



ONECONTROL[®]
UNITY BOARD[™]
TROUBLESHOOTING
AND SERVICE MANUAL

L I P P E R T
C O M P O N E N T S[®]

TABLE OF CONTENTS

Introduction	2
Safety	2
Configurator	3
Fuse Assignments	5
Troubleshooting	6
Technical Data	7

Introduction

The OneControl® Touch Panel (Fig. 1) is a touchscreen device that accesses system controls and monitoring software for recreational vehicles. The OneControl Unity Board™ is an electronic control system that provides direct power, control, monitoring and diagnostics for coach functions, including awnings, lighting, fans, HVAC, generators, water tanks, water pumps, tank heaters and battery levels. Each slide-out is controlled by its own module that is linked to the system via CAN network. Powering up the recreational vehicle will also power up the OneControl Touch Panel and the various controllers throughout the RV.

Additional information about this product can be obtained from lci1.com/support or by downloading the free myLCI app. The app is available on iTunes® for iPhone® and iPad® and also on Google Play™ for Android™ users.

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Safety

Read and understand all instructions and safety labels outlined in this manual before operating the system. Contact LCI Customer Service if there are questions or concerns about the procedures in the manual.

WARNING

The “WARNING” symbol above is a sign that an installation procedure has a safety risk involved and may cause death, serious personal injury or severe product or property damage if not performed safely and within the parameters set forth in this manual.

CAUTION

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

Configurator

⚠ WARNING

Entering the configurator is a potentially dangerous operation. An error in configurator settings could render the Unity Board and its systems inoperable. It is recommended that only authorized dealers change configurator settings.

The configurator is used to configure the systems controlled by the Unity Board.

1. Make sure the RV ignition is off.
2. Tap the OneControl logo five times.

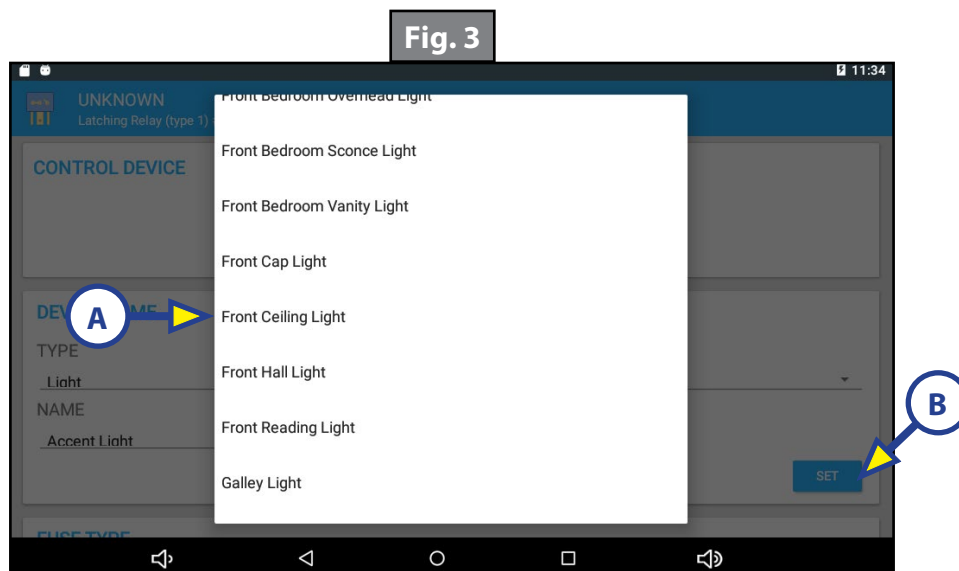
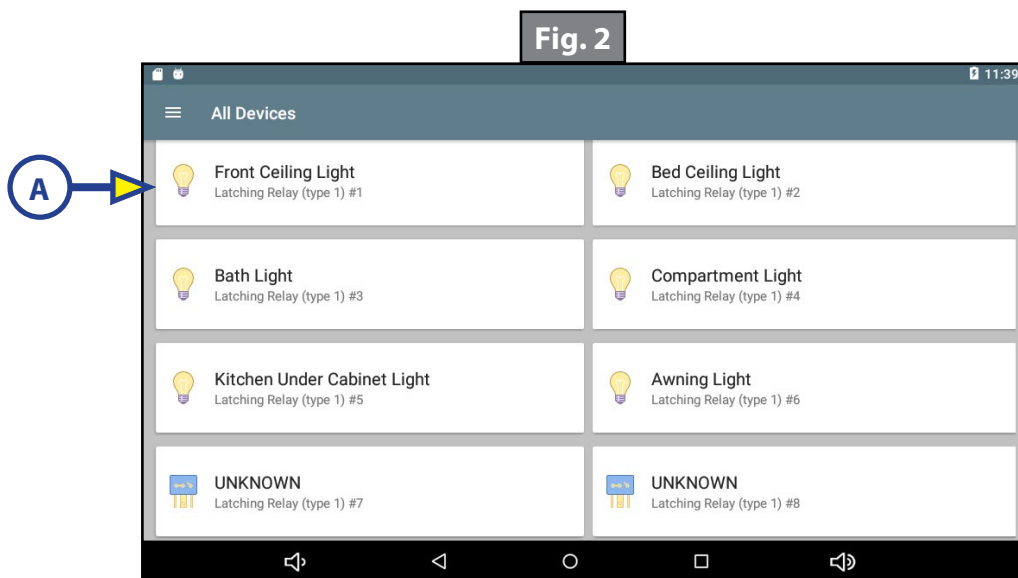
NOTE: The OneControl logo is located in the upper left corner of the home screen (Fig. 1A).



3. Press YES at the bottom of a warning box indicating users are entering an advanced feature.
4. Choose a device to configure (Fig. 2A).

NOTE: Devices must be configured to their proper output. For instance, lighting devices must be configured to Latching Relay and cannot be configured to Polarity Reversing Relay.

5. Select a name for the system (Fig. 3A) and then press the blue SET button (Fig. 3B) in the bottom right side of the screen.



Fuse Assignments

Every reversing output can be assigned a software fuse value in the range of 1A to 15A. On-board circuit breakers serve as a fail-safe for RVIA wiring standards and do not need to be serviced.

It is also possible to configure a reversing output to drive another electric accessory using low-current digital inputs, such as an LCI V-Sync slide controller or a similar function. If this configuration is desired, the fuse selection for that output must be configured for "low-current mode" by setting the fuse value to 1A. However, setting a reversing output to low current 1A will disable short-to-ground diagnostics.

1. Scroll down to the FUSE TYPE section (Fig. 4A).
2. Press NOT SET (Fig. 4B) to display options available for that output.
3. Select the correct fuse assignment.
 - A. Latching outputs can be configured to 1A Digital Output, 2A, 3A, 4A or 5A (Fig. 4).
 - B. Reversing output fuses can be configured to 1A Digital Output, 2A, 3A, 4A, 5A, 6A, 7.5A, 10A or 15A.
4. Press the blue SET button (Fig. 4A) on the right.
5. A Saved! message indicates the fuse has been set.
6. A Loaded! message will appear for outputs that have been assigned a fuse value.
7. Once complete, press the Home icon in the center of the bottom row of the touchscreen (Fig. 4C) to exit the configurator.



Troubleshooting

What Is Happening?	Why?	What Should Be Done?
Missing icons	Power disconnected	Verify adequate 12V power and ground to the appropriate module.
	Loose CAN harness connections	Verify the CAN data harnesses are connected. Remove the data harnesses and re-seat them. Make sure connector pins are not loose.
Missing slide icon	Bad or disconnected controller	Verify all slide controllers are connected and functional. Replace bad controller.
Selected function does not operate	Function is locked out	If the icon is present, but will not operate on the touchscreen, it may be locked out because the ignition is on. Turn ignition off.
	Function already open	If icon is present, but grayed out, the function could be open on a smart device connected to the OneControl app. Close function on smart device.
	Wrong fuse setting	In the configurator, verify the fuse has been set to the appropriate setting for that function.
On/Off feature turns on, but immediately turns off	Wrong fuse value	In the configurator, make sure the proper fuse value has been set for that output.
Touch panel will not power up	No fuse	Make sure the 5A fuse in the power center is present and intact.
	Loose fuse	Re-seat loose fuse.
	Blown fuse	Replace fuse.
Heat pump will not operate and switches to gas heat	Defaults to gas heat because certain conditions are not met	The outside temperature must be above 47° F.
		The set point cannot be more than 8° F above the current zone temperature; e.g., climate zone temperature is 68° F, then the set point cannot exceed 76° F.

Technical Data

Rating	Symbol	Min	Typ	Max	Unit	Conditions
Operating Supply Voltage	V _{BATT}	9	13.8	16	VDC	
Reversing Output Load Current*	I _{LOAD}	0.030	18.75 21.2 22.7		A	2 minute shutdown* 20 second shutdown* 8 second shutdown*
In-Rush Time (reversing outputs)	T _{IR}		80		milliseconds	Maximum time for motor in-rush current. Software over current monitoring starts AFTER this time has elapsed.
Lighting Output Current	I _L		5		A	Fused per output.
Impedance of external driven in "low-current mode"	R _{ILC}	300	620	2000	Ohms	Only for use when fuse assignment is set to "low-current mode."
Digital Input Impedance	R _{IN}		620		Ohms	All switch inputs.
Digital Input Voltage	V _{IDI}	10	13.5	16	Volts	All switch inputs.
Output Load Current - HVAC	I _{HVAC}		1.0		A	Relay power is provided by furnace or HVAC, but is limited by on-board self-resetting fuse.
Output Sink Current - Generator	I _{GEN}		1.0		A	Active Low (sinking) outputs.

*The I_{LOAD} is the maximum allowable output current. The reversing outputs are individually monitored for over-current conditions, and are restricted by onboard circuitry to prevent damage to the controller and/or attached devices. When these limits are exceeded, the onboard circuitry will shut down the output and a mandatory 30-second cool-down period is activated. The output cannot be reactivated during the cool-down period. Once the cool-down period expires, the user can reactivate the output by releasing and reapplying the activation output.



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For all concerns or questions, please contact
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Follow proper safety practices. If in doubt, consult a professional RV technician.