

How To Guide

2016 E-trek



HOW TO: Monitor Panel

Location

The monitor panel is located inside the side door, above the rear captain's seat. To the left of the main monitor panel is the inverter switch.

Power Sources

The monitor panel controls two separate power sources; 12 volt DC power from the batteries, solar panels, and engine generator, and 120 volt AC power from the inverter and shore power.

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.

The battery disconnect switch turns the coach battery power off and on. When off, it prevents your coach batteries from being drained while the Roadtrek is not in use. The lights, the water pump, the fan, the refrigerator, etc. - all need 12 volt power from the batteries. If something electrical in your Roadtrek doesn't work, the first thing to check is to make sure the battery disconnect switch is on.

The battery disconnect switch is on the bottom left corner of the monitor panel. To its immediate right is a blue indicator light which illuminates when the switch is on to show you that your batteries are supplying power to the coach.

You will hear a "clunk" as the battery disconnect switch is pressed - this is a big relay connecting the coach batteries to the electrical loads. If you hear a clunk-clunk, or nothing at all, it's possible that your batteries are depleted to the point where they cannot drive the relay. Take steps to charge your batteries, such as starting the vehicle engine, and try again after building the batteries up to a charge level where they will power the relay.



Monitor Panel



Battery disconnect switch

Inverter



Inverter Switch



Inverter power indicator light location

The inverter provides 120 volt AC (household current) to the 120 volt appliances and wall outlets.

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.

In the power save auto setting, when you're not using anything with 120 volt power, the inverter will put itself to sleep. In this mode, it still uses a small amount of power. If you turn on a 120 volt appliance, it senses a load and will come back on in about 20 seconds. If you select power save auto you'll reduce the electricity it takes to keep the inverter powered, and your batteries will require less recharging.

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

On the right side of the inverter switch are three lights. There is a shore power indicator light to show you the system that is receiving shore power. There is also a battery charging indicator light to tell you when the batteries are being charged by shore power. The third light will alert you to any inverter error messages, which are displayed on the inverter display panel.

Your refrigerator will run on either 12 volt battery power or 120 volt inverter power, but will use less electricity if the inverter switch is off because of the conversion loss. If all you're running is your refrigerator, such as when you retire at night, turn the inverter off and save battery power.

Other Switches

Patio Light

On the control panel, the top left switch is the patio lights switch. 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.



Patio light switch



Water pump switch

Water Pump Switch

The button to the right of the patio light switch is the water pump switch. 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. Both of these switches light up to let you know they are on.

Tank Levels and Battery Charge Indicators

To the right of the control switches are the indicator lights for the battery charge level, the fresh water tank level, and the black and gray water tank levels. 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.

Roadtrek recommends that you keep a small amount of water in your gray and black tanks at all times. This will reduce the likelihood of material sticking to the inside of the tank.

The four indicator lights for the battery are low, fair, good, and charging. Battery voltage dips under load; the greater the load the greater the voltage dip. A battery under heavy load will show much lower state than one at rest.



Tank indicators