



# ANTI-LOCK BRAKING SYSTEM (ABS)

## OWNER'S MANUAL



Scan for product support

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## Introduction

Anti-lock braking systems (ABS) are designed to improve stability of the trailer during severe braking events. When the ABS control is not active, or if there is no power to the ABS module, the tow brake signal from the vehicle will pass through to the trailer brakes, the same as on a trailer without ABS technology. When the ABS system detects a wheel is about to lock, the brake signal from the tow vehicle is reduced on that specific wheel, to maintain wheel rotation. The tow vehicle brake signal is monitored at all times, and a proxy load is in place, to ensure the ABS system maintains compatibility with all tow vehicle brake controllers.

The system can send notifications to the driver via the Lippert OneControl® RV or Auto mobile app.



Key features of the anti-lock braking module are:

- Module Autoconfiguration
  - o When the module is installed per the instructions, this feature will accurately predict tire size, track width, axle count and module orientation.
- True Course (When equipped)
  - o Excessive trailer sway can result in loss of control of the vehicle with potentially severe consequences. ABS and Lippert's True Course technology work in tandem to detect trailer sway and engage the trailer brakes independently of the tow vehicle to bring the trailer back under control. The system engages and disengages automatically, and always defaults to the tow vehicle brake input. ABS is constantly monitoring wheel speeds during a True Course activation.
- Dynamic Brake Boost (When equipped)
  - o Dynamic Brake Boost can temporarily boost brake torque during hard braking events to maximize trailer braking performance. In an emergency or sudden braking event, delivering the maximum brake torque without locking the trailer brakes can decrease total braking distance.

**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.

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

<https://support.lci1.com/lippert-anti-lock-braking-abs-system>

## 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.**

# Operation & Setup

## Before You Begin

Once the module is connected to the tow vehicle and the trailer's 7-way connector, the tow control system is active. Connect to OneControl® Auto or RV app for system status and notifications. Real-time updates will be provided. There is a label placed on the bar code on the owner's tag that will have all the Bluetooth information. Ensure your Bluetooth setting on your smartphone is enabled prior to pairing.

## Determine Tow Scenario and Download App



Download and install the Lippert OneControl® RV or Auto app on a mobile smart device. Both apps are available on Apple App Store® for iPhone® and iPad® and also on Google Play™ for Android™ users.



**IMPORTANT:** Download and use the OneControl® RV app for RV applications and the OneControl® Auto app for trailer applications.



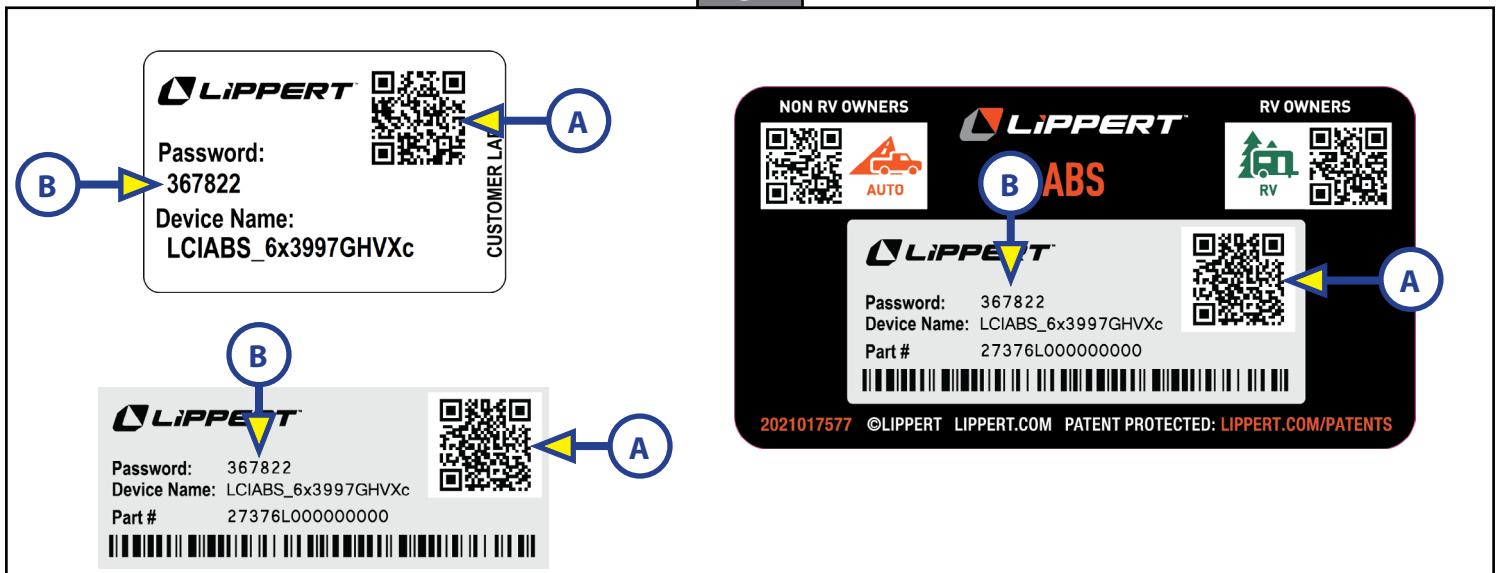
## App Setup for RV Users (OneControl RV)

1. Download the OneControl® RV app from the app store.
  - A. Read and agree to the license agreement.
  - B. Follow the prompts in the app for connecting to an existing account or creating a new account.
2. Locate the device's QR code (Fig. 1A) on a peel-off label typically placed in support documentation.

**NOTE:** QR code label may appear as one of the three variation as shown in Figure 1.

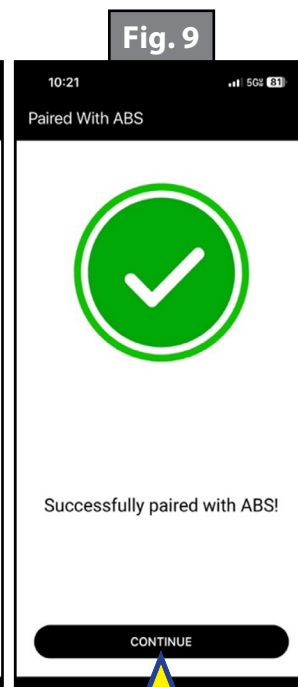
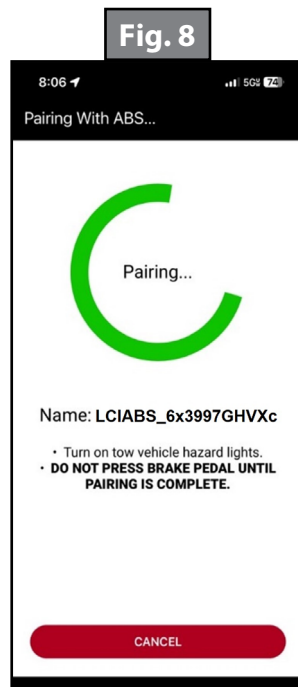
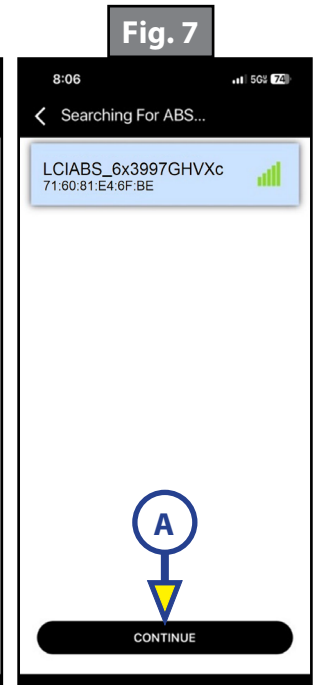
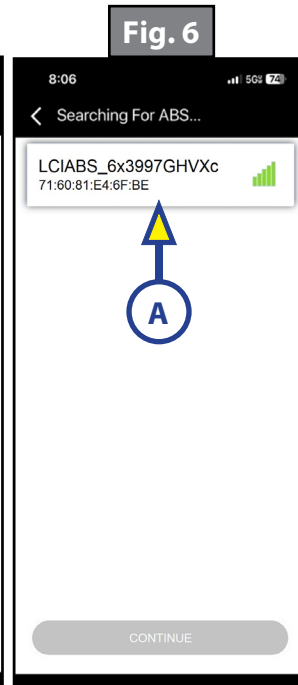
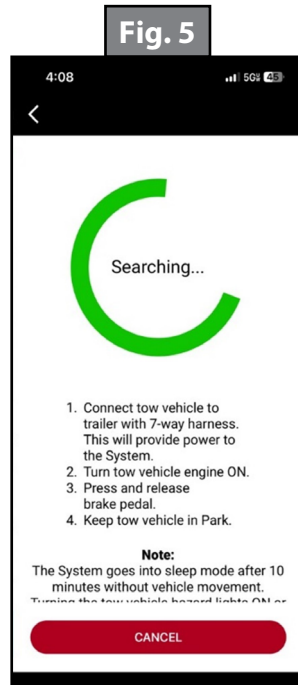
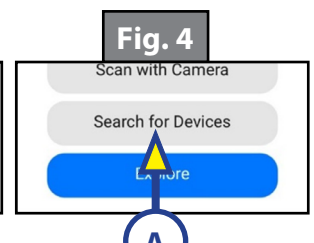
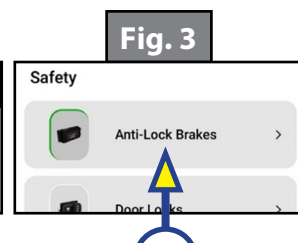
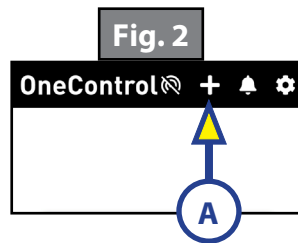
**NOTE:** QR code label may not be needed for the pairing process but should be located as a reference to ensure device name on the label matches the device name being connected to within the app.

Fig. 1



## Search for Devices

1. Tap the '+' icon (Fig. 2A) to open the OneControl app's Add And Explore tab (Fig. 3) and tap the arrow to the right of Anti-Lock Brakes (Fig. 3A).
2. Tap Search for Devices (Fig. 4A).
3. The OneControl RV app will search for the Lippert ABS module (Fig. 5). Be sure that:
  - A. The tow vehicle is connected to the trailer's 7-way harness.
  - B. The tow vehicle is on and the engine is running.
  - C. The brake pedal has been pressed and released.
  - D. The tow vehicle is kept in Park.
4. The controller information will be displayed (Fig. 6A).
5. Tap CONTINUE to pair the OneControl RV app to the ABS controller (Fig. 7A).
6. To complete the pairing process (Fig. 8):
  - A. Turn on the tow vehicle hazard lights.
  - F. DO NOT press the brake pedal until the pairing process is complete.
7. Once pairing has successfully been completed (Fig. 9), tap CONTINUE (Fig. 9A) to display the Anti-Lock Braking System landing screen will be displayed. (Fig. 10).
8. ABS module pairing is now complete.



## Scan With Camera

1. Tap the '+' icon (Fig. 11A) to open the OneControl app's Add And Explore tab (Fig. 12) and tap the arrow to the right of Anti-Lock Brakes (Fig. 12A).

2. Tap Scan with Camera (Fig. 13A).

**NOTE:** Be sure that the QR code sticker (Fig. 1) has been located and tap 'I'M READY' (Fig 14A).

3. Scan the QR code sticker (Fig. 14B) with the device's camera (Fig. 15A).

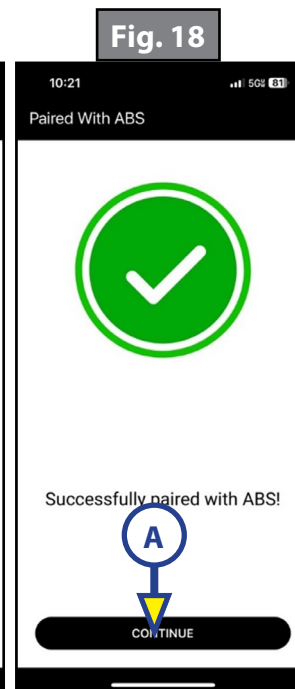
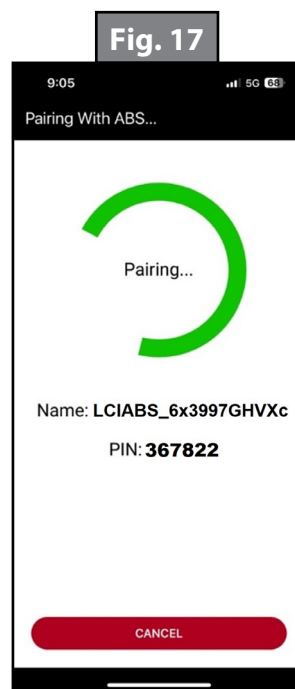
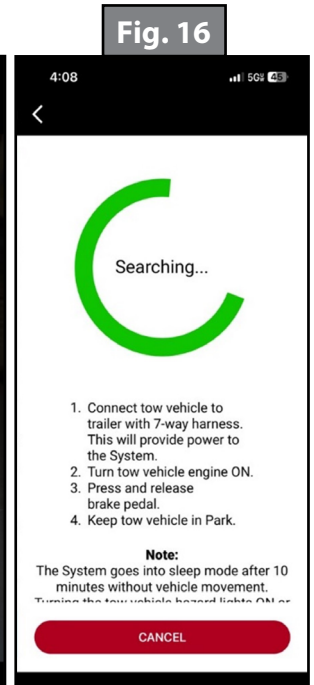
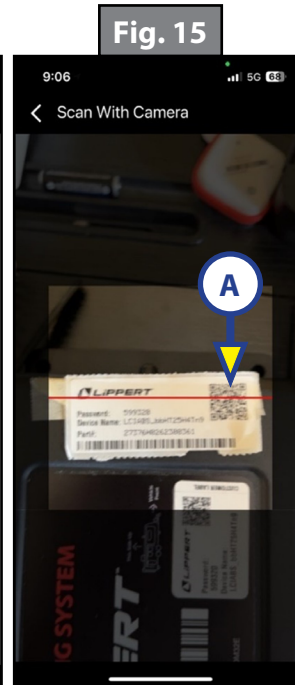
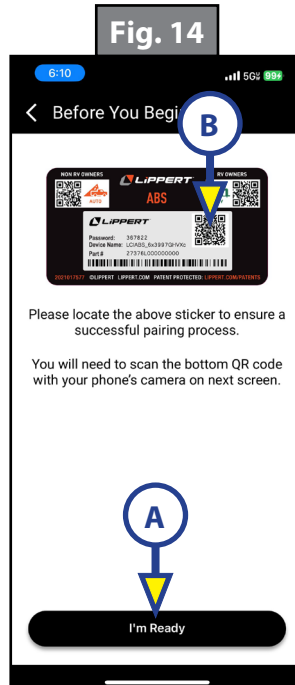
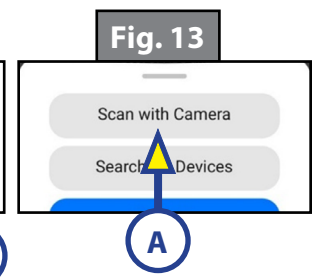
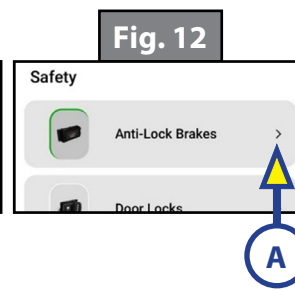
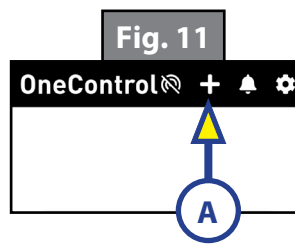
**NOTE:** See QR code sticker variations (Fig. 1).

4. The OneControl RV app will search for the ABS module (Fig. 16). Be sure that:

- A. The tow vehicle is connected to the trailer's 7-way harness.
- B. The tow vehicle is on and the engine is running.
- C. The brake pedal has been pressed and released.
- D. The tow vehicle is kept in Park.

5. Enter pin if prompted and select OK. Once connected the app will pair with the controller (Fig. 17).
6. Once pairing has been successfully completed (Fig. 18), tap CONTINUE (Fig. 18A) to display the Anti-Lock Braking System landing screen. (Fig. 19).

7. ABS module pairing is now complete.



## App Setup for Auto Users (OneControl Auto)

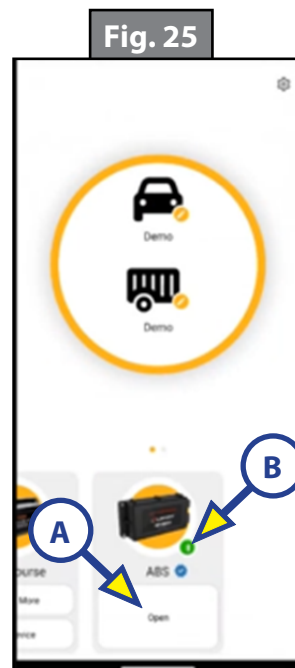
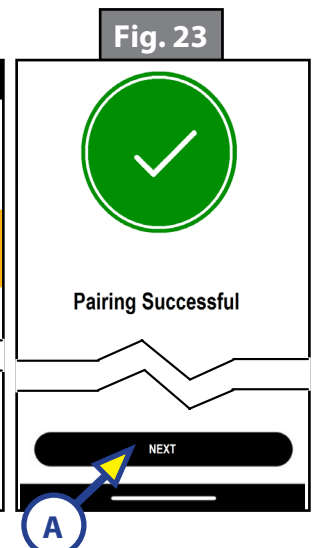
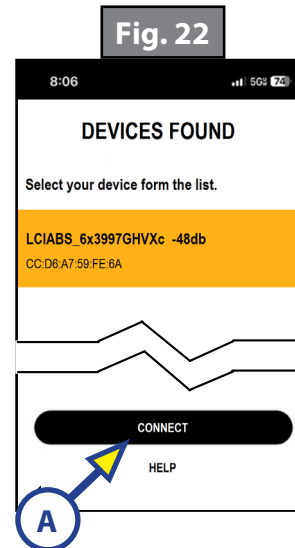
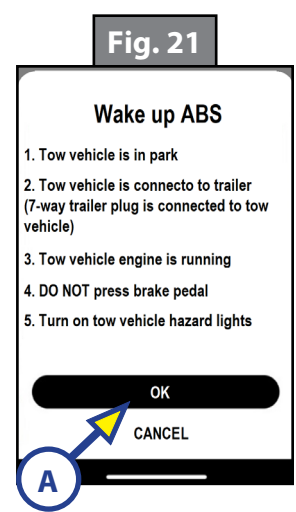
- Download the OneControl® Auto app from the app store.
  - Read and agree to the license agreement.
- From the home menu, tap the 'Pair Device' button under the ABS icon (Fig. 20A).

**NOTE:** The blue check mark (Fig. 20B) indicates that at this time the product is only an OEM installed feature. Check with the OEM or refer to OEM trailer documentation to determine if the unit is equipped with Lippert ABS.

- Wake up the ABS controller (Fig. 21).
  - Put the tow vehicle in Park.
  - Be sure that tow vehicle is connected to trailer 7-way cord.
  - Tow vehicle engine must be running
  - DO NOT press the brake pedal while pairing.
  - Turn on the tow vehicle hazard lights.
- Tap 'OK' (Fig. 21A).
- Once the ABS controller is found, tap 'CONNECT' (Fig. 22A).
- The app will pair to the controller and will display the 'Pairing Successful' screen (Fig. 23). Tap 'NEXT' (Fig. 23A) to continue setting up a Trailer Profile.
- Once a trailer profile has been created, tap 'Finish' (Fig. 24A) to return to the OneControl Auto app home page.
- Tap 'Open' (Fig. 25A) on the ABS icon to open the ABS landing screen (Fig. 26).

**NOTE:** The green Bluetooth icon (Fig. 25B) indicates that ABS is connected. A grey Bluetooth icon indicates ABS is not connected.

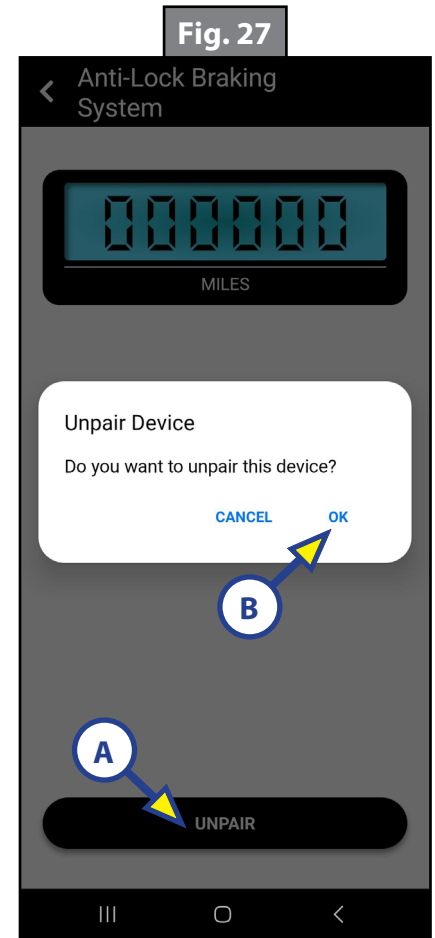
- ABS module pairing is now complete.



## Unpair System

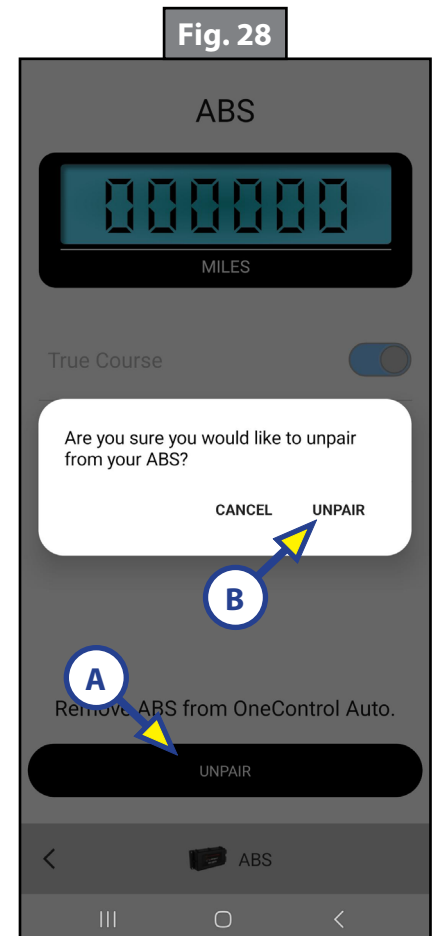
### OneControl RV Users

1. To unpair the system, tap 'UNPAIR' on the device landing screen (Fig. 27A).
2. Confirm the Unpair Device choice by tapping 'OK' (Fig. 27B).



### OneControl Auto Users

1. To unpair the system, tap 'UNPAIR' on the device landing screen (Fig. 28A).
2. Confirm the Unpair Device choice by tapping 'UNPAIR' (Fig. 28B).







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