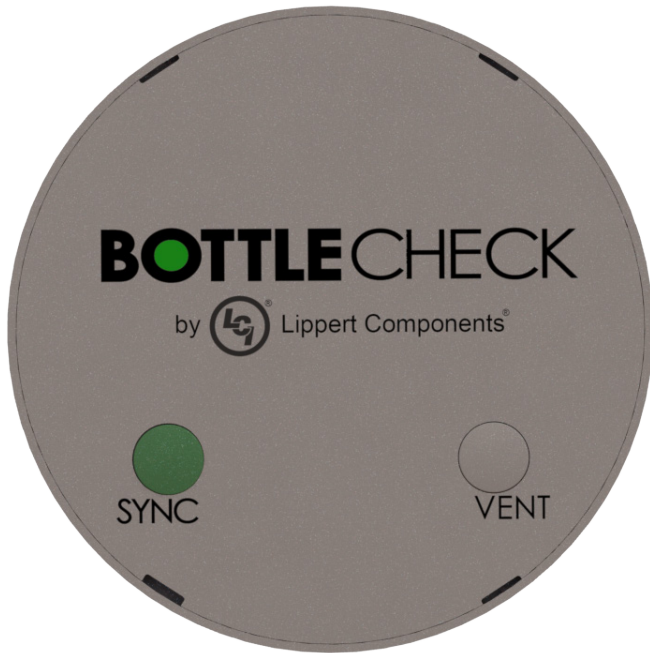




LIPPERT
COMPONENTS®



Lippert BottleCheck (AU)

Installation and Owner's Manual

(For Aftermarket Applications)

Lippert BottleCheck Kit	
Part #	Description
2020135890	BottleCheck (Single Pack)
2020135896	BottleCheck (Double Pack)

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Lippert BottleCheck (AU) Installation and Owner's Manual (For Aftermarket Applications)

Introduction

Check propane tank levels using BottleCheck bluetooth sensor and smart device application. BottleCheck can measure the LPG level and when the tank is empty. BottleCheck can be used on tanks in RVs, caravans, heaters, BBQ grills, etc. BottleCheck sensors are magnetically attached to the bottom of propane tanks. The sensors periodically measure propane levels and wirelessly send the fill level to the BottleCheck app. This technology is patent pending.

Any additional questions about this product concerning installation, operation, replacement kits, replacement parts or warranty can be obtained from the local distributor as noted at the end of this document.

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Google Play™ and Android™ are trademarks of Google Inc.

Safety

Read and fully understand all instructions before installing or operating this product.

Adhere to all safety labels.

WARNING

THE "WARNING" SYMBOL ABOVE IS A SIGN THAT A PROCEDURE HAS A SAFETY RISK INVOLVED AND MAY CAUSE DEATH, SERIOUS PERSONAL INJURY OR SEVERE PRODUCT AND/OR PROPERTY DAMAGE IF NOT PERFORMED SAFELY WITHIN PARAMETERS SET FORTH IN THIS MANUAL.

WARNING

FOLLOW ALL LP CYLINDER SAFETY INSTRUCTIONS AND INSTRUCTIONS FOR DISCONNECTING THE CYLINDER FROM SERVICE. INSPECT THE PROPANE CYLINDER AND GAS APPLIANCES FOR LEAKS.

WARNING

BATTERIES MUST ONLY BE CHANGED IN AN AREA FREE OF IGNITABLE CONCENTRATIONS DUE TO EXPLOSION HAZARD.

WARNING

LIQUID PROPANE GAS (LPG) IS EXTREMELY FLAMMABLE. ADHERE TO ALL LP CYLINDER SAFETY WARNINGS. WEAR APPROPRIATE PERSONAL PROTECTIVE EQUIPMENT (PPE) WHEN HANDLING LPG. INSPECT PROPANE CYLINDER FOR LEAKS PRIOR TO USE OR SERVICE. DO NOT SMOKE OR HAVE ANY IGNITION SOURCES SUCH AS FLAMES OR SPARK-PRODUCING ELECTRICAL TOOLS IN THE AREA WHILE HANDLING OR TRANSPORTING PROPANE CYLINDERS. FAILURE TO FOLLOW ALL LPG SAFETY WARNINGS COULD RESULT IN SEVERE PRODUCT AND PROPERTY DAMAGE, INCLUDING SERIOUS PERSONAL INJURY OR DEATH TO PEOPLE AND PETS.

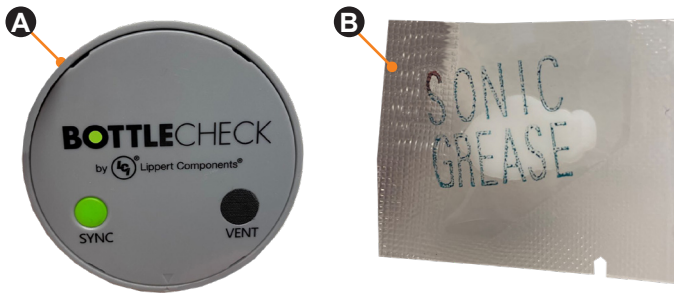
WARNING

ALWAYS TRANSPORT AND STORE A PROPANE CYLINDER IN A SECURE AND UPRIGHT POSITION SO THE CYLINDER DOES NOT FALL, SHIFT OR ROLL TO PREVENT DAMAGE TO THE CYLINDER. DAMAGE TO A PROPANE CYLINDER COULD RESULT IN AN EXPLOSION AND/OR FIRE, CAUSING SEVERE PRODUCT AND PROPERTY DAMAGE, INCLUDING SERIOUS PERSONAL INJURY OR DEATH TO PEOPLE AND PETS.



Lippert BottleCheck (AU) Installation and Owner's Manual (For Aftermarket Applications)

Parts List



Lippert BottleCheck Kit PN 2020135890			
Letter	PN	Description	Qty
A	2020329164	BottleCheck Tank Sensor	1
B	2021026924	BottleCheck Sonic Grease	1
	2021026926	BottleCheck Tank Spacer Kit	1

NOTE: Part numbers are shown for identification purposes only.

NOTE: Spacers are not typically required. See troubleshooting section for guidelines.

Resources Required

- Lippert BottleCheck app
- Cloth to wipe tank

Installation

⚠ WARNING

PREVENT LPG LEAKS BY ALWAYS CLOSING THE PROPANE CYLINDER VALVE, EVEN IF THE CYLINDER IS EMPTY. NEVER STORE OR PLACE A PROPANE CYLINDER IN AN AREA OF EXCESSIVE HEAT (120 DEGREES OR HIGHER) OR NEAR A STOVE, FIREPLACE, OR OTHER HEAT SOURCE. FLASH FIRES OR EXPLOSIONS CAN RESULT FROM EXPOSING PROPANE CYLINDERS TO HEAT.

⚠ WARNING

FOLLOW ALL LP CYLINDER SAFETY INSTRUCTIONS AND INSTRUCTIONS FOR DISCONNECTING THE CYLINDER FROM SERVICE. INSPECT THE PROPANE CYLINDER AND GAS APPLIANCES FOR LEAKS.

NOTE: Do this prior to using or servicing the propane cylinder and/or gas appliances for the first time each season and on a regular basis.

1. Search for "Bottlecheck" to find the Lippert BottleCheck application in the app store on an iOS or Android smart device (Fig.1). Download the app to the smart device.

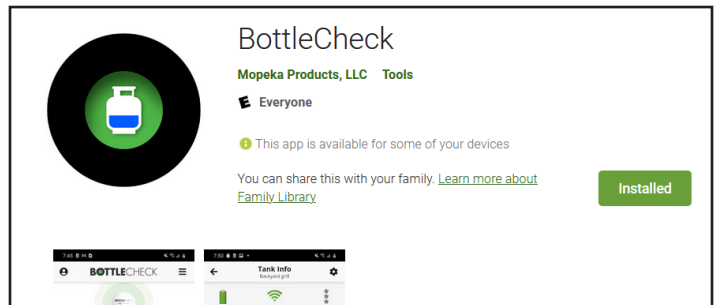


Fig.1

2. The app uses Bluetooth on a smart device to pair with the sensor. Upon opening the app, it typically will ask about turning on Bluetooth or turning on Location setting requirements unique to the phone/smart device to enable pairing.

3. To pair the app and the sensor via Bluetooth, have the app open on the smart device. Press and hold the SYNC button (Fig. 2A) until sensor appears on the app. This may take up to 10 seconds.

NOTE: The first time using the BottleCheck sensor may require pressing the SYNC button 5 times in a row in order to wake up the sensor.

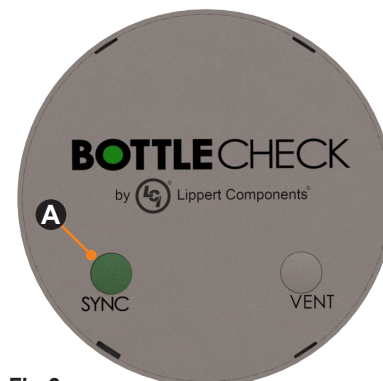


Fig.2



Lippert BottleCheck (AU) Installation and Owner's Manual (For Aftermarket Applications)

- Once the app and sensor are paired, wipe off the bottom of the tank where the sensor will be magnetically mounted.
- Apply the provided Sonic Grease directly to the rubber pad on the center of the sensor before attaching to the tank (Fig.3).

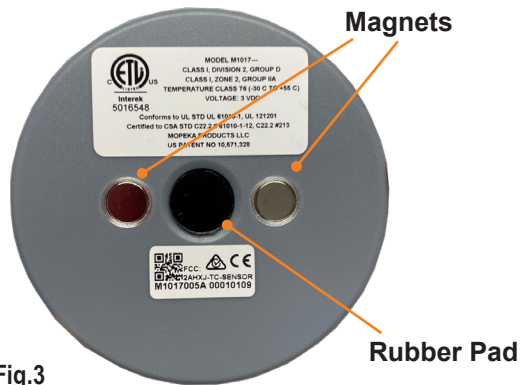
NOTE: If the tank was flipped during the application of the sensor, the LPG fluid will be sloshing around in the tank for a few minutes and the quality of the measurements will be reduced until this has stabilized.

- If tank was removed for the application of the sensor, safely return tank back to its original location.

Operation

Checking Tank Level

- The app will report when the tank is empty (Fig.5).



- Place the magnetic sensor on underside of the tank in the center. Tank removal may or may not be necessary depending on accessibility to the bottom (underside) of the tank (Fig.4).

Fig.5

- The app will report to the user the battery life of the sensor, communication signal strength between the app and the sensor, and other features for the user's convenience (Fig.6 and 7).

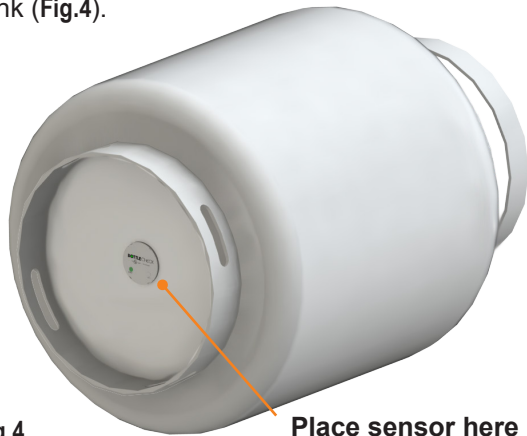


Fig.4 Place sensor here

NOTE: If the BottleCheck is removed or repositioned multiple times, it may be necessary to apply more sonic grease.

- Once the sensor is placed and the fluid has settled, the app will display a reading.

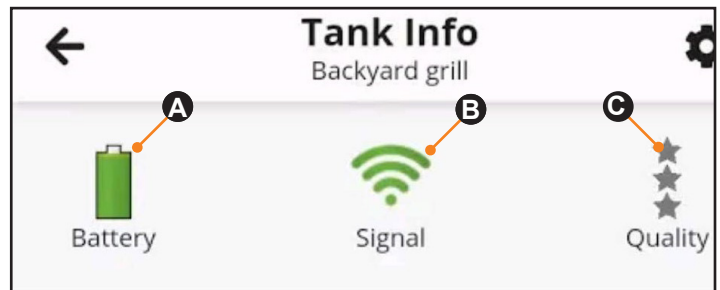


Fig.6

Callout	Fig. 6 Descriptions
A	Battery life of sensor
B	Signal strength between app and sensor
C	Quality of sensor's measurement

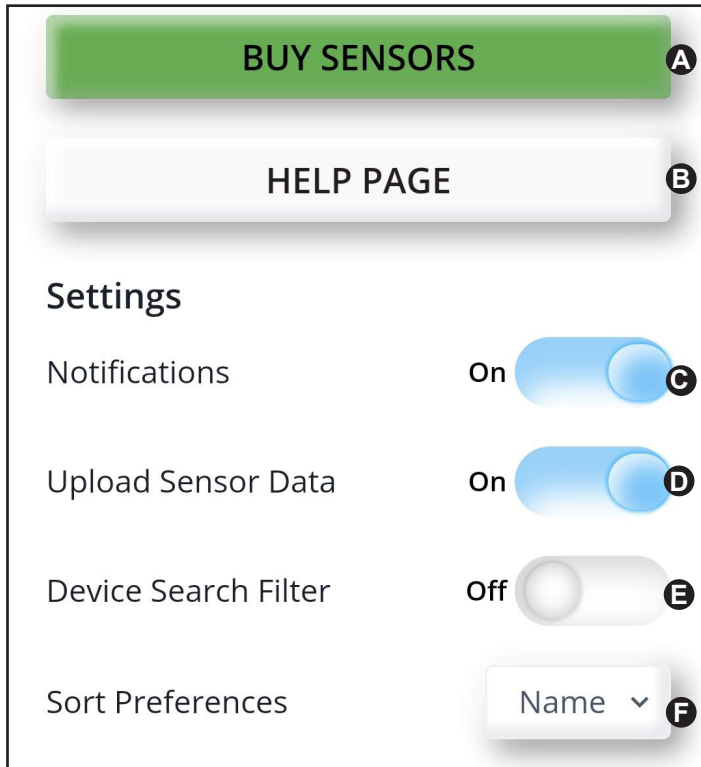


Fig.7

Callout	Fig. 7 Descriptions
A	Buy additional sensors at local distributor
B	Help Page at local distributor
C	Allow push notifications
D	Upload Sensor Data
E	Device Search Filter
F	Sort Preferences

Battery Replacement

⚠ WARNING

BATTERIES MUST ONLY BE CHANGED IN AN AREA FREE OF IGNITABLE CONCENTRATIONS DUE TO EXPLOSION HAZARD.

Resources Required

- CR2032 battery
- Small, flat-head screwdriver

BottleCheck uses a CR2032 COIN CELL (3V) battery for power. If it becomes necessary to replace the battery, follow these steps:

1. Remove sensor from the tank and move a safe distance away from the tank.
2. Insert a small flat head screwdriver into one of the alignment marks between the lid and the base (Fig.8).

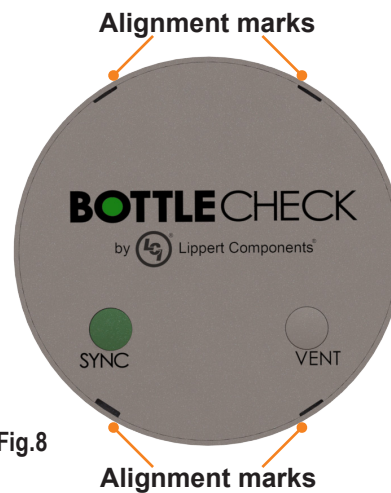


Fig.8

3. Pry outward to begin releasing the lid from the base. Continue prying at each alignment mark location until the two halves separate (Fig.9).

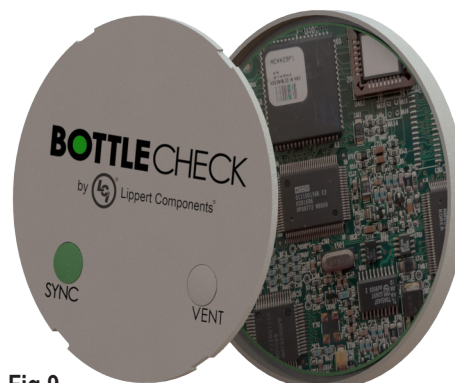


Fig.9

4. Remove the old battery and dispose of properly. Insert the new battery with the positive side facing up.
5. Place the two halves together and firmly press the base and cover together to assure a solid connection.
6. Refer back to the installation procedures to refit the sensor to the propane tank.

Troubleshooting

What is happening?	Why?	What should be done?
Sensor won't pair with phone.	Mobile device and sensor can't find each other.	Make sure Bluetooth connection is good and ensure device has been synced following the procedure.
Lippert BottleCheck app is incorrectly reporting fuel levels.	There is interference between tank and smart device.	Spacers are not typically required but may be added to the bottom of the tank to lift the tank off of the ground for better connectivity between the sensor and the smart device.
	Fuel has not settled in LP tank	If tank has been moved, wait for fuel to settle.
	Sensor improperly placed on LP tank.	Be sure sensor is properly installed on LP tank (see Installation section).
	Poor connection to LP tank	Make that the sonic grease has been applied to the rubber pad on the back of the BottleCheck (see Installation section) Additionally, sensor may need to be zeroed and level (see Leveling and Zeroing section).

Leveling and Zeroing

From time to time, it may be necessary to level and zero the sensor to ensure the sensor is accurately measuring the tank's fill level.

1. Within the app, tap on the sensor that needs to be leveled (Fig.10).

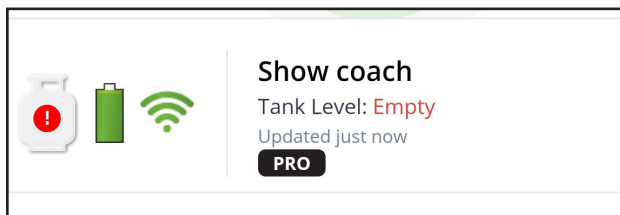


Fig.10

2. The option "Sensor Leveling" will appear at the bottom of the app (Fig.11). Tap to open the bubble leveling tool.

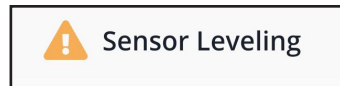


Fig.11

3. To zero BottleCheck, tap Sensor Leveling (Fig.11) and then select "Zero Sensor" (Fig.12).



Fig.12

NOTE: The Sensor Position tool works like a bubble level and ideally the sensor will be level to the horizon. The dots move as the sensor is tilted from horizontal level position. If the dots in the tool do not line up to the center of the graphic, adjust the sensor position until it lines up (**Fig.13**).

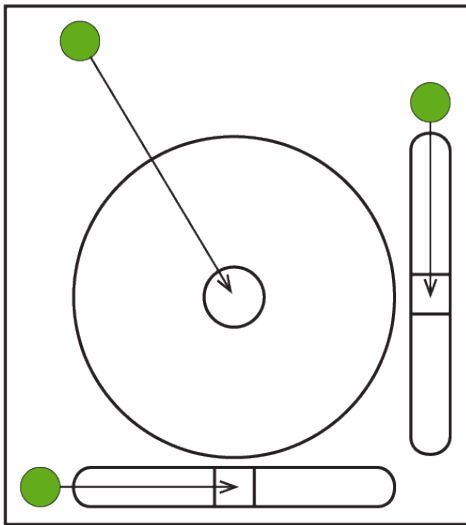


Fig.13

NOTE: While the BottleCheck sensor and app bubble leveling is helpful and may be necessary, it is only critically essential for extremely large vessels over 45 kg.

Notes

Manual information may be distributed as a complete document only, unless Lippert Components provides explicit consent to distribute individual parts.

All manual information is subject to change without notice. Any additional questions about this product concerning installation, operation, replacement kits, replacement parts or warranty can be obtained from the local distributor as noted at the end of this document.

Please recycle all obsolete materials and contact Lippert Components with concerns or questions.

Local Distributor Information



Australia

New South Wales (Head Office) - Trade Clients Only

Coast to Coast RV Services

3 George Young St, Auburn NSW 2144

Postal Address:

PO Box 6287, Silverwater NSW 1811

Phone: 02 9645 7600

Fax: 02 9645 7688

Email: salesnsw@coastrv.com.au

Opening Hours for Trade Clients:

8:30am - 5pm, Monday to Friday (Public holidays excluded)

Victoria - Trade Clients Only

Coast to Coast RV Services

1-3 Burnett St, Somerton VIC 3062

Postal Address:

1-3 Burnett St, Somerton VIC 3062

Phone: 03 9930 0500

Fax: 03 9930 0599

Email: salesvic@coastrv.com.au

Opening Hours for Trade Clients:

8:30am - 5pm, Monday to Friday (Public holidays excluded)

Queensland

Coast to Coast RV Services

48 - 56 Meakin Road, Meadowbrook QLD 4131

Phone: 07 3386 7100

Fax: 07 3386 7199

Email: salesqld@coastrv.com.au

Western Australia - Trade Clients Only

Coast to Coast RV Services

Cnr Baile Rd & Barrel Way, Canning Vale WA 6155

Postal Address:

1 Barrel Way, Canning Vale WA 6155

Phone: 08 9484 6000

Fax: 08 9484 6088

Email: saleswa@coastrv.com.au

Opening Hours for Trade Clients:

8:30am - 5pm, Monday to Friday (Public holidays excluded)

New Zealand

Auckland - Trade Clients Only

74 Greenmount Drive, East Tamaki Auckland 2013

Phone: +64 9 274 8700

Fax: +64 9 274 8701

Email: enquiry@coastrv.co.nz

Opening Hours for Trade Clients:

8:30am - 5pm, Monday to Friday (Public holidays excluded)