

CHASE

2022 OWNER'S MANUAL



www.roadtrek.com

Contents

Introduction to Your Zion.....	6
Disclaimer	6
Copyright	6
Do's and Don'ts	7
Symbol Legend	7
Regulatory Warnings	7
Information, Cautions and Warnings	8
Before You Head Out.....	10
Coming Home	11
Interior Living Space	12
Cabinets.....	12
Galley Cabinets	14
Lights	14
Tables.....	15
Captain's Seats	19
Window Treatments	20
Ventilation.....	21
Sleeping Facilities	22
Side Loungers	22
Sleeping Set Up.....	23
Bathroom Facilities	24
Door	24
Using the Toilet	24
Shower	25
Appliances	26
TV	26
Antenna and Cable Connections	26

Refrigerator	26
Microwave Oven	27
Propane Cooktop	27
Hot Water	28
Outside Your Roadtrek.....	29
Awning.....	29
Exterior Shower.....	31
Side Door Step	31
Rear Door Screen	33
Side Door Screen	34
Utilities	35
Fresh Water	35
City Water	35
Water Pump	36
Waste Water.....	36
Gray Tank	36
Black Tank.....	36
Indicators.....	36
Gate Valves and Macerator Hose Location	37
Heating and Cooling.....	38
Thermostat	38
Air Conditioning	38
Propane Furnace.....	38
Propane System.....	39
Main Shutoff Valve	40
Propane Tank Filling	40
Propane relief valve	41
Propane Sender	41
Slam Shut Valve	41
About Propane	42

Regulatory Concerns	42
Electrical System.....	43
Coach Batteries	43
Battery Disconnect Switch	43
Charging Your Batteries	43
Inverter Charger	43
Underhood Generator	43
Solar	44
On Board 120 Volt AC Power	44
Standard 3000W Inverter	44
Shore Power	45
Outlets.....	45
Monitor Panel.....	46
Location	46
Power Sources	46
12 Volt DC Power	46
Inverter	46
Other Switches	46
Distribution Panel.....	49
AC Breaker	49
12 Volt Fuse Panel.....	49
Alarms and Warnings.....	50
Propane and CO Monitor	50
Smoke Detector	50
Low Battery Level	51
Fire Extinguisher	51
Maintenance.....	52
Tires	52
Cargo Carrying Capacity	52

Owner Maintenance Checks	52
When You Stop for Fuel or Weekly	52
Every Other Week	52
At Least Monthly	52
At Least Every Three Months	53
At Least Twice a Year	53
At Least Once a Year	54
Other Maintenance Checks	54
Replacng Power Sofa Switch Battery	54
Tire Service Kit	54
Roadtrek Two Year Limited Warranty.....	55
Appliance Warranty.....	56
AGM Battery Warranty	57
Diesel Particle Filter Warranty	57
Warranty Intent	57
Defects Vs. Damage	57
Obtaining Service	58
Specifications	58
Explanation of Vehicle Weights and Ratings	59
Roadtrek Warranty Service	60
Aftermarket Disclaimer	61
Regulatory Notices	61
How To's.....	62
Appendix: Firefly Monitor Panel User Manual	63

Introduction to Your Chase

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.**

This manual is released under a Creative Commons Attribution-Non-Commercial-No Derivatives 4.0 International License [1].

In summary, you may:

- Copy any portion of this manual in any form for personal use.
- Distribute this manual complete with all its original unmodified content.
- Modify this manual for your own personal, non-commercial use.

You may not:

- Use this manual for any commercial use whatsoever.
 - Modify this manual except as provided for in the full license and then distribute the resulting work.
 - Charge for this manual other than reasonable media and shipping costs.
-

All images used in this manual remain the property of Roadtrek Inc. They are for illustrative purposes only and may or may not be representative of the upfits in your Roadtrek. Contact Roadtrek Inc. for alternate licensing arrangements if you want to use or distribute this manual commercially.

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 retaining clips.
	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 2019 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 and black 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. Do not let water you are planning to use sit in your tank for more than a week or so, and do not 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 with inverter on 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, if parked where sunlight is available (non-lithium version). If you do not 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 do not turn everything off, even with solar panels, you will probably come back to dead batteries.
 - Charge / discharge Lithium batteries to approximately 13.2 volts. Then turn off and this will prep for storage up to 90 days.
-

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 12.1, 12.2)

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.

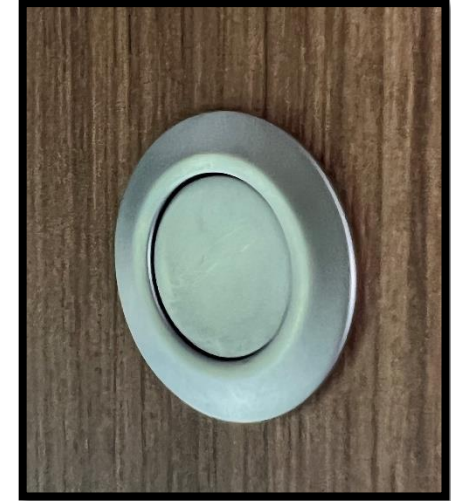


Weight in each cabinet should not exceed 50 lb. / 22.7 kg. Exceeding this weight could cause the cabinet to break or for the latch to not engage properly. Causing doors to open during travel



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.



12.1



12.2

Cabinets (Continued)



13.1

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



13.2

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



Picture 13.3

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 13.1)



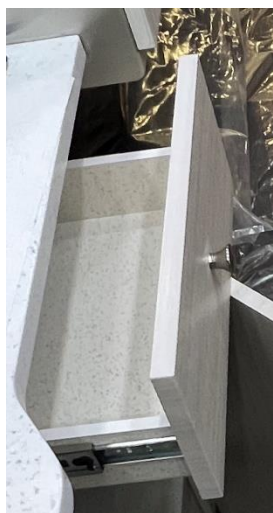
DO NOT FORCE THE DOOR OPEN BY PULLING OR PRYING ON IT - you will break the latch.

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 will not stay shut when latched. (Picture 13.2)

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 (picture 14.1) to hold your kitchen supplies. The drawer underneath the stove pulls out and can be used to hold silverware and small cooking utensils. Across the galley under the fridge is a large pots and pans drawer. (pic 14.4) Next to the fridge there is huge pullout pantry. (pic 14.3)



14.1



14.1



14.4



14.3

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 pressing the lens area of a given light. (Picture 14.2) NOTE: Lights must first be turned on with Firefly. If light is turned off manually it will stay off until manually turned back on, even after full shut down. These are LED lights and consume very little electricity.



14.2

Table Set Up

The standard table can be set up to use either the front or rear lounge areas for dining, computer, gaming, or other recreational use. The table is stored in the left rear door. (Picture 15.1) Twist the white hinges on both sides to release the table and slide out. (Picture 15.2) The table leg is stored in the closet to the right of the stove. (Picture 15.3) The leg keys into a T-nut fitting in the floor plate. Picture (15.4) Unscrew the nut (Picture 15.5) all the way at the end of the table leg.



15.1



15.2



15.3



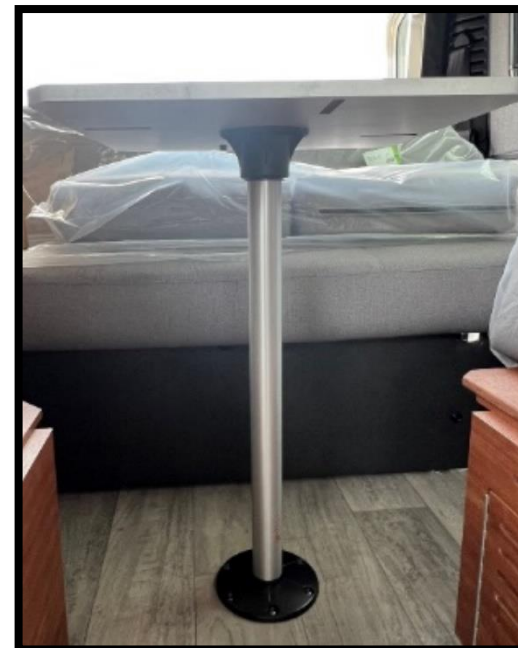
15.4



15.5

Table Set Up Cont...

Once the T-nut is unscrewed, insert into the key in the floor plate. (Picture 16.1) Rotate the table leg clockwise and it will tighten into place within a couple of turns. If it does not, make sure the T-nut is unscrewed all the way and try again. The tabletop screws onto the table leg by turning it clockwise. Make sure it is secure before use.



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

Lagun Table Set Up (Optional)

The Lagun table can be set up to use either the front or rear lounge areas for dining, computer, gaming, or other recreational use. The table is stored in the left rear door. (Picture 17.1) Twist the white hinges on both sides to release the table and slide out. (Picture 17.2) The table leg is stored in the closet to the right of the stove. (Picture 17.3) Line up the three-sided leg with the floor plate. (Picture 17.4) Once inserted turn plastic locking collar clockwise till tight. (Picture 17.5)



17.1



17.2



17.3



17.4



17.5



Table should be stowed during travel.

How to adjust the Lagun Table



Loosen clamp on Lagun arm and place on top of the leg assembly.



Loosen the other clamp and place tabletop with mounting plate on top of Lagun arm



To adjust height, loosen handle, raise to comfortable height, and then tighten handle to lock in place. When rotating table ensure clamps are loosened.



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 (picture 19.1). 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 (picture 19.2), 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.



19.1

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



19.2

Front lounge table



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

Window Treatments

The nightshade curtain blocks airflow. (Picture 20.1) 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.



20.1
The side window screens –
nightshade side



20.2
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.

To set the temperature use the remote. (Picture 21.2)

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.

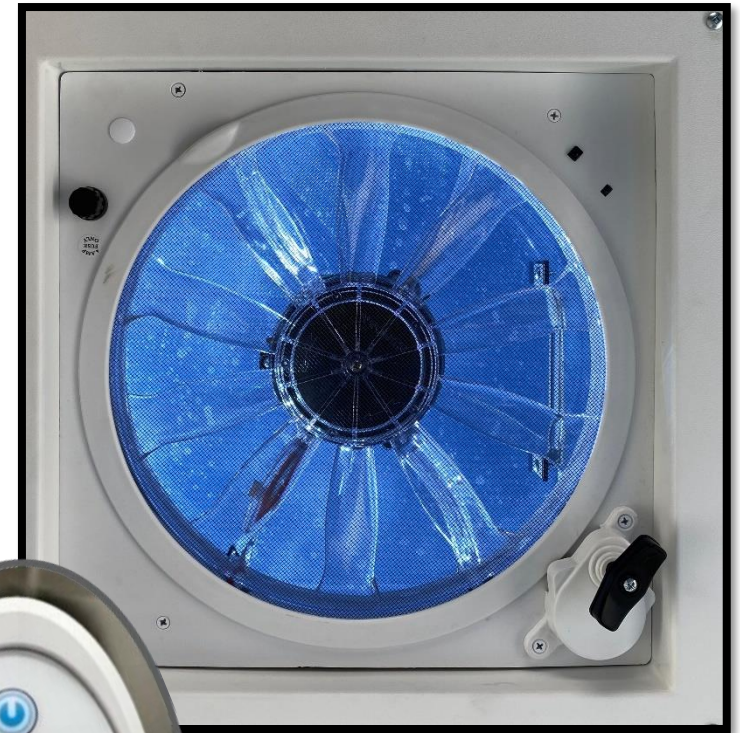
For more details, please refer to the Fantastic Fan manual.



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



21.1



21.2

Sleeping Facilities

Your Roadtrek has beds that can be configured as a king bed (pic 22.1) or twin bed (pic 22.2).

Experiment with different configurations to find what works best for you.

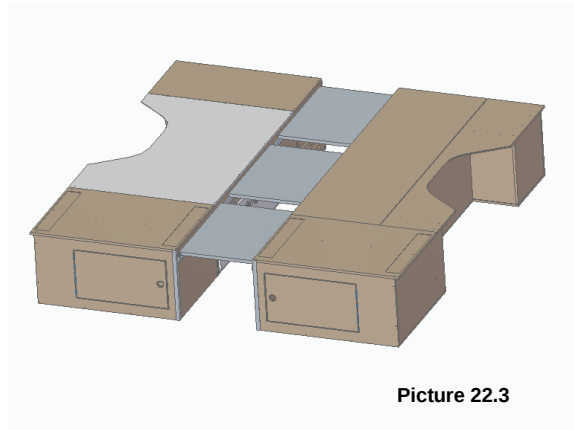


22.1



22.2

Sleeping Facilities – Set Up



Picture 22.3



23.1

Driver side:

- There is a perforated door installed on the driver's side bed for air circulation from the inverter which is instated at one position towards the front of the van.
- Top Shelf is not operable
- Two banks of drawers are provided for storage and one more storage compartment provided towards the end with the swing door

Passenger Side:

- Flip-up top cover gives access to very spacious storage compartment underneath
- One more storage compartment provided towards the end with the swing door

King Bed Conversion

- The three wooden center pieces provided are used to convert it to King Sized bed
- Pieces to be supported on the long wooden trims attached to the bed (Picture 22.3)
- Back support cushion is designed to be placed in the center of the bed over these three pieces to be able to be converted to king size bed.

Adjustable Headrest (picture 23.1)

- There are 6 Levels (1.5" to 8.25") adjustable headrest with wooden slats on both Driver and Passenger side. To adjust the headrest, simply lift up from the top to the desired height.

Froli Springs

- These are fabricated spring supports on the base of the bed platforms. These are designed to maximize bed comfort and provide under cushion ventilation.



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 24.1) 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 24.2)



24.1



Bathroom door pin



TP holder
Not a handle – will not
support weight



Inside door lock



24.2

Shower



25.1
Shower connection and knob



25.2
Shower drain



25.3
Shower curtain and light

To take a shower, unscrew the drain stopper in the center of the bathroom floor. (Picture 25.2) 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 25.3) Pull the knob on the spout up and adjust the water temperature as desired. (Picture 25.1) 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.

Appliances

TV

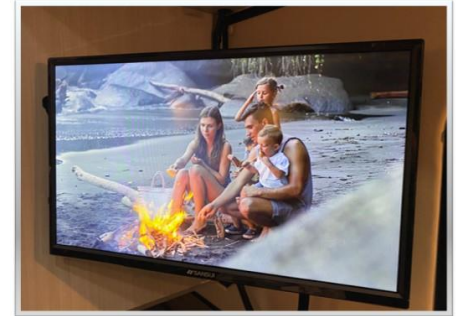
The Smart TV is in the rear lounge area on the passenger side (Picture 26.1). The television uses 120 volts, so the inverter, generator, or shore power must be on and available for it to work. The TV is supplied with a remote control. Please note that antenna channels will need to be reprogrammed with each start up.

Antenna and Cable Connections

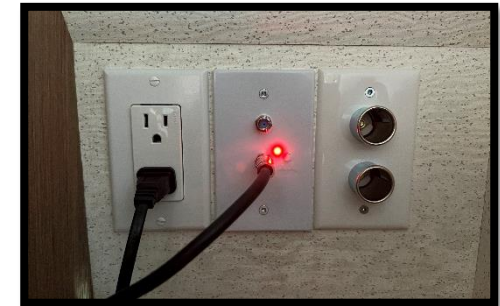
There are two antenna connections in the cabinet above the TV (26.2). One is labeled for the TV. (26.3) When the button is on and red it is using the sole antenna (26.3a), the button is off it is using the exterior park connection. The second Coax connector allows any User's device to be hard wired to the back side of the connection box. (Picture 26.3) Coax shore connections are on the bottom left rear of the van. (Picture 26.4)

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 while charging the batteries.



26.1



26.2

TV connections



26.3a



26.4

Coax Shore Connections



26.3

Microwave Oven (Picture 27.1)

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 27.2)

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 27.3 an optional Induction Stove)



27.1
Propane Cooktop



27.2
Propane Cooktop



27.3
Optional Induction Stove



Please be aware when using microwave/induction stove there is a possibility of draining your batteries if not connected to shore power.

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 28.2) 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 28.3) Refer to your Girard water heater manual for details of operation.



28.2
Girard water heater



28.3
Water heater control panel

Outside Your Roadtrek

Awning

Your Roadtrek has a roll up awning. (Picture 29.1) The awning is controlled by the Firefly interface, simply press the touch screen switch to extend or retract. (Picture 29.2) The awning has two support struts that must be used to support the awning. (Picture 29.3) 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.



29.1



29.1



29.2



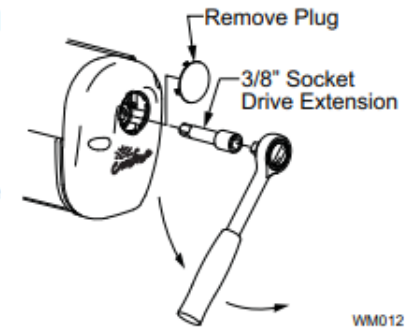
29.3

MANUAL OVERRIDE

If 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.

NOTE: This procedure cannot be used to extend the awning.

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



NOTICE 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 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.

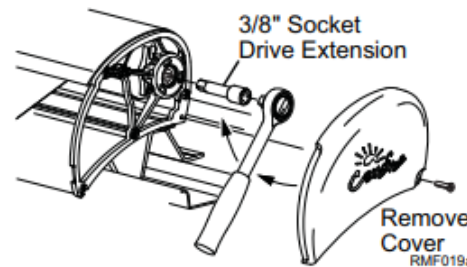
S

MANUAL OVERRIDE (MOTORIZED AWNINGS)

If 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.

NOTE: This procedure cannot be used to extend the awning.

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



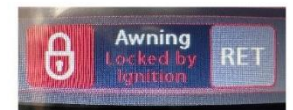
NOTICE After closing the awning with the manual override, the lead rail may move out from the case 1/4" - 1/2". This is normal and the awning is secure for travel until power is restored or repairs are completed. Do not attempt to force the lead rail in with the override, serious damage can occur to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



These procedures cannot be used to extend the awning.



If the van is turned on, then the awning controls on the Firefly will lock. Turn off the ignition to retract awning.



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. The outside shower (picture 31.1) is located on the driver's side, towards the rear wheel, next to the model's name decal. A key, supplied with the coach, will be needed to open the outside shower storage door.



31.1



31.1

Side Doorstep (Picture 31.2)

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.



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.



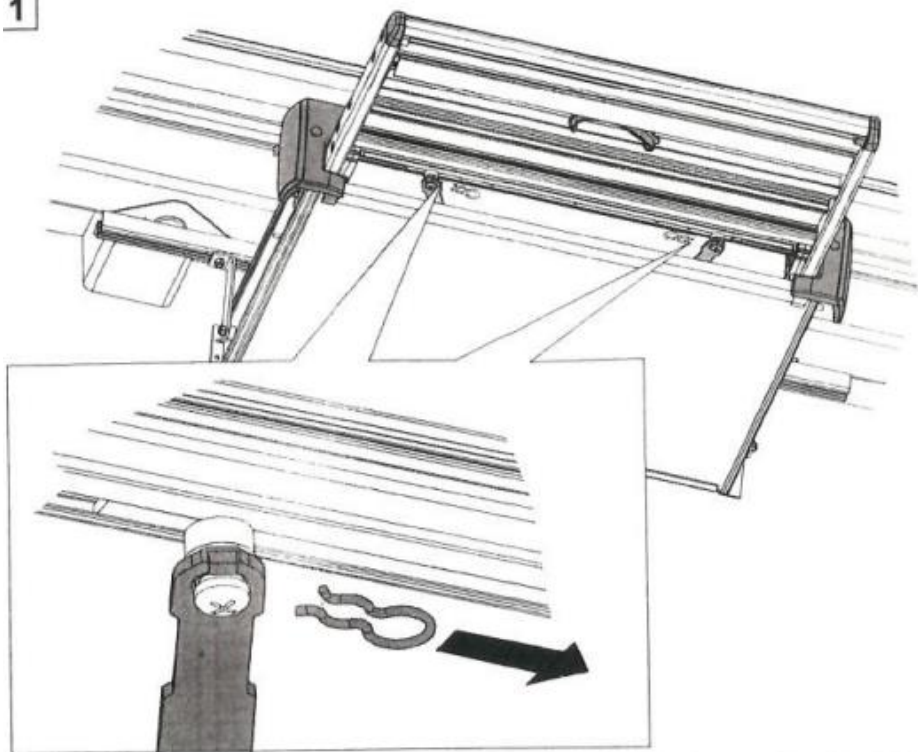
Included is an illustrated Manual retraction process. For full details on the process please see the owner's manual located at: [Roadtrek Owners: Contact Service, Warranty, How To's, Manuals](#): Select Model year than Appliance manuals



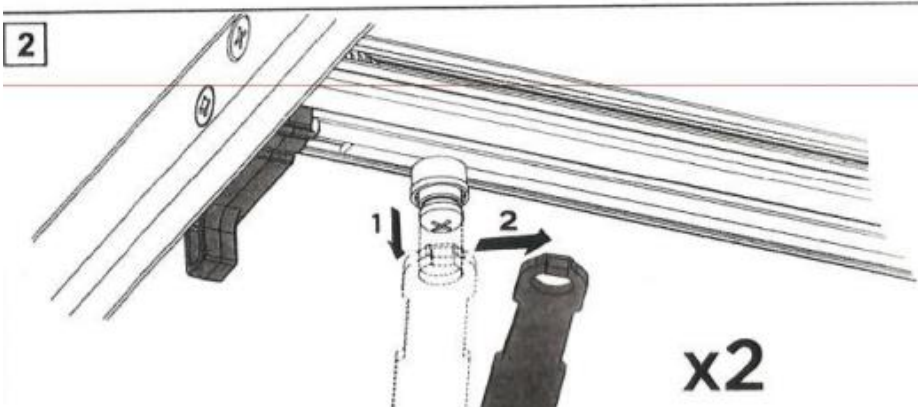
31.2

MANUAL RELEASE

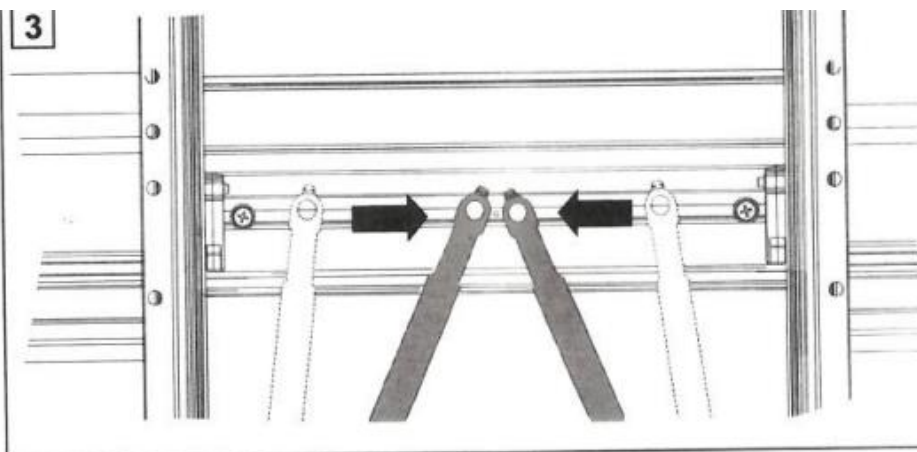
1



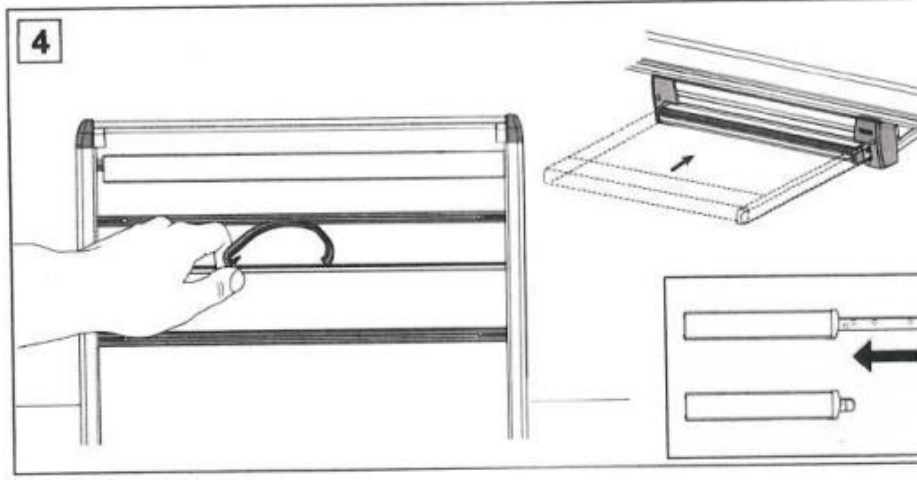
2



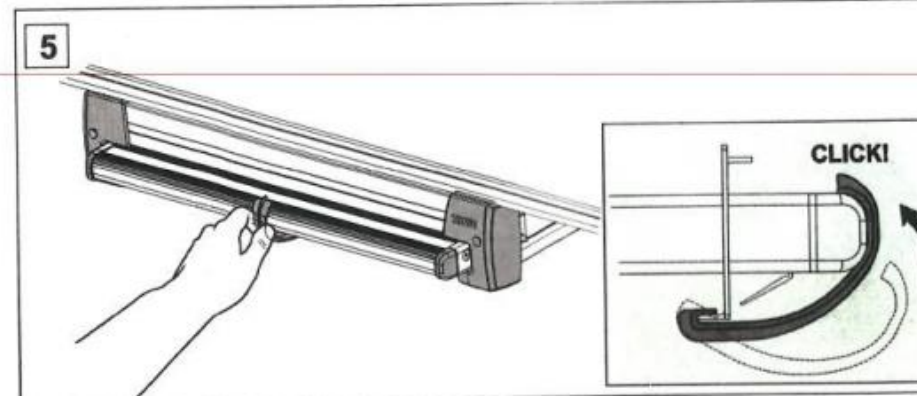
3



4



5



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, 33.2, 33.3) 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.



33.1

Rear screen with full privacy



33.2

Rear screen with bug net



33.3

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 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.



Side screen closed with bug net



Side screen showing magnetic close



Screens are attached by heavy duty Velcro. Pull on both straps to detach screen in an emergency.



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, Roadtrek vans provide maximum fresh water holding capacity. One tank is uniquely concealed behind the cab area and is not visible inside the vehicle. You can fill the freshwater tanks from a convenient water spigot, located in the driver's side door pillar.

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 35.1) Fill until water comes out the hole.



35.1

Fresh water tank fill

City Water

The city water connection is in the rear, underneath the rear bumper on the passenger's side. (Picture 35.2) 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.



35.2

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 36.1)

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 tank contains 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 cannot 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 36.2) 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.

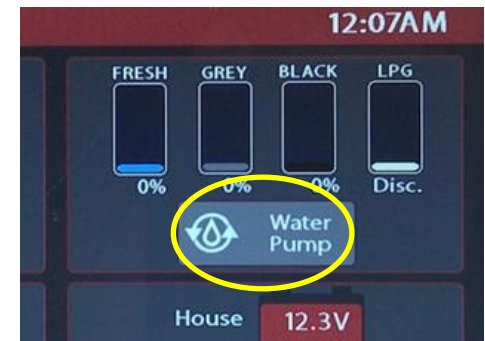
See Firefly Panel for more information.



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.



Debris, minerals, and moisture will impact readings. Periodically cleaning the tanks will be required for proper readings.



36.1

Water pump switch location
on monitor panel



36.2

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 37.3). 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 37.4)
- 3" Gate valve for manual hose connection (green arrow in picture 37.4)
- 1.5" Gate valve for grey water holding tank (orange arrow in picture 37.4)
- 3" Gate valve for back water holding tank, located just behind forward door bracket (yellow arrow in picture 37.4)
- Locking storage compartment for flexible macerator hose and nozzle assembly



37.3
Wastewater holding tank gate valve
and macerator system location



37.4
Gate valves



37.5
Locking storage compartment for
flexible macerator hose



37.6
Flexible macerator hose



Push button to
start macerator

Heating and Cooling

Thermostat (Picture 38.1)

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 come on whether heat or cool is selected.

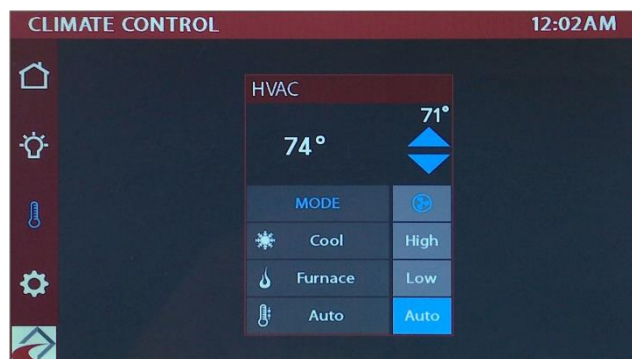
Air Conditioning

The air conditioner (AC) provides cooling for your Roadtrek using electric shore power or the under-hood generator. (Picture 38.3) 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 38.1) 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.



38.1



38.3

Roof-mount air conditioner



38.2

Propane Furnace

Propane System

The propane tank is located on the passenger side of the van, just forward of the rear tire (picture 39.4). 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 39.5).

⚠ 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 39.6), 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.

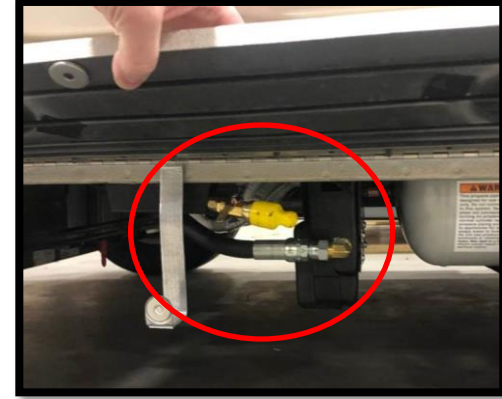
⚠ The connection required is **not** a ¼ inch quick connect, it is a special fitting called a Cast product male 829000.



39.4
Propane tank location



39.5
Propane tank



39.6
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 Chase.

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 (Picture 43.1)

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.



43.1

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 Chase 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.



Inverter Switch

Solar

The provided solar panels will charge your batteries when sufficient sunlight is available. The solar charge controller (Picture 44.1) 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. This inverter provides 120-volt AC (household current) for the outlets in your Roadtrek; primarily the one running the TV. 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.

44.1



Solar charge controller



Shore Power

The shore power connection is through the shore power cord, which is stored inside the van. The switchover from shore power to inverter is automatic.

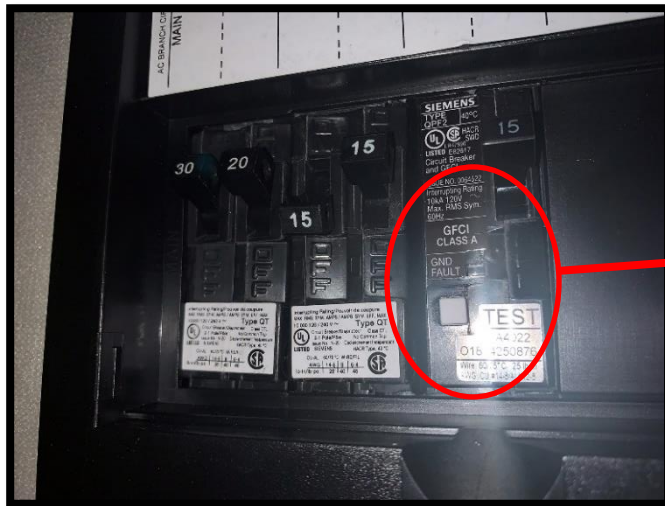
To connect to external (shore) power, open the side compartment and remove the power cord. Plug the power cord into the campsite 30-amp power source. Visit the owner's section of our website to read the HOWTO: Shore Power guide on how to connect and disconnect to shore power.



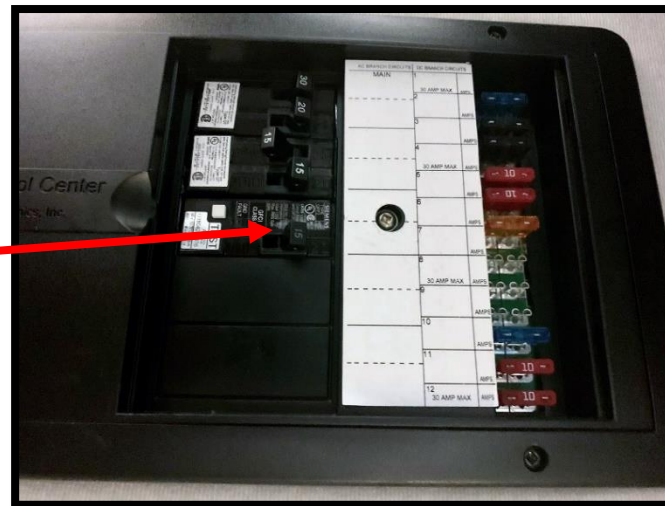
Running certain appliances when plugged into less than 30 amps will result in component damage

Outlets

The outlets are operated from the inverter, generator, or shore power. Further, the outlets are protected by GFCI. The 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

Note: Fuse Panel labeling is located on the back of the cover

Monitor Panel

Location

The Firefly monitor panel is located inside the side door, above the doorframe, to the left of the galley. (Picture 46.1). 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 under hood generator.

12 Volt DC Power

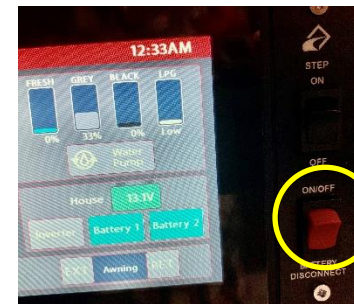
The power to the 12-volt DC outlets and appliances is controlled by the battery disconnect switch located adjacent to the Firefly monitor. This switch must be on for any of the 12-volt electrical devices to work. Remember the inverter will turn off by turning off the battery disconnect switch.



Monitor Panel
46.1



Inverter Switch
46.2



Battery Disconnect Switch
46.3

Inverter

The inverter provides 120-volt AC (household current) to the 120-volt appliances and wall outlets. (Picture 46.2) The switch on the inverter unit should always remain in the off position. At least one battery needs to be on for the inverter to operate.

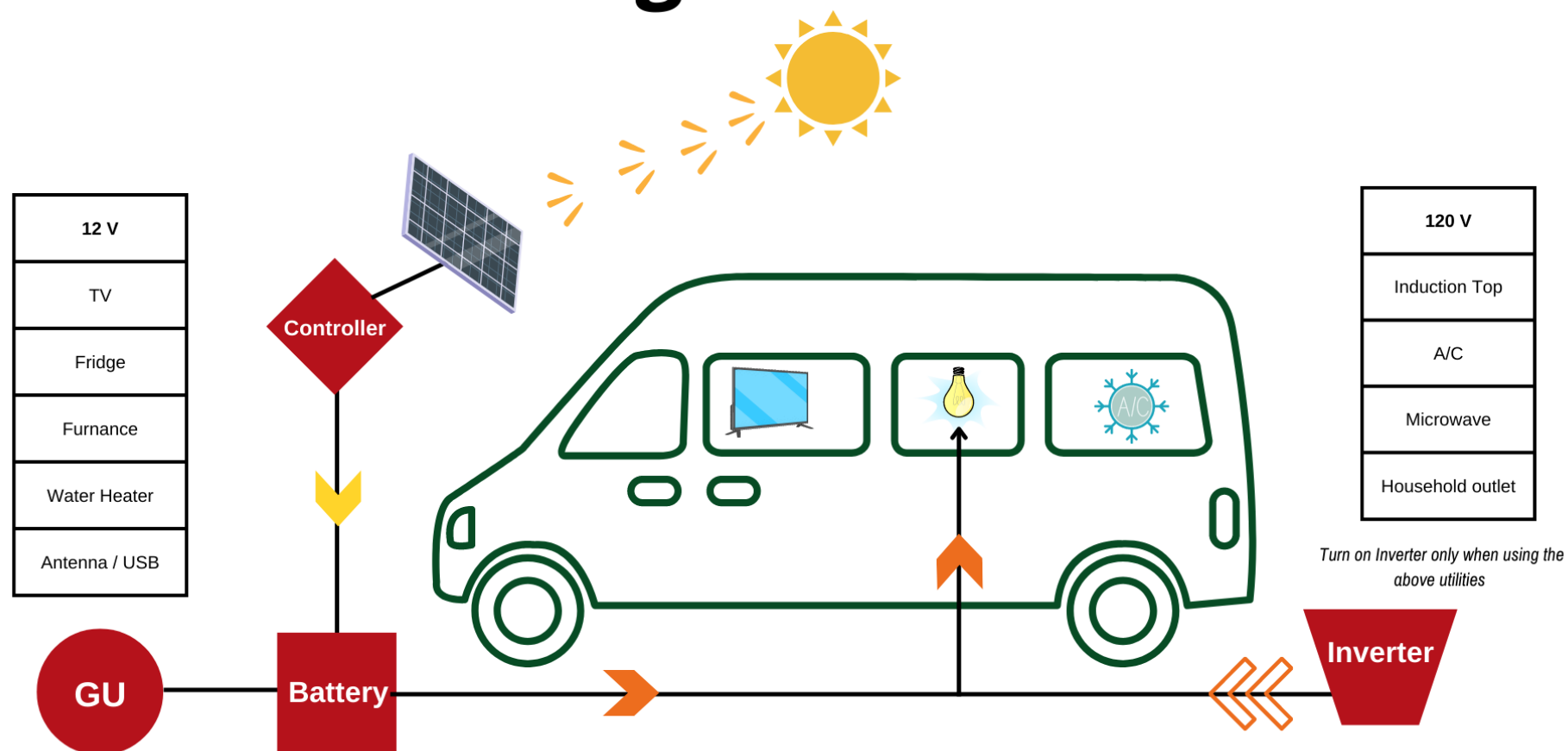
Shore Power

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.

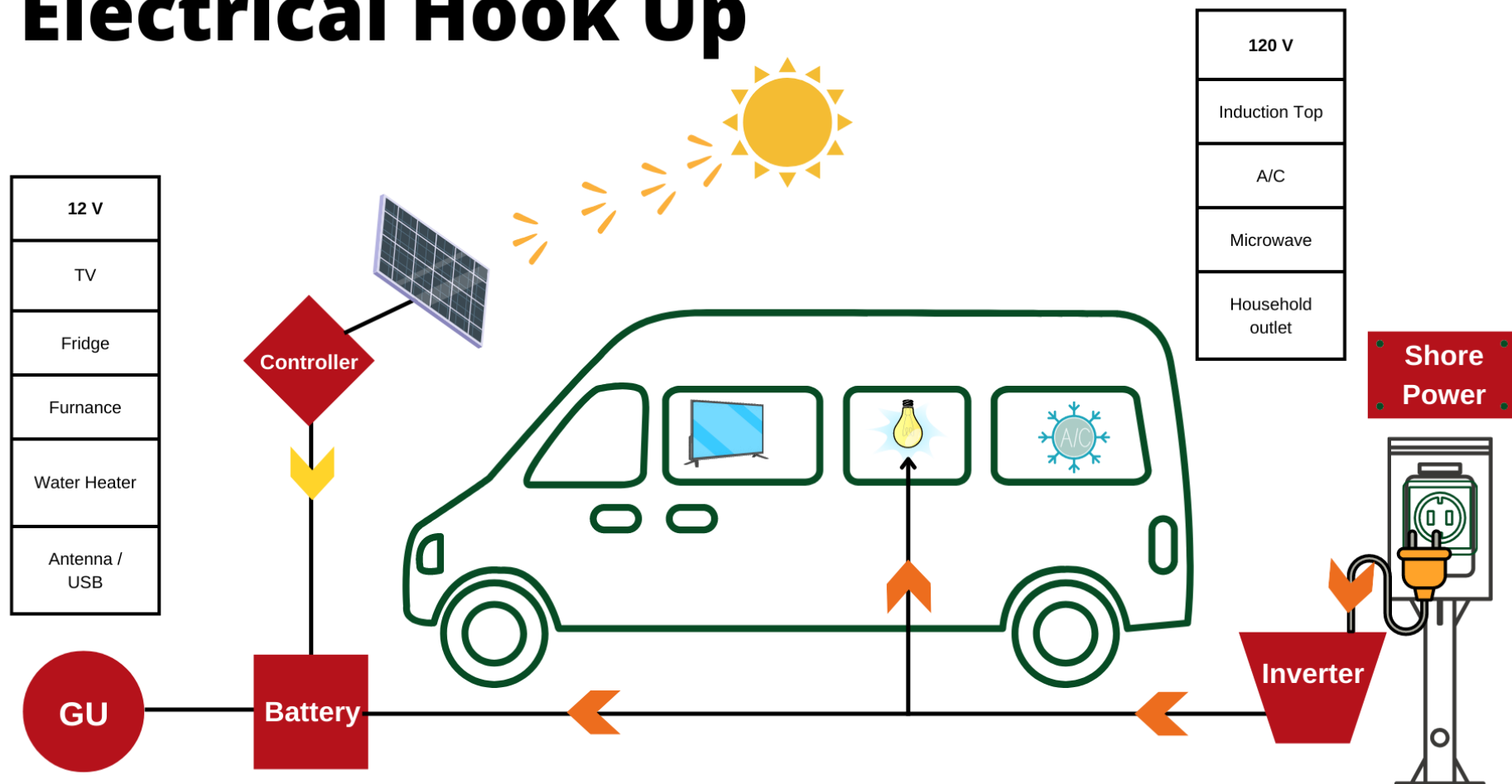
Boondocking



Please note that all 12-volt appliances run off the battery which is powered by the solar panels and GU.

Please note that to run any 120-volt appliances the inverter must be turned on.

Electrical Hook Up



Please note that all 12-volt appliances run off the battery, which is powered by the solar panels and by the inverter when plugged into shore power.

When plugged into shore power all appliances can be powered by the inverter.

Distribution Panel

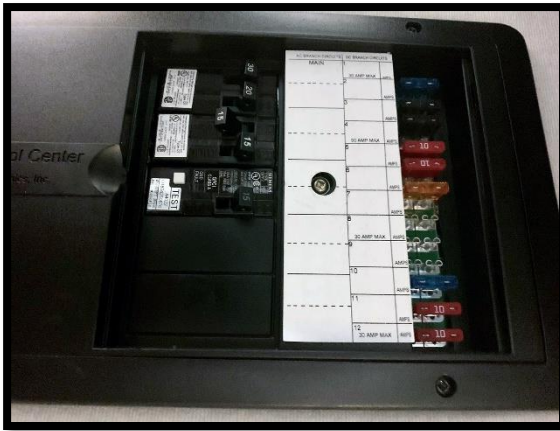
The distribution panel is in the headliner above the driver's seat. The 120-volt AC breakers, GFCI and the 12-volt DC fuses are behind a black plastic cover on the right side.

AC Breaker

Flip the cover to the right and note the sticker under the cover with the identifying information on each breaker. (Picture 49.1) 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.



49.1

Breaker and fuse access

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

1	15 Amp, 12VDC Refrigerator
2	1 Amp, 12VDC Shower lites/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 & recepts
12	10 Amp, 12VDC Patio, Cab, Pa lites & recepts

Please note that your breaker and fuse set up may differ depending on model

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 and the lithium batteries are 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. It will sound at 10.5 volts.

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 smoke detector owner's manual for replacement interval for the battery and for the detector itself. The smoke detector is not connected to the RV battery bank.



Smoke alarm is shipped with battery reserved. Check battery installation if the smoke alarm does not work. Alarm will sound if battery falls 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)

The low voltage alarm does not mean that your batteries are dangerously low. This is an alert to make you aware that if you use a heavy electrical consumption, IE: air conditioner and microwave, this may cause the battery to dip below the cutoff point and the BMS will shut off the battery.

When below 12.7 volts it is recommended to charge the battery or run the engine while using high powered items: air conditioner, microwave, induction cook top.

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.



46.1

Located behind passenger seat

Maintenance

Refer to the maintenance plan on the following pages for the required maintenance intervals. More frequent maintenance may be needed in conditions, such as dusty areas and very short trip driving. In some extreme conditions, additional maintenance not specified in the maintenance schedule may be required.

Appliance owner's manuals are available for download at [Roadtrek Owners: Contact Service: Warranty: How To's: Manuals](#)

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.
- Clean the Thule Step and maintain as per the owner's manual.

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.

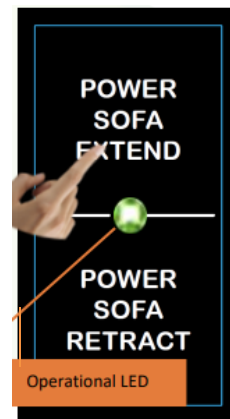
To prevent water from entering your vehicle, avoid spraying water directly into exterior vents or grills. Do not use a power washer to clean your Roadtrek because damage to the paint, removal of decals and water leaks will result. Hand washing or commercial car washes accommodating large vehicles are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

Replacing Power Sofa Switch Battery

When there is no operational light coming on, time to replace the battery. The switch requires a 2032- coin cell battery. Pry the switch panel away from the wall mounted backplate to access the battery compartment on the back of the switch. Replace battery. Line the switch panel up with the backplate and apply pressure to snap the switch panel back into place.



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 alignments 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)
 - Engine Generator and Voltage regulator
 - Furnace or other heating system
 - Microwave oven
 - Power Sofa
 - Power steps
 - Power roof vents
 - Propane regulators
 - Refrigerator
-

- Stove
- Toilet
- Valves (Black and Gray Tanks)
- Water pump
- Macerator
- Water heater
- Smoke alarm/Carbon monoxide detector
- Lithium 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.

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:

In the event your Roadtrek requires service or service support please contact your selling Dealer first. They are most familiar with your purchase and should have established a working relationship to take care of your needs. Should your travels have you distant from your selling Dealer you can use our Dealer Service Locator at www.roadtrek.com/locators to find a service center.

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.

Explanation of Vehicle Weights and Ratings

UVW (Unloaded Vehicle Weight) is just the weight of the vehicle including a full tank of propane at 4.2 lbs. per US gal. Sprinter tanks are 16 US gal so 67.2 lbs. and ProMaster are 5.9 US gal so 25 lbs.

Curb Weight = UVW + fuel at 6 lbs. per US gal for gas and 7 lbs. per US gal for diesel

Cargo Weight includes passengers, cargo, optional equipment, and water at 8.3lbs per US gal

GVW (Gross Vehicle Weight) is the Unloaded Vehicle Weight (including propane) plus occupants, cargo, and fluids. It is the actual weight of the RV completely loaded as it would be when travelling including a trailer tongue weight (but not the trailer weight)

GVWR (Gross Vehicle Weight Rating) is the maximum allowable weight of a fully loaded RV including the tongue weight of a trailer

GVW must never exceed the GVWR

OCOC (Occupant Cargo Carrying Capacity) is the **GVWR - UVW**

GAWR Front (Gross Axle Weight Rating front) is the Gross Axle Weight Rating of the front axle only

GAWR Rear (Gross Axle Weight Rating Rear) is the Gross Axle Weight Rating of the rear axle only

GAW Front (Gross Axle Weight Front) is the loading of the front axle
GAWR F (front) Gross Axle Weight Rating Front

GAW Rear (Gross Axle Weight Rear) is the loading of the rear axle including tongue weight of a trailer. With a minimally loaded vehicle and the trailer attached measure the weight of the front axle only on a scale and then weigh the vehicle but not the trailer. Then subtract the front axle weight from the total to arrive at the rear axle weight.

GAW R = GVW – GAW Front (Gross Axle Weight front) including the and this must not exceed the GAWR Front (Gross Axle Weight Rating Front).
the GAW Rear must not exceed the GAWR Rear (Gross Axle Weight Rating Rear)

GCW (Gross Combined Weight) is the weight of the fully loaded RV plus the fully loaded trailer

GCW = GVW (including propane) + cargo weight + water weight + passenger weight + trailer weight

GCWR (Gross Combined Weight Rating) is the maximum combined weight established by the manufacturer according to the chassis design

Towing Capacity is the Maximum Trailer Weight which is the **GCWR – GVW** of a minimally loaded vehicle. Also be sure to stay under the limits of the vehicle trailer hitch and the manufacturers maximum tow capacity rating.

RV brakes are designed for the GVWR of the vehicle and does not include a trailer. Trailers must have their own supplemental braking systems. Do not use a load leveling hitch system since this is not attached to the frame of the vehicle and could cause damage to the vehicle.

Roadtrek Warranty Service

How to Get Service

In the event your Roadtrek requires service or service support please contact your selling Dealer first. They are most familiar with your purchase and should have established a working relationship to take care of your needs. Should your travels have you distant from your selling Dealer you can use our Dealer Service Locator at www.roadtrek.com/locators to find a service center.

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 855-745-2650.

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>

HOW TOs

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