



190 Popular

2018 OWNER'S MANUAL



ERWIN HYMER GROUP
NORTH AMERICA
the leisure experience

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Introduction to Your 190 Popular

Congratulations on the purchase of your Roadtrek and welcome to the Erwin Hymer Group NA family. The information included in this manual is meant to help and guide you through the use of your vehicle so that you know how to properly use the many functions your 190 Popular 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@erwinhymergroupna.com.

Disclaimer



This owner's manual was created to help owners with general use, maintenance and care of their RV. Erwin Hymer Group NA conducts ongoing product development and uses photos from multiple brands 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.



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References

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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
	Danger	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.
	Warning	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.
		Do not fill propane containers to more than 80% of their capacity.

	Warning	• 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 forward facing 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.
	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, unplug the output lead from the power inverter.
	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 Erwin Hymer Group NA 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 an AC generator located underneath the engine. Never submerge the generator. Use a spotter when launching a boat or crossing streams.
	Waste Water Storage and Dumping System	Close the gray water gate valve before using the waste water system.
	Freezing	Under moderate subfreezing conditions, antifreeze is required in the exterior fresh water tank, toilet cassette and gray waste water 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 190 Popular 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 fresh water 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 190 Popular 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 tank and toilet cassette at a convenient facility. See the HOWTO: Waste Water Dumping section 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 fresh water 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 two important switches on your monitor panel to keep from draining your batteries:
 - The battery disconnect switch.
 - The inverter switch.
- If you turn everything off and you have solar panels, the panels will keep your coach batteries topped up while your Roadtrek is parked. 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

Cabinet latches in your Roadtrek are different from the ones in your home and more like those on boats - they have to stay closed when the vehicle is in motion. The cabinet doors are secured with latches located along the edge of the cabinet door. (Picture 14.1) Run your fingers along the edge and you will find the latch. Press the latch in and open the door.

The cabinet behind the driver's seat uses a pushbutton latch. Press the pushbutton in to latch the door securely; press again to release the latch so that you can pull the door open. (Pictures 14.2, 14.3)

To close a cabinet door, shut it gently until you hear the latch click shut. You may need to press on the latch to get it to latch closed.



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.



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, Erwin Hymer Group NA recommends that you are aware of the objects that you store in overhead cabinets.



Picture 14.1

Hidden latch along edge of cabinet door



Picture 14.2

Pushbutton latch on cabinet door



Picture 14.3

Locked pushbutton latch on cabinet door

Galley Cabinets

Beneath the galley countertop there is a drawer on the left over the refrigerator to hold silverware and small cooking utensils. The panel to the right in front of the sink is fixed, and is not a drawer. The cabinet below this panel has three shelves to hold larger cooking utensils and food. The tall narrow door on the far right conceals the front table. (Picture 15.1)

Lights

The battery disconnect switch must be on for any of the lights to work. The fluorescent lights turn on and off with the integrated switch. (Picture 15.3)

The oval ceiling lights are all individually controlled, and are tap lights - to turn them off or on, press on the lens area. (Picture 15.2)



Picture 15.1



Picture 15.2
LED tap light



Picture 15.3
Fluorescent light

Tables

There are front and rear tables to use either the front or rear lounge areas for dining, playing cards, or computer use. (Pictures 16.1, 16.2)

The front table top is stored behind the driver's seat. The rear tabletop is stored under the driver's side rear bench seat, and both table legs are stored in the wardrobe to the right of the bathroom.



Picture 16.1

Rear dining area



Picture 16.2

Front lounge area

There are front and rear tables to use either the front or rear lounge areas for dining, playing cards or computer use.

Front Table

The front table top is stored in the narrow vertical galley cabinet. (Picture 17.2) It does not have a table leg. The table slides out from the tall, narrow opening to the right of and below the sink. Open the front cover and pull the table out completely. Unfold the table leaf until the spring-loaded portion of the hinge pops into position, locking the leaf in the open position. (Picture 17.3) Extend the table support from the front of the cabinet directly behind the driver's seat, and drop the extended table down onto this support. (Picture 17.1)

To stow the front table, lift the top and fold the locking hinge component back against the table top, which will allow the leaf to fold against the main part of the table top. Move the table support back behind the driver's seat, pivot the table top down, and slide it back into its storage compartment.



Picture 17.1

Front table in place



Picture 17.2

Front table in cabinet



Picture 17.3

Front table drop leaf snap hinge

Rear Table

The rear tabletop is stored under the driver's side rear bench seat, (Picture 18.3) and its leg is stored within the wardrobe.

The dining table for the rear seating area is located under the driver's side rear bench cushion, directly across from the TV. Lift the cushion and remove the table top. The table leg is located in the cabinet behind the driver's seat. Unscrew the T-nut on the end of the leg fully. Insert the T-nut into the slot in the table leg base. Rotate the leg clockwise until you feel it tighten. (Pictures 18.1, 18.2) Pull on it to check that it is secured. If not, extend the T-nut fully by unscrewing it, and try again. Place table top on the table leg so that the top of the leg fits into the socket underneath the table.

The table top is stored under the driver's side rear bench cushion.

The table socket is off center. Rotate the table top to suit your needs. When storing the table top, rotate it so that the socket will go down into the hole in the side bench base.



Picture 18.1

Rear table T-Nut



Picture 18.2

Rear table leg in place



Picture 18.3

Rear tabletop storage

Front Captain's Seats

 **The seats must be set as far forward as possible prior to swiveling, otherwise the plastic trim will be damaged.**

The two captain's seats in the front of your 190P are adjustable fore and aft by pulling up on the bar under the front of the seat, and will swivel when the swivel lever - the black metal tab on the side of the chair base - is pressed 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 lever is raised again.

To create a front lounge area by rotating the two front seats to face the back, 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.

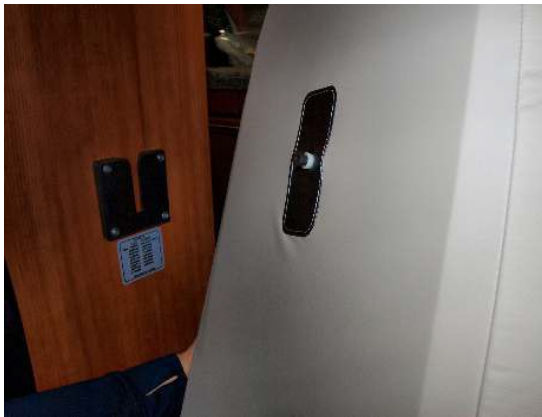


Picture 19.1

Front seat swivel tab

Second Row Seat

If you have the standard bathroom, you have a third seat just inside the side door. The second row seat has an adjustment to the seat back and bottom cushion to change the seat back angle for more comfortable seating. The back lifts up and is held by a pin in a slot (see photo below). The seat bottom cushion can be lifted and moved forward approximately three inches (8 cm) to its alternate position because of the way it is mounted to the seat base. Moving the bottom cushion forward and flipping the small panel at the base of the seat back out will configure the second row seat in a more reclined position. (Pictures 20.1, 20.2)



Picture 20.1

Second row seat back pin and slot



Picture 20.2

Back seat configured in reclined position

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 before the fan will operate. Raise the cover, then use the remote control to the desired speed and temperature.

There is also a fuse in the body of the fan, in addition to the fuse in the distribution panel. See the Distribution Panel section for details. 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 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.



When using the aisle shower, leave the fan off, or the shower curtain will be sucked in and stick to you.



Picture 21.1

Window Treatments

The skylight windows in the 190 can be covered using the covers stored in the side door. Place the cover against the glass and use the locking tabs to hold it in place. (Pictures 22.1, 22.3)

The window curtains for the regular windows slide on tracks. It's best to use two hands, one at each track, to pull curtains closed and open. (Picture 22.2)

The curtains have snaps and clips at the end of the track to hold them in place. (Picture 22.4)

Window Treatments (Continued)



Picture 22.1
Skylight covers



Picture 22.2
Curtains



Picture 22.3
Skylight cover storage



Picture 22.4
Curtain rails and clips

Front Window Treatments



Never attempt to attach any sort of fastener or track above the front doors. The airbag could deploy causing severe injury. Worse, once installed, the airbag could then launch your fasteners directly at your head at 200MPH.



Picture 23.1

Chevy side curtain airbag



Picture 23.2

Use the attached pull tab to pull each half of the screen to the center. Use the attached hook and loop fastening to join the two sides of the screen together at the center



Picture 23.3

Once in place, attach the leading edge of the side curtain to the A pillar using the hook and loop fasteners



Picture 23.4

To attach the side curtains, open the window slightly and put the top curtain pocket over the glass. Close window to hold curtain in place

Sleeping Facilities

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

Power Sofa



Picture 24.1

Sofa switch



Picture 24.2

Power sofa



Picture 24.3

Twin beds



Picture 24.4

King bed

Twin Beds

You create two twin beds by lowering the sofa. (Picture 24.3) The sofa makes a continuous sleeping surface with the two bench seats, leaving the center aisle to make it easy to get in and out of bed.

King Bed

To make a full size bed, slide the panel under the passenger side bench seat out into the open space between the two bench seats, and secure it into the notches on the two inner surfaces of the bench seat bases. (Picture 25.1) Move the bottom cushion for the bench seats together over this panel, and place the smaller seat back cushions for the bench seats between these and the outer walls of the Roadtrek. (Picture 24.4)

Optional Folding Mattress for Front Seat Bed

To set up a front bed with the optional folding mattress, turn the front passenger side captain's seat so that it is facing outward toward the front door, remove the second row seat back by lifting it up, and place the optional folding mattress on the front and second row seat bottom cushions. With the front seat facing the door, slide it as far back (toward the center aisle) as possible to accommodate the folding mattress. (Picture 25.2)

This configuration is only possible with the standard bathroom - enclosed bathroom models do not have the second row seat.



Picture 25.1

Panel to support cushions for king bed



Picture 25.2

Front captain's seat in position for folding mattress



Picture 25.3

Passenger side folding mattress in position

Bathroom Facilities

Standard Facilities

Aisle Shower

To set up the stand-up aisle shower:

- Remove the lowered floor carpet to expose the floor drain.
- Remove floor drain cover from floor and loosen the drain plug/strainer.
- For privacy extend the bathroom door and close the galley, side door, and windshield curtains. (Picture 26.1)
- Release the Velcro retention straps from the shower curtain and move the hand held shower from its storage position to the shower position.
- Draw the shower curtain until you are surrounded.
- Using the Velcro connectors, secure the edges of the curtain to the inside edges of the door.
- When adjusting the water temperature, be sure to allow enough time for the temperature adjusted water to exit the shower head before making further adjustments.
- Roof vent or the bathroom vent may be used on low speed to remove steam and moisture. To put away the stand-up shower:
- Rinse the shower curtain after use and before you leave the shower. (Picture 27.3)
- If possible allow the curtain to air dry completely. Run the power roof vent or the power bathroom vent for faster drying.
- Replace drain plug and floor drain cover when you are finished.

To prevent the grey water tank contents from spilling onto the floor while driving, keep the drain plug secured when not in use.

Aisle Shower (Continued)



Picture 27.1

Privacy door extended



Picture 27.2

Aisle toilet



Picture 27.3

Aisle shower

Toilet

The aisle toilet (Picture 27.2) is configured so that the doors of the closet and the toilet can create privacy screens. Open the doors, unlatch the inner partition, and secure the door against the other side of the aisle.

The toilet is a marine toilet that has a single flush pedal. When done using it, step on the pedal to flush.

Optional Enclosed Bath

Door

The bathroom doors are secured by a pin which is attached to the right door. (Picture 28.2) 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. This will prevent the doors from swinging open when the vehicle is in motion.

Toilet

The enclosed bathroom in your 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 28.1)



Picture 28.1



Picture 28.2

Shower

To take a shower, unscrew the drain stopper in the center of the bathroom floor. (Picture 30.4) Release the hook and loop fastener straps retaining the shower curtain, and slide the shower curtain along its track to enclose the shower space. Attach the shower hose to the water outlet just behind the bathroom sink faucet handles, and pull up on the knob on the faucet spout. (Picture 30.1) Adjust the water to the correct temperature. There is a water cutoff on the shower head to help you conserve water while showering.

You can shower in the enclosed bathroom by pulling the shower curtain across the shower curtain track near the bathroom doors, or you can shower in the aisle by extending the shower curtain around the longer loop of shower curtain track which goes around the ventilation fan in the roof, and opening the drain in the aisle by removing the flat cover plate and unscrewing the drain stopper. (Pictures 30.2, 30.3, 30.5)

When finished, either air or towel 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.

Shower (Continued)



Picture 30.1

Shower connection and knob



Picture 30.2

Shower curtain and light



Picture 30.3

Shower curtain deployed for enclosed bathroom shower



Picture 30.4

Aisle shower drain



Picture 30.5

Shower curtain deployed for aisle shower

Exhaust Fan

The 190 has an exhaust fan in the bathroom. Push up on the white bar to open the vent, and, and turn on the fan by pushing the power button. Pull the white bar back down to close it. (Picture 31.1) Do not drive with the vent open.

Outside Shower

The outside shower is located on the driver's side, towards the rear wheel. (Picture 31.2) See Outside your Roadtrek for more details on location.



Picture 31.1

Exhaust fan



Picture 31.2

Outside shower connection

Appliances

TV and Home Theatre System

The TV and DVD player are located in the rear on the passenger side. (Pictures 32.1, 32.2)

Both the television and the DVD player use 120 volt current, so the inverter, generator, or shore power must be used. They are supplied with remote controls.

See the HOWTO: Cable and TV Reception for antenna connections and configuration details.



Picture 32.1

TV bracket release



Picture 32.2

DVD player

Antenna and Cable Connections

There are two antenna connections in the cabinet above the DVD player. One is labeled for the antenna, the other for cable TV. Connect the cable to the appropriate jack. (Picture 33.2)



Picture 33.1

Rear speaker control switch



Picture 33.2

TV antenna and cable connections

Controlling the Rear Speakers

The surround sound system offered in your Roadtrek allows you to control the rear speaker sound in your vehicle. Locate the speaker switch which can be found in the cabinet above the home theater system. (Picture 33.1)

- Surround Setting: Allows back speakers to function as part of the TV/home theater system
- Off Setting: Turns the rear speakers off
- Automotive Setting: Connects the rear speakers to the front dash radio



If you are experiencing problems with your TV reception while using the over-the-air antenna, check the connection to the antenna system booster located in the cabinet above the home theatre system is plugged in.



If power is getting to the antenna, an indicator light both on the antenna itself and on the connection located in the cabinet will be illuminated.

Hot Water

Standard Propane Water Heater

The 190 Popular is equipped with a 6 gallon water heater. The heater requires both 12VDC and propane for proper operation. See Monitor Panel for location and operation of the switch for the heater.

Refer to the Owner's Manual for maintenance.

Anniversary Edition Hydronic Water Heater

See Hydronic System

Refrigerator

The refrigerator is a 3-way electric and propane model which that runs on DC (battery) power, AC (shore / generator) power, or propane. Propane operation allows you to operate your refrigerator for weeks on one tank of propane while boondocking, but cannot be used while the vehicle is in motion. While driving, operate the refrigerator on DC 12-volt power - the vehicle alternator generates more than enough power to run the refrigerator and keep your batteries charged while driving. You can use AC when plugged into shore power when you don't want to use propane unnecessarily.



Never run your refrigerator on propane while at a gas station. Shut the refrigerator off while at a gas station, and turn it back on after you pull away from the pumps. To ensure that neither your hot water heater nor your refrigerator generate dangerous open flames while handling fuel, always turn the battery disconnect switch OFF when refueling.

Refer to the refrigerator owner's manual for details of operation.

Oven

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

You must 120V AC power available to use the microwave. See Electrical System for details.

Stove

The two-burner propane stovetop needs fresh air for its safe operation. Make sure to open a window and open and/or turn on the overhead fan for proper ventilation. (Picture 35.1) The burner igniters require 12 volt power to work, so turn on the battery disconnect switch to use them.

Refer to the stovetop owner's manual for details of operation.



Picture 35.1

Outside Your Roadtrek

Awning



Picture 36.1

Stowed awning



Picture 36.2

Awning power switch



Picture 36.3

Awning attachment

Your Roadtrek has an electric roll up awning. The control for the awning is located above the passenger door on the inside. (Pictures 36.1, 36.2)

To open the awning push the rocker switch and the awning will extend. Lower the supports on each side and secure them to the two attachment points on the side of the Roadtrek. (Picture 36.3) 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. Electrical awnings have the switch inside the passenger door above the side window.

Awnings are susceptible to damage from wind, and 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.

Exterior Access Doors

Battery Access Door

The door just in front of the rear tire on the passenger side is for the batteries. These are maintenance free AGM batteries. There is no user maintenance possible on these batteries except keeping them charged - you never have to add water to them.

Driver's Side Doors

On the driver's side, there are 3 doors that house items that you will use.

The small access door directly behind the driver's door has the dump valves for the gray and black tanks. (Pictures 37.1, 37.2)

The center door has a storage area for the waste water discharge hose and power cord. The smaller door just in front of the rear tire has the outside shower. (Pictures 38.1, 38.2)

The rear access door has the shower and cable TV connection.

Directly above the center access door and below the galley window you will see two vent hatches. The rectangular one is for the refrigerator and the square one is for the water heater. The water heater will vent hot gasses when the water heater is running. The small chrome plated vent near the driver's door is for the propane furnace intake and exhaust. Do not block any of these vents, or dangerous fumes may enter the interior of the Roadtrek.



Since all these sources of open flame are near the fuel fill door on the driver's side, please ensure that all propane appliances are off when refueling your Roadtrek. In addition to making sure your main propane tank valve is shut whenever the vehicle is stored or in motion, turn the battery disconnect switch off when refueling - this will disable the water heater igniter, the refrigerator igniter, and the furnace.



Picture 37.1

Driver's side access door



Picture 37.2

Driver's side front access door showing tank dump valves

Driver's Side Doors (Continued)



Picture 38.1

Driver's side center access door houses power cord and waste discharge hose



Picture 38.2

Driver's side rear access door, showing outside shower connection

Propane Access Panel

The propane access cover is located in the rear, at the center of the bumper. Flip the side latches to expose the tank valve and filler. (Picture 29.1)



Picture 39.1

Propane access cover

Optional Rear Door Screen

Some Roadtrek's have the optional rear screen which allows you to open the rear doors and get fresh air and a better view, without bugs coming in or pets going out. If you ordered this option, look for this screen in the white box that comes with your new Roadtrek. The screen attaches to the rear door frame and cargo area floor with a zipper and hook-and-loop fasteners. (Pictures 40.1, 40.2)



Picture 40.1

Surround with zipper



Picture 40.2

Hook and loop fastener for bottom edge of screen



Picture 40.3

Start the zipper on the left side



Picture 40.4

Installed screen



Picture 40.5

You can access the under bed storage area without removing the screen

Optional Rear Door Screen (Continued)

Open the screen and locate the edge with hook and loop material along it. This edge is the bottom, so use the hook-and-loop strips on the screen to attach it across the bottom of the door opening.

Start the zipper at each bottom corner by pushing the bottom stop (the metal end) of the zipper into the two back-to-back zipper sliders, and zipping the top slider upward. At the top, close the flap with the hook-and-loop fastener strip where the zippers meet. (Pictures 40.3, 40.4)

Use the double slider to unzip the bottom of the screen to allow access to the under-bed storage area in the back of the Roadtrek without disturbing the top section. (Picture 40.5)

To remove and stow the screen, unzip it from the top down. Unzipping it from the bottom will not allow you to remove it from the doorframe surround.

Optional Side Door Screen

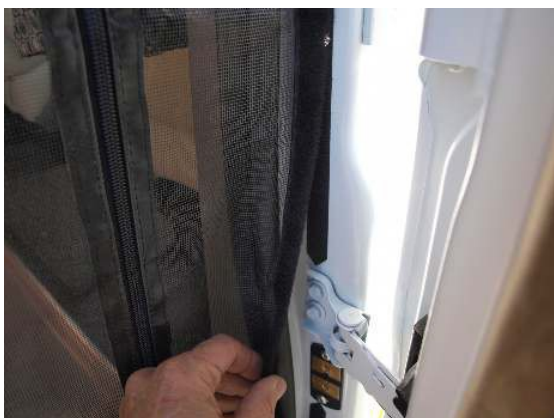
In addition to the rear door screen, there is also an optional side door screen which will allow you to keep the side door open for ventilation without admitting insects. (Picture 42.3) There is a zipper in the screen so you can enter and exit without removing the screen. (Picture 42.2)

Locate the screen in the white box that comes with your new Roadtrek, and shake it out. To orient the screen correctly, look for the zipper in the screen - hold the screen so that the zipper goes across near the top and then down the right side. Start the hook and loop fastener at a convenient corner and work your way around the perimeter until the screen is secured. (Picture 42.1)

Optional Side Door Screen (Continued)

To enter or exit the vehicle through the side door while the screen is installed, unzip the opening and step through. There is a zipper tab on either side so you can fasten it behind you once through.

While sturdy enough to keep insects out, neither this screen nor the rear screen are 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.



Picture 42.1

Hook and loop fastener for the side door screen



Picture 42.2

Access through the screen



Picture 42.3

Installed screen

Utilities

Just like your house, your 190 Popular has fresh water, electricity, waste water disposal, heating, and cooling systems. In the 190 Popular, these systems are self-contained and travel with you.

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

Fresh Water

Standard Edition

Fresh water is contained in two tanks, called the exterior and interior tanks. The exterior tank is underneath the driver's seat outside the passenger compartment and thus exposed to the elements, so it is susceptible to freezing. The interior tank is inside the Roadtrek underneath the rear lounge area, and will allow you to carry and use water in mildly sub-freezing conditions.



Picture 43.1

Tank isolator valve shown in open position (black plastic handle horizontal pointed along the water line)



Picture 43.2

City water connection for hooking up to pressurized water

The two tanks are connected by the tank isolator valve located next to the water heater. (Picture 43.1) There are two fill locations.

Fresh Water (Continued)

- The fill for the exterior tank is in the door post of the front driver door, near the door handle. Look for the orange plug in the fill port. (Picture 45.1) Running water into the fill port will fill the exterior tank only - approximately 17 gallons.
- The tank selector valve determines which tank the water pump draws water from. It is a long handle with a plastic cover, usually red or yellow in color, located next to the water heater, behind a door down at floor level to the left of the refrigerator. (Pictures 45.3, 45.4) See photos below for how to position the valve to draw from the exterior or interior tank. In summer mode, this handle is in the exterior tank position, and the tank isolator valve is open. In summer mode, you don't have to worry about which tank has water - with the tank isolator valve open, water from the interior tank replenishes water from the exterior tank as it is used.
- To fill the interior tank only, close the tank isolator valve and set the tank selector valve to the interior position. The interior fill is located in the rear door on the right side. (Picture 45.2) With the tank isolator valve closed, running water into this fill port will fill the interior tank only - approximately 10 gallons.
- To fill both interior and exterior tanks, open the tank connection valve and set the tank selector valve to the exterior position. Fill exterior tank first, then interior tank.

Roadtrek recommends that you use a dedicated single purpose potable-water hose. These are usually white in color. Buy a new one and use it only for filling your tanks and connecting to city water. View any hose lying around a campground with extreme skepticism, especially if there's a wastewater dump nearby. Large RVs use hoses to flush their wastewater system. Always flush faucet and hose thoroughly before use.

Fresh Water (Continued)



Picture 45.1

Exterior tank fill location (driver's side door pillar)



Picture 45.2

Interior tank fill location (rear door, right side)



Picture 45.3

Tank selector valve in exterior tank position



Picture 45.4

Tank selector in interior tank position

City Water

Your Roadtrek can operate in either fully self-contained mode, or can be connected to a water supply such as a campsite's faucet.

The city water connection is in the driver's side rearmost compartment. Unscrew the white plastic protective cap and connect your clean hose to the water faucet and a water pressure regulator attached to this connection point. Turn the faucet on and check for leaks, tightening the connections as necessary.

For more details, please refer to the HOWTO: Potable Water Use section.

Summer and Winter modes

The water system in your Roadtrek has an exterior and interior water tank. In summer mode (above freezing) both tanks can be used. In mildly sub-freezing conditions, the exterior tank must be drained and the system set to winter mode. See the HOWTO: Summer and Winter Mode for a concise description of how to operate your system in either mode. In temperatures lower than mildly sub-freezing, or any freezing temperatures when the Roadtrek is not constantly heated, you must winterize.

Summer Use

In summer mode, both the interior and exterior tank are used to store fresh water. The tank isolator valve in the water line connecting the two tanks is open, and water is drawn from the exterior tank by setting the tank selector valve to the exterior tank position. As water is used from this exterior tank, the interior tank, which is positioned higher in the vehicle, drains into the exterior tank by gravity, thus providing you with full use of the combined capacity of the two tanks. The valves to the outside shower are open, allowing use of that facility as well.

Winter Use

In winter mode, only the interior tank is used to store fresh water. The tank isolator valve in the water line connecting the two tanks is closed, and the exterior tank is drained. The interior water tank has a capacity of approximately ten gallons, and this water is protected in moderate sub-freezing conditions by the tank's position inside the heated vehicle. The valves in the water lines to the outside shower are closed, so it cannot be used, and neither can the city water connection.

Again, please refer to the HOWTO: Summer and Winter Mode section for instructions on how to configure your water system in these modes.

Anniversary Edition Fresh Water System

See Hydronic System.

Water Pump

To use the water in the tank, you need to turn on the water pump. See Monitor Panel for switch location.

Waste Water

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 holds toilet waste. Please refer to the HOWTO: Waste Water Dumping section for information on which materials you can and cannot flush down the toilet.

Indicators

The gray and black water tank level indicators on the control panel will give you an approximate indicator of your tank levels. When the gray water tank is full to capacity, water will no longer drain down the shower and sink drains, and you need to dump the tanks 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 also needs to be emptied before further use.

See Monitor Panel for more information.



Close both the black and grey water gate valves before using the waste water 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.

Propane System

Your vehicle is equipped with a propane system which, when properly handled and maintained, will provide trouble and worry free operation of your propane fueled appliances.

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 ahead and take an alternate route if passing through areas where vehicles with propane are prohibited.

The propane tank is located across the rear of the vehicle. To access the tank for filling and to turn the manual tank shutoff valve off and on, turn the two retaining tabs on either side of the access cover, located in the center of the rear bumper, and remove the access cover. (Pictures 48.1, 48.2)



Picture 48.1

Propane tank main shutoff



Picture 48.2

Propane tank cover



You must close the tank shutoff valve when the vehicle is not in daily use. Further, you must close the shutoff valve when the vehicle is traveling. Never operate any propane appliance, including the refrigerator, while the vehicle is in motion.

In general, the propane system is set up at the factory and requires little to no adjustments or regular maintenance on your part.

The propane system has a high-pressure auxiliary BBQ takeoff. Locate the hose behind the access panel. The hose has a yellow dust-cap, and an integral cutoff valve. This provides 15PSI regulated propane to appliances that have their own regulators or are built to use high-pressure propane. (Pictures 49.1, 49.2)

Propane System (Continued)



Picture 49.1

High pressure BBQ pigtail, show with yellow dust-cap and valve in closed position



Picture 49.2

Propane pigtail with dust-cap removed and valve in open position



Picture 49.3

Propane fill valve



Picture 49.4

Propane bleed

Propane System (Continued)

Roadtrek recommends that you take your van to a qualified LPG retailer to fill the tank. While filling, turn off all propane appliances, then turn off the tank shutoff valve.

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

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.

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 tanks shall 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.



To reduce the danger of fire or explosion do not store gasoline or other flammable liquids inside your vehicle.



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



The auxiliary BBQ outlet is regulated to 15 P.S.I. If you are using an external grill with this hookup, ensure that the appliance is rated for that pressure or has its own regulator for lower pressure.

Heating and Cooling

Thermostat

The thermostat controls the air conditioning unit. Set the thermostat on "cool" and set the desired temperature. (Picture 51.1)

Some models also have a small heat strip in the air conditioning which will blow warm air, but this produces heat directly from electricity and is not recommended for heating the cabin for extended periods of time unless you are attached to shore power or running the engine. For all other circumstances, use the regular heating system to heat the cabin. If your unit has the heat strip option, you can operate it by turning the thermostat to "furnace" and setting the desired temperature.

The third setting, "fan", recirculates cabin air using the fan inside the air conditioning unit. (Picture 51.2)



Picture 51.1

Heat Pump

The heat pump can provide both heating and cooling for your Roadtrek using electric shore power or generator power. The heat pump gives you the advantage of heating your unit with electricity if you would prefer to use electricity rather than the propane the furnace uses.

The heat pump can be operated normally when you are plugged in to shore power.

If you are running the heat pump using the generator, please follow the following steps.

- Set the battery disconnect switch on the monitor panel to the "ON" position.
- Start the generator and run for several minutes until warm.
- Set thermostat setting above ambient temperature.
- Turn thermostat control to the "low cool" position.



Picture 51.2

Heat Pump (Continued)

- Turn fan to the ON position.
- Adjust the thermostat on the unit for the desired temperature. The compressor should start automatically.
- Your vehicle should be parked as close to level as possible to maximize the air conditioner's efficiency. If you are parked very much off-level, it is possible for condensate to leak into the living space. If this happens park in a more level location.

You can use the heat pump to warm the motorhome on cool nights. For colder temperatures, below 40°F (4°C), you should use the propane furnace.

Furnace

The furnace is controlled by the combination thermostat located above the rear bed. (Picture 52.1) The furnace requires propane and 12 volt power. The furnace uses much less electricity compared to the heat pump, and can be used without shore power or generator use.

The fan on the furnace is thermostatically controlled, and will continue to run for a minute or so after you turn it off until the firebox cools down.

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 52.1

Hydronic System

The Alde hydronic system provides hot water, coach heating, and engine preheating for your Roadtrek. Power is supplied by either shore power, power generated by the engine generator, heat from the engine, or propane. The Alde control unit is located on the driver's side of the coach, behind the cabinet to the left of the galley, facing the rear lounge/bed area. (Picture 53.2)



Picture 53.1

Alde control unit



Picture 53.2

Vent for Alde unit on driver's side exterior

Press the ON button on the bottom left corner to access the menu. Follow the instructions for operation in your Alde manual. The Alde system will protect itself from freezing by dumping the water in its tank onto the ground beneath your vehicle if the temperature approaches freezing. This protects the Alde plumbing only; you still need to winterize the remaining water system in your Roadtrek to prevent damage to the water lines and other components. You can also drain the system manually by turning the valve to the tripped position. (Pictures 54.1, 54.2)

After the Alde system has dumped, you need to reset the frost control valve in the compartment under the driver's side bench before using the water system again. Open the compartment, turn the valve 90 degrees from its tripped position pointing toward the valve in the blue water line to a position parallel to the blue line, and press the blue button at the base of the frost control valve on the side opposite the blue line. The Alde unit will now function normally, provided that the air temperature around the valve is high enough.

Hydronic System (Continued)



Picture 54.1

Alde frost control valve in operating position



Picture 54.2

Resetting the tripped valve

Electric System

Coach Batteries

The coach batteries in your Roadtrek are sealed AGM (absorbed glass mat) batteries. Do not attempt to open them. There is no user maintenance possible on these batteries except keeping them charge.

Battery Disconnect Switch

The battery disconnect switch provides power to all 12 volt appliances, such as the water pump, the refrigerator, and so forth. Even the propane cooktop uses 12 volt power to run the burner igniters. This switch should be off when you are not using your Roadtrek, and on whenever you are driving or camping. The "Battery On" light next to it will indicate the position of the switch. (Picture 55.1)

Charging your batteries

Inverter-Charger

Your Roadtrek is equipped with an inverter-charger which converts 120 volt AC (household current) to 12 volts DC when you are connected to shore power or running the optional gasoline generator. This 120 volt power is used to power your 12VDC appliances as well as charge your batteries. Whenever you are receiving either source of 120 volt power, you are charging your batteries.



Picture 55.1

Battery disconnect switch

Standard Alternator Charger and Battery Isolator

While driving, your Roadtrek will also charge the coach batteries from the vehicle alternator through a separator. The separator allows extra vehicle alternator-produced electricity to charge your coach batteries in addition to keeping your engine (chassis) battery charged. When the vehicle engine is not running, it breaks the electrical connection between your coach batteries and your engine battery, so your engine battery remains charged to start your engine even though you are using coach battery power while camped. This is all automatic - there are no user adjustments possible to the separator.

Optional Engine Generator

Your vehicle may be equipped with an engine generator. The engine generator is mounted on the vehicle engine and is operated by idling the vehicle engine. (Picture 55.1) If your coach batteries are low, start the vehicle engine and let it idle until the batteries are sufficiently charged. Usually 30 minutes of idling are enough to restore moderately depleted coach batteries to a useful level of charge.

As with a conventional generator, always close the rear windows of the vehicle and turn off the roof ventilation fan when the engine generator is charging the batteries to avoid exhaust entering the vehicle's interior.

The engine generator is charging the coach batteries whenever the vehicle's engine is in operation, which means you are also charging them as you drive. You will arrive at your camping destination with fully charged coach batteries.

There is no required maintenance for the engine generator. Note, however, that your vehicle's serpentine belt (the belt which drives the vehicle's alternator, water pump, power steering, etc.) will be different than the one for similar vehicles without the engine generator, so carrying a spare belt may be prudent in case you have a serpentine belt failure while traveling.



Picture 55.1

Engine generator

Optional Solar Panels



Picture 57.1

Solar charge controller



Picture 57.2

Generator switch and hour meter

The optional solar panels will charge your batteries when sufficient sunlight is available. The solar charge controller 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. The charge controller usually displays either system voltage or amperes generated by the panels. (Picture 57.1)

On Board 120 Volt AC Power



Picture 58.1

Inverter switch with standard 750 watt inverter



Picture 58.2

3000 watt inverter switch

Standard 750 Watt Inverter

The standard configuration includes a 750 watt inverter. (Picture 58.1) This inverter provides 120 volt AC (household current) for a few of the outlets in your Roadtrek; primarily the ones running the TV and the DVD player. It is not powerful enough to operate the air conditioner or the microwave.

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.

Optional 3000 Watt Inverter

If your vehicle has the engine generator option, you also have a 3000 watt inverter. This is sufficient to run all your appliances. However, running large, high-energy appliances such as microwave ovens, air conditioning, toasters, etc. drains your batteries very quickly. If you operate these appliances, do so for a limited time unless you also have additional sources of power.

Instead of the regular inverter switch on the monitor panel, your inverter switch will be on its own smaller panel to the left of the main monitor panel. (Picture 58.2) The switch has three positions: off in the middle position, power save auto in the top position, and power save off in the bottom position.

Optional 3000 Watt Inverter (Continued)

The powersave auto setting is not recommended by Roadtrek. Newer controllers no longer have this setting. Use either OFF or powersave off settings and turn your inverter on and off as needed.

Pressing the bottom of the switch selects power save off. When this setting is selected, the inverter will be on continuously.

There is a shore power indicator light to the right of the switch to tell you the system is receiving shore power. There is also a battery charging indicator light to tell you when the batteries are being charged by shore power.

Your refrigerator will run on either 12 volt battery power or 120 volt inverter power.

Optional Gasoline Generator

The gasoline powered generator provides up to 2800 watts of power, enough to run all your appliances. Please refer to the Onan Generator manual for operation and maintenance.

Always close the rear windows of the vehicle and turn off the roof ventilation fan to avoid exhaust entering the vehicle's interior.

There is an hour meter to the right of the switch which displays hours of generator use. Maintenance on the generator is scheduled according to hours of use. There is a break-in oil change scheduled fairly early in your generator's use, so check your Onan manual for particulars.



Please be sure to operate the generator at half load or more (at least 1200 watts, either the heat pump or an electric heater) for one hour every month. Failure to do this can lead to internal corrosion, gumming up of the float bowl, and eventual failure.

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. See HOWTO: Shore Power for a concise guide on how to connect and disconnect to shore power.

Outlets

The outlets are operated from the inverter, generator, or shore power. Further, the outlets are protected by GFCI. Only some of the outlets are powered by the standard 750 watt inverter.

The electrical outlets above the galley and under the passenger side rear captain's seat have ground fault circuitry (GFCI) - the button in the middle of the outlet pops out when they sense an anomaly or sometimes when the circuit undergoes transitional conditions. (Picture 60.1) If you are not getting power from an outlet, check and reset this button if needed. The outlet under the passenger side chair powers the TV and DVD player, so check it if your TV is not receiving power.



Picture 60.1

GFCI outlet under rear passenger side seat

Monitor Panel

The monitor panel is located inside the side door, above the doorframe to the left of the bathroom. (Picture 61.1)

Power Sources

The monitor panel controls 2 separate power sources; the 12 volt DC power 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 to the lower left.

On the bottom left is the battery disconnect switch, which supplies 12 volt battery power to the 12 volt light and other cabin appliances. 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 61.1

Monitor panel with standard 750 watt inverter and optional gasoline generator

12 Volt DC Power (Continued)

The battery disconnect switch has a blue indicator light to the right of it to show you when the battery power is on. (Picture 62.1)



Picture 62.1

Battery disconnect



Picture 62.2

Inverter switch for standard 750 watt inverter



Picture 62.3

Inverter switch for optional 3000 watt inverter

Inverter

The inverter provides 120 volt AC (household current) to the 120 volt appliances and wall outlets. If you have the optional engine generator and 2500 watt inverter, your inverter switch is back by the thermostat on the passenger side of the rear lounge area. (Pictures 62.2, 62.3) See the Optional Engine Generator and 2500 Watt Inverter portion of the Electrical System section for further information.

Shore Power

Shore power is the name for power supplied by a utility company that you plug into to provide power to your Roadtrek. See HOWTO: Shore Power for a concise guide to plugging in and unplugging from shore power.

Other Switches

Patio Light

On the monitor panel, the top left switch is the patio lights switch. (Picture 63.1) Press the top of the button to turn the lights on, and the bottom to turn them off. These are LED lights and use very little power.



Picture 63.1

Patio light switch



Picture 63.2

Water pump switch

Water Pump Switch

The centered switch to the right of the leftmost four switches is the water pump switch. (Picture 63.2) It should be on only when you have water in the fresh water tanks and wish to use the sinks, showers, or toilet. The pump should not be run without water. As with the patio light switch, pressing the top of the button turns the pump on, and pressing the bottom turns it off.

Water Heater Switch

The water heater switch is to the right of the water pump switch. (Picture 64.2) As with all the other switches on the monitor panel, the battery disconnect switch must be on for the water heater to work. Even though the water heater uses propane to heat the water, all the igniters and controls are electrical.



Picture 64.1

Tank status lights



Picture 64.2

Water heater switch

Tank and charge indicators

To the right of the monitor panel are the indicator lights for the battery charge level, the fresh water tank levels for each tank, and the black and gray water tank levels. (Picture 64.1) The battery disconnect switch has to be on for this display to work. Press the button for each to see the display. These will give you an approximate reading, to the nearest third, of how much is in each tank. The four indicator lights for the battery are low, fair, good, and charging.

Optional Generator Switch and Hour Meter

If you have the optional 2800 watt gasoline generator, the switch is to the right of the tank and charge indicators. Press the bottom of the switch for about five seconds to prime the generator, then the top to start. Press the bottom again to turn it off.

The hour meter to the right of the switch keeps track of how many hours your generator has been running. (Picture 65.1) There is a break-in oil change after 20 to 50 hours of operation, and other required maintenance at other intervals later on - see the generator manual for details.



Picture 65.1

Generator switch and hour meter

Distribution Panel

The distribution panel is located over the driver's head on the overhead panel. The 120 volt AC breakers and 12 volt DC fuses are each behind a black plastic panel. (Pictures 66.1, 66.2)



Picture 66.1

Distribution panel



Picture 66.2

120 volt AC breakers and 12 volt DC fuses

AC Breaker Panel

The 120 volt breakers are located on the driver's side on the flat wood panel above the driver's seat, behind a black plastic panel. Flip the cover down and note the sticker under the cover with the identifying information on each breaker. When storing the Roadtrek for the winter, turn off the battery disconnect switch, your inverter, and all circuit breakers in this panel.

12 Volt Fuse Panel

The 12 volt fuses are located to the right of the 120 volt AC breakers. The label on the cover has identifying information for each fuse. These are standard automotive fuses. Always replace the fuses with the appropriate amperage; never replace a blown fuse with one of a larger rating.

Alarms and Warnings

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 directly behind the rear bathroom door. (Picture 67.1) Be sure the detector is operating while using your vehicle, especially when you are asleep inside it. When storing things on the floor, do not block air circulation to the propane leak detector. You should be able to see it at all times from the front of the vehicle.

The detector runs on 12 volt power, and is operational whenever the battery disconnect switch is on. There is no separate switch for the detector. There is an indicator light on the detector so that you can tell whether it's working or not. For this reason, whenever the vehicle is occupied the battery disconnect switch should be on 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 sometimes placed on the detector to see the replacement date.



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

Smoke Detector

The smoke alarm is located to the right of the Monitor Panel. (Picture 67.2) It requires a commonly available 9 volt battery and periodic replacement of both the battery and the unit as a whole. Please refer to the Owner's Manual for the unit in your vehicle.



Picture 67.1



Picture 67.2

Propane and Carbon Monoxide alarm

Fire Extinguisher

Your Roadtrek comes equipped with a dry chemical fire extinguisher suitable for all fires. (Picture 68.1) 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 68.1

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 Chevrolet Express manual recommends checking tire pressures regularly - at least every other week, and definitely before a long trip. Tire rotation intervals depend on wear and other factors, but tires should be rotated at least every maintenance interval - every 40,000 km/24,000 miles. Follow the tire rotation pattern for dual rear wheel models in your owner's manual.

Occupant Cargo Carrying Capacity (OCCC)

See the information labels attached to the driver door post, and the inside of the lower galley cabinet door.

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 cassette. 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 fresh water tank. To flush the tank:
 - Fill it completely using the city fill and drain using the fresh water 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.

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.

At Least Once a Year

- Lubricate all door hinges, 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

Spare Tire Storage



Picture 72.1

Spare tire retaining pin



Picture 72.2

Spare tire lift hatch



Supplied with your new Roadtrek are two types of small keys. One is for the storage compartments, and the other is to unlock the chrome surround on your spare tire. Find both keys, put one of each on your key ring, and carry them with you whenever you drive your Roadtrek. If you ever need to change a tire, you will need this key.



If your new Roadtrek still has the blue protective coating on the chrome spare tire cover, remove it as soon as you can. If left on for an extended period, particularly in the hot sun, it will become very difficult to remove.

In order to open the driver's side rear door, you must lower the spare tire.

To lower the continental spare tire kit and gain access to the driver's side rear door of the Roadtrek, unlatch the retaining spring and pull the pin out while supporting the top of the tire with your other hand. (Picture 72.1) It helps to wiggle the tire back and forth to allow the pin to slide out. Place the pin where you won't lose it, and grasp the top of the tire with both hands. Lower it into a horizontal position to allow the driver's side rear door to open freely. The tire will latch when horizontal. (Picture 72.2)

Spare Tire Storage (Continued)



While the tire is spring loaded it is still fairly heavy. Use proper lifting technique or get help.

To raise the spare tire back into position, lift the guard over the cable mechanism enough for the catch to clear and allow the tire to be raised. Raise the tire back up into position, and insert the pin. Flip the retaining spring over the end of the pin to secure it.

To use the spare tire, lower the tire, unlock the chrome surround with the key supplied with your Roadtrek, unbolt the tire from the carrier with your lug wrench, and lift the tire off the carrier. Follow the Chevrolet manual for instructions on the use of the jack and other tire change procedures. Install the flat tire on the spare tire carrier and reattach the chrome surround.



Do not attempt to raise an empty tire carrier - if you change the tire, put the flat on the carrier before attempting to raise it. NEVER release the latch on a tire carrier without a tire on it. The spring will move the arm of the carrier upward with great force and speed.

Obtaining Service

When your Roadtrek needs service, determine if the issue is with the Roadtrek upfits or the GM 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 GM service. Advise the service writer that you have a g-30 1 ton van, rather than a "motorhome". Some dealerships do not want to work on motorhomes, but most can service a 1 ton van. Again, start with the service writer, then the service manager, and lastly, 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 GM's factory service.

 Erwin Hymer Group NA typically cannot initiate a case with the chassis manufacturer, the owner must do that.

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

Erwin Hymer Group NA Service information:

retailservice@erwinhymergroupna.com

1-844-496-3735

Specifications

For general chassis specifications, please refer to the GM 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). This specification refers to the baseline Roadtrek upfits. Options and upgrades may change these specifications. Roadtrek upfits only.

This applies to Erwin Hymer Group NA upfits only.

Total fresh water capacity (includes water heater)	31 gallons/117 liters
Fresh Water tank capacity	25 gallons/94 liters
Gray water tank capacity	23 gallons/85 liters
Black water tank capacity	10 gallons/38 liters
Battery type	AGM, maintenance free
Battery capacity	220 AMP hours (standard), 440 AMP hours (optional)
Propane tank size	10 gallons/38 liters
Propane tank capacity at 80%	8 gallons/30 liters
Water heater capacity	6 gallons/28.5 liters
Furnace	16,000 BTUs/hour
Refrigerator	3-way (propane, 12VDC, 120VAC)
Air Conditioner	10,000 BTUs/hour

Roadtrek Limited Warranty

What This Limited Warranty Covers

A new Erwin Hymer Group (EHG) motorhome has a limited warranty by EHG. This limited warranty covers the repair or replacement, of any part of your new Roadtrek in which a nonconformity in materials or workmanship appears during normal use, maintenance or service within the limited warranty period, subject to the limitations and exclusions described below in “What This Limited Warranty Does Not Cover”. **REPAIR OR REPLACEMENT OF COVERED MATERIALS BY A EHG DEALER IS THE EXCLUSIVE REMEDY UNDER THIS WARRANTY.** The repair or replacement of any covered material does not extend the life of the limited warranty.

Materials covered by this warranty are limited to those installed by EHG, including but not limited to, the interior finishing behind the drivers and passengers seating area, rearward windows, roof mounting air conditioning, rear heating system, electrical generator, and plumbing for the kitchen, shower and toilet. This limited warranty excludes the warranty set forth by the chassis manufacturer or any parts or components added to the vehicle by another party. In addition to this EHG limited warranty, original component manufacturers may provide their own separate warranties. **This limited warranty is valid only in the United States and Canada. Coverage under this warranty is not subject to proration or deductibles.**

How Long the Limited Warranty Lasts

The original limited warranty is in effect for a period of 72 months from the first retail owner’s date of purchase, regardless of subsequent ownership.

Who is Covered

This limited warranty covers the owner of the chassis equipped with a EHG RV conversion. The warranty may be transferred to subsequent owners during the warranty period by submitting online a new Roadtrek limited warranty registration form (see “How to Obtain the Limited Warranty” below). **THIS LIMITED WARRANTY IS NULL AND VOID IF THE VEHICLE HAS BEEN LEASED OR RENTED FOR COMPENSATION TO ANOTHER INDIVIDUAL OR ENTITY.**

What This Limited Warranty Does Not Cover

The exclusive remedy under this limited warranty or under any implied warranty that arises under state or provincial law is repair or replacement of any Covered Part in which a nonconformity in materials or workmanship appears during normal use, maintenance or service within the limited warranty period, subject to the following exclusions.

Roadtrek Limited Warranty (Continued)

LIMITATION ON DAMAGES: *EHG shall not be liable for incidental, consequential, direct, indirect, or other damages (such as, but not limited to, lost wages, loss of use, loss in value, lost profits, lost opportunities, alternative transportation, inconvenience, cost of lodging, or lost vehicle rental expenses) that result from breach of the written warranty or any implied warranty.*

LIMITATION ON IMPLIED WARRANTIES: This limited warranty is in lieu of and in exclusion of any other warranties, express or implied, including any warranty of merchantability or fitness for a particular purpose. Any implied warranties that arise under applicable state or provincial law notwithstanding the foregoing, including any implied warranty of merchantability or fitness for a particular purpose, are limited in duration to the term of this limited warranty and are limited in scope of coverage to those portions of the motorhome covered by this limited warranty.

ITEMS **NOT** COVERED BY THIS LIMITED WARRANTY INCLUDE THE FOLLOWING:

- The automotive vehicle / chassis is warranted by the chassis manufacturer. Please refer to the chassis manufacturer's Warranty information for details.
- Normal vehicle maintenance such as lubrication, batteries, tires, filter and oil replacement, belts and hoses, brake lining and adjustment and vehicle alignments.
- Damage caused by improper maintenance or use including, but not limited to, failure to follow the required or recommended maintenance schedule, failure to maintain operating parameters (e.g. plumbing leaks, fluid levels, battery life) and failure to follow operating instructions.
- Additions or accessories not originally installed by EHG and any problems resulting from such additions or accessories.
- Damage caused by misuse, carelessness, abuse or neglect, anything outside normal use.
- Damage caused by collision, fire, theft, vandalism, weather, freezing, flooding, acts of God, or other casualties.
- Damage or nonconformities with respect to Covered Materials in a vehicle that is leased or rented to another party for compensation.
- Damage as a result of corrosion or corrosive agents and their contact with EHG materials

Third Party Representations

EHG does not authorize any person to create for EHG any other obligations or liability in connection with its motorhome vehicle content, and EHG is not responsible for any representation, promise or warranty made by a dealer, component or vehicle manufacturer, or other person beyond what is expressly stated in this limited warranty.

How to Obtain the Limited Warranty

The original retail purchaser is responsible for submitting online, or having the vehicle dealer submit online, a Roadtrek Limited Warranty Registration form to EHG. This limited warranty is not valid unless the Roadtrek Limited Warranty Registration is submitted online and received by EHG within 48 hours after the date of delivery to the first end user or any subsequent owners. To register a new or subsequent owner please go to <http://www.roadtrek.com/warranty/>.

Roadtrek Limited Warranty (Continued)

How to Get Service

To obtain warranty service for your Roadtrek, call toll free 7 days a week 800-663-0066. 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.

Arbitration Provision

Any claim or controversy arising out of or relating to this limited warranty, or breach thereof, shall be settled by arbitration administered by the Arbitration Association. The determination of the arbitrator(s) shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction.

Registration

Please send the following form in or email the information to sales@roadtrek.com when you purchase your Roadtrek.

CHANGE OF OWNER NAME OR ADDRESS FORM IMPORTANT - To owner with New Address or Used-Vehicle Buyer - complete and mail for accuracy of recall mailing records											
PLEASE TYPE OR PRINT LEGIBLY:											
1. VEHICLE IDENTIFICATION NUMBER (17 Character number found on top left instrument panel)											
2. PRINT Last Name (including Jr., Sr., etc.)											
3. PRINT First Name (or Initial) and Middle Name (or Initial)											
4. PRINT NEW mailing Address: House/Building Number and Street Name (including St., Ave., Rd., Ct., etc.)											
APT./Suite No.			or		P.O. Box No.			or ☐ RR/ ☐ HCR		☐ RR/ ☐ HCR Box No.	
City				State				ZIP Code		ZIP +4	
Phone No.						Prov.		Postal Code			
Month Day Year						Email Address					
Current Date											
Questions or concerns?: sales@roadtrek.com											

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 Erwin Hymer Group North America (*Roadtrek, Hymer, Sunlight etc.*) 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 Erwin Hymer Group NA.

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 Erwin Hymer Group NA.

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.

HOWTOs

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

<http://www.roadtrek.com/support-contact/#section-how>

<https://www.youtube.com/user/RoadtrekMotorhomes>