



CONNECTANYWHERETM
— WITH BLUE LABEL
OEM INSTALLATION MANUAL

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Introduction

The Lippert ConnectAnywhere™ system adds online access and remote control functionality to any RV equipped with a data package and/or mobile Internet connection†. The system connects Lippert OneControl® branded electronic controls to the OneControl Cloud, enabling remote access, management and control over select features of the RV.

For remote access to the OneControl Cloud, the ConnectAnywhere system requires an active cellular data package†.

†A data package is not included. System coverage is subject to carrier coverage map.

Safety

Read all installation instructions before starting product installation. Adhere to all safety notices to prevent serious personal injury and/or product damage. Failure to follow installation instructions and safety notices may void product warranty.



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



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

Preparation

Resources Required

- Electric or cordless drill or screw gun
- Phillips head screw driver
- Appropriate drill bits
- Appropriate drive bits
- #8 - 3/4" screws

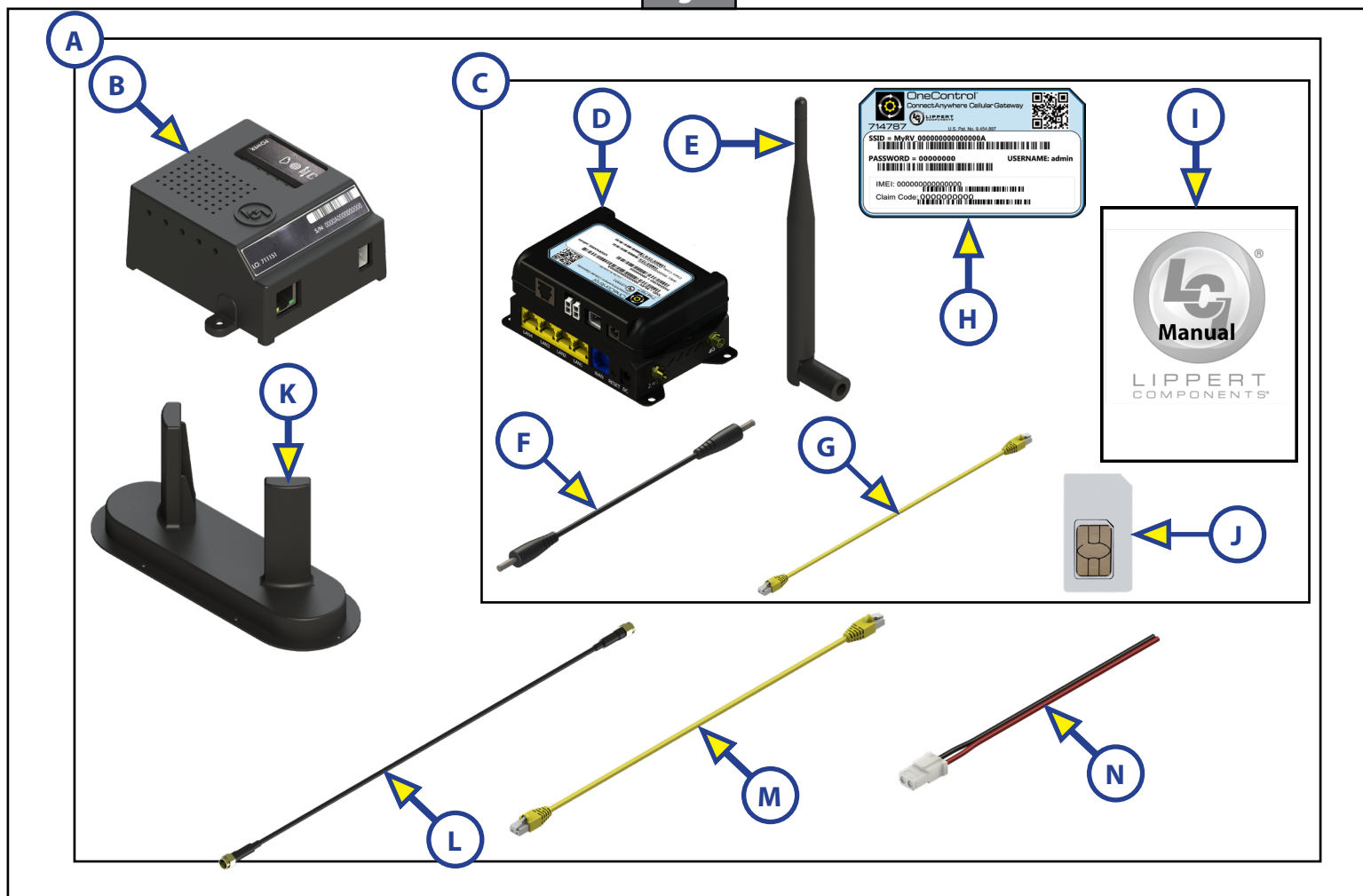
Installation

Refer to figure 1 for part numbers, descriptions and callouts of individual parts comprising kit 714393.

Wiring Diagram

Refer to figure 2 for the wiring diagram showing required ConnectAnywhere system connections.

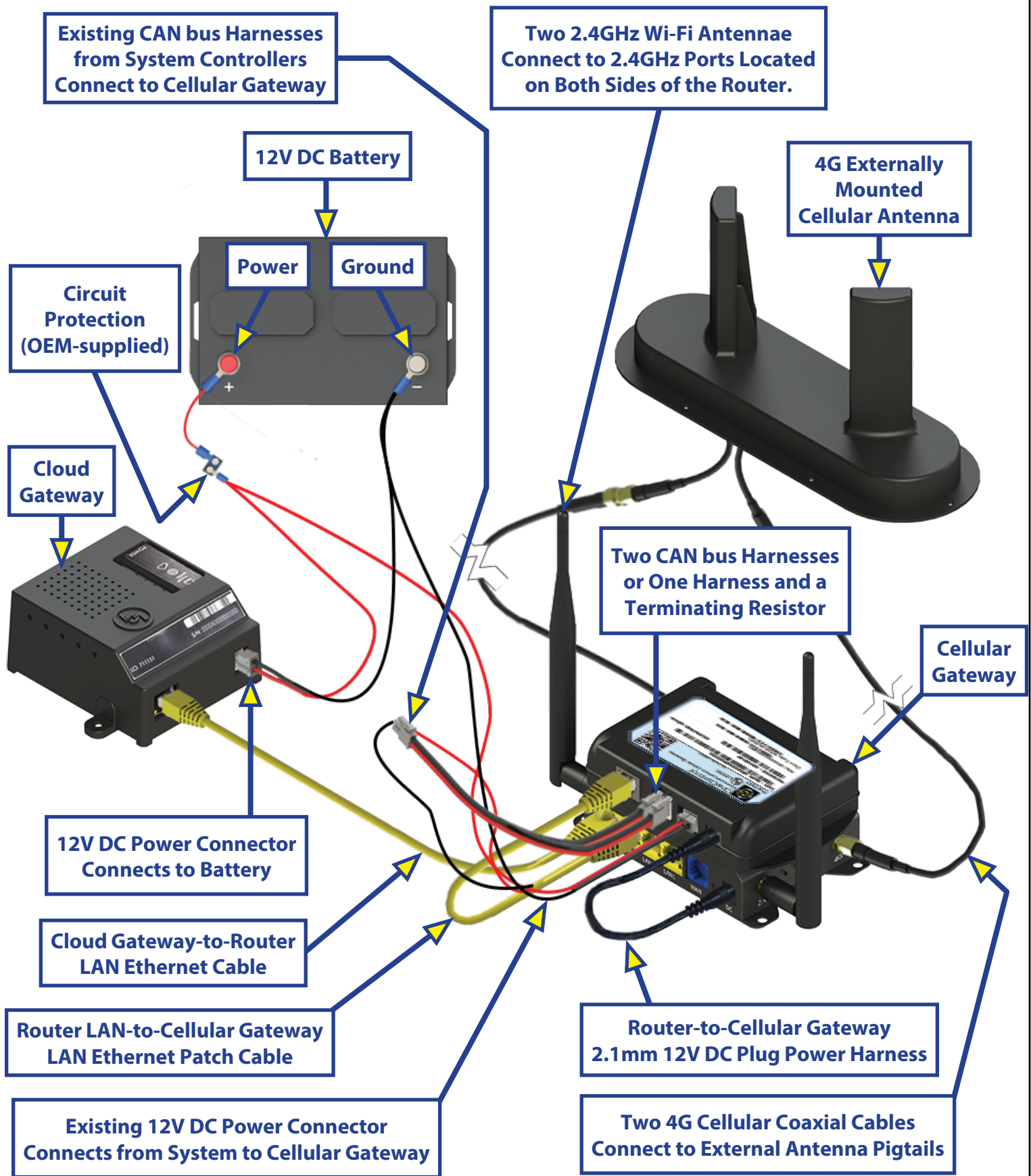
Fig. 1



Callout	Part #	Description	Qty
A	714393	Lippert ConnectAnywhere Kit - 10-foot	1
B	711151	LCI Cloud Gateway	1
C	714787	Cellular Gateway Kit	1
D	769580	Cellular Gateway Assembly (part of C)	1
E	722251	2.4GHz Wi-Fi Antenna (part of C)	2
F	766122	2.1mm DC Plug-to-2.1mm DC Plug Power Harness (part of C)	1
G	767657	Ethernet Patch Cable (part of C)	1
H	786925	Cellular Gateway Duplicate Label (part of C)	1
I	CCD-0001447	ConnectAnywhere Owner's Manual (part of C)	1
J	794749	LCI SIM Card (part of C)	1
K	722255	4G External Antenna	1
L	715645	SMA M/M Cellular Coaxial Cable, 10 ft	2
M	716727	Router Ethernet Cable	1
N	329080	CAN bus Power Connector	1

NOTE: Part numbers are shown for identification purposes only. Not all parts are available for individual sale. All parts with a link to the Lippert Store can be purchased.

Fig. 2



Hardware Installation

1. Choose a suitable location inside the unit to install the Lippert Cloud Gateway and the Cellular Gateway. The location should be out of the way—cabinet, pass-through compartment, etc.—and provide access to both the unit's CAN bus system and the Internet hotspot/modem. Make sure the location allows enough room to comfortably install all controls and wiring without cable kinks.

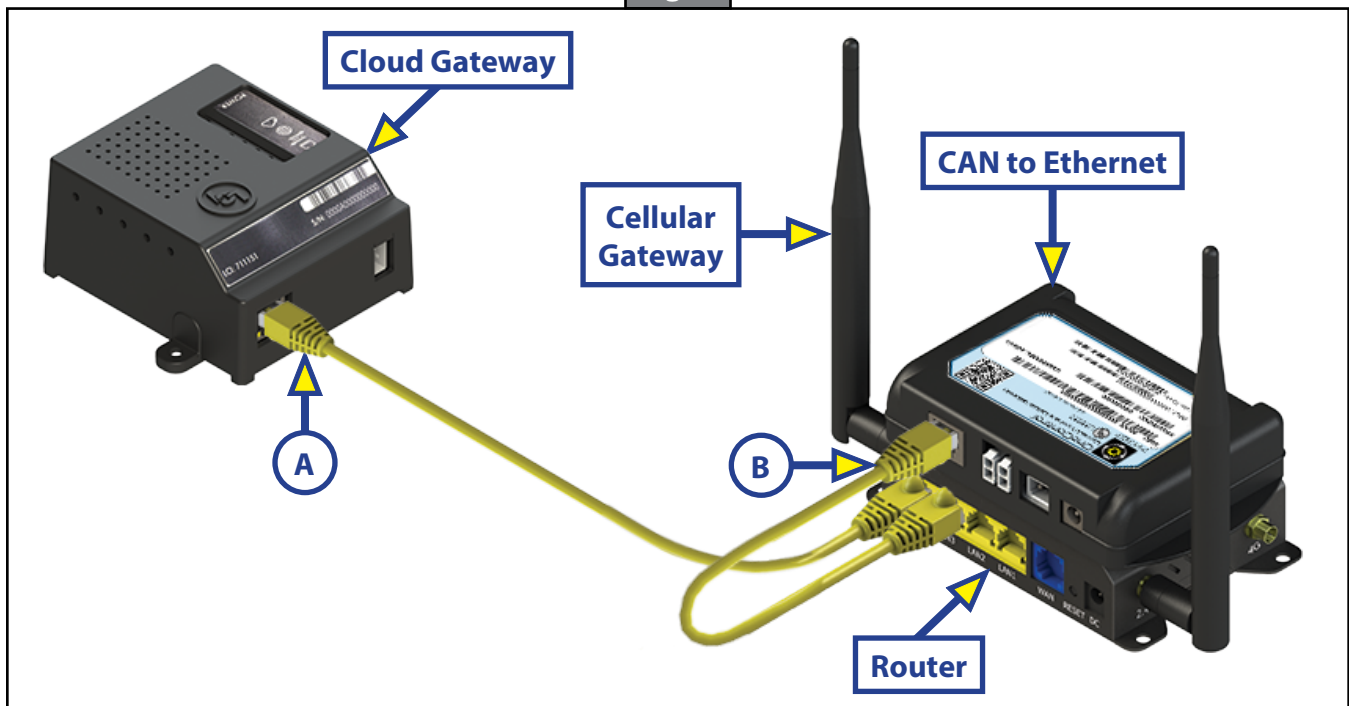
NOTE: Choose a location where the **Claim Code** (KCODE) can easily be read off of the product label (Fig. 3). Choosing a location which grants easy access to the devices will greatly aid troubleshooting the system after system installation. If the installation location is not easily accessible, make sure to affix a product label sticker to the inside of a cabinet door for convenience.

Fig. 3



2. Mount devices.
 - A. Make sure that the product labeling, **Claim Code** (KCODE), and indicator lights are easily visible from the mounting location.
 - B. Make sure cables are not kinked.
 - C. Use strain reliefs as necessary to secure cabling.
3. Using the supplied router Ethernet cable (Fig. 1H), connect the Lippert Cloud Gateway Ethernet port (Fig. 4A) to any router LAN (LAN1-LAN4) Ethernet port on the Cellular Gateway.
4. Using the kit-supplied Ethernet patch cable (Fig. 1G), connect any router LAN (LAN1-LAN4) Ethernet port to the Cellular Gateway LAN port on the Cellular Gateway (Fig. 4B).

Fig. 4

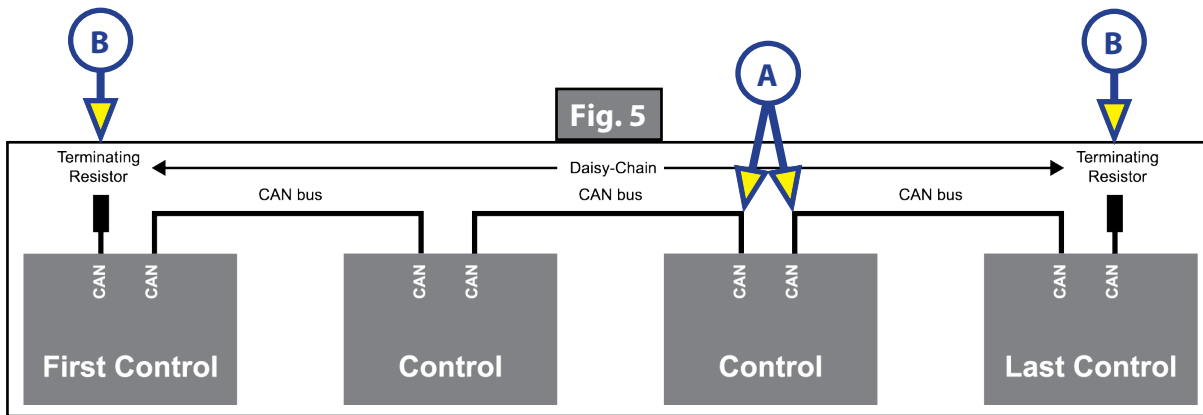


⚠ CAUTION

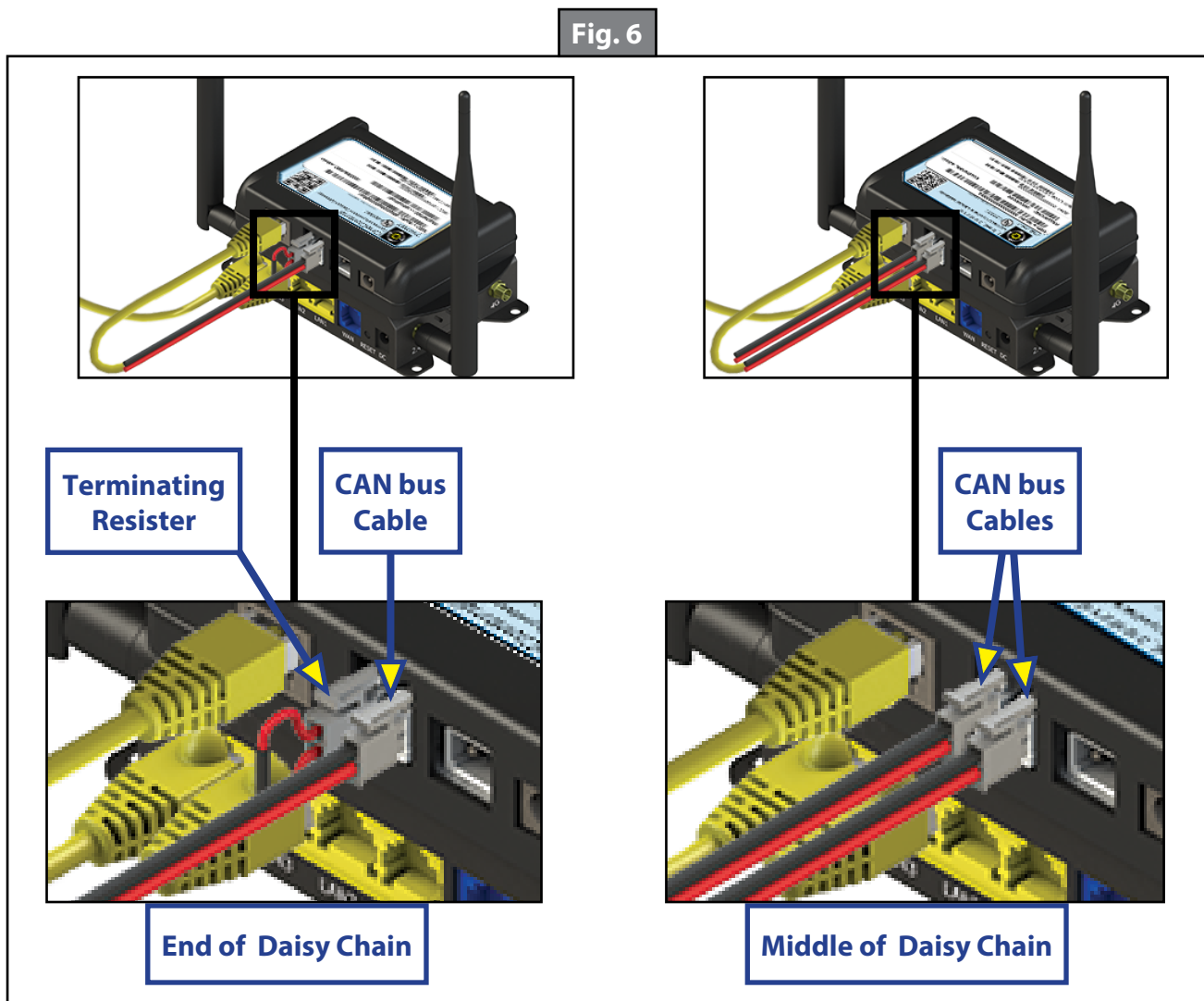
Terminating resistors are required for proper operation of the CAN bus system. Make sure terminating resistors remain installed.

5. Daisy chain the Cellular Gateway into the unit's CAN bus system (Fig. 5) as follows:

NOTE: The CAN bus wiring uses a daisy chain system, with each controller connected to the previous controller. In this configuration, each electronic control has two CAN connectors—daisy in/daisy out (Fig. 5A). The beginning and end of the daisy chain are terminated with a terminating resistor (Fig. 5B).



- A. Use a CAN bus cable to daisy chain the Cellular Gateway into the CAN bus system (Fig. 6).



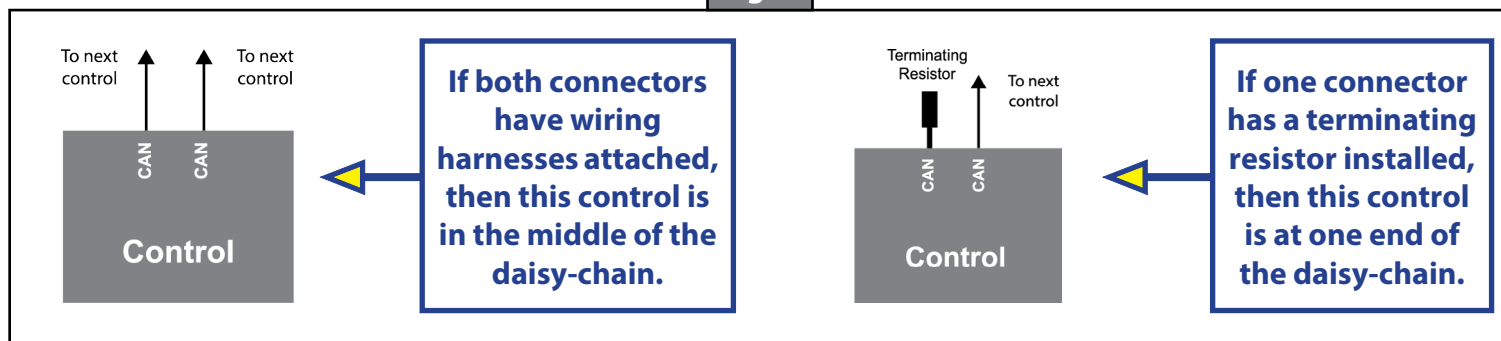
- B.** Locate the nearest Lippert OneControl electronic controller installed in the unit. This could be an Lippert leveler, multifunction relay control, tank monitor, etc. Locate the two CAN bus daisy chain connectors on the controller.

⚠ CAUTION

If one or both CAN connectors are empty, your unit's CAN bus is wired wrong. STOP! Contact Lippert Support for assistance.

- C.** Determine if the existing controller is located in the middle or at the end of the CAN bus daisy chain (Fig. 7).

Fig. 7



- D.** Connect the Cellular Gateway to the daisy chained CAN bus as follows:

- I.** If the controller is in the middle of the chain (Fig. 8), disconnect one of the CAN bus cables from the existing controller (Fig. 9).

NOTE: It does not matter which cable is moved.

- a.** Reconnect the (old) cable to the Cellular Gateway (Fig. 9A).

NOTE: It does not matter where the cable is plugged into on the Cellular Gateway.

Fig. 8

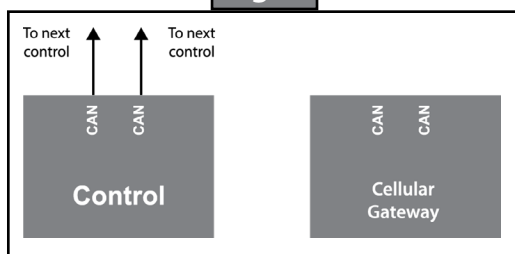
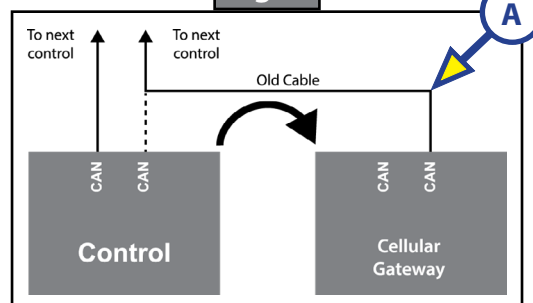
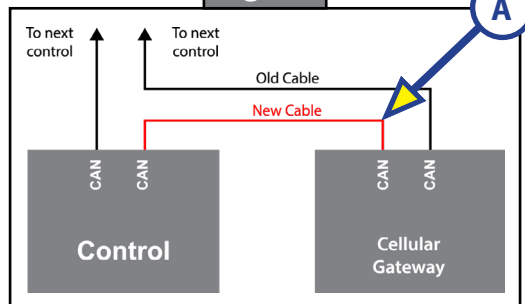


Fig. 9



- b.** Connect a (new) CAN bus cable between the existing controller and the Cellular Gateway (Fig. 10A).

Fig. 10

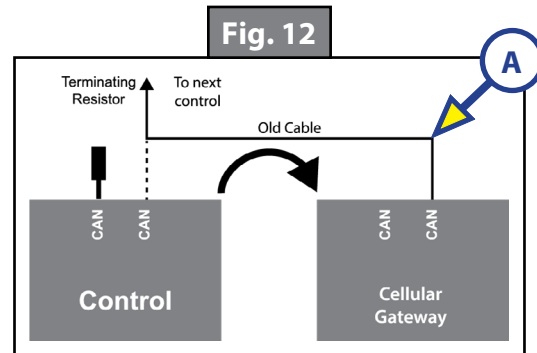
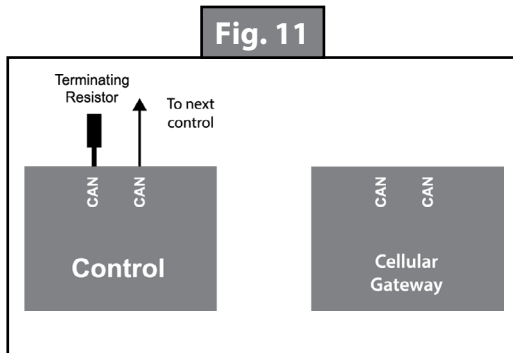


- II. If the controller is at the end of the chain (Fig. 11), disconnect the CAN bus cable from the existing controller (Fig. 12).

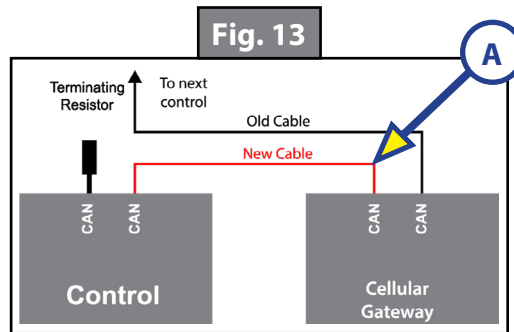
NOTE: Take care not to disconnect the terminating resistor.

- a. Reconnect the (old) cable to the Cellular Gateway (Fig. 12A).

NOTE: It does not matter where the cable is plugged into on the Cellular Gateway.



- b. Connect a (new) CAN bus cable between the existing controller and the Cellular Gateway (Fig. 13A).



- E. Make sure all CAN connectors are populated and all connections are solid.

NOTE: Two CAN connectors are present on every OneControl electronic module. Both connectors **MUST** be populated for the system to operate.

6. Apply power.

- A. Connect the CAN bus power cable (Fig. 1J) to the system's 12V DC power source.
B. Plug the CAN bus power harness into the Lippert Cloud Gateway (Fig. 14A).
C. Plug the system's existing CAN bus power cable into the Cellular Gateway (Fig. 15A).

Fig. 14

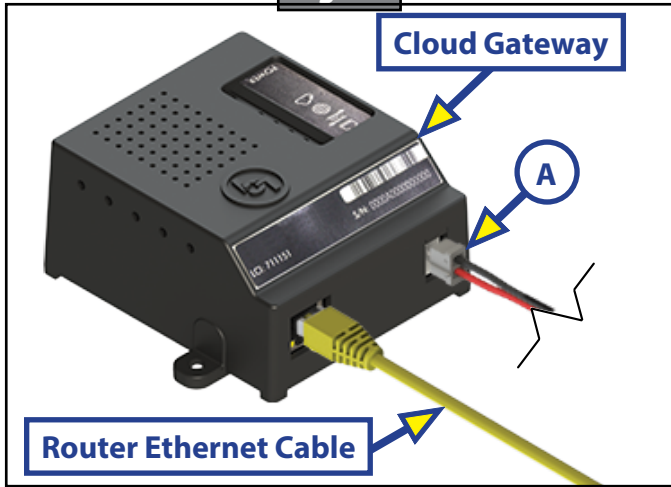
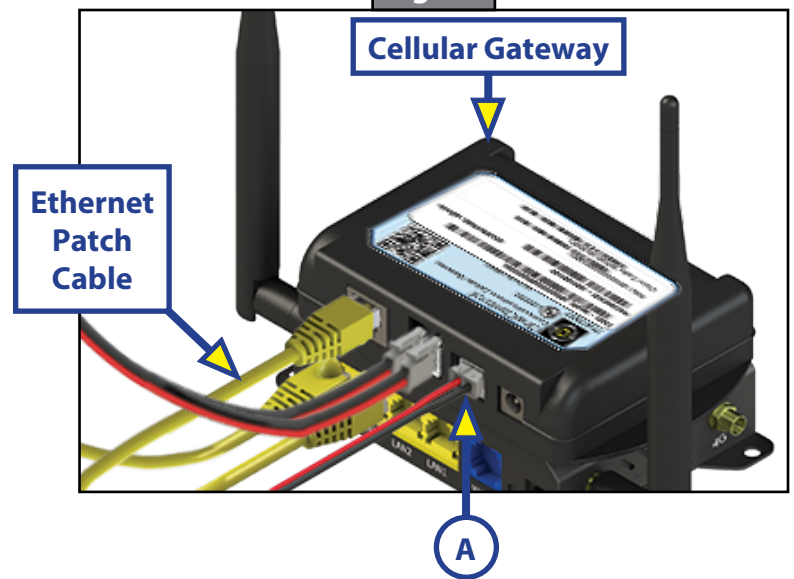


Fig. 15



⚠ CAUTION

If one or more LEDs are not showing proper indication, then the installation is incorrect. The installation concern must be corrected before the unit can be accessed remotely.
See the Troubleshooting section for additional information.

7. Verify the installation is correct by checking the LEDs on the Lippert Cloud Gateway (Fig. 16) and by referencing the Cloud Gateway Status Chart.

NOTE: Wait for the system to finish booting before checking LED status. This takes approximately one minute.

NOTE: Depending on installed system configuration, some LEDs may not light.

Fig. 16



Cloud Gateway Status Chart			
LED	Description	Expected Color	Meaning
POWER	Power On/Off	 Green	Green indicates unit is powered and healthy.
	Local Area Network (LAN) Status	 Green	Green indicates that Ethernet is connected and the LAN is working.
	CAN bus Status	 Green	Green indicates that the CAN bus is connected and working.
	Connection to Internet	 Green	Green indicates that the connection to the Internet is working.
	Connection to OneControl Cloud	OFF,  Green or  Orange	OFF, Green or Orange indicates status of connection to the OneControl Cloud.
Spare	Unused	Unused	Reserved for future use.

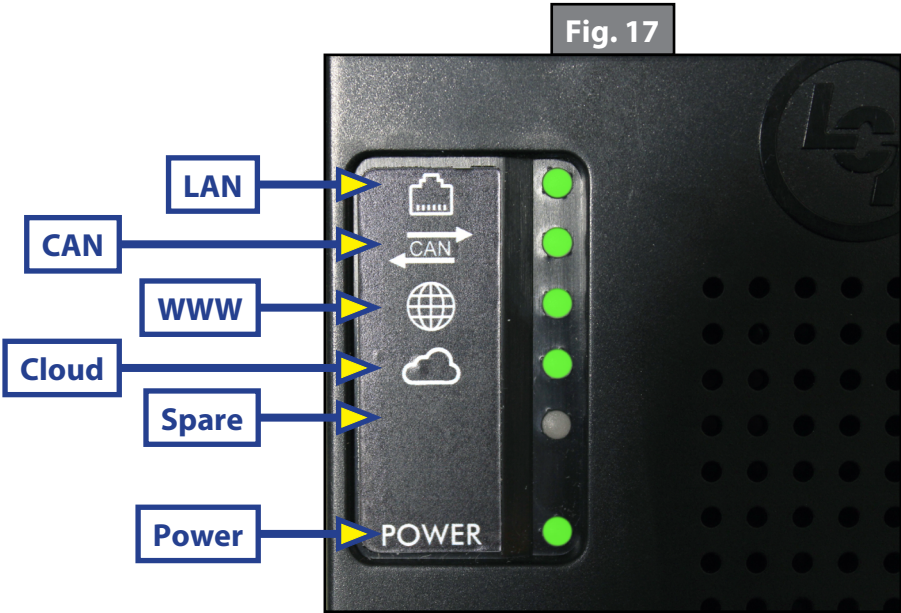
- If necessary, troubleshoot the installed system until all pertinent Lippert Cloud Gateway status LEDs show proper status.
- If all necessary system Lippert Cloud Gateway LEDs show proper status, then system hardware installation is complete.

Troubleshooting

Lippert Cloud Gateway

Most concerns with the Lippert Cloud Gateway can be diagnosed by checking the indicator lights (Fig. 17) on the top of the box.

The color of each LED indicates the status of that feature. The highlighted row indicates the "healthy/default" color of the LED during proper system operation.



ConnectAnywhere Cloud Gateway Troubleshooting Chart

LED	Description	Expected Color	Why?	What Should Be Done?
POWER	System Power Status	 Red	Reserved.	No action required.
		 Orange	Reserved.	No action required.
		 Green	OneControl Cloud Gateway is powered.	No problems.
		OFF	OneControl Cloud Gateway is not powered.	Check power connector for good electrical connection.
				Make sure the 12V DC power source is powering the OneControl Cloud Gateway.
				Check the system's fuse panel.
	Local Area Network (LAN) Status	 Red	OneControl Cloud Gateway cannot access the LAN via the Ethernet cable.	Check OneControl Cloud Gateway Ethernet cable for proper connection.
				Check Ethernet-to-router connection.
				Make sure router is powered and working properly.
		 Orange	OneControl Cloud Gateway cannot locate the CAN to Ethernet Gateway on the LAN.	Check CAN to Ethernet Gateway for proper LAN-to-router connection.
				Check CAN to Ethernet Gateway for good power connection.
				Make sure the CAN to Ethernet Gateway is powered by the 12V DC power source.
	CAN bus Status	 Red	CAN to Ethernet Gateway cannot be found on the LAN.	Check the system's fuse panel.
				Make sure the CAN to Ethernet Gateway is powered by the 12V DC power source.
				Check CAN to Ethernet Gateway for good power connection.
				Check CAN to Ethernet Gateway for proper LAN-to-router connection.
		 Orange	CAN to Ethernet Gateway is working, but no CAN bus traffic is being detected.	Check for bad CAN bus connection.
				Check CAN to Ethernet Gateway CAN bus connections for good connectivity.
				Make sure CAN to Ethernet Gateway is correctly daisy chained to CAN bus system.
				Make sure unit CAN bus system has termination resistors at both ends.
				Make sure the ConnectAnywhere system has been installed correctly and in accordance with installation instructions outlined herein.
				In rare instances, unit devices may be in a power-down state and not generating any CAN bus traffic—make sure unit mains are on.
		 Green	CAN bus is working properly.	No problems.
		OFF	Reserved.	No action required.

ConnectAnywhere Cloud Gateway Troubleshooting Chart

LED	Description	Expected Color	Why?	What Should Be Done?
	Internet Connection Status	 Red	No Internet connection is detected.	Check Internet hardware for proper operation.
				Plug a laptop computer into the LAN, then use a browser to verify Internet browsing capability.
				Check with cellular/satellite service provider to ensure data service is activated and working properly.
		 Orange	Internet connection detected, but the hardware cannot make a successful connection to the OneControl Cloud.	This is an uncommon error. This error may indicate a mis-configured router firewall, blocking traffic to/from the cloud. Check firewall settings.
				Check router settings to ensure proper operation.
		 Green	Internet connection detected and working.	Plug a laptop computer into the LAN, then use a browser to verify Internet browsing capability.
	OneControl Cloud Connection Status	 Red	Reserved.	Connection to the OneControl Cloud is established. No problems.
				Check power connector for voltage and good connection.
		 Orange	A remote user is actively accessing the unit through the cloud.	Check the system's fuse panel.
		 Green	A remote user is actively accessing the unit through the cloud.	
Spare	Unused Indicator Status	 Red	Reserved.	No action required.
				No action required.
				No action required.
				No action required.



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Ph: 432-LIPPERT (432-547-7378) | Web: lippert.com | Email: customerservice@lci1.com



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