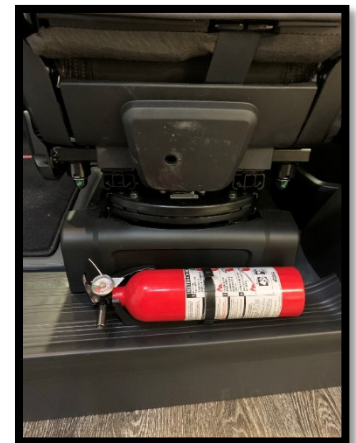


Your system will sound an alarm whenever the system voltage is low. Low voltage is triggered at multiple readings and will send you to a low voltage screen.

- If Lithium battery option is selected:
 - @12.7V-12.6V the Buzzer (Ch.36) will be on for 15 Seconds One Time (Alarm1)
 - @12.5V-12.4V the Buzzer (Ch.36) will be on for 30 Seconds One Time (Alarm2)
 - @12.3v and Less the Buzzer (Ch.36) will be on for 45 seconds One Time (Alarm3)
- If Lithium is deselected (AGM battery):
 - @12V-11.8V the Buzzer (Ch.36) will be on for 15 Seconds One Time (Alarm1)
 - @11.7V-11.6V the Buzzer (Ch.36) will be on for 30 Seconds One Time (Alarm2)
 - @11.5 and Less the Buzzer (Ch.36) will be on for 45 seconds One Time (Alarm3)
- If the system boots at 12.3v (or 11.5v AGM) it will trigger every alarm in order, but each alarm will only go off one time, spaced out by 5 seconds. i.e. booting at 11.7 will trigger Alarm 1, followed by Alarm 2, 5 seconds later. The Low Voltage alarms will reset when the voltage goes above 12.7v (or 12v AGM).

Fire Extinguisher

Your Roadtrek comes equipped with a dry chemical fire extinguisher suitable for all fires. (Picture 46.1) Before every trip, check to see that the needle on the dial is in the green range. If not, replace the fire extinguisher. DO NOT test your fire extinguisher by discharging it - total discharge time is 8 to 12 seconds, so it will become rapidly depleted if you test it this way. Service life on fire extinguishers currently supplied is 12 years; replace the fire extinguisher if it is more than 12 years past the year of manufacture stamped on the base of the cylinder.



Picture 46.1

Located at the back of the passenger seat.

Maintenance

Tires

See the automotive chassis manufacturer's owner's manual and documents for tire warranty information. Inflation pressure information is on the sticker inside the galley cabinet door. The current RAM ProMaster® manual recommends checking tire pressures regularly, at least every other week and before a long trip. Tire rotation intervals depend on wear and other factors, but tires should be rotated at least every maintenance interval, defined as every 40,000 km/24,000 miles. Follow the tire rotation pattern for dual rear wheel models in your ProMaster® owner's manual.

Cargo Carrying Capacity

See the information labels attached to the driver door post.

Owner Maintenance Checks

Listed below are vehicle maintenance checks and inspections that should be performed by the owner or qualified service technician at the indicated intervals. Any adverse conditions should be brought to the attention of your dealer or qualified service technician for expert service advice as soon as possible. The owner maintenance checks are generally not covered by warranties and you may be charged for labor, parts and supplies used.

When You Stop for Fuel or Weekly

- Check engine oil level.
- Look for low or underinflated tires.

Every Other Week

- Check tire pressure on all tires and your spare.

At Least Monthly

- Check coolant level in the coolant recovery reservoir.
 - Check windshield washer fluid, brake fluid and power steering fluid levels.
 - Check operation of all exterior lamps, including brake lamps, turn signals and hazard warning flashers.
-

At Least Every Three Months

- Flush water to the toilet. Use a hose or bucket to fill the tank through the toilet and dump. Flush gray water holding tank. Use a hose or bucket to fill the tank through the galley sink and dump.
- Flush and sanitize freshwater tank. To flush the tank:
 - Fill it completely using the city fill and drain using the freshwater tank drain underneath the tank.
 - Sanitize by adding 1/2 cup chlorine bleach to the tank, fill with water, let sit for at least two hours, and drain. 1/2 cup vinegar added to the next tankful, which will also be drained before filling with fresh water for use, will help dissipate the chlorine smell.
- Visually inspect the generator unit belt and the proximity of the rad hoses to the generator unit.
- At every oil change, have the under-hood generator belt inspected for wear, alignment and clearance to hose.

Refer to other sections in this manual for drain and fill locations.

At Least Twice a Year

- Check windshield wiper operation.
 - Clean wiper blades with clean cloth dampened with washer fluid.
 - Wiper blades should be replaced at least once a year.
 - Check radiator, heater and air-conditioning hoses for leaks or damage.
 - Check for worn tires and loose wheel lug nuts.
 - Check parking brake system and put the brake on and see if it will hold on a moderate hill. If not, get it repaired.
 - Check head lamp alignment.
 - Shine your low beam headlights on a wall. The light patterns should be the same height. Measure headlight height at the vehicle with a yardstick and the light patterns should be the almost same height or slightly less with your vehicle level. If not, get the headlights aligned.
 - Check lap and shoulder belts for wear and function. Replace any belts with frayed spots or that do not smoothly retract into their holders.
 - Inspect appliance vents to ensure they are free from dirt, insects, spider webs and/or nests.
 - Inspect gray water tank vent and remove any debris or other obstructions. The gray water tank vent is on the roof, passenger side and in the bathroom area.
 - Clean air conditioner filter. See air conditioner manual for details.
 - Thoroughly clean and wax the roof of the van.
 - To wash the solar panel, use a garden hose to rinse dirt off the panel.
 - Do not scrub it with a brush or otherwise apply any abrasive material to the solar panel surface.
 - Rinsing the panel two or three times a year to remove excess dirt is all you need to do to keep the panel operating at full output.
 - With the tank empty, add one cup of mineral oil and one cup of hot water to the gray tank and black tank.
-

At Least Once a Year

- Lubricate all door hinges, retracting steps, locks and latches, especially the exposed hinges on exterior doors. These will freeze up and cause damage to the doors if neglected.
- Have appliances tested and cleaned.
- Wax and polish and protect exterior surfaces. The wheels are coated aluminum and there is no bare aluminum on the vehicle, so do not use aluminum polish on any surface of your Roadtrek.

To prevent water from entering your vehicle, avoid spraying water directly into exterior vents or grills. Do not use a power washer to clean your Roadtrek because damage to the paint, removal of decals and water leaks will result. Hand washing or commercial car washes accommodating large vehicles are the best way to keep your Roadtrek clean and shiny.

Other Maintenance Checks

Follow the maintenance for your appliances as per the appliance's manufacturer's manual.

Tire Service Kit

Small punctures up to 1/4 inch (6 mm) in the tire tread can be sealed with Tire Service Kit. Foreign objects (e.g., screws or nails) should not be removed from the tire. Tire Service Kit can be used in outside temperatures down to approximately -4°F (-20°C). This kit will provide a temporary tire seal, allowing you to drive your vehicle up to 100 miles (160 km) with a maximum speed of 50 mph (80 km/h). The tire service kit is located under the passenger seat. Full instructions for the use of the kit can be found on page 206 of your RAM ProMaster® Owner's manual.



You can also use the tire service kit pump to inflate balls, air mattresses and other inflatables. You will find adapters in a compartment on the bottom of the unit.

Roadtrek Inc. Two (2)-year limited Warranty

Roadtrek Inc. warrants to the Purchaser that the Motorhome is free from defects in material and workmanship on the portion manufactured by Roadtrek Inc., under normal use and service, for two (2) years, from date of purchase by the first Purchaser or the date the Motorhome was first put into service (for example, as a demo or rental), whichever is earlier.

This non-transferable warranty shall be fulfilled at a Roadtrek Inc. Dealer or authorized Roadtrek Inc. repair facility. For in transit emergency repairs, you may choose to deal with a non-authorized RV service facility. However, all warranty repairs at non-authorized RV service facilities must be preauthorized by Roadtrek Inc. Roadtrek Inc. will, at its option, replace or repair free of charge (including related labor) any defective part, about which the Purchaser shall notify their Roadtrek Dealer within the warranty period. The obligation of Roadtrek Inc. under this warranty is expressly limited to such replacement or repair.

The provisions of this limited warranty shall not apply to the following:

1. Accident.
2. Unauthorized repairs or alterations.
3. Routine maintenance including, without limitation, caulking, re-caulking and waxing of the body of the motorhome, tightening screws, latches, locks, combustion systems, changing fuses, or light bulbs, and maintaining the air conditioning and heating systems.
4. Wheel alignment are not covered by warranty as the vehicle is built to chassis specs. Loading of the vehicle may have an impact on alignment.
5. Changes made to other units manufactured after this Motorhome was manufactured. (This is not an engineer upgrade warranty.)
6. Incidental damages connected with the failure of the Motorhome such as lost time, inconvenience, loss of use of the Motorhome, cost of rental cars, gasoline, telephone, travel or lodging.
7. Damages caused by environmental factors including, but not limited to, hailstorms, tornadoes, sandstorms, stone chips, lightning, floods, earthquakes, airborne fallout, chemicals, tree sap, ocean spray, road hazards.
8. Damage or loss caused in whole or in part by the misuse, abuse, neglect, theft, vandalism, product modification, improper customer or dealer installation, improper stowing of equipment, overloading or improper balancing of the load, low or high voltage, unauthorized repair or failure to follow instructions supplied with the recreational vehicle.
9. Motorhome that has been declared a total loss by an insurance company (demolished) or a Motorhome whose title indicates that it is designated as "salvage", "junk", or "rebuilt" or words of similar impact.
10. There will be no allowance for emergency road repair, towing, labor, meals accommodations, etc. Such will not be accepted if claimed under warranty.
11. Aluminum wheels are not warranted against corrosion or damage that is a result of road salt, sea salt, cleaning chemicals or harsh driving conditions and excessive pressure from power washers.
12. Rust or corrosion due to the environment, or any broken glass damage.
13. Materials damaged using harsh chemicals or abrasive cleaners.

The provisions of this limited warranty shall not apply to deterioration due to wear and exposure beyond the following limitations:

1. For ninety (90) days after the "Quality Care" Pre-Delivery Report is completed by the dealer for appliance adjustments, door latch adjustments, light bulbs, fuses, battery in the smoke detector, window, and door screens. After 90 days these items are considered part of normal maintenance.
-

Roadtrek Inc. Limited Motorhome Warranty is void unless the following conditions are adhered to:

1. Warranty registration on the Motorhome must be completed by the Dealer and submitted to Roadtrek Inc. within 48 hours of date of retail delivery. When warranty applications are made and Warranty Card is not on file at Roadtrek Inc., reimbursement of claim will be delayed until proof of original purchase is submitted to Roadtrek Inc. Chassis warranty is activated by this process and may be impacted by any delays.
2. Warranty claims and authorization requests must be submitted to Roadtrek Inc. Including the last 8 digits of the Vehicle Identification Number (V.I.N.) and odometer reading. All claims must be submitted within 30 days of the date of repair.
3. Warranty work that will exceed \$200 must first be authorized by Roadtrek Inc. before proceeding with such work. The authorization number issued by Roadtrek Inc. must be noted on the warranty claim. See item #2 above.
4. Roadtrek Inc. reserves the right to inspect or request photographic evidence of defective parts that have been replaced under warranty. Dealer is expected to hold selected parts for a period of not to exceed 60 days. (See below).
5. Only parts and accessories and other material, available through Roadtrek Inc. and Authorized suppliers are to be used in the performance of warranty service. Express shipping costs are not covered by this warranty policy.
6. Warranty repairs performed a second time by a Dealer (due to incorrect or inadequate diagnosis, improper assembly or repair, or lack of proper testing when the original warranty repair was performed) are considered as shop comebacks and are not reimbursable. Costs of such repairs must be adsorbed by the dealer.
7. Purchasers are responsible for presenting their motorhome to a Roadtrek Dealer as soon as problem exists. The warranty repairs should be completed in a reasonable amount of time from date of authorization. Damage caused by failure to address warranty issues in a timely fashion will not be covered by this warranty, additional expenses will be the responsibility of the owner.
8. This limited warranty is expressly in lieu of any other expressed or implied warranty, including any implied warranty of merchantability or fitness for a particular purpose and of any other obligations or liabilities on Roadtrek Inc. which neither assumes nor authorizes any other person to assume for it any other liability in connection with motorhome manufactured by it.

Appliance Warranty

The following are not warranted by Roadtrek Inc., but are covered by individual warranties offered by their respective manufacturers to which terms both Purchaser and Dealer must comply:

- Antenna
 - Awning
 - Aluminum Rims
 - Air conditioner
 - Electrical inverter/charger/Separator
 - Electronic equipment (TV, DVD player, Blue ray etc.)
 - Engine Generator and Voltage regulator
 - Furnace or other heating system
 - Insta-hot
 - Microwave oven
 - Power Sofa
 - Power steps
 - Power roof vents
 - Propane regulators
-

- Refrigerator
- Stove
- Toilet
- Volt start
- Valves (Black and Gray Tanks)
- Water pump
- Macerator
- Water heater
- Smoke alarm/Carbon monoxide detector
- Eco-trek modules

AGM Battery Warranty

Batteries are warranted by the battery manufacturer for one year from the "In Service Date" of the Roadtrek.

Warranty is voided if AGM batteries are tampered with, topped off with distilled water or allowed to sulfate or freeze due to lack of charge.

Diesel Particle Filter Warranty

For diesel vehicles equipped with the under-hood generator (GU Option) Roadtrek Inc. will warranty the performance of the Diesel Particle Filter for 2 years.

Contact Roadtrek directly for servicing instructions.

Warranty Intent

The intent of this extended warranty is to ensure the new owner of a Roadtrek that it is worry free from manufacturer caused defects (excluding the chassis) for the first Two (2) years of use.

DEFECTS Vs. DAMAGE

Please note the distinction between "Defect" and "Damage". "Defect" means the failure of the workmanship performed and/or materials used to conform with the design and manufacturing specifications and tolerances of Roadtrek Inc. Defects are covered because Roadtrek Inc. is responsible; on the other hand, Roadtrek Inc. has no control over "damage" caused by such things as collision, misuse, or lack of maintenance that occurs after the RV is delivered to the owner. Therefore, "Damage" for any reason which occurs after the motorhome is delivered is not covered under this warranty. Maintenance services are also excluded from the warranty because it is the owner's responsibility to maintain the Motorhome.

Obtaining Service

When your Roadtrek needs service, determine if the issue is with the Roadtrek upfits or the RAM ProMaster® chassis.

For Roadtrek upfits, contact your dealer. Start with the service writer, then the service manager and finally, if you are unable to resolve your issues with the service department, contact the dealership managing partner or owner. Please keep notes of who you spoke with and dates.

For chassis-related issues, contact Dodge service. Advise the service writer that you have a RAM ProMaster®, rather than a motorhome. Some dealerships do not want to work on motorhomes, but most can service a 3/4-ton van. Again, start with the service writer, then the service manager and finally, if you are unable to resolve your issues with the service department, contact the dealership managing partner or owner. If you cannot resolve your chassis related issues at the dealer level, contact Dodge factory service.



Roadtrek Inc. typically cannot initiate a case with the chassis manufacturer, the owner must do that.

Contact Roadtrek Inc. Service after you have exhausted the process above. Please provide as complete a record as you can so that your effort is not duplicated.

Roadtrek Inc. Service information:

retailsupport@roadtrekinc.com

Specifications

For general chassis specifications, please refer to the RAM ProMaster® manual. For specifications relating to your vehicle, including occupancy, weight rating, tire size, inflation and so on refer to the sticker on the driver's side B pillar (right side of the door frame, near the latch). For specifications relating to the baseline Roadtrek upfits, please visit our website at www.roadtrek.com Options and upgrades may change specifications.

Roadtrek Warranty Service

How to Get Service

To obtain warranty service for your Roadtrek, call toll free 888-663-0066. Our customer care specialist can help answer questions regarding our products and services, provide information about warranty coverage and maintenance issues, help you arrange for service under other manufacturer warranties, and locate a Roadtrek authorized dealers and service centers in your area. To find a current list of Roadtrek authorized dealers and service centers on-line, go to <http://www.roadtrek.com/locators/>. When you call, please have the following information available so that we may expedite your service:

- ▶ The chassis' VIN (Vehicle Identification Number)
- ▶ First retail owner's date of purchase
- ▶ The current actual mileage

NO WARRANTY CLAIM WILL BE PROCESSED OR PAID WITHOUT PROOF OF ACTUAL MILEAGE AND FIRST RETAIL OWNER'S DATE OF PURCHASE.

Roadside Assistance Plan

You are enrolled in a 24/7 roadside assistance plan for the first 2 years of the limited warranty upon registration of your Roadtrek. The roadside assistance plan is transferrable to subsequent owners within the 2-year coverage period. If your motorhome is disabled because of any nonconformity covered by this limited warranty or in certain other situations, our roadside assistance provider will assist by providing the following services: towing, mobile mechanic (where available), fuel delivery, tire change, battery jumpstart, lockout service and emergency fluids. To obtain roadside assistance, call 877-579-7078.

PLEASE NOTE THAT THE ROADSIDE ASSISTANCE IS ONLY AVAILABLE TO THE FIRST RETAIL OWNER AND IS NON-TRANSFERRABLE TO ANY SUBSEQUENT OWNERS.

Aftermarket Disclaimer

The compatibility of aftermarket systems and components should be researched thoroughly either with the dealer or manufacture as they may interfere with the performance of Roadtrek Inc. recreation vehicle systems and components, further affecting the warranty of the vehicle as designed.

Regulatory Notices

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration, (NHTSA) in addition to notifying Roadtrek Inc.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, and/or Roadtrek Inc.

To contact NHTSA, you may call the Auto Safety Hotline toll-free at 1-888-327-4236, (or 366-0123 in Washington, DC area) or write to:

NHTSA
U.S. Department of Transportation Washington, DC 20590

You can also obtain other information about motor vehicle safety from the NHTSA Hotline.

To report a safety concern relating to this vehicle Canadian customers can contact the Department of Transport as per the following.

Mailing Address:

Transport Canada -ASFAD

330 Sparks Street

Ottawa, ON

K1A 0N5

Telephone: 819-994-3328 (Ottawa-Gatineau
area or internationally)

Toll free: 1-800-333-0510 (in Canada)

Online:

<http://www.tc.gc.ca/recalls>

Adresse postale :

Transports Canada -ASFAD

330, rue Sparks

Ottawa (Ontario) K1A 0N5

Téléphone: 819-994-3328 (dans la région de Ottawa-Gatineau et à l'extérieur du pays)

Sans frais: 1-800-333-0510 (au Canada)

Internet:

<http://www.tc.gc.ca/rappels>

HOWTOs

For access to more information on how to reform general functionalities of your Roadtrek, please go to:

<https://www.roadtrek.com/owners/#section-howto&FAQ>

APPENDIX

FIREFLY MONITOR PANEL
USER MANUAL

FIREFLY
INTEGRATIONS



VEGATOUCH

Promaster Zion V1 Manual



Imagination ~ Innovation ~ Integration

1013 Elroy Drive, Middlebury, Indiana 46540 (574) 825-4600

Roadtrek Promaster Zion V1 Manual (Revision 4)

The information contained in this manual is a general overview of the Firefly system and is subject to change at any time.

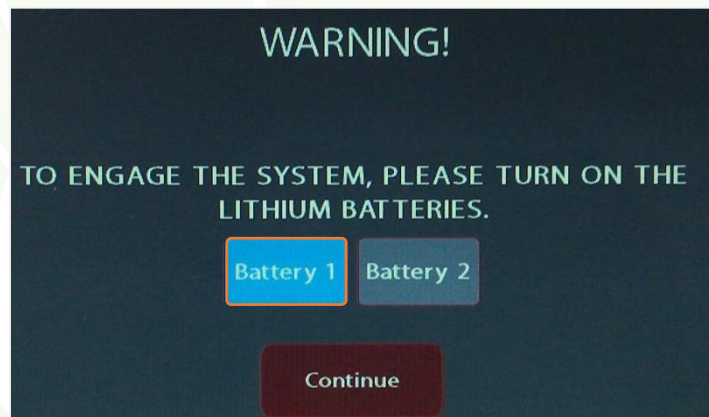
2	Table of Contents
3	Touchscreen Overview
4	Home
6	Lights
7	Climate Control
8	Settings
10	Mobile App
11	Vegatouch Mira Setup
15	Wireless Switch Pairing
16	Network Diagnostics
17	Low Voltage
18	Overcurrent Detection
19	SSP17 Switch Panels
20	G12 DC Panel
21	Networking
22	Network Status Indicators
23	Mira NET LED Status Key
24	System Diagrams





Touchscreen Overview

Upon system startup, the warning screen below will appear requesting that the batteries be turned on before continuing. If no batteries have been toggled on, the system will be unable to function.



Tap any icon from the vertical navigation menu to select the desired page. The currently selected page will always be listed in the top corner of the screen.



Navigation Menu



Home

Buttons will turn Blue while a circuit is on and colorless once the circuit has been turned off. This color change is known as showing status.

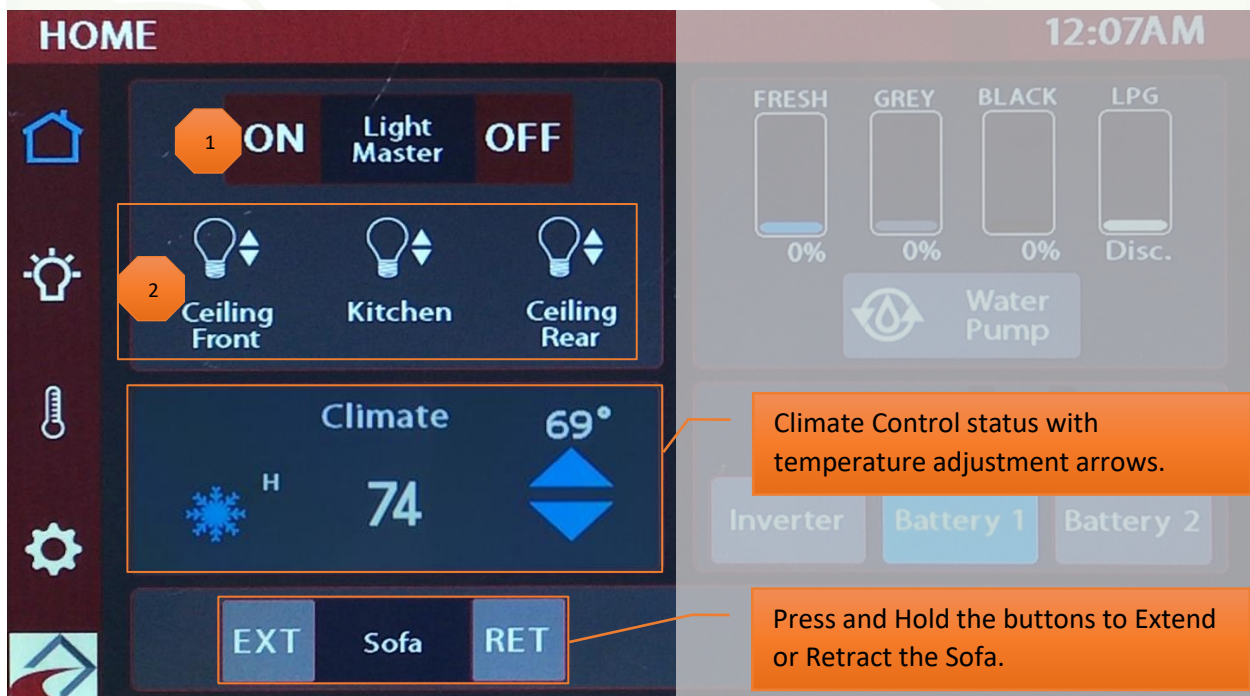
1

Light Master controls all interior lights at once. When Light Master Off is pressed, it will remember which lights were on. Then, when Light Master On is pressed, it will only turn on the lights that are in memory. To turn on all lights again, press and hold Light Master On for at least one second.

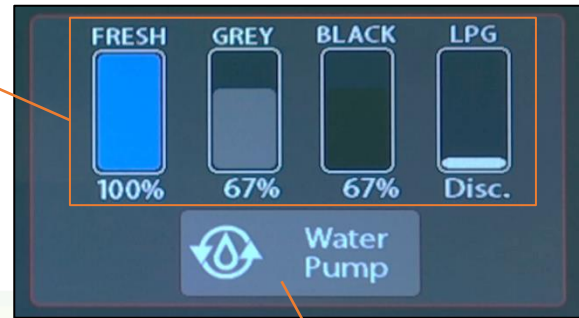
*Troubleshooting – Memory is rewritten each time Light Master Off is pressed. In the case that it is pressed twice in a row, it will remember that no lights were on and just touching Light Master On won't turn on any lights. Press and hold Light Master On to turn the lights back on. Note: Light Master On/Off buttons will always appear red and will not show feedback at any time.

2

Individual light controls.



Individual tank graphics represent the percentage filled for holding tanks.



LP Tank Readings:

- Below 25% will read “Low” and the tank level will show as normal.
- From 25% to 75%, the tank level and percentage will show as normal.
- From 75% to 80%, will read “Full” and the tank level will show as normal.
- 80% and above will read “Disc.” and the tank level will be empty.

Toggle On/Off



House Voltage – the voltage coming from your house batteries. Note: Battery graphics will display Red if below 12V.

Tap to toggle the Inverter or Specific Batteries On/Off.

3

Awning - Press and Hold the Extend or Retract buttons to operate the awning. The EXT button will be locked out whenever the Ignition is active.

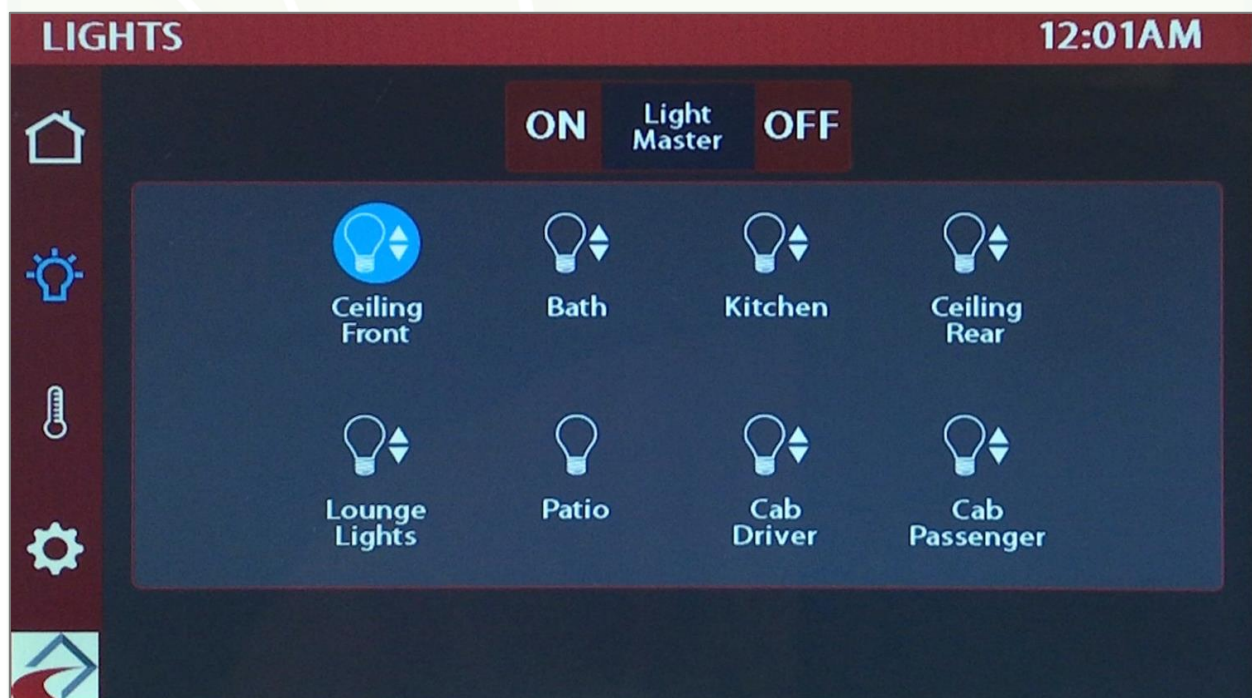


Lights

This screen will control the lighting for the entire coach. Tap any button to turn the desired light On/Off.

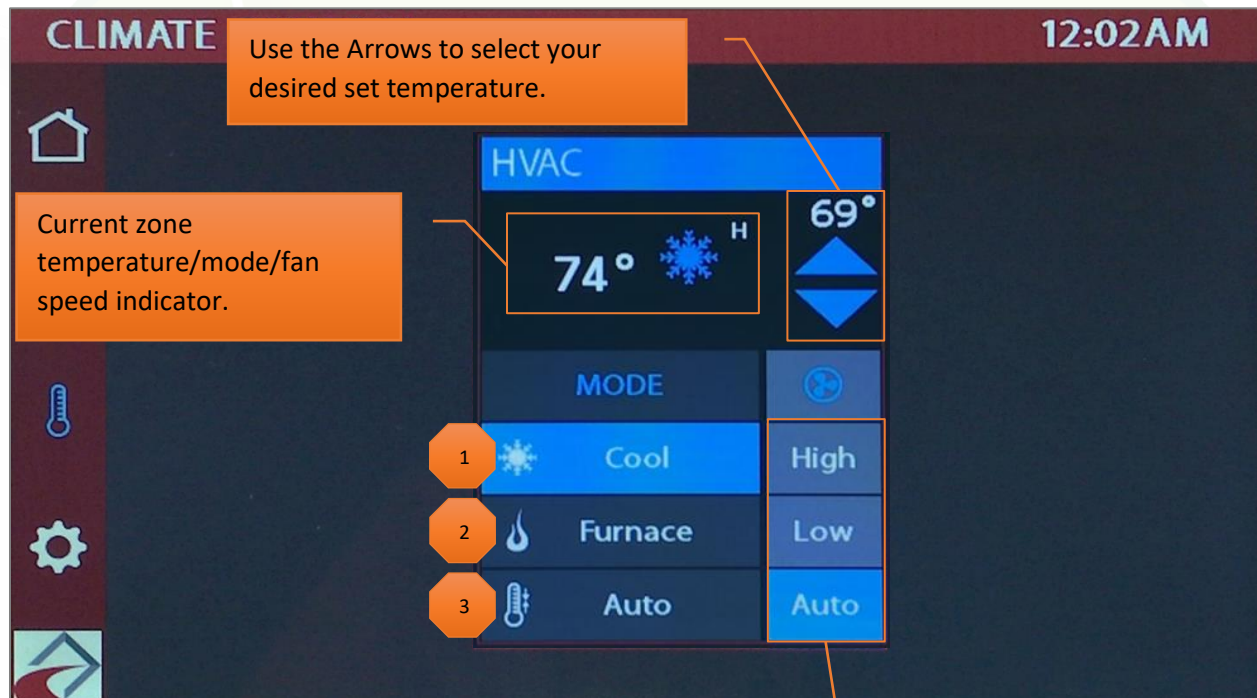


Lights with up/down arrows are dimmable. Press and hold these buttons to bring the brightness up or down. Tap the buttons to toggle On/Off.





Climate Control



Fan Only Mode – Available if HVAC is off. The fan will operate by choosing High or Low. Auto will turn the fan off.

- 1 Cool – Tap to operate the air conditioning. The A/C will run until the current temp reaches your desired temp and then shut off.
- 2 Furnace – Tap to operate the Furnace. The Furnace will run until the current temp reaches your desired temp and then shut off.
- 3 Auto – Tap to put the system into Auto mode. The A/C or Heat will automatically run to keep your desired temperature consistent.



1 Tap to navigate to the Vegatouch Mira connection screen.

2 When Auto Dimming is enabled, the screen will enter sleep mode after 60 seconds of inactivity. Tap anywhere on the screen to wake it up. Please note that even if Auto Dimming has been disabled, the screen will still enter sleep mode after 4 hours of inactivity during daytime hours (5am – 10:59pm) and after 15 minutes of inactivity during night time hours (11pm-4:59am) as the result of a built in screen saver that cannot be disabled.

3 Tap to Enable/Disable the Low Voltage Buzzer (see page 17). The buzzer will always enable after a power cycle.

4 Tap to select between Fahrenheit and Celsius.

5 Wireless Switch status display (Mid Switch)

Green – Over 100 (Strong) Yellow – 85-100 (Medium) Red – Less than 85 (Weak)

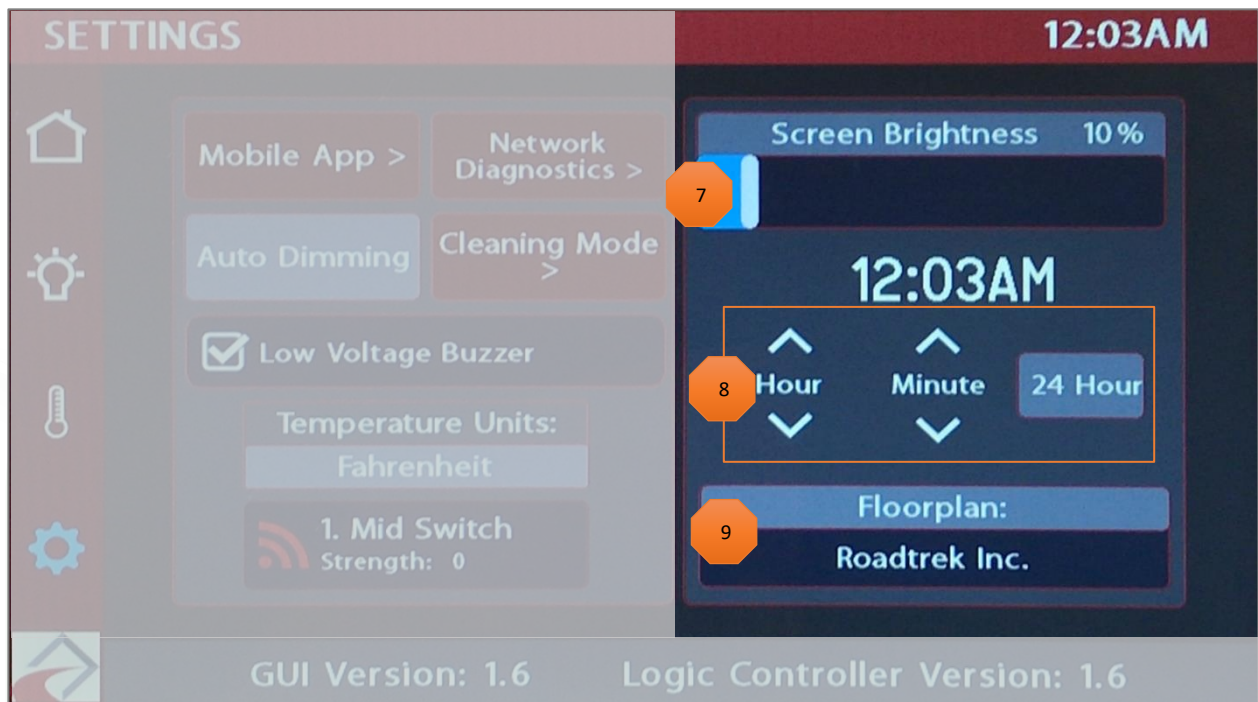


Red Wireless Graphic with a Zero reading – The switch is currently disconnected from the screen. It is likely that the battery inside your switch panel needs replaced. The wireless switch panel in your coach will illuminate a green LED whenever a button is pressed. If the LED on your switch panel does not illuminate when you press a button on your switch, you will need to replace the 2032 coin cell battery. If the LED is illuminating but the switch still won't function, the switch will need to be paired (see page 15).

6 Tap to navigate to the Network Diagnostics page.

7 Tap to disable the touchscreen for 15 seconds for the purpose of cleaning.

Note the GUI and Logic Controller versions at the bottom of the screen. Please have these numbers available before calling technical support.

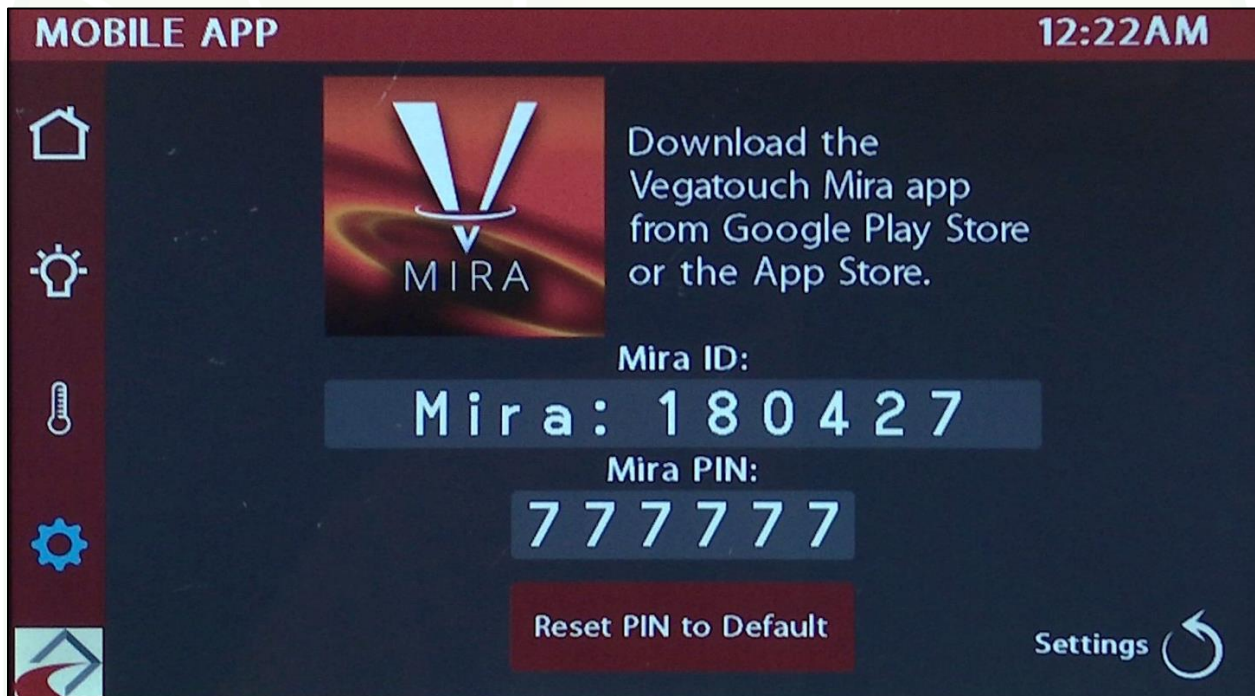


- 7 Drag the slider to adjust screen brightness.
- 8 Tap the buttons to set the time or select 24-hour time mode.
- 9 Floorplan display.



Settings/Mobile App

Vegatouch Mira is a wireless control module that easily connects to any Android or iOS device to give total control to many electrical, electronic and mechanical systems in your coach. Pair any device with the coach's built-in interface to monitor and control many coach components.





Vegatouch Mira Setup

Notice: Make sure that Bluetooth is turned ON in your smart device settings before proceeding.

Locate the Login Information:

The login information can be found by clicking on the Mobile App button on the settings page of the touchscreen or from the Mira module's label.

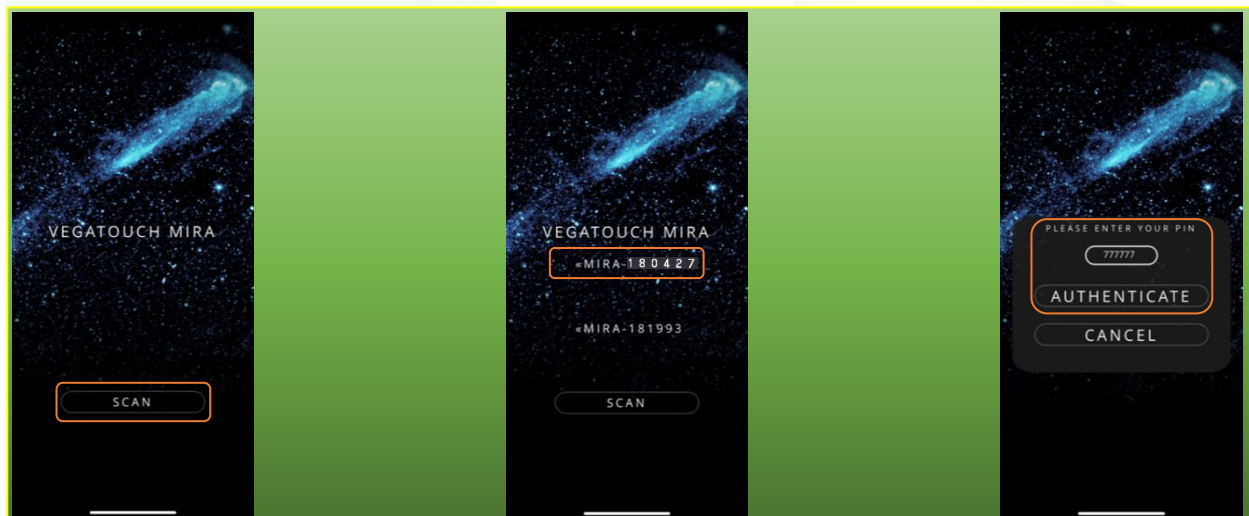


Download:

Download Vegatouch Mira from the Google Play store or the App Store. Once the download has finished, install the app and open it.

Setup:

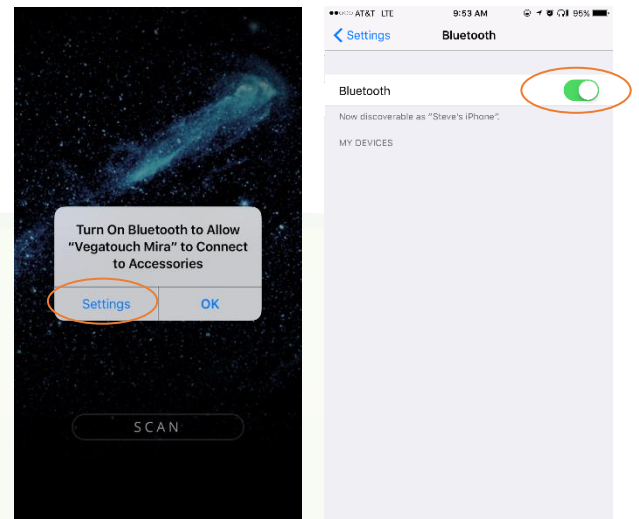
Tap SCAN to find the Mira Module's signal. After scanning, any Mira Module in your area will appear on the screen. Tap the ID # that matches the one on your Mira label. Enter the PIN number from the Mira label and press AUTHENTICATE to connect to the system.



Notice: iOS Setup Tips

Turn on Bluetooth to allow Vegatouch Mira to connect to Accessories.

If you do not have Bluetooth turned ON in your iOS settings you will see this screen. Do not click OK, you must click SETTINGS. Your Bluetooth Settings page will now appear and you should turn Bluetooth ON.



Location Services Required

To enable Location Services on your Apple device:

1. Go to settings/Privacy/Location Services.
2. Make sure that Location Services is ON.
3. Scroll down to find your app.
4. Tap the app and select "Always allow access to your location".

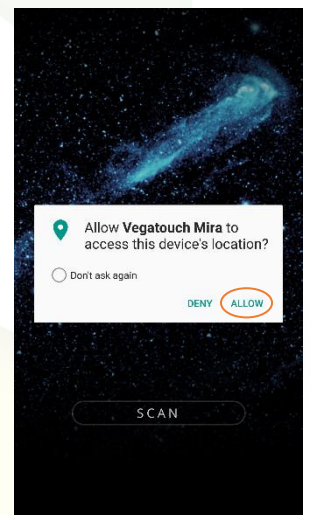
Notice: Android Setup Tips

Allow Vegatouch Mira to access this device's location.

Mira will need to be allowed access to your location. Click ALLOW when you see this screen.

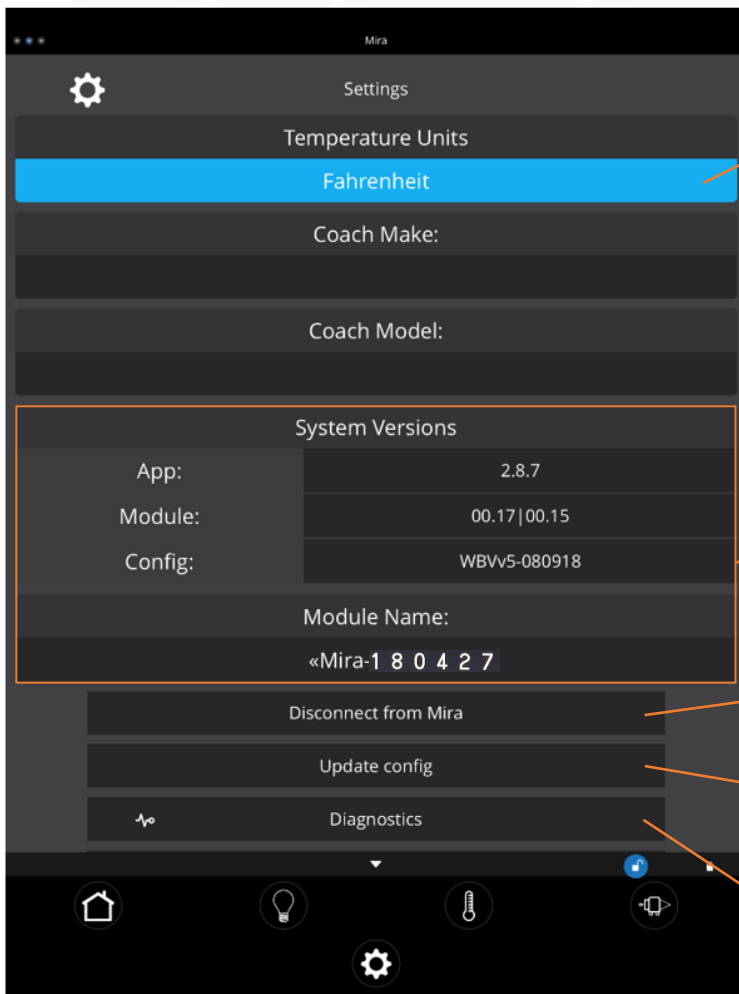
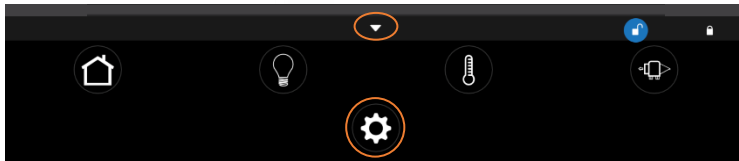
To enable Location Services on your Android device:

1. Open your phone's Settings app.
2. Tap Location/App Permission
 - If you don't see "Location" tap Security & Location/Location.
 - If you have a work profile, tap Advanced/Location.
3. Under "Allowed all the time" and "Allowed only while in use" view the apps that can use your phone's location, tap it, then choose the location access for the app.
4. To change the App's permissions, tap it, then choose the location access for the app.



App Settings:

Access the App Settings page by tapping the triangle (at the bottom of the screen) to expose the Settings button. Tap the gear to visit the settings page.



Tap the Temperature Units selection to choose between Fahrenheit and Celsius.

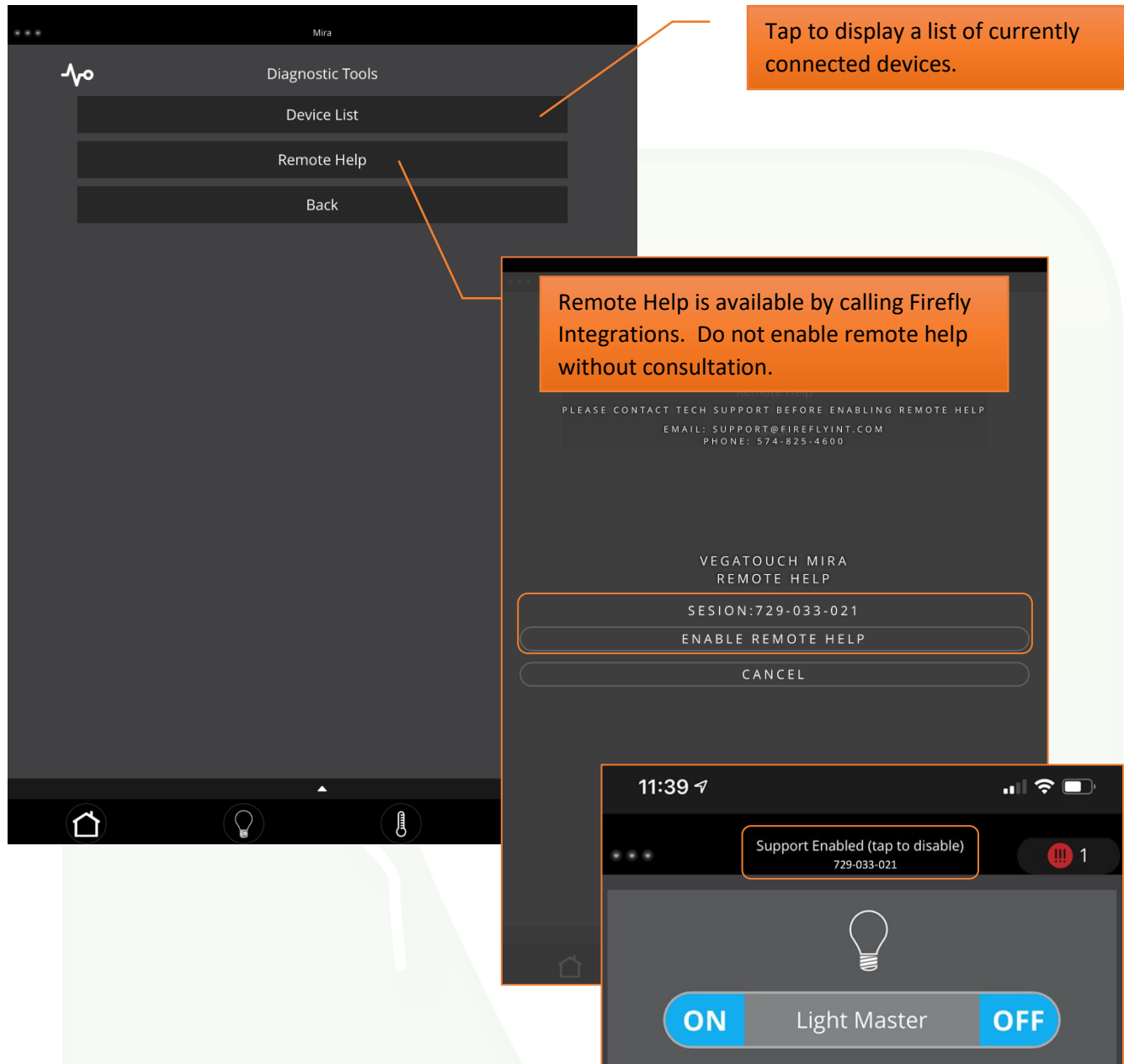
System Information and Mira Name.

Tap to disconnect your device from Mira.

Tapping Update Config will force a download of the config from the cloud.

Tap to enter the Diagnostic Tools screen.

Diagnostic Tools:



Remote Help:

If instructed by Firefly, tap Enable Remote Help for advanced technical support. Once enabled, provide the Session ID to allow Firefly to remotely connect to your Mira app (internet connection required). To disable Remote Help, simply tap the Session ID number from the Home page of your Mira app.



Wireless Switch Pairing

The wireless Mid Switch will need to be paired to the touchscreen before first use.

- 1 Press and Hold the switch graphic for 5 seconds.
- 2 Tap Start Pairing. You'll have 30 seconds to press and hold both buttons on the switch panel at the same time for 5 seconds.
- 3 Tap Done once the pairing successful message appears. It may take up to 10 minutes for the battery switch indicator to turn Green, but the switch should work instantly once paired. If at this point the switch still fails to work, press and hold the Clear button (not pictured) for 3 seconds and repeat the pairing procedure once again.

POWER
SOFA
EXTEND

POWER
SOFA
RETRACT

The screenshot shows the 'SETTINGS' screen with a red header bar. The time is 12:03AM. A hand is pointing to the '1. Mid Switch' option under 'Temperature Units: Fahrenheit'. A red circle with the number '1' is next to it. A blue box with the title 'WIRELESS SWITCH PANEL PAIRING PROCEDURE' is overlaid on the screen. It contains the text: 'PAIRED WIRELESS ID: FFD8070B' and 'TO PAIR THE WIRELESS SWITCH PANEL INDICATED AT THE TOP OF THIS PAGE TO THE SCREEN, PRESS THE START PAIRING BUTTON AND INSTRUCTIONS WILL FOLLOW. TO KEEP CURRENT PAIRING, PRESS THE CANCEL BUTTON. TO CLEAR THE PAIRING, HOLD THE CLEAR BUTTON FOR 3 SECONDS.' A blue button labeled 'START PAIRING' is at the bottom right of this box, with a red circle with the number '2' next to it. Another blue box with the title 'WIRELESS SWITCH PANEL PAIRING PROCEDURE' is overlaid on the screen. It contains the text: 'PAIRING ACTIVE FOR: 19 SECONDS' and 'TO PAIR A WIRELESS SWITCH PANEL TO THE SCREEN INDICATED ABOVE, PRESS AND HOLD ANY TWO BUTTONS ON THE WIRELESS PANEL FOR 5 SECONDS.' A third blue box with the title 'WIRELESS SWITCH PANEL PAIRING SUCCESSFUL' is overlaid on the screen. It contains the text: 'PAIRED WIRELESS ID: 0FD8070B' and a blue button labeled 'DONE' at the bottom, with a red circle with the number '3' next to it. The background settings screen shows options like 'Mobile App >', 'Network Diagnostics >', 'Auto Dimming', 'Cleaning Mode >', 'Low Voltage Buzzer', 'Temperature Units: Fahrenheit', and '1. Mid Switch Strength: 0'. The bottom of the screen shows 'GUI Version: 1.6' and 'Logic'.



Settings/Network Diagnostics

Screen/G12:

This screen will show the status of the Lyra screen and G12 panel. It will also display any currently active inputs and outputs.

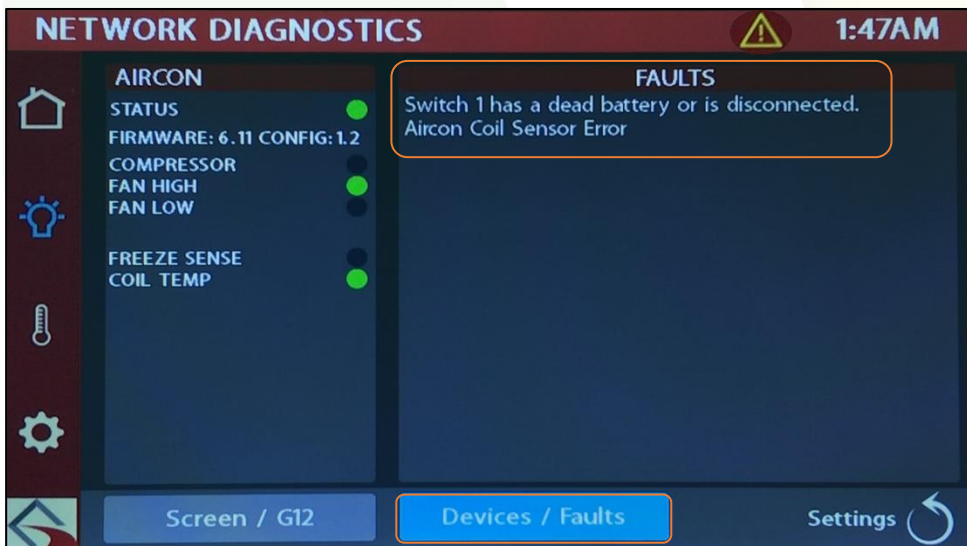


Devices/Faults:

This screen will display the status of the Aircon and list any faults the system is currently experiencing.



A triangle will appear at the top of the screen whenever a fault condition is present. Tap the triangle to visit the Network Diagnostics screen.





Low Voltage

Your system will sound an alarm and show this screen whenever system voltage is low.

The system will alarm at 3 different voltage levels for specific amounts of time depending on your battery type:

Lithium

- 12.7V – 12.6V (15 second alarm)
- 12.5V – 12.4V (30 second alarm)
- 12.3V and under (45 second alarm)

AGM (Lithium deselected)

- 12V – 11.8V (15 second alarm)
- 11.7V – 11.6V (30 second alarm)
- 11.5V and under (45 second alarm)

Adjust the buzzer's volume by rotating the dial to Open/Close the grille.



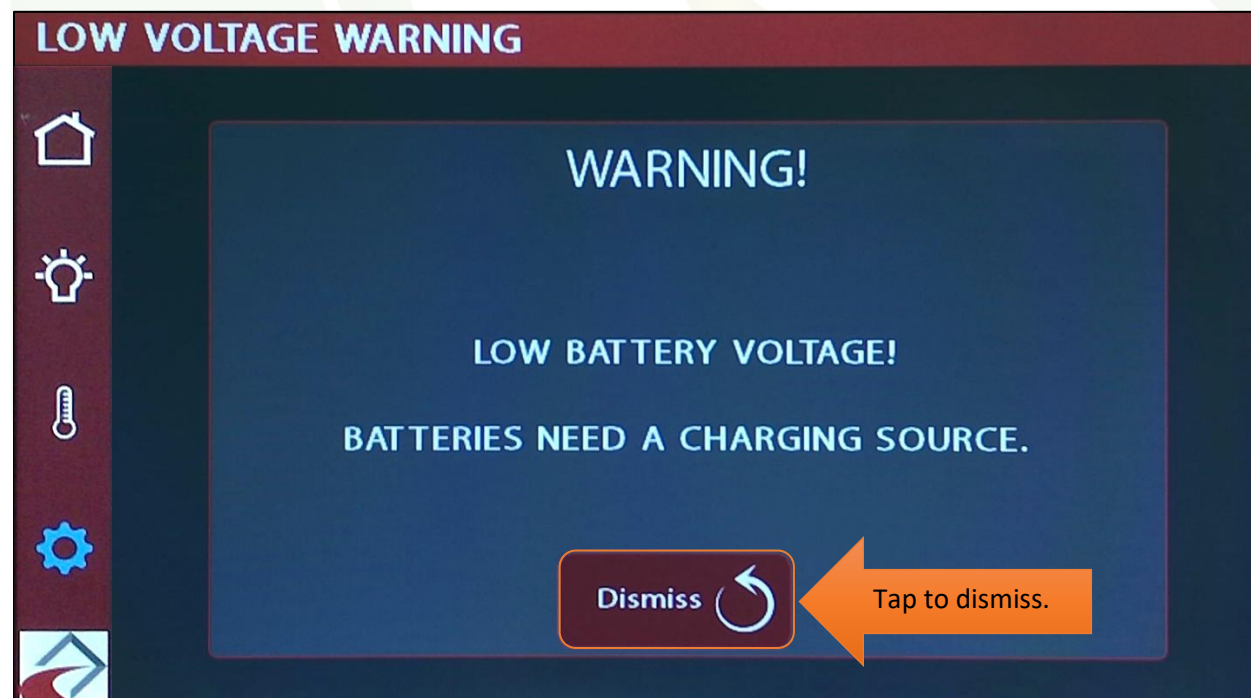
Open



Closed

If the system boots at 12.3V (11.5V AGM), it will trigger every alarm in order, separated by 30 seconds.

Low voltage alarms will reset when the system voltage goes above 12.7V (12V AGM).

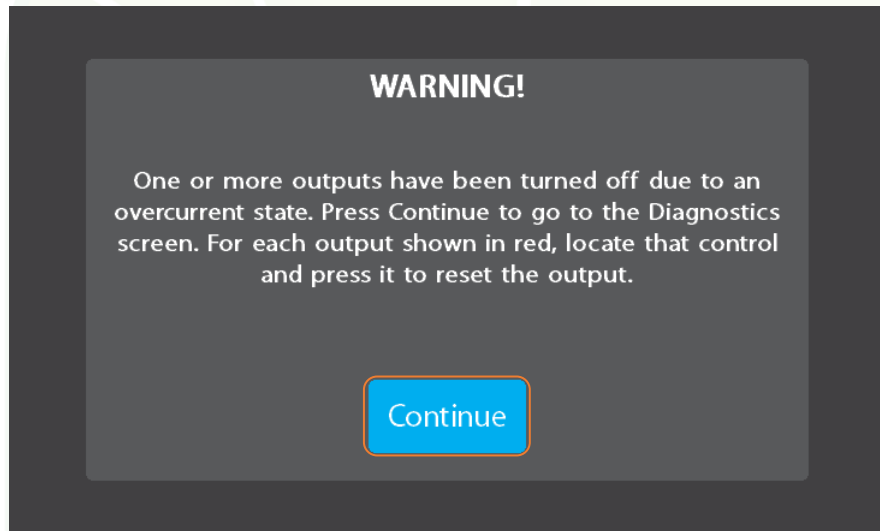




Overcurrent Detection

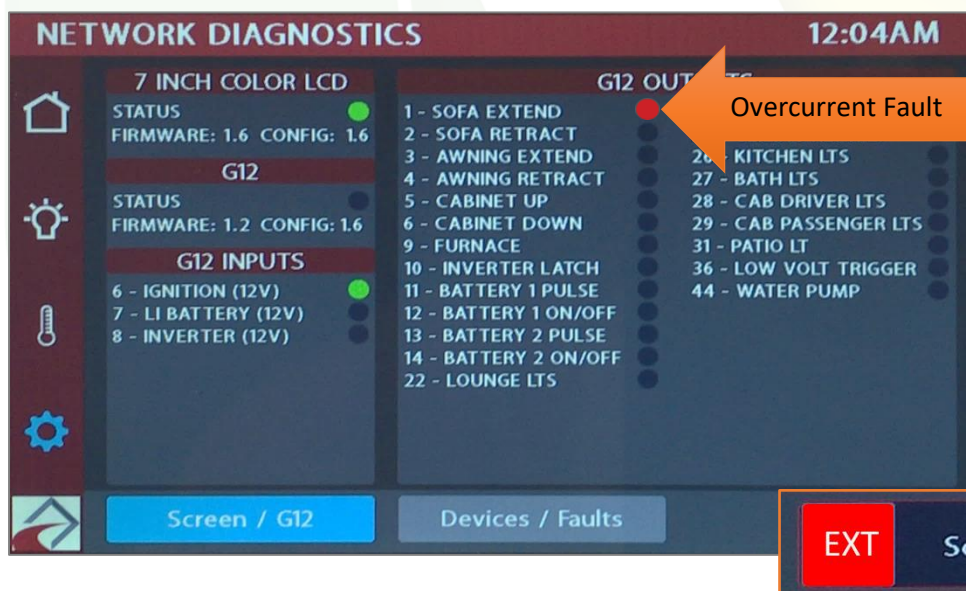


If an output on the G12 experiences an overcurrent fault, a lightning bolt graphic will appear at the top of the screen. Tapping the Lightning Bolt graphic will result in a Warning screen with a brief set of instructions. From this screen, tap Continue to navigate to the Diagnostics screen.



The Diagnostics screen will use red lights to alert you of overcurrent detections. To clear the faults, navigate to each faulted control and tap them to reset. Note – you'll notice that their buttons have turned red and will remain that way until cleared.

If the fault persists, there is likely a fault in the wiring or load on the circuit that must be resolved.



The following outputs have this implementation:

Ch 1 – Sofa Extend

CH 2 – Sofa Retract

Ch 3 – Awning Extend

Ch 4 – Awning Retract

Ch 5 – Cabinet Up

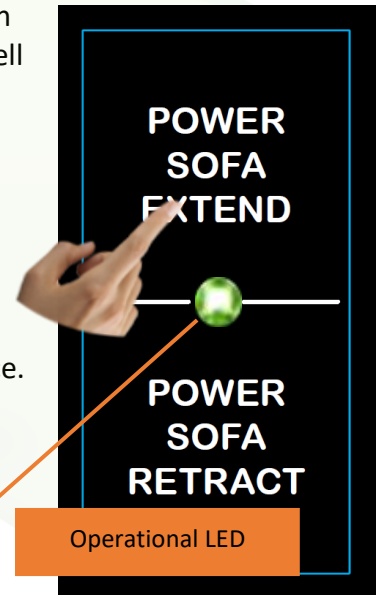
CH 6 – Cabinet Down



SSP17 Switch Panel

SSP17 switch panels use wireless RF technology to communicate with the Lyra touchscreen. These switches are powered by a 2032-coin cell battery. If you press a switch panel button and the operational LED does not illuminate, you'll need to change the battery. Simply use your fingers to pry the switch panel away from the wall-mounted backplate to access the battery compartment on the back of the switch.

Once you replace the battery, line the switch panel up with the backplate and apply pressure to snap the switch panel back into place.



Slide the battery up to remove.



G12 DC Panel

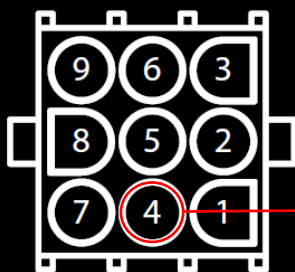
Your G12 control panel is the power distribution center for the coach. This panel receives the signals sent from your touchscreen/switch panels and performs the actions that have been requested by activating and deactivating the required circuits.

Every circuit controlled by the G12 is numbered and listed on a black label (load list) which is usually mounted next to the G12 panel. Note: The G12 will not have individual illuminated NET LED's for each channel. For instance, if you press the Ceiling Front light button on your touchscreen, there will be no illuminated GREEN LED to show that it is currently operational. Check the Network Diagnostics Page to see if the output shows status. If it does, you will want to check output voltage on that pin if the light doesn't come on (Fig 1).



Figure 1

Test **Positive** Output Channels as shown:



Multi-meter

GROUND

J3: HC OUTPUTS 12A; LC 6A

- Pin 1 (Out 21):
- Pin 2 (Out 22): Lounge Lights (6A)
- Pin 3 (Out 23):
- Pin 4 (Out 24): Ceiling Front**
- Pin 5 (Out 25): Ceiling Rear
- Pin 6 (Out 26): Kitchen Lights
- Pin 7 (Out 27): Bath Lights
- Pin 8 (Out 28): Cab Driver Lights
- Pin 9 (Out 29): Cab Passenger Lights



Networking

Your distribution panel and touchscreen connect via your coach's RV-C network. Each component will have a NET LED that is used to show network status. If a NET LED is displaying anything other than solid green and some of the panel's functions are not working, please use the keys below to determine the network status of your hardware.

Net LED Locations:

G12 Panel



Back of Touchscreen





Network Status Indicators

Every component of the Firefly system uses an LED to communicate network status. Use the key below to determine the network status of your hardware. *

Panel Network Status Indicator – Applies to any device with a network indicator:

-  /  Fast flashing Green Light (4 times/sec) – Device is attempting to make initial connection.
-  /  Slow flashing Green Light (1 time/sec) – Device was online but has been offline for at least 5 sec.
-  Solid Green – Device is connected to network and is communicating properly.
-  Solid Red – Device has gone offline and is not connected to a network.
-  /  Alternating Red & Orange – Device has gone offline and is trying to re-connect (within 30 sec).
-  /  Alternating Green & Orange – Device is currently online but has gone offline 2 or more times

*Note: Mira modules use a different networking key. Please see the next page.



Mira NET LED Status Key

The NET LED on your Mira module can change color in different situations. Use the following key to determine the operational status of your module.

	Off	Device has no power or has completely failed
	Fast flashing green (4 times/sec)	Device is attempting to make initial connection to the CAN network and good files
	Solid green	Device is operating correctly and has seen a CAN message in the past 5 seconds and good files
	Slow flashing green (1 time/sec)	Device was active on the CAN bus but has not seen a valid message in 5 seconds and good files
	Alternating red and yellow	Device has not seen CAN messages in 30 seconds and good files
	Alternating yellow and green	Device is currently active on the CAN bus but has not seen a CAN message within a 30s interval 2 for more times since the last power cycle and good files
	Solid red	Device has not seen a CAN message in the past 60 seconds and good files
	Fast alternating green and blue (4 times/sec)	Device is attempting to make initial connection to the CAN network and corrupted files
	Solid blue	Device is operating correctly and has seen a CAN message in the past 5 seconds and corrupted files
	Slow alternating green and blue (1 time/sec)	Device was active on the CAN bus but has not seen a valid message in 5 seconds and corrupted files
	Alternating red and blue	Device has not seen CAN messages in 30 seconds and corrupted files
	Alternating yellow and blue	Device is currently active on the CAN bus but has not seen a CAN message within a 30s interval 2 or more times during a power cycle and corrupted files
	Solid purple	Device has not seen a CAN message in the past 60 seconds and corrupted files
	Flashing white	Device pin is being reset
	Solid yellow	Device pin has been reset
	Flashing blue	Device does not have a valid application
	Flashing red (2 seconds)	Factory test: Red LED
	Flashing green (2 seconds)	Factory test: Green LED
	Flashing blue (2 seconds)	Factory test: Blue LED

G12 Master

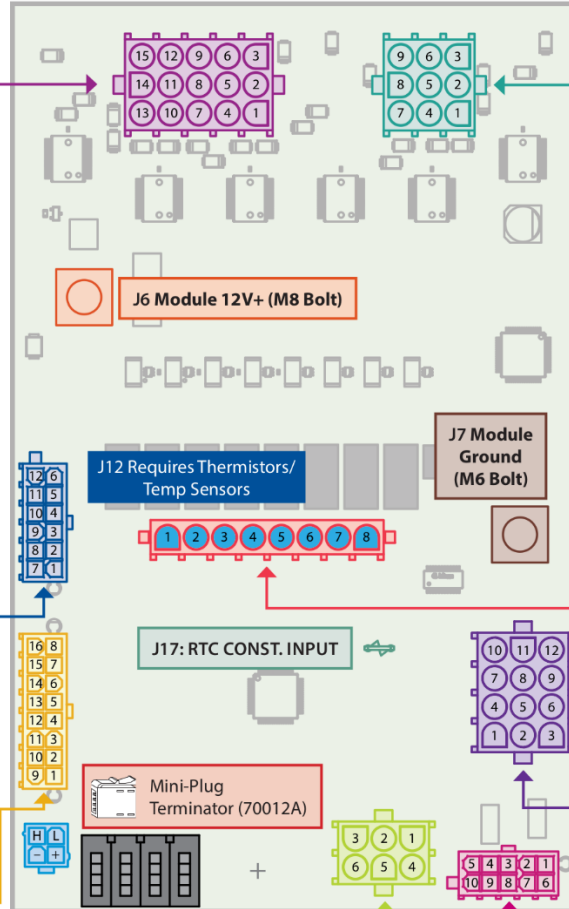
Log In:

Customer: ROADTREK **Model:** PROMASTERZION/SRT **Revision:** 1V11
Raw Part: 7000700 G12 w/Probe **Custom Part:** **Date:** 01/05/21 AG
Outputs: 1-44 **Program Version:**

J4: HIGH CURRENT OUTPUTS 12A; LOW CURRENT 6A				
Pin	Out	Load	AMP	O/C
1	30		4A	.27s
2	31	PATIO LIGHT	4A	.27s
3	32		4A	.27s
4	33		4A	.27s
5	34		4A	.27s
6	35		4A	.27s
7	36	LOW BATTERY BUZZER	4A	.27s
8	37		4A	.27s
9	38		4A	.27s
10	39		4A	.27s
11	40		4A	.27s
12	41		4A	.27s
13	42		4A	.27s
14	43		4A	.27s
15	44	WATERPUMP	6A	1.1s

J12: THERMISTORS	
Pin	Load
1	THERMISTOR 1 (R/P OPTION)
2	
3	
4	
5	
6	
7	THERMISTOR (GND) (R/P OPTION)
8	
9	
10	
11	
12	

J11: TANKS	
Pin	Load
1	FRESH KIB PROBE
2	GREY KIB PROBE
3	BLACK KIB PROBE
4	
5	
6	
7	
8	
9	TANK SENSOR GROUND
10	
11	
12	
13	
14	
15	
16	



J3: HIGH CURRENT OUTPUTS 12A; LOW CURRENT 6A				
Pin	Out	Load	AMP	O/C
1	21		4A	.27s
2	22	LOUNGE LIGHTS (DIM)	6A	.27s
3	23		4A	.27s
4	24	CEILING FRONT (DIM)	4A	.27s
5	25	CEILING REAR (DIM)	4A	.27s
6	26	KITCHEN LIGHTS (DIM)	4A	.27s
7	27	BATH LIGHTS (DIM)	4A	.27s
8	28	CAB DRIVER LIGHTS (DIM)	4A	.27s
9	29	CAB PASSENGER LIGHTS (DIM)	4A	.27s

J8: HIGH CURRENT RELAYS (20A MAX)				
Pin	Out	Load	AMP	O/C
1	1	SOFA EXTEND (RP) (MOM)	20A	2.0s
2	2	SOFA RETRACT (RP) (MOM)	20A	2.0s
3	3	AWNING EXTEND (RP) (MOM)	15A	.26s
4	4	AWNING RETRACT (RP) (MOM)	15A	.26s
5	5	CABINET UP (RP) (OPTION)	15A	1.0s
6	6	CABINET DOWN (RP) (OPTION)	15A	1.0s
7	7		15A	.26s
8	8		15A	.26s

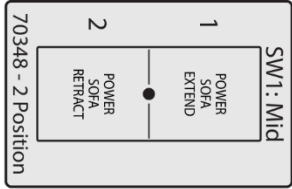
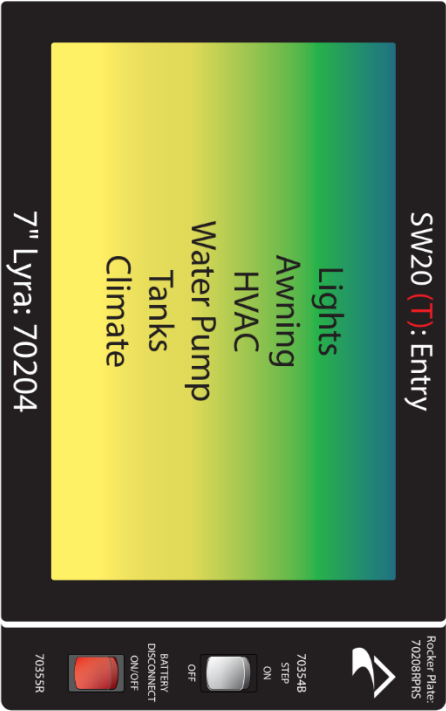
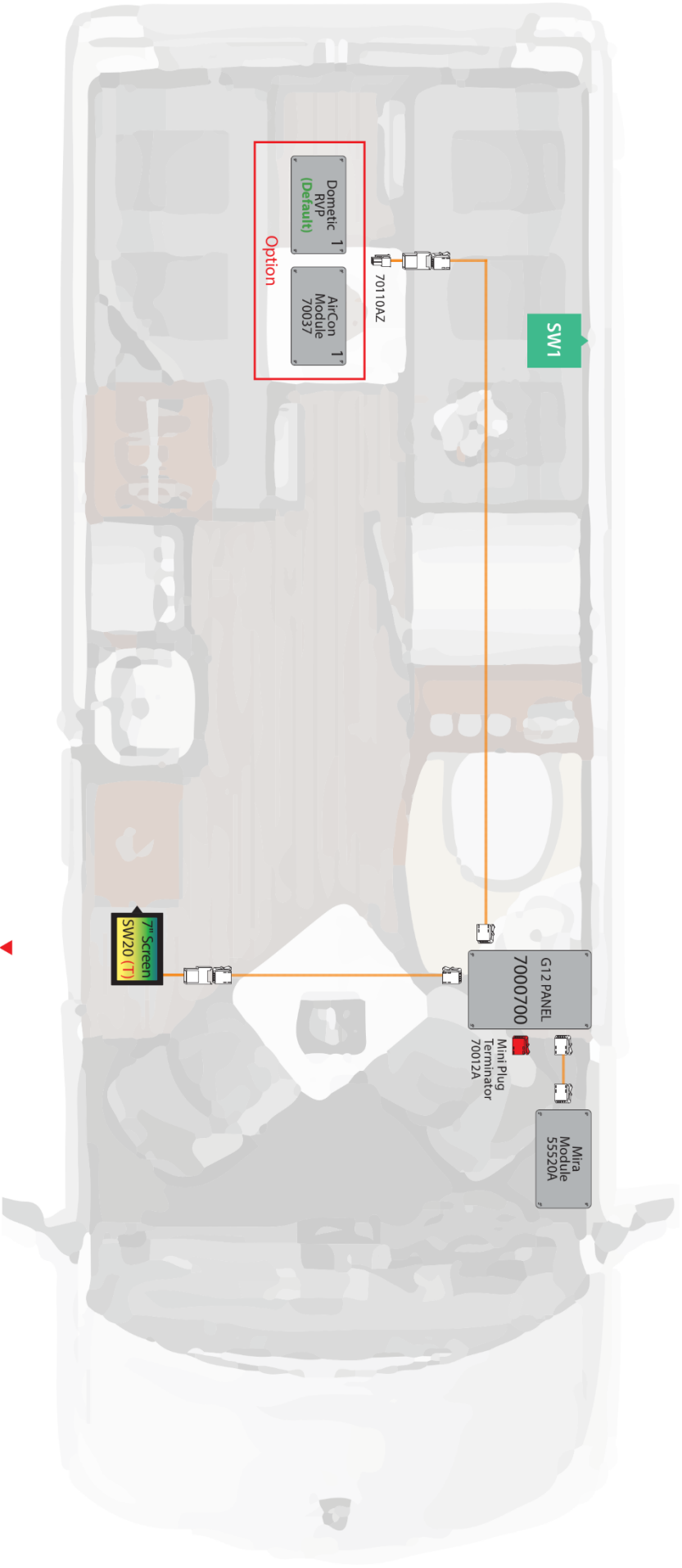
J10: HALF BRIDGES 1A (PROGRAMMABLE POLARITY)				
Pin	Out	Load		+/-
1	9	FURNACE		+
2	10	INVERTER ON/OFF (LATCHING)		+
3	11	BATTERY 1 (MOM)		+
4	12	BATTERY 1 ON/OFF (LATCHING)		+
5	13	BATTERY 2 (MOM)		+
6	14	BATTERY 2 ON/OFF (LATCHING)		+
7	15			+
8	16			+
9	17			+
10	18			+
11	19			+
12	20			+

J5: INPUTS		
Pin	Load	+/-
1		-
2		-
3		-
4		-
5		-
6	IGNITION	+
7	LITHIUM BATTERY POWER	+
8	INVERTER LATCH	+
9		+
10		+

Add Placeholders

Pin Legend: ■ Reverse Polarity

G12 Master 1v3 Updated 12/17/2019



RoadTrek - Zion Promaster			
Network Wiring Diagram and Switch Panel Layout		DI: MD	Network Legend
SSP-17 RF / Lyra	NWD REV 1v6	PI: **	Drop Cable Connections
			Mini Molex Connections