



ONECONTROL®

PREMIUM MONITOR PANEL
OEM INSTALLATION MANUAL

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Introduction

The OneControl Premium Monitor Panel (the Panel) works in conjunction with a OneControl® Unity Board™ (the Board). Users operate RV devices using the Panel or with a mobile smart device connected to the Controller via Bluetooth with the OneControl App.

Additional information about this product can be obtained from [lci1.com/support](https://support.lci1.com/support) or by downloading the free LippertNOW app. The app is available on Apple App Store® for iPhone® and iPad® and also on Google Play™ for Android™ users.

Apple App Store®, iPhone®, and iPad® are registered trademarks of Apple Inc. Google Play™ and Android™ are trademarks of Google Inc.

For information on the assembly or individual components of this product, please visit:

<https://support.lci1.com/onecontrol-wireless-formerly-myrv>

Note: Images used in this document are for reference only when assembling, installing and/or operating this product. Actual appearance of provided and/or purchased parts and assemblies may differ.

Safety

Read and understand all instructions before installing or operating this product. Adhere to all safety labels.

This manual provides general instructions. Many variables can change the circumstances of the instructions, i.e., the degree of difficulty, operation and ability of the individual performing the instructions. This manual cannot begin to plot out instructions for every possibility, but provides the general instructions, as necessary, for effectively interfacing with the device, product or system. Failure to correctly follow the provided instructions may result in death, serious personal injury, severe product and/or property damage.

WARNING

The "WARNING" symbol above is a sign that a procedure has a safety risk involved and may cause death or serious personal injury if not performed safely and within the parameters set forth in this manual.

WARNING

Failure to follow instructions provided in this manual may result in death, serious personal injury and/or severe product and property damage, including voiding of the component warranty.

CAUTION

The "CAUTION" symbol above is a sign that a procedure has a safety risk involved and may cause personal injury, product or property damage if not performed safely and within parameters set forth in this manual.

CAUTION

Moving parts can pinch, crush or cut. Keep clear and use caution.

Resources Required

- Cordless or electric drill or screw gun
- Appropriate drive bits
- Fastening hardware for controller and monitor panel
- Smart device with Bluetooth capability and the Lippert OneControl app installed

Overview

Panels provide access to devices and systems detected on the RV's OneControl System. Panels are typically located near an entryway, occasionally inside a cabinet (Fig. 1). On some units, a sticker with information about the unit's OneControl system and a QR code to streamline App pairing is placed below the Panel (Fig. 1A).

Fig. 1



There are multiple versions of the Panel that can be installed and connected to the x180T control board. Panel functions and controls are specific to the OEM unit model and floor plan.

The Panel's user interface is organized into three levels:

- Upper (Fig. 1B): 4 rows of LEDs describe resource and storage levels.
- Middle (Fig. 1C): 2 rows of buttons provide latching (ON/OFF) controls.
- Lower (Fig. 1D): 2 rows of buttons provide momentary (press and hold) controls.

In the middle of the bottom row is an infrared (IR) motion sensor (Fig. 1E). When motion is detected near the Panel, it will cause the Panel to illuminate.

Note: Panel controls vary by an RV's make, model, year and floorplan.

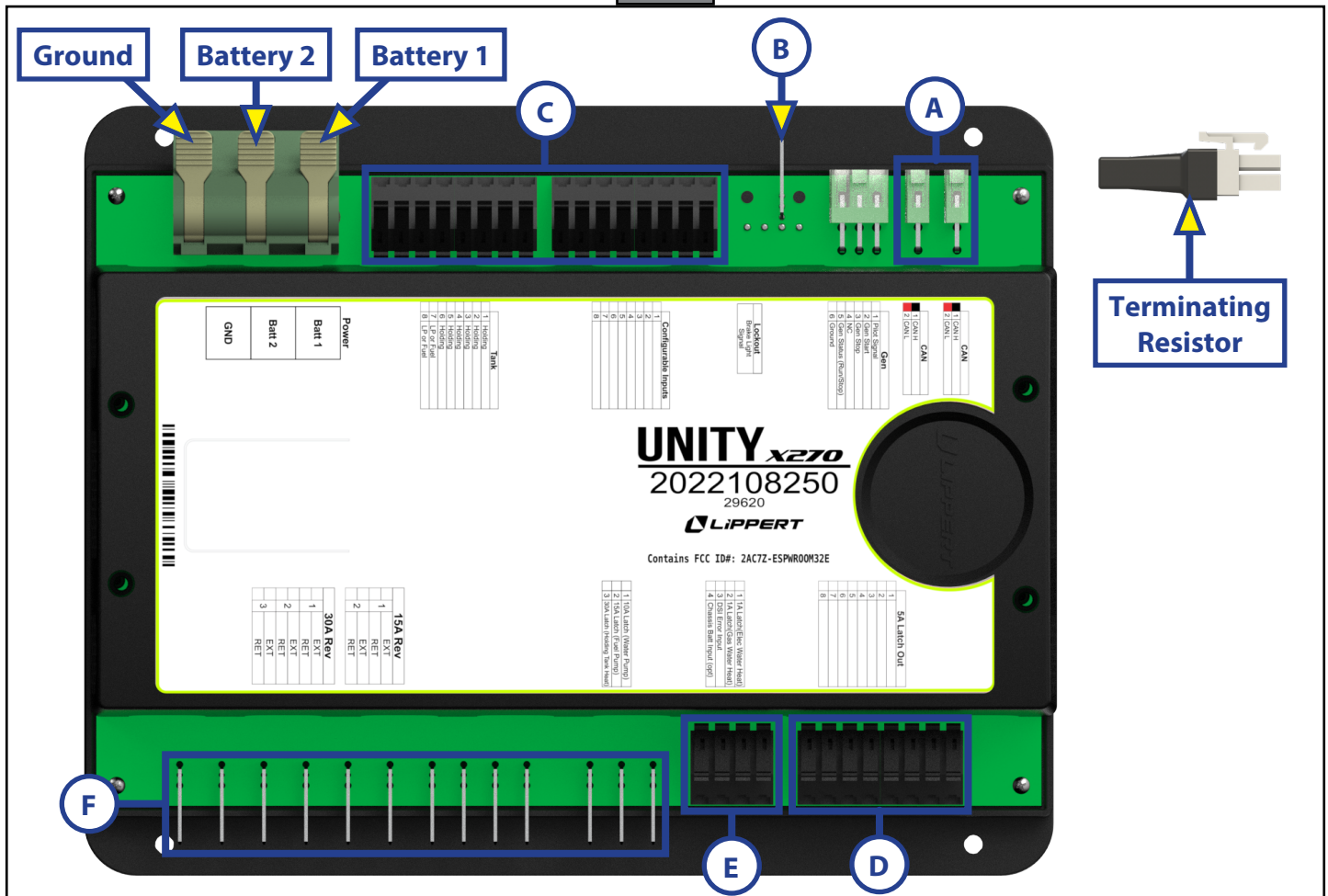
Controller Installation

1. Install controller in watertight location.
2. Connect 12V power and ground to the board (Fig 2).

Note: Use a 30A circuit at the power converter or connect on the converter side of the battery disconnect with a 30A mini breaker in line prior to the X270 controller. Make sure to follow RVIA guidelines for wire gauge and fusing.

3. Make connections for each input and output used (Fig. 2). Refer to the Monitor Panel Configuration section for specific connections based on the monitor panel used.
 - A. CAN bus data harness connections (Fig. 2A) that link each module in the OneControl system together. A terminating resistor (Fig. 2) must be placed in the X270 monitor panel if no other modules are used.
 - B. Lockout (Fig. 2B): Provides in-transit lockout of moving features. Towable input from brake light/turn signal wire.

Fig. 2

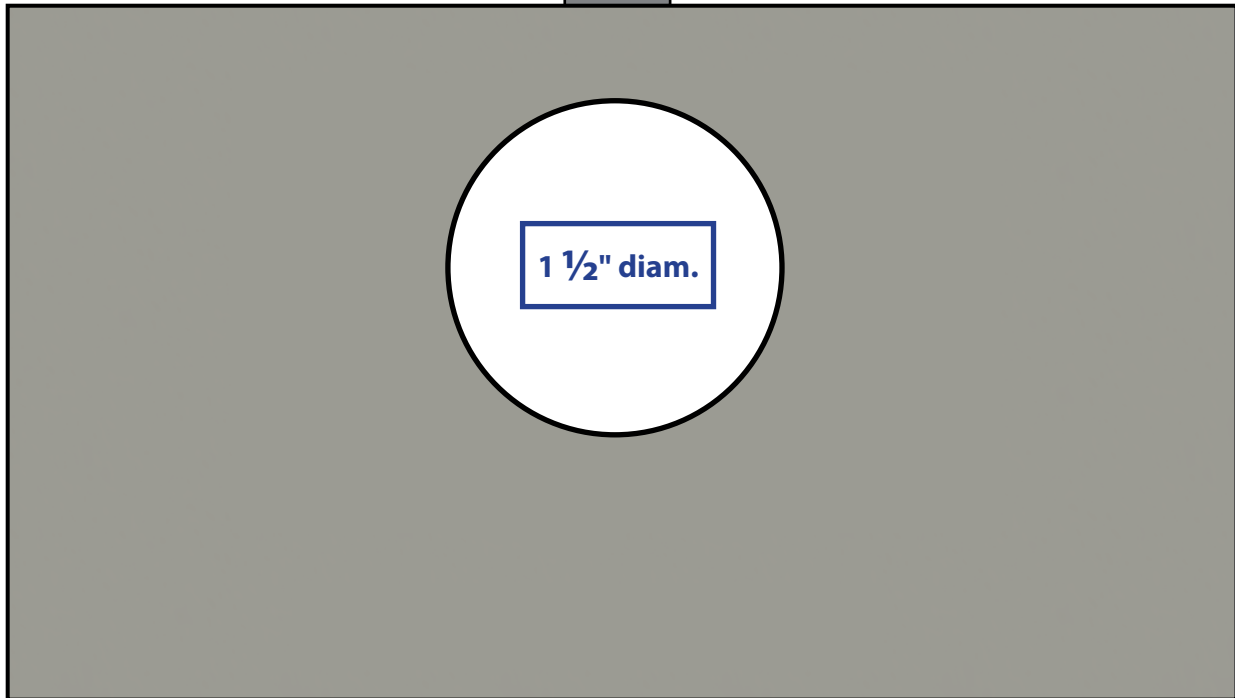


- C. Configurable Inputs: The X270 has 16 configurable inputs (Fig. 2C). These inputs are configured to be used with manual switches for both reversing and latching outputs. Any one of the inputs can also be configured as a DSI fault input if needed for a gas water heater.
- D. Low Current (LC) Latching Outputs (Fig. 2D): Connections are available for eight low current latching outputs with a maximum fuse rating of 5A.
- E. Additional latching outputs (Fig. 2E) : Connections are available for controlling electric and/or gas water heaters, and an input for DSI fault circuitry and an optional chassis battery input.
- F. Low Current (LC) and High Current (HC) Reversing Outputs (Fig. 2F) : Connections are available for low current (15A) and high current (30A) reversing outputs. High Current (HC) Latching Outputs: Connections are available for three high current (30A maximum) latching outputs.

Premium Monitor Panel Installation

1. Determine mounting location for the Monitor Panel. A round penetration 1 1/2" in diameter (Fig. 3) will be required for wiring connections.
2. Using a hole saw, cut a penetration measuring 1 1/2" in diameter (Fig. 3)
3. Route CAN bus and power harnesses through the penetration.

Fig. 3



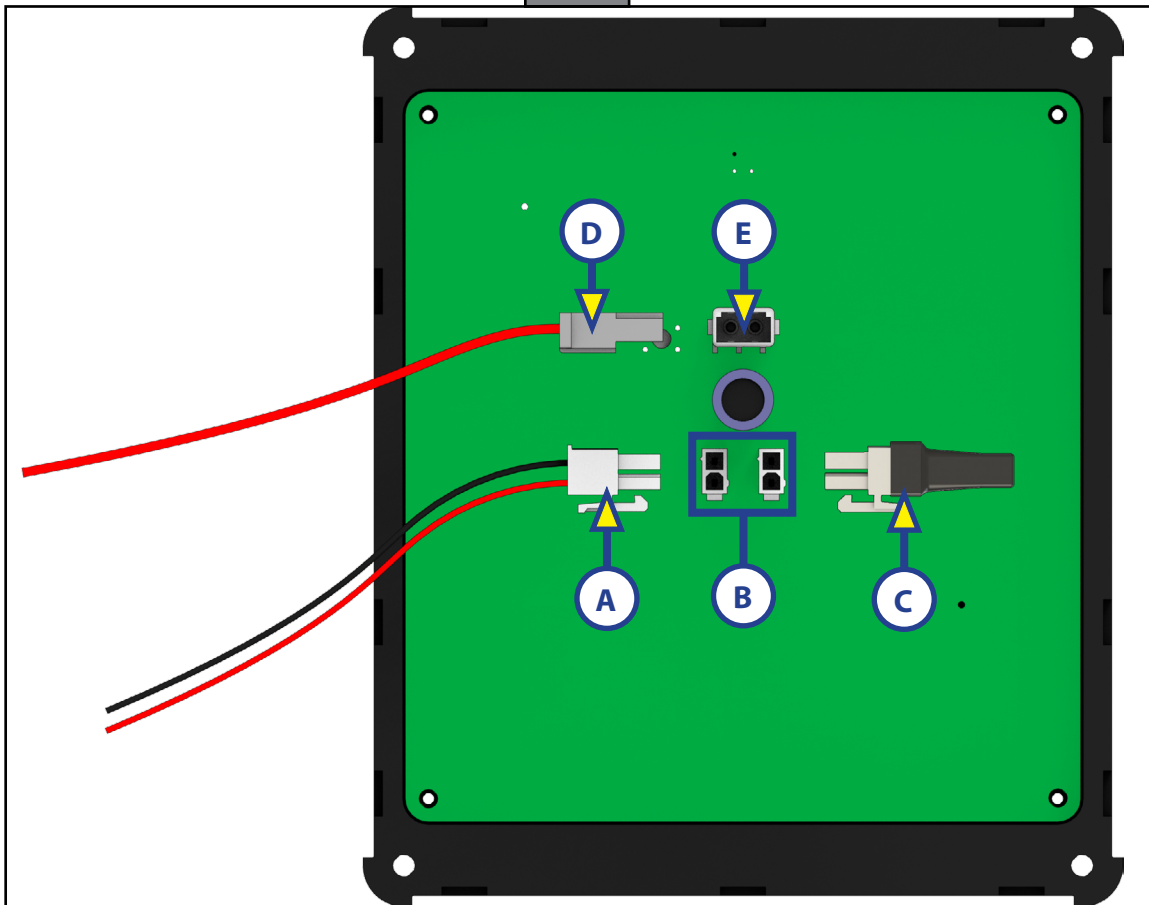
Premium Monitor Panel Configuration

1. Plug the CAN bus data harness (Fig. 4A) from the X270 controller into either CAN bus data port (Fig. 4B) on the back of the panel.
2. Plug in a terminating resistor (Fig. 4C) to the other CAN bus data port (Fig. 4B).

Note: If multiple controllers are used in the system, another CAN bus data harness (Fig. 4A) will be used in place of a terminating resistor (Fig. 4C).

3. Apply power.
 - A. Connect the CAN bus power cable to the system's 12V DC power source. Fuse appropriately per RVIA standards.
 - B. Plug the CAN bus power harness (Fig. 4D) into the monitor panel (Fig. 4E)

Fig. 4



Premium Monitor Panel Reprogramming

After a monitor panel has been configured to a specific X270 controller, it cannot be configured to another controller unless it has been put back into programming mode. To reprogram:

1. Unplug the panel from the controller, then push the red recessed programming button (Fig. 4F) on the back of the monitor panel with a paperclip or pen.
2. Press and hold the programming button until the LEDs on the front flash off then back on. This should take approximately 10 seconds. The panel can now be connected to a new controller.

Regular Use

- The Panel will normally be in Sleep Mode, with no LEDs illuminated.
- When motion is detected within approximately 10 feet (3 meters) of the IR sensor, the Panel will illuminate and show activity (Fig. 5).
 - When motion is not detected for approximately 15 seconds, the panel will go back into Sleep Mode.
- Note:** There is no dedicated power switch for the Panel. When the RV is powered, the Panel will be ON.

Fig. 5

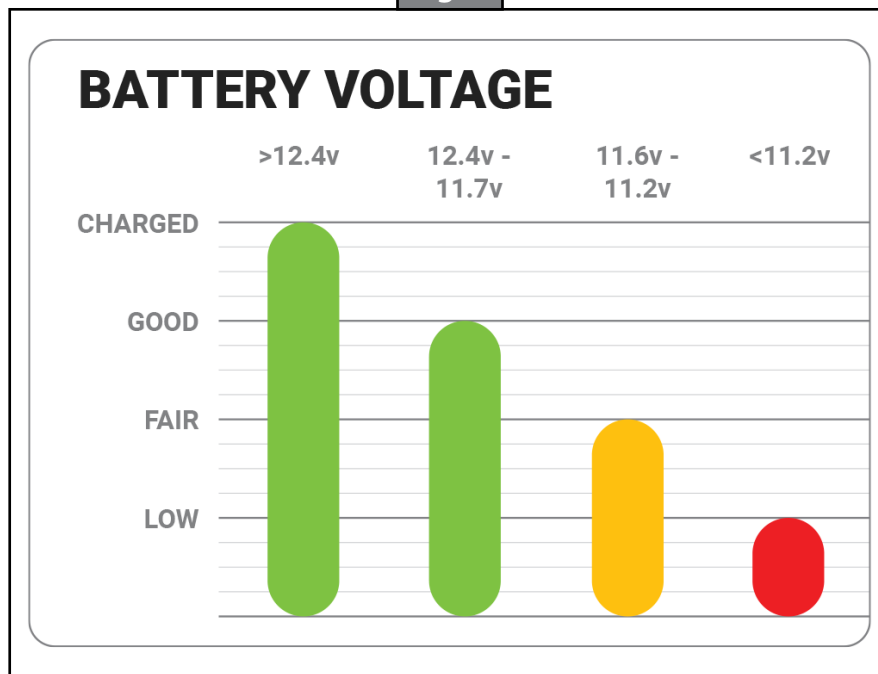


Upper Level: Resources and Storage

The Upper Level provides at-a-glance status of vital resources such as water and power.

4. Fresh Tanks
 - A. When tank is full, all level indicator LEDs will display in GREEN.
 - B. As tanks are depleted, individual LEDs will turn off.
 - C. When water level gets to 1/3, the remaining LED level indicators will turn RED to alert user that fresh water supply is low.
5. Black and Grey tanks
 - A. When tanks are empty, the EMPTY LED indicator will display as GREEN.
 - B. As tanks are filled, individual LEDs will illuminate green.
 - C. When tank levels get to 2/3, all level LEDs turn RED to alert user that tanks are almost full.
6. Battery
 - A. When battery charge is at 12.6V or above, all level indicator LEDs will display as GREEN.
 - B. As battery charge is depleted, the level indicator LEDs will turn off and change from GREEN (CHARGED and GOOD) to ORANGE (FAIR) and RED (LOW). Color and voltage correspond as described in Figure 6.

Fig. 6



CONNECT Button

The CONNECT Button (Fig. 5A) assists with App pairing and managing access to your RV's OneControl System.

1. The button will flash when initial Bluetooth pairing is taking place.
 - A. See the App Pairing section of this manual for more information.
2. The Bluetooth button will illuminate solid BLUE when a OneControl App is open and connected to the Controller.

Middle Level: Latching Devices

Latching button behavior

1. All latching devices include an ON and OFF state.
 - A. If button illumination is WHITE, the device is available and OFF.
 - B. If button illumination is BLUE, the device is available and ON.
 - C. In some cases, the button will illuminate RED. This indicates a fault.
 - I. Fault states are described later in this manual.
2. Turning a latching device ON or OFF requires pressing and releasing the button.
 - A. If your OneControl System supports dimmable lights, holding pressure on the button will adjust brightness.

Latching devices: Lighting

The Panel provides access to as many as 11 lights.

Note: Only lights supported by the OneControl System will appear.

Lighting Features

All Lights

This feature will turn ON or OFF all lights supported by the RV's OneControl System.

Note: If a few all lights are on, pressing the button will turn all lights OFF.

Note: Should the All Lights be ON and an individual light is turned OFF, the All Lights button will turn OFF.

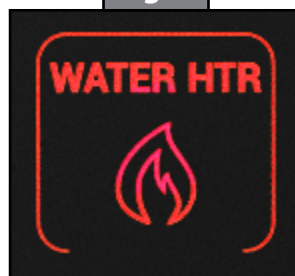
Types of lights

1. Standard Lights
 - B. These lights provide ON/OFF functionality only.
2. Dimmable Lights
 - A. In addition to ON/OFF, the intensity of these lights may be increased or decreased. To dim the light, press and hold the button until the light meets the desired brightness.

Other Latching Devices

1. Water Pump
 - A. Use this device to pressurize the water system to provide running water at faucets, etc.
2. Water Heater - GAS
 - B. Use this device to heat water with fuel, most commonly liquid propane.
 - I. DSI Fault. If the heater burner fails to ignite, the button will illuminate solid RED (Fig. 7) and flash for 5 seconds. Press the GAS button to reset.

Fig. 7



3. Water Heater - ELECTRIC
 - A. Use this feature to heat water with electric or battery power.
4. Water Tank Heaters
 - A. Use these devices to prevent water tanks and lines from damage in cold environments.
5. Generator
 - A. Use this feature to provide power in the event battery voltage is low or shore power is unavailable.
 - B. Use the App for advanced features and settings.
6. Other devices
 - A. See the RV's manual for a list of devices support by the OneControl System

Lower Level: IR Sensor

The IR motion sensor detects motion approximately 10 feet (3 meters) in front of the Panel.

- A. When motion is detected, the Panel will illuminate.
- B. If motion is not detected for ~15 seconds, Panel illumination will turn OFF.

Lower level: Momentary devices

Momentary button behavior

- A. Momentary devices provide directional states, such as IN or OUT. To use a device such as a slide, awning or lift, press and hold one of their buttons.
 - I. If button illumination is WHITE, the device is available.
 - II. When pressed, the button turns BLUE. When released, it returns to WHITE.

Awnings and Slides

The Panel supports up to 6 awnings and slides.

- A. Extend slides or awnings by pressing and holding any IN or OUT button.
 - I. When the awning or slide is at the desired position, release the button to stop movement.

CAUTION

Keep clear of the awning arms and frame during operation as these are pinch points an moving parts can pinch, crush, or cut. Be sure the awning mechanism is clear of people and property before retracting. Property damage or serious personal injury could result.

CAUTION

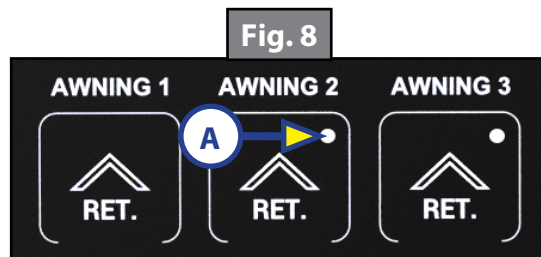
When extending your awning, be sure to give the awning appropriate clearance. Trees, nearby units, and other obstructions could be damaged and may cause damage to the awning. Make sure the awning is not tied-down before retracting.

Wind Sensors

Awnings may be equipped with OneControl Wind Sensors. They provide two features:

- A. Awning Control: Convenient one-touch extension and retraction.
- B. Wind Protection: Automatic retraction during severe weather events.

Awnings equipped with Wind Sensors feature small dots in the button (Fig. 8A)



Awning Control

To Automatically extend or retract an awning, press the awning's IN or OUT button quickly two times, then release it.

The awning will stop automatically when fully extended or retracted.

All lights on the panel will flash during operation.

Note: To cancel travel, press any button on the Panel.

Wind Protection

This feature must be turned on from the App.

Note: To learn more about Wind Protection, see the Enabling Wind Protection section of this manual.

Using the App

The OneControl App is a convenient way to operate RV devices. It requires:

1. A smart device that meets minimum requirements:
 - A. Apple iPhone Version 8 with iOS 13 or higher
 - B. Android device Version 8
2. The most recent version of the App.
 - A. Scan the QR code on the label below the Panel or search for “OneControl” in the App Store or Google Play store.
 - B. Download App Version 5.6 or higher.
3. Enabling permissions.
 - A. You must enable Bluetooth and Location permissions on your smart device.

Additional information is typically found in the main entryway of the RV near the Panel.

Creating a New Account

After downloading the OneControl App, follow the instructions to create an account. You'll need to accept the User Agreement, enter a username and create a password.

Note: Password must be at least 8 characters long, contain letters, a number and a special character (examples: !#\$%*/=?).

Entering your RV's VIN is recommended. It helps speed service time should you need to contact the Lippert Customer Care Center. Your VIN is located in your RV's paperwork or on a tag attached to the RV near the door or front frame.

Note: Registering for the App does not require being near your RV, or the RV to be powered ON.

Pairing with your RV

When you're ready to pair with your RV, power it ON. Locate the Panel's "CONNECT" button. During the process, you'll need access to the CONNECT button (Fig. 9).

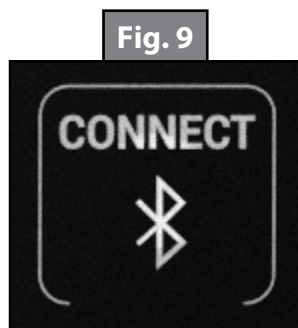


Fig. 9

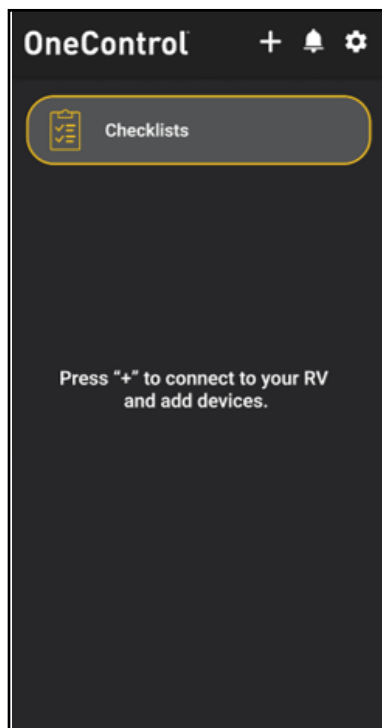
If you need help pairing your RV, please contact the Lippert Customer Care Center.



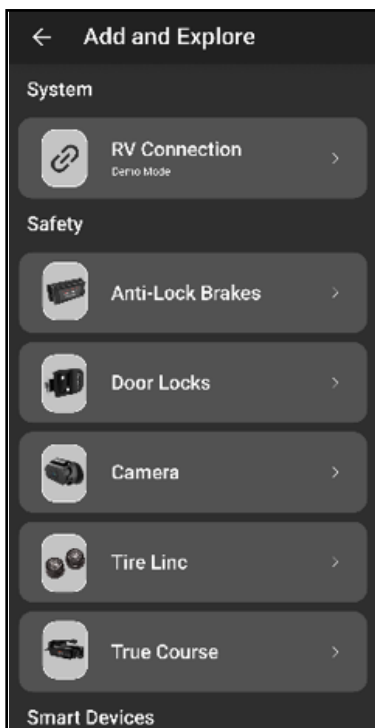
- Lippert Customer Care Center: 432-547-7378
- Hours: Monday - Friday: 8AM - 7PM (ET)
- Press 1 for after-hours emergency team
- Before contacting the Care Center, have your RV's VIN ready. It will help the representative process your inquiry.

Pairing to your RV with Push to Pair

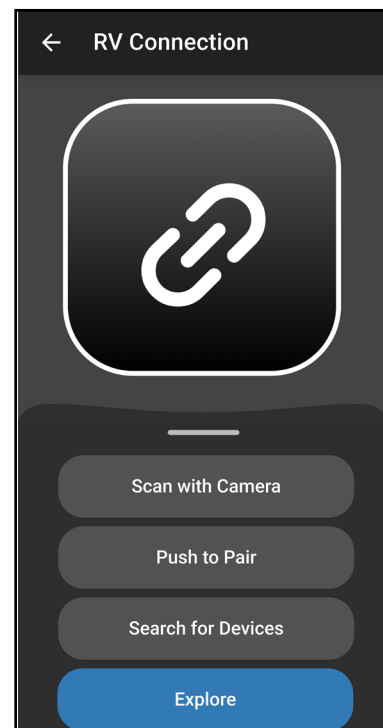
1. Open the App's **landing page** and press the "+" icon. It will open Add & Explore.



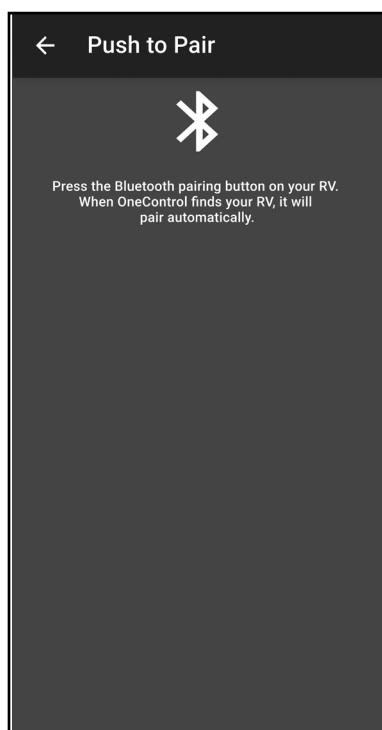
2. Use **Add & Explore** to connect your RV, connect RV devices and explore aftermarket options.



3. Press **RV Connection** to see App pairing options. Select **Push to Pair**.



4. Push to Pair will ask you to locate the Panel's **CONNECT** button.

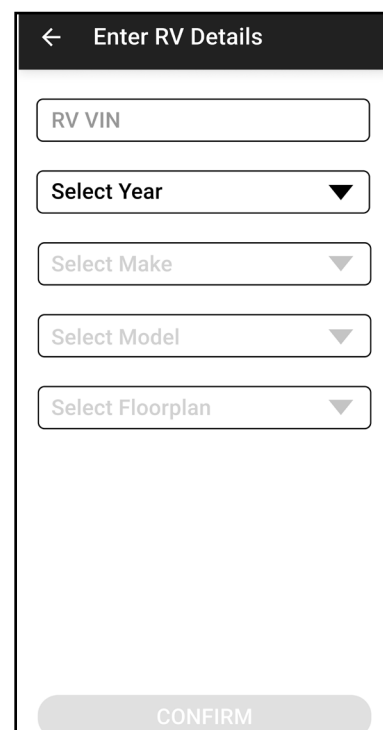


5. Press the button. It will **flash BLUE** as the App pairs with the RV.

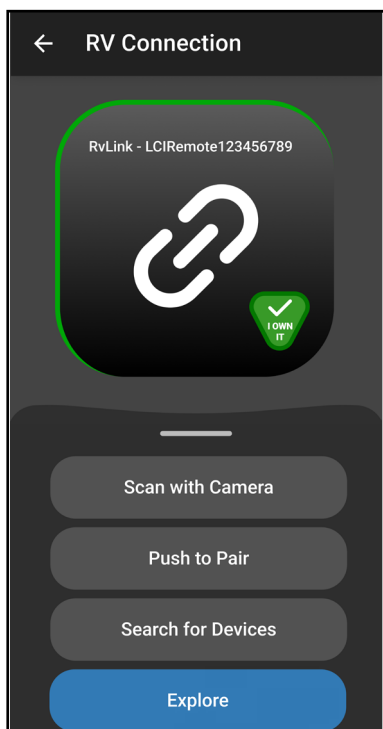


Note: Entering RV VIN allows you to receive important notifications about your RV such as product updates.

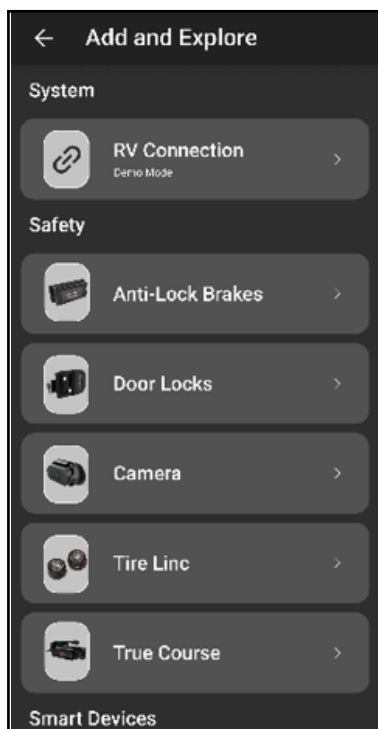
6. When successful, press CONTINUE, then enter RV details.



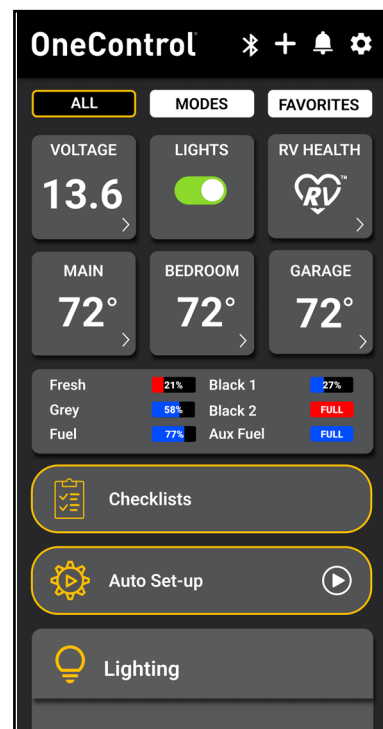
- When paired, the icon **turns green** and shows your RV's OneControl System ID.



- Return to Add & Explore to connect RV devices. **Check your RV's manual** for available devices.



- To use RV devices, return to the Home Page. **Note:** Devices vary by RV.



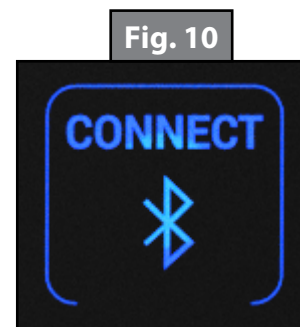
Connection Status: App

The App's Header describes the status of your connection to the RV. Depending on status, it will show one of four distinct icons:

Icon				
Meaning	Confirms local Bluetooth connection	Confirms remote connections (for RV's equipped with ConnectAnywhere)	Confirms local WiFi connections (older RVs only)	App is not connection to the RV's OneControl System

Connection Status: Panel

When your OneControl System detects an active App connection, the CONNECT button will turn BLUE (Fig. 10).



Usage Tips

The App connects to your RV's OneControl System locally via Bluetooth. Range is impacted by obstructions, such as appliances and walls. Expect 30-40 feet (9-12 meters). Use the icon in the header to explore your RV's range.

Pairing a New or Different RV

Only one RV may be paired to the App at any time.

If you already have an RV paired with the OneControl App and wish to pair a different one, press the “+” icon and open the Add & Explore page.

Press “RV Connection” to open pairing options.

Important: If you open a pairing option page, any RV paired with the App will be unpaired.

Select a pairing option and follow the instructions to pair. For Push to Pair, see the preceding section of this manual called “Pairing from Push to Pair.”

Pairing with Scan with Camera

The Panel does not support this App pairing option. Please Push to Pair.

Pairing with Scan for Devices

The Panel does not support this App Pairing option. Please Push to Pair.

App Troubleshooting

The OneControl App is a convenient way to operate RV devices. It requires:

1. Confirm smart device that meets minimum requirements:
 - A. Apple iPhone Version 8 with iOS 13 or higher
 - B. Android device Version 8
2. Confirm you are using most recent version of the App.
 - A. Recommended: Scan the QR code on the label below the Panel
 - B. Option: search for “OneControl” in the App Store or Google Play store.
 - C. Look for App Version 5.6 or higher.
3. Confirm that the following permissions have been enabled:
 - A. Bluetooth permissions
 - B. Location permissions
4. Confirm RV is powered and Panel is ON (illuminated).
5. Ensure you are in Bluetooth range of the RV’s OneControl System
 - A. Recommended: be inside RV next to the Panel until pairing is complete.

If you need help pairing your RV, please contact the Lippert Customer Care Center.



- Lippert Customer Care Center: 432-547-7378
- Hours: Monday - Friday: 8AM - 7PM (ET)
- Press 1 for after-hours emergency team
- Before contacting the Care Center, have your RV’s VIN ready. It will help the representative process your inquiry.

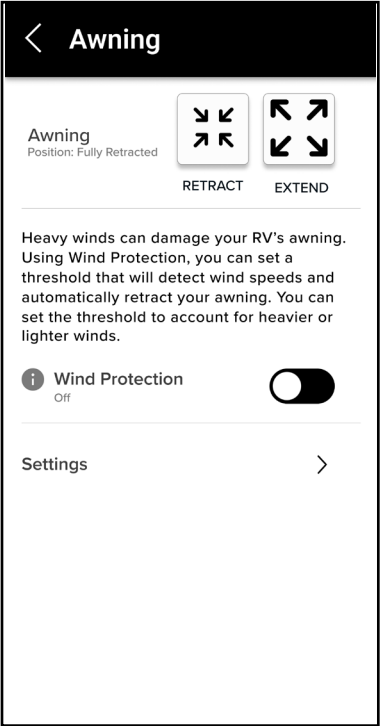
Enabling Wind Protection

At the factory, a Wind Sensor's Wind Protection function is set to OFF. To turn it ON, open the App and scroll down to the Awnings section. Open the Awning's home page.

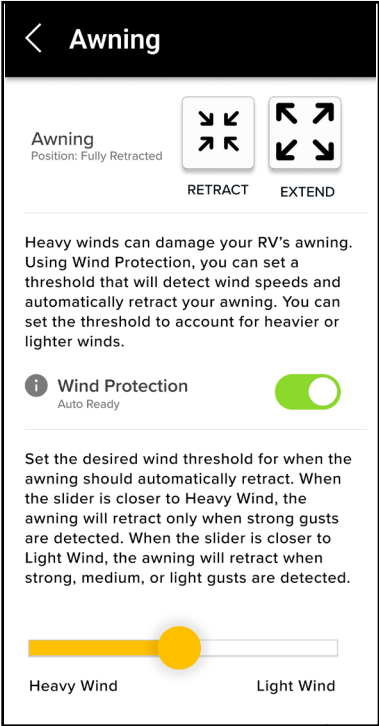


Before enabling Wind Protection, provide adequate clearance for awning travel. Do not hang anything from the awning arms, such as lights or signs.

On the Home Page, turn Wind Protection switch ON.



Use the slider to select the level of protection.



When activated, you'll receive an alert.



Activation Alerts

Your OneControl System will provide an alert when auto-retraction has been activated. On the Panel, all lights will flash WHITE for the duration of the retraction.

Note: To receive an App alert, your smart device must be ON and connected to the RV via Bluetooth or remotely with ConnectAnywhere 2.0.

Stopping travel

To stop an auto-retraction, press any button on the Panel or the Awning's button in the App.

Troubleshooting

Smart Device Won't Connect

1. Check that Bluetooth on the smart device is turned on.
2. Ensure permission to access Bluetooth by the OneControl app has been granted.

Note: Permissions are asked for and granted during initial app set up and connection to system. Be sure to grant all permissions asked.

3. Operator with smart device must be within Bluetooth range of the RV.

Note: Bluetooth range is typically 30-40 feet (9-12 meters). Use the icon in the App's header to determine connection status.

Panel LEDs are flashing

1. The Panel is connected with the controller through a CANbus data network harness (Fig. 11D). These 2-pin data harnesses are connected to the back of the monitor panel along with a 2-pin power harness (Fig. 11C). Any interruption in this data network will result in a fault. A fault is indicated on the Panel when all the buttons flash WHITE in unison for 5 seconds after a slide-out or awning button is pressed. If attempting to turn ON or OFF a light, water pump, or heater, the button for that device will flash BLUE for 5 seconds.

Note: Depending on the OneControl system configuration, a Terminating Resistor (Fig. 11E) may be in place of one of the CANbus harnesses (Fig. 11D).

Note: The CANbus data harnesses and/or terminating resistor may be plugged in to either receptacle on the back of the panel.

2. To remove the Panel from the wall, remove the bezel (Fig. 11A) by using a flat blade screwdriver to gently pry the bezel away from the Panel. You may need to gently pry in a few different locations around the perimeter.
3. Remove the 4 screws (Fig. 11B) holding the Panel to the wall.

Fig. 11



4. Verify that the power harness (Fig. 12A) and CANbus harnesses (Fig. 12B) are securely attached to the back of the Panel, then replace Panel and bezel.

Note: Depending on the OneControl system configuration, a Terminating Resistor (Fig. 13) may be in place of one of the CANbus harnesses (Fig. 9B). Verify that the terminating resistor is securely attached to the back of the panel.

Fig. 12

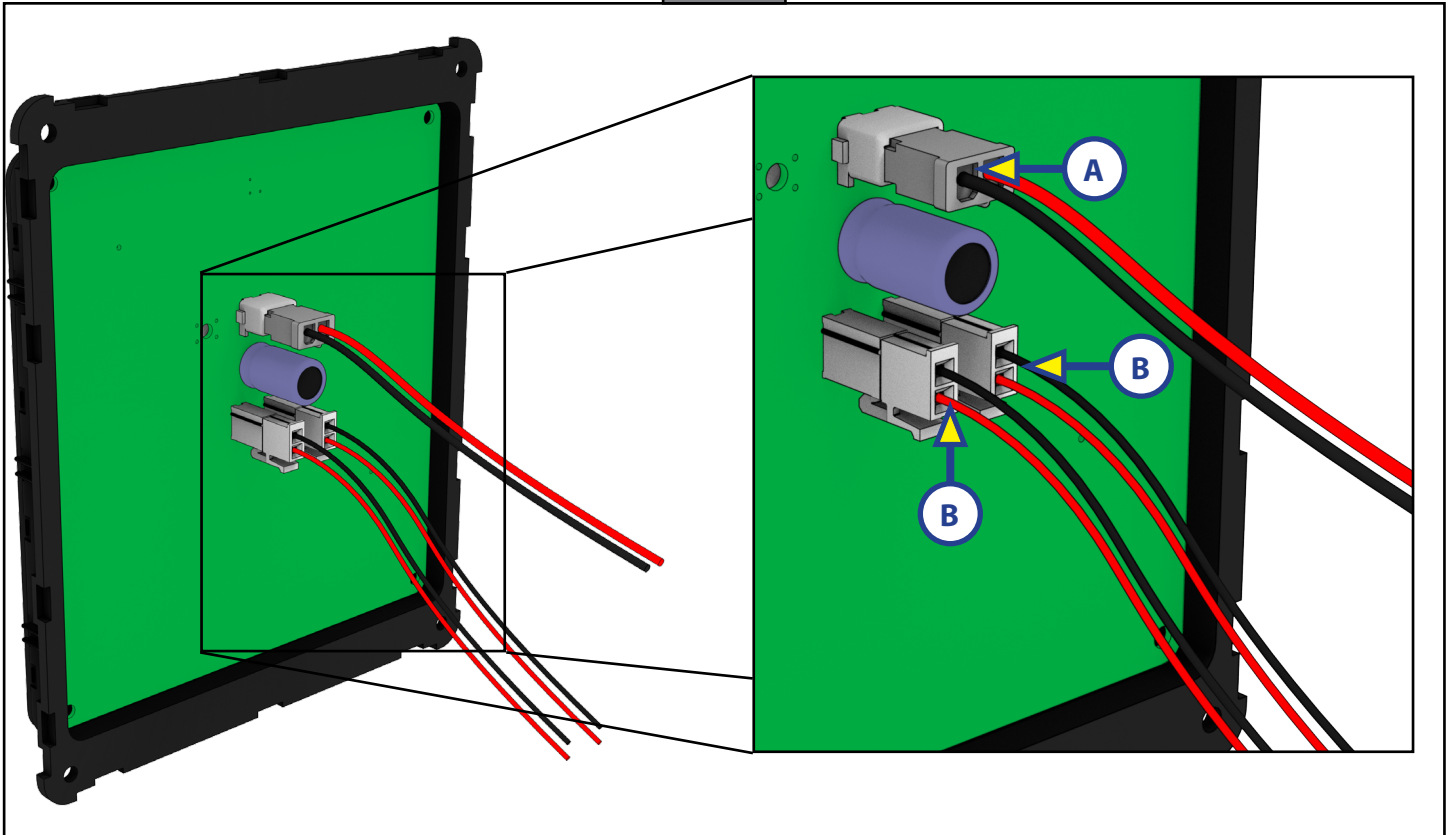
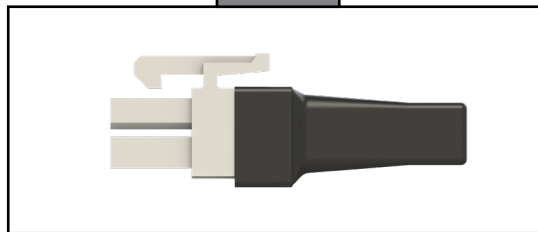


Fig. 13



Growing your OneControl System

Pairing to your RV provides access to essential devices such as lights and awnings. Depending on your RV's configuration, you may also need to pair OneControl devices installed at the factory. These may include:

- Anti-lock Brakes with digital odometry
- Wind Sensors with one-touch operation
- Battery Monitor
- Insight Camera
- Tire Linc TPMS

Check your RV's manual to learn more about your RV's OneControl devices. To learn more about the OneControl system, visit the Add & Explore page in the App or the OneControl RV home page online:

<https://store.lci1.com/onecontrol-for-rvs>

Aftermarket Devices

OneControl smart devices help you tow with greater control, keep an eye on food safety, track resources and secure the RV. Scan the QR codes below to learn more.

Keyless Door Locks



Lock and unlock
RV doors without
using keys



Liquid Propane Sensors



Monitor LP levels
to avoid surprises



Temperature Sensor



Monitor fridge and
freezer temperatures.



Notes

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.



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