



LIPPERT INSIGHT™
BACK-UP CAMERA OPERATED
WITH COMPASS CONNECT®
BY GRAND DESIGN
OEM INSTALLATION MANUAL

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Introduction

The Lippert Insight™ Back-up Camera is a 12V camera that streams wireless video to a mobile device using the Compass Connect application showing the rear view of the trailer.

Additional information about this product can be obtained from lci1.com/support or by using the LippertNOW app.

The LippertNOW app is available for free on Apple App Store® for iPhone® and iPad® and also on Google Play™ for Android™ users.

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

<https://support.lci1.com/lippert-insight-back-up-camera>

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, including voiding of the Lippert limited warranty.

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.

CAUTION

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

Resources Required

- Ladder
- Mobile device
- #8 panhead screws of appropriate length
- Wire strippers (if needed)
- All-weather silicone sealant

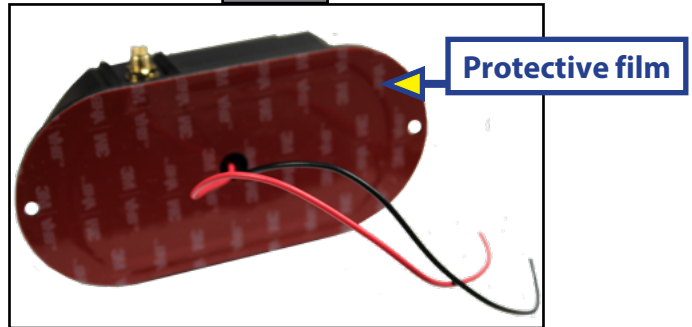
Installation

1. Locate a mounting area that allows electrical connection of the camera (Fig. 1) to the trailer's power source and allows the camera lens to have a clear view of the rear area.
2. Prepare the trailer and camera for installation:
 - A. Clean the area on the trailer where the camera will be mounted and allow to dry.
 - B. With the antenna base facing up, rotate the camera into a downward viewing angle (Fig. 1).
 - C. Remove the protective film tape on the back of the camera.

Fig. 1



Fig. 2

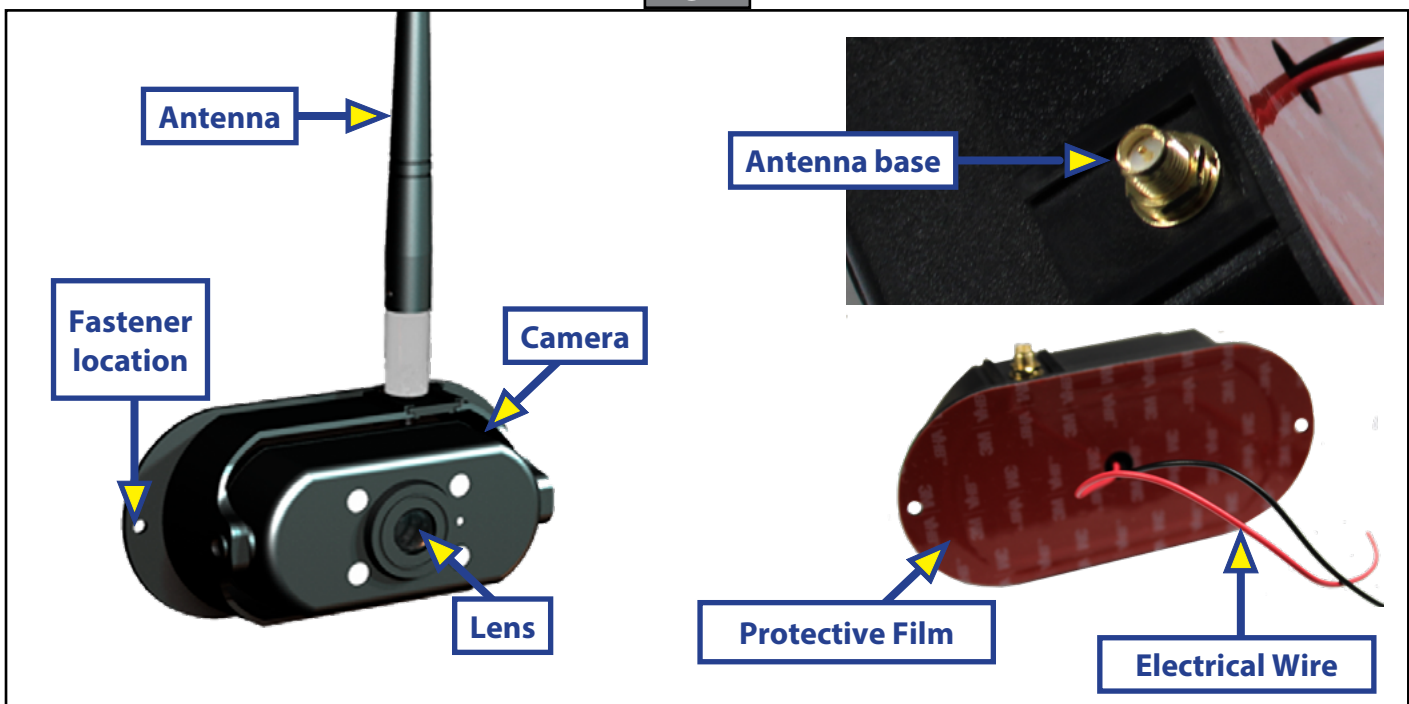


3. Drill a hole to access the unit's ground wire and power supply and apply silicone sealant to the hole.
4. Make sure the trailer's power is off, then connect the camera's red power wire and black ground wire to the unit as follows (Fig. 3).

Note: If necessary, use wire strippers to expose enough of the bare wire to make a good connection.

- A. Connect the camera black wire to the unit ground wire.
 - B. Connect the camera red wire to a 12V DC power supply.
5. Secure the camera to the wall with two OEM-supplied #8 pan head screws.
 6. Use all weather silicone sealant and seal around the perimeter of the camera and the heads of the panhead screws.
 7. Screw the antenna clockwise to the antenna base on the camera (Fig. 3).

Fig. 3



Camera Setup

Note: In order for the back up camera to function, the running lights must be ON. The camera requires power in order to operate, and the running lights are the typical power source.

1. Download and install the Lippert Compass Connect app (Fig. 4) for either an iOS or Android mobile device.

Note: Make sure that Wi-fi on the smart device is turned on.

2. Start the Lippert Compass Connect app by tapping the Compass Connect icon (Fig. 5A) to launch the app.

Fig. 4

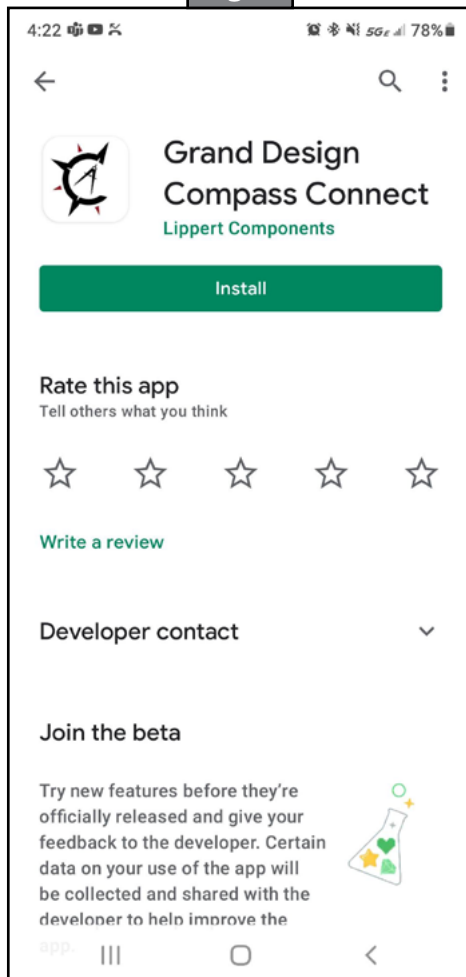
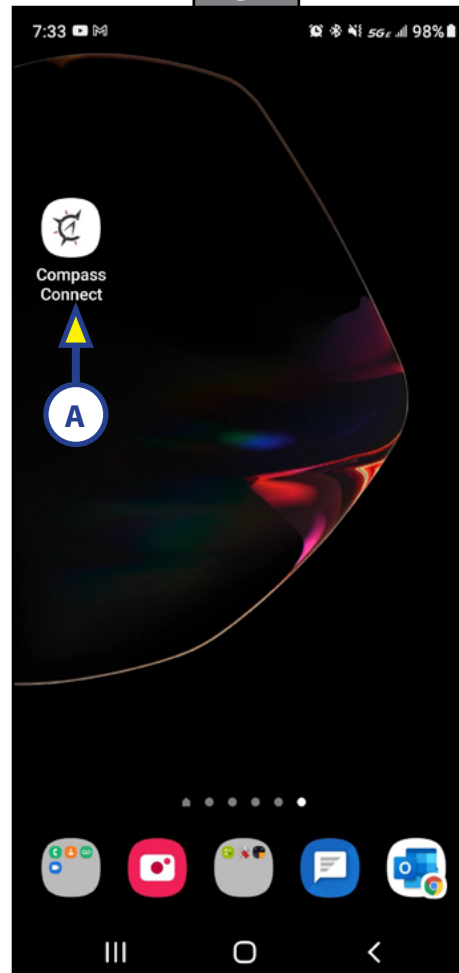


Fig. 5



3. Read through and accept the License Agreement by tapping I Accept>> (Fig.6A).
4. Login to access the camera by tapping Login>> (Fig. 7A).
 - A. If you have an existing community account, fill in your email and password for that account and tap Login (Fig. 8A).
 - B. Or continue with Facebook, Google, Apple ID, or Create Your Account (Fig. 8B).
5. Begin connecting the Compass Connect app to the new camera by tapping Let's Go>> (Fig. 9A).

Fig. 6

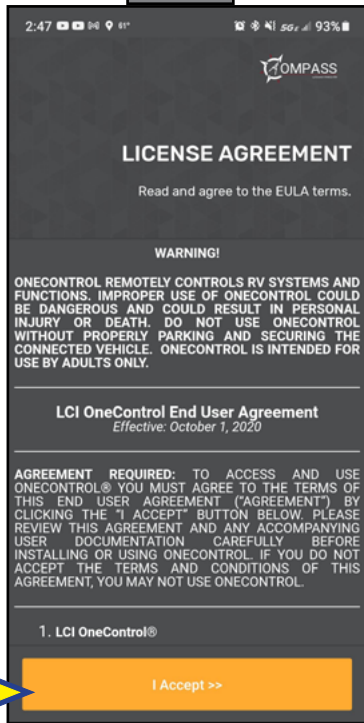


Fig. 7

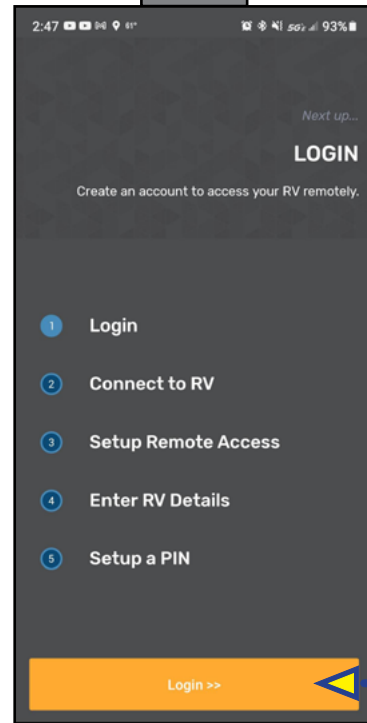


Fig. 8

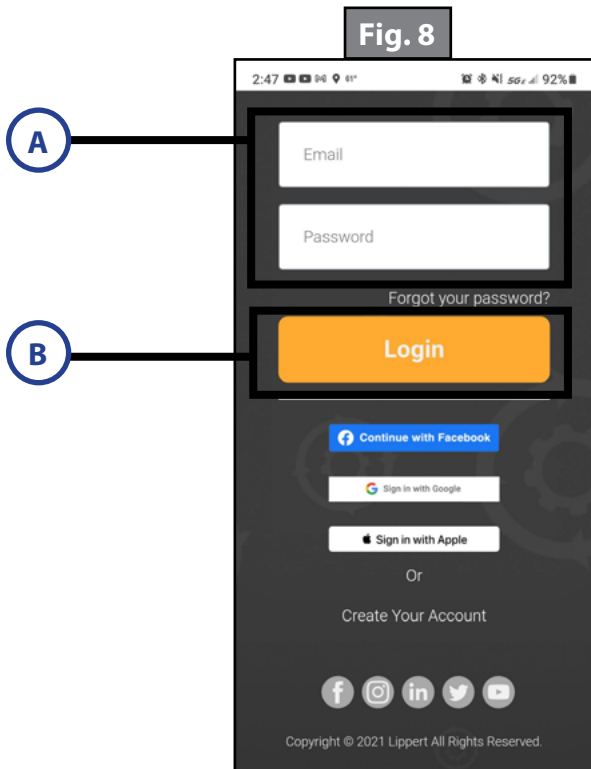
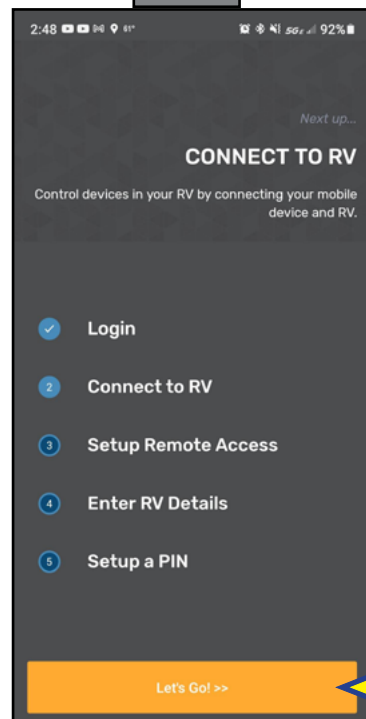


Fig. 9



6. Choose Scan with Camera (Fig. 10A).
 - A. Tap Grant Location Permissions (Fig. 11A) and grant location permissions to the app.
 - B. Tap Grant Camera Permissions (Fig. 11B) and grant camera permissions to the app.
7. Scan the gateway label (Fig. 12). This label is found on the bottom of the camera (Fig. 13A) and also on a sticker placed in the unit by the OEM.

Fig. 10

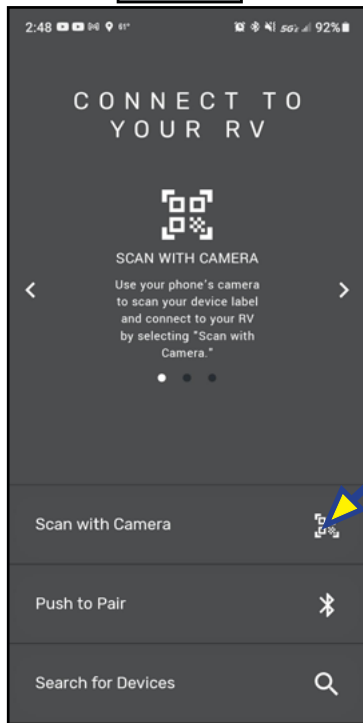


Fig. 11

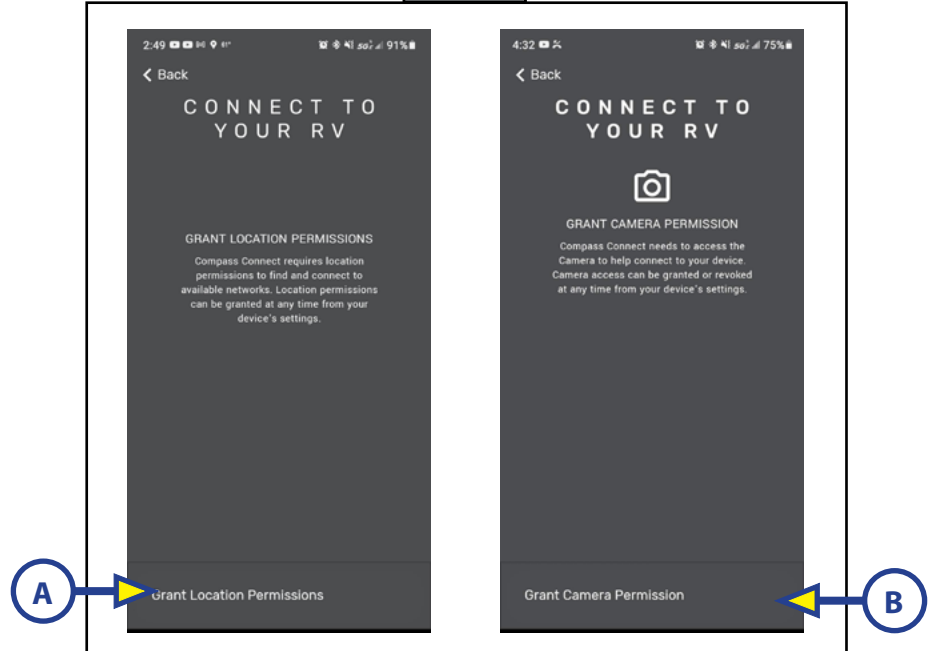


Fig. 12

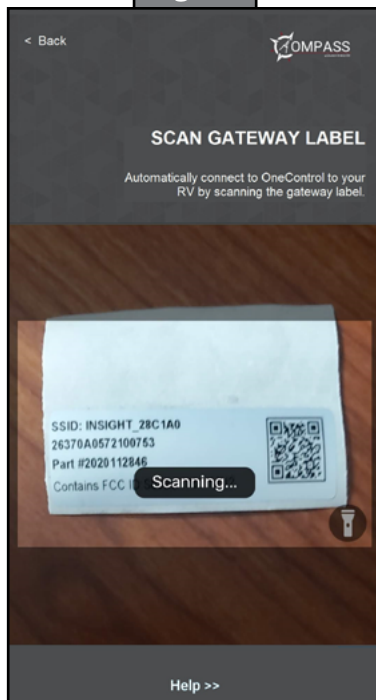


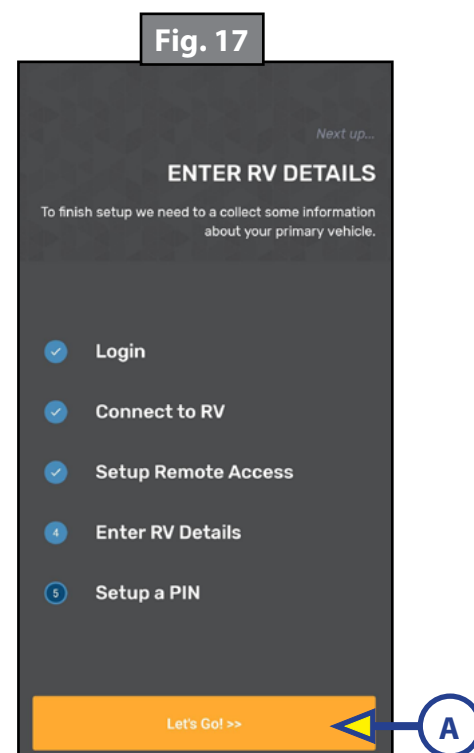
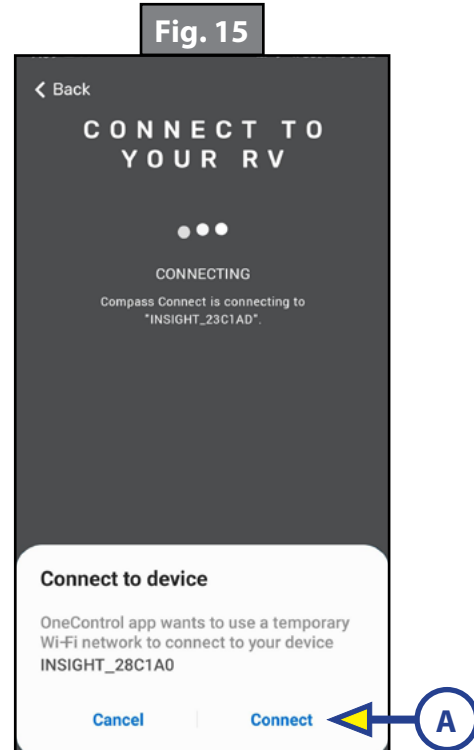
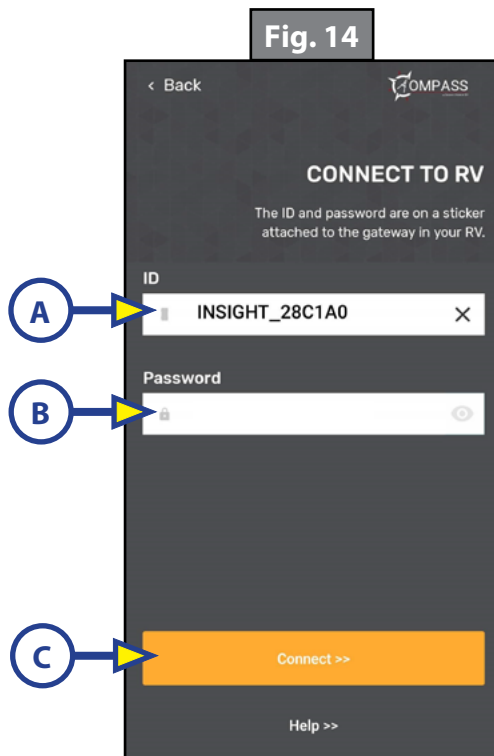
Fig. 13



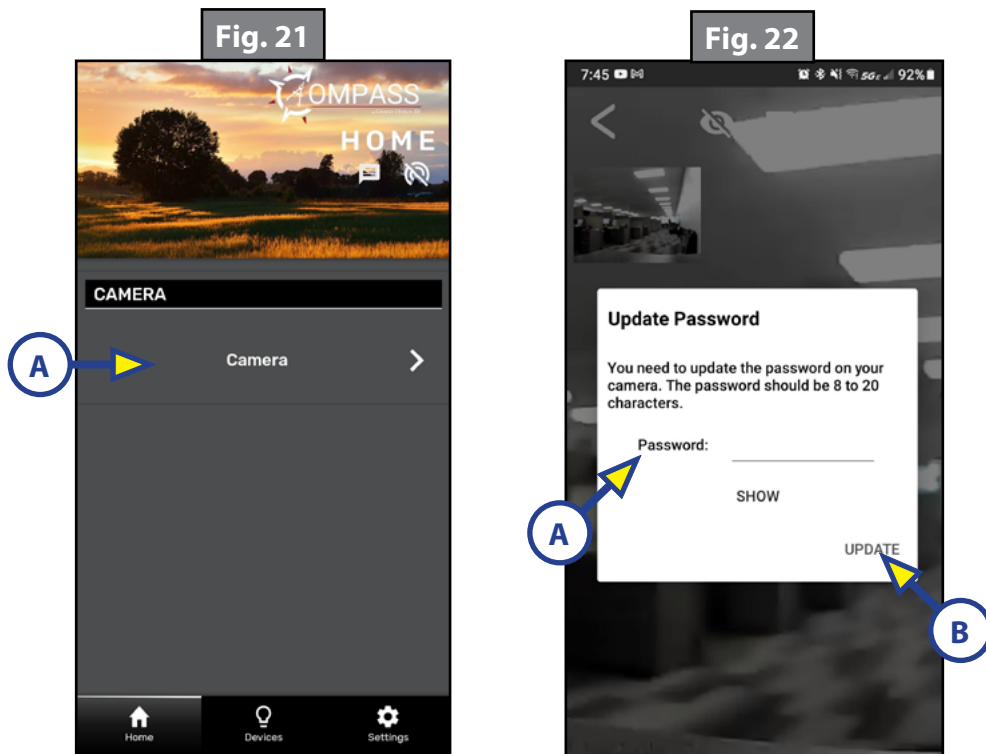
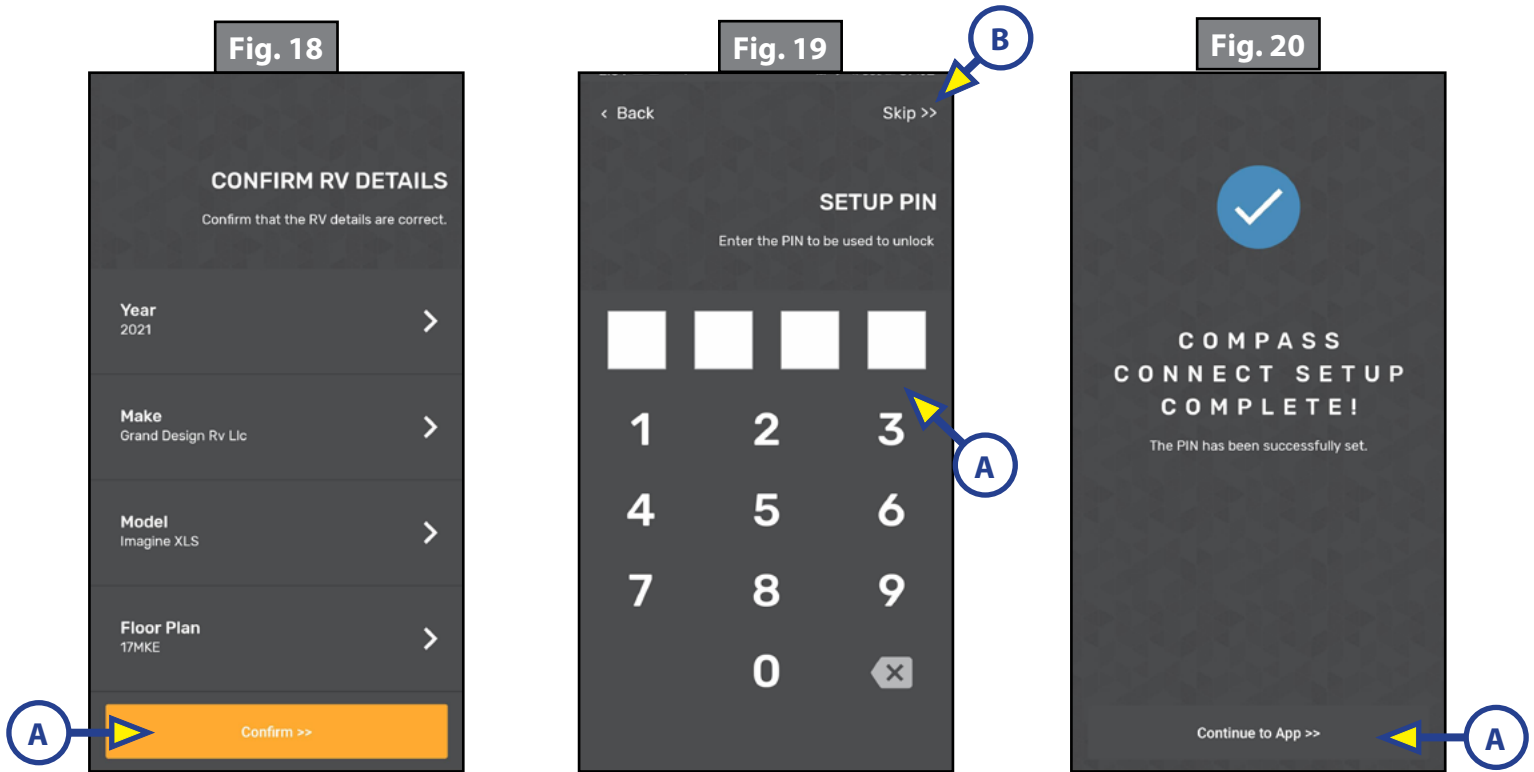
8. The ID field will auto populate with the camera's SSID number (Fig. 14A) and the Password field (Fig. 14B) will be blank. No password is needed at this time. Tap Connect>> (Fig.14C).

Note: Be sure that the mobile device's Wi-fi is turned on. If it is not, the app will prompt you to turn it on.

9. The app will ask to connect mobile device to a temporary Wi-fi network, this is the camera. Tap Connect (Fig. 15A).
10. RV Connected Successfully should now be showing on your mobile device. Tap Continue>> (Fig. 16A).
11. Tap Let's Go>> (Fig. 17A) to enter the Year, Make, Model, and Floor Plan of your RV.



12. Confirm the details entered by tapping Confirm>> (Fig. 18A).
 13. Set up a 4 digit security pin for the Compass Connect app (Fig. 19A).
- Note:** You can skip the Pin Setup by tapping Skip>> (Fig. 19B).
14. Compass Connect app setup is now complete, tap Continue to App>> (Fig. 20A).
 15. Tap Camera (Fig. 21A) to open the back up camera view.
 16. The app will now ask you to set up a password for connection to the back-up camera (Fig. 22A). Enter a password that is at 8 characters but no more than 20 characters in length.
 17. Tap Update (Fig. 22B).



⚠ CAUTION

Adhere to all product or tool safety labels and weight limits to prevent possible personal injury. Do NOT exceed product/tool weight limits.

Operation

In order for the back up camera to function, the running lights must be ON. The camera requires power in order to operate, and the running lights are the typical power source.

Note: The Lippert Back-up Camera is adjustable for acceptable visibility.

1. With a ladder, climb to location of the camera which is located on the back of unit (Fig. 23).
2. Rotate camera up or down to achieve the desired view (Fig. 24).

Fig. 23

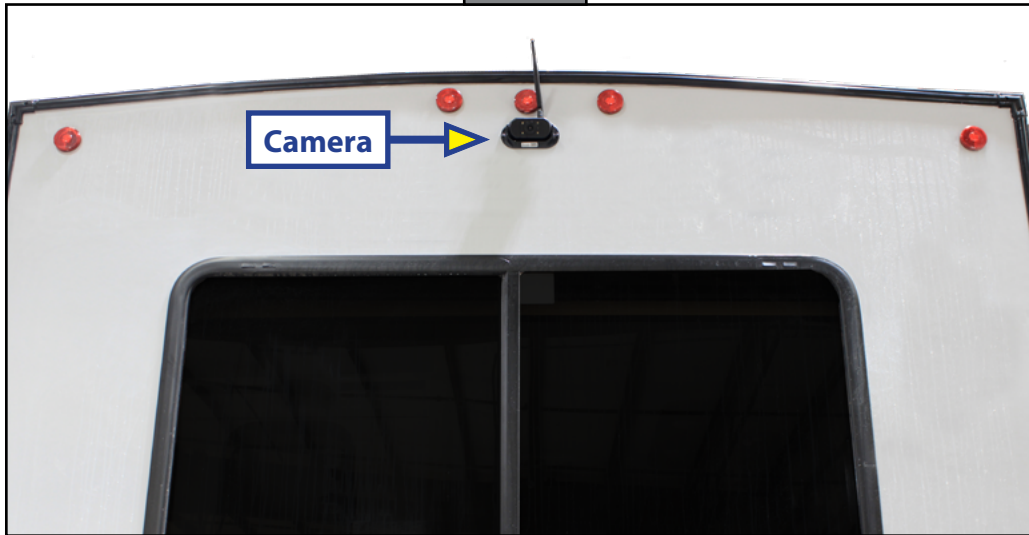


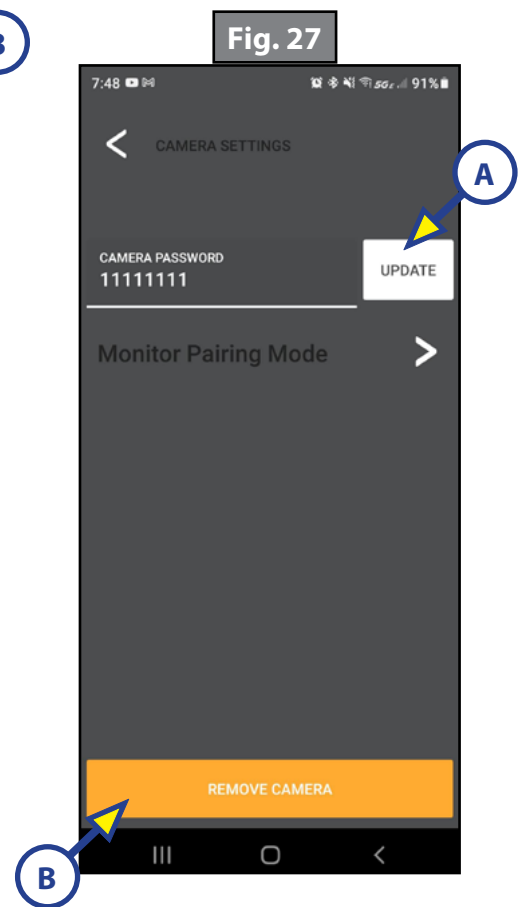
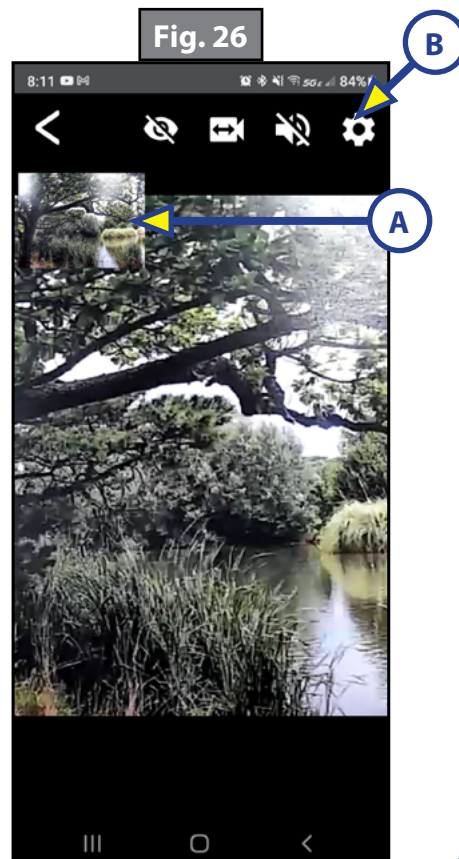
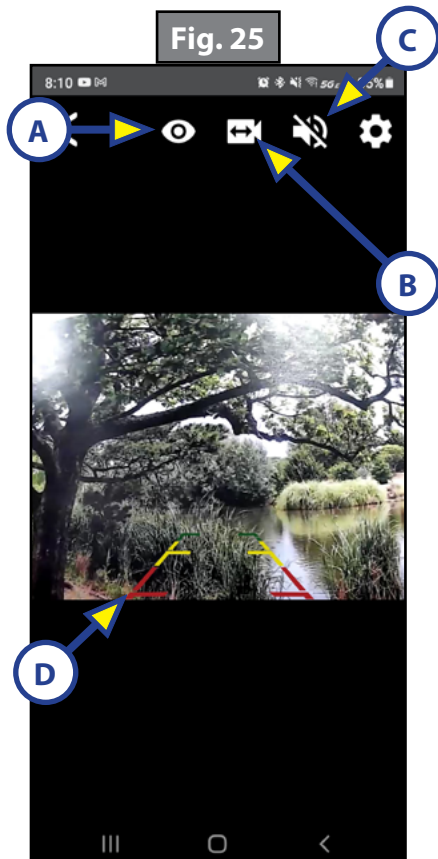
Fig. 24



3. When in full view (Fig. 25), you can use your thumb and index finger to "pinch zoom" the main viewing area of the camera (images displayed are for illustrative purposes only).
4. While zoomed in, a small full view window will appear in the upper right corner of the screen (Fig. 26A).
 - A. Use your index finger to move around the main zoomed in view.
 - B. Double tap the full view window (Fig. 26A) to return to full camera view (Fig. 25).
5. Tap the Eye icon (Fig. 25A) to toggle back up assist lines (Fig. 25D).
6. Tap the Camera icon (Fig. 25B) to switch to monitor mode.

Note: Separate monitor is needed for this option.

7. Tap the Speaker icon (Fig. 25C) to turn ON/OFF the audio function.
8. The gear icon (Fig. 26B) may be used to view the current password or change it if desired.
 - A. Input new password and tap Update (Fig. 27A).
 - B. Remove camera (Fig. 27B) will remove the camera connection to the Compass Connect app.



Troubleshooting

What is happening?	Why?	What should be done?
Mobile device does not connect to camera.	Camera not powered up.	Turn battery disconnect on. Connect to shore power. Connect 7-way too tow vehicle.
	Wi-Fi not turned on.	Make sure Wi-Fi is active on mobile device.
	SSID is not correct.	Check that the SSID in the ID field (Fig. 10) is the same as the SSID shown on the sticker (Fig 9A & 9B)
Camera not powering up.	Running lights are OFF.	Be sure running lights are ON. The camera requires power in order to operate, and the running lights are the typical power source.
Camera is displaying a blank screen after connection.	Another mobile device is connected to the camera.	Power down or restart other connected mobile devices.
	Cycle power to unit.	Remove power from camera for 2 minutes by cycling battery disconnect, disconnection and reconnection of shore power and the 7-way connector.
	Not connected to Wi-Fi.	Check Wi-Fi connections on mobile device. Connect to Wi-Fi network within mobile device's Wi-Fi manager, no password needed.
	Mobile device disconnected from camera Wi-Fi due to lack of Internet connection.	Select "continue to use network", or "keep network and use mobile data" when menu pops up on mobile device.

If further assistance is required, please contact the Lippert Customer Care Center.

Camera reset

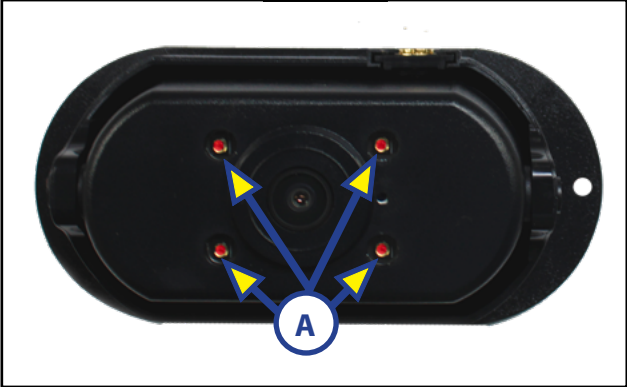
In the event that the password is forgot, lost, or is unknown to the current user, a reset procedure can be performed to reset the camera to a factory installation state. Perform the following steps:

- Press the reset button, located on the bottom of the camera (Fig. 28A), for 15 seconds.
Note: During reset, you should see the four red LEDs around the camera light up for approximately 1 second (Fig. 29A).
- Disconnect all power from the trailer for 2 minutes:
 - Turn off battery disconnect.
 - Disconnect shore power.
 - Disconnect the 7-way connection from the tow vehicle.
- After 2 minutes, restore power to the trailer and open up the Compass Connect app on your mobile device and select Camera (Fig. 21).
- When prompted, create a new password (Fig. 22).

Fig. 28



Fig. 29





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Follow proper safety practices. If in doubt, consult a professional RV technician.