

ANTIGRAVITY BATTERIES

CONVERSION KIT AG-CON-CYN

USER MANUAL



CONTENTS

INTRODUCTION	1
PARTS INCLUDED IN KIT	
STEP 1: BATTERY REMOVAL	2
STEP 2: INSTALL NEG CABLE	3
STEP 3: INSTALL RED WIRE	
STEP 4: INSTALL BATTERY	4
STEP 5: FINAL CONNECTIONS	
STEP 6: USE OBD2 MODULE	5
FINAL NOTES	
FAQ	6
DISCLAIMER	



DANGER - WARNING!



PRIOR TO USE, READ AND UNDERSTAND THIS MANUAL AND SAFETY INFORMATION. Failure to follow the instructions may result in ELECTRICAL SHOCK, EXPLOSION, or FIRE, which may result in SERIOUS INJURY, DEATH, or DAMAGE TO VEHICLE or PROPERTY. Do not discard this information.



Introduction

IMPORTANT, PLEASE READ!

The Antigravity Porsche Cayenne Battery Conversion Kit is only for Porsche Cayennes (2018- 2024) that came equipped with the Porsche Factory Lithium Battery.

It is recommended you go with original Cayenne Battery Specifications as the replacement Battery:

- **For Antigravity Lithium:** Use the AG H7 or H8 size in a 60 or 80 Amp Hour Capacity.
- **For AGM Batteries:** Use the H7 or H8 Size in an 80+ Amp Hour Capacity.
- Make sure your replacement battery is FULLY CHARGED and ready to install before doing your Conversion.
- See Disclaimer and FAQs at the end of this Manual.

PARTS INCLUDED IN THE KIT

(All parts have tags/labels attached for easy installation)

1. **NEW NEGATIVE CABLE:** Replaces the existing Cayenne Negative (Ground) Cable.
2. **NEW RED (LIN-CONNECTOR) WIRE:** Has a Pin on one end, and Ring Terminal on the other end.
3. **Vent Tube Adapter:** Used if you use an AGM Battery. Not used with aftermarket Lithium Batteries.
4. **10mm M6 NUT:** Connects the RED LINBUS WIRE to M6-stud on the Cayenne's Positive Cable.
5. **OBD2 MODULE:** Changes the Battery Settings of the Car for the conversion.



Installation Step 1

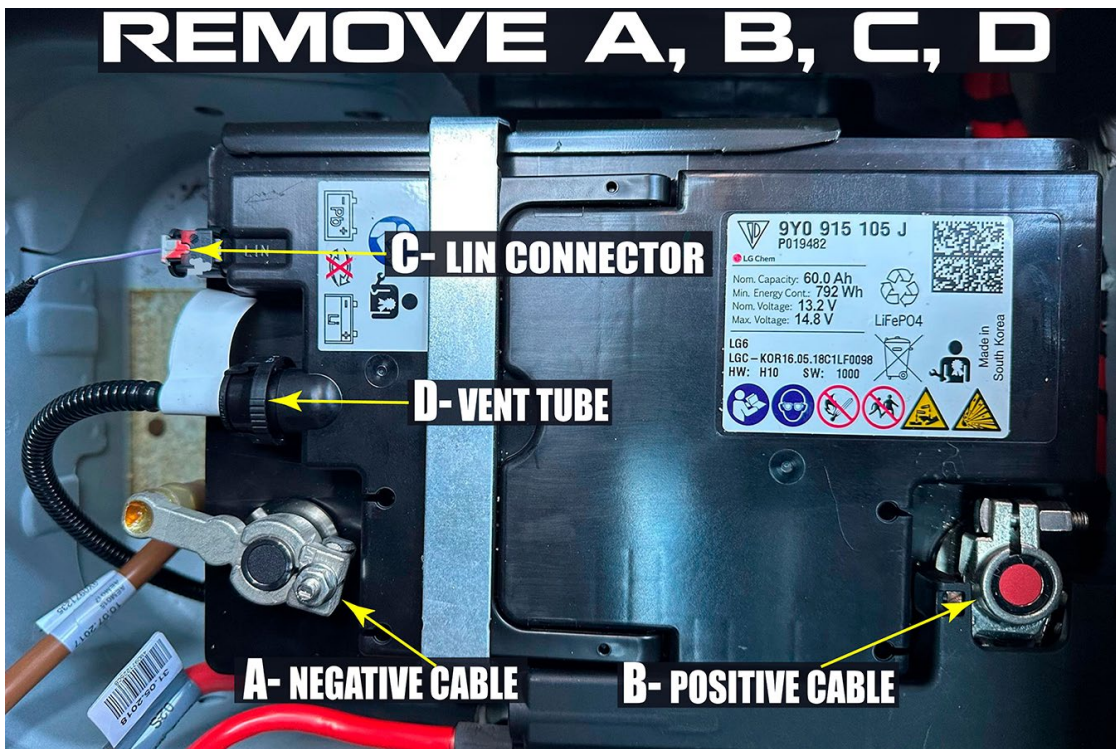
I

BATTERY REMOVAL (Image#1 below)

NOTE: OUR INSTRUCTIONS ASSUME THAT YOU HAVE ACCESSED THE CAYENNE'S BATTERY.

1. Remove the Negative Cable (A), then Positive Cable (B) from the Battery's Posts. Set aside.
2. Remove Lin Connector (C); pull back Gray Tab first to release the Connector's lock.
3. Remove Vent Tube (D) from the Battery. Pinching the larger Ring typically releases this Connector.
4. Remove the metal strap that sits over the battery, remove the Battery hold-down nuts (13mm) at the base of Battery, then remove the Cayenne's Battery.

Image #1



Installation Steps 2-3

2

INSTALL THE KIT'S NEGATIVE CABLE

1. Remove the original Negative (Ground) Cable from its mounting location (a 13mm Nut) and replace it with the NEW Negative (Ground) Cable from the Conversion Kit. Torque to 23Nm (17ft-lb).

3

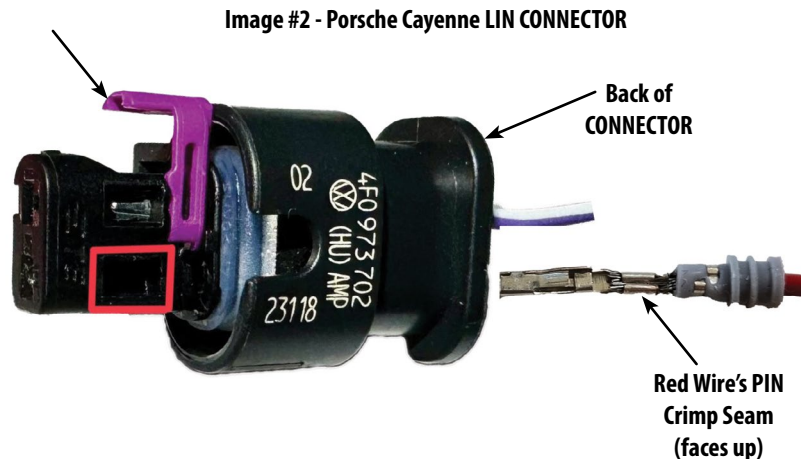
INSTALL THE KIT'S RED WIRE INTO THE LIN CONNECTOR *(Image #2 below)*

Note: The Kit's Red Wire has a PIN on one end and a RING TERMINAL on the other end. You will be inserting the PIN into the existing LIN CONNECTOR that you removed earlier from the Cayenne's Lithium Battery.

1. Examine your LIN CONNECTOR (Image #2 below); it has one wire connected to it and has vacant hole for a second wire, where you will install the RED WIRE from the kit. You must remove the Dust Plug at the back of the LIN CONNECTOR before you can install the new RED WIRE.
2. Take a small Paperclip or Wire and insert it into the front of the LIN CONNECTOR, in the vacant hole, and push the Dust Plug out the back side of the LIN CONNECTOR.

3. Open the PIN-LOCK on the LIN CONNECTOR

Use a small pick or pin (inserted at the arrow) to pry the purple pin-lock to an OPEN position (as demonstrated in the image below). This will allow you to slide the new Red Wire's Pin into position.



4. Insert Red Wire's PIN into the LIN CONNECTOR

1. Put the LIN CONNECTOR in the orientation as shown in Image #2 above.
2. Put the PIN in the orientation as shown in the image with the Crimp Seam facing up.
3. Insert the PIN into the LIN CONNECTOR fully; it should go in easily if the orientation is correct.
4. After the Pin fully pushed in, press the purple PIN-LOCK back into place to lock the Pin in place.

Note: When the PIN is inserted correctly you will hear a click and be able to see it in the red-square area. You can then slide the purple PIN-LOCK back into place.



Installation Steps 4-5

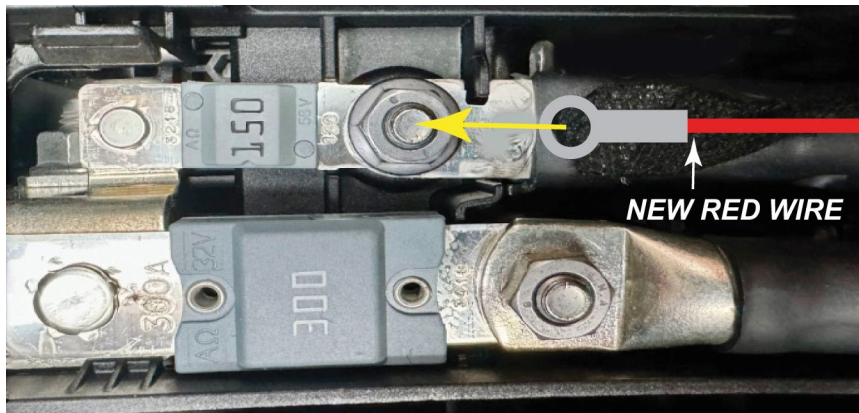
4 INSTALL YOUR NEW BATTERY INTO PLACE

1. Make sure all cables are protected with Rags and out of the way when installing the new battery.
2. Mount your new Battery in place, being careful of existing wires and cables.
3. Re-install your battery mounting hardware. Torque to 15-18 Nm (11-13 ft-lbs).
4. Re-install your battery's Top Bar bracket back into place, 15-18 Nm (11-13 ft-lbs).
5. **DO NOT CONNECT ANY CABLES OR WIRES YET!**

5 FINAL CABLE AND WIRE CONNECTIONS *(Image#3 below)*

1. Open the Plastic Box that is connected to your Positive Battery Clamp, locate the "150" Amp Fuse, remove the existing nut from this fuse and put the RED WIRE'S Ring Terminal under it, and re-tighten to torque of 7-9 Nm (5-7 ft-lb). If you have enough threads, simply connect the RED WIRE'S Ring Terminal on top of the existing M6 nut using the provided M6 nut.

Image #3



2. Connect the POSITIVE CABLE to the Battery's Positive Post, make sure it is seated well using a slight twisting motion with downward pressure, then tighten to a Torque of 7-9 Nm (5-7 ft-lb).
3. Connect the new NEGATIVE CABLE to the Battery's Negative Post, making sure it is seated well with a slight twisting motion and downward pressure, then tighten to a Torque of 7-9 Nm (5-7 ft-lb).
4. Plug the LIN CONNECTOR into the LIN PORT, which is found on your NEW Negative (Ground) Cable's Clamp.
5. If using an AGM Battery connect the Vent Plug adapter to your AGM Battery's Vent. The vent is not needed with aftermarket Lithium Batteries such as the Antigravity Battery.
6. Locate the inline FUSE on the RED WIRE, peel off the adhesive tape's protection then mount the FUSE onto a convenient location on the battery or nearby location for easy access, then bundle and tie any extra length of red wire for a clean installation.



Installation Step 6

6 UPDATE THE CAR SYSTEM USING THE OBD2 MODULE

1. Before proceeding make sure all your wiring is correct and connections are tight.
2. Start your car (DO NOT insert the OBD2 Module yet), you may see an error such as "Vehicle Electrical System Error", "E-Brake", "Start/Stop Error" or another; be aware that this will happen and is normal.
3. Now go to the Car's Instrument Display to view the "Voltage" of the battery; you may have to scroll your settings to find the "Voltage" in the Car's Display. You want to do this to make sure your Car has a voltage reading from the Battery. If you see dashed lines "----" in the Voltage Display then you may have a problem with the Red Wire's Pin installation into the LIN CONNECTOR.
4. After verifying there is a Voltage reading in your Car's display, turn off the Car completely.
5. Now put the Car into Accessory Mode (ACC), DO NOT START THE CAR! When in ACC Mode, the instrument cluster will turn ON, but the car is NOT started. You want it ONLY in ACC mode.
6. Insert the OBD2 Module into the Car's OBD2 Port. Located under the Driver's side dashboard.
7. After the OBD2 Module is inserted, leave it in the Port for 5 minutes to ensure it has finished. There will NOT be a notification that it has finished its system update. So just wait 5 minutes.
8. Remove the OBD2 Module, and start the Car.
9. If you see an E-Brake warning, engage then dis-engage the E-brake a few times.
10. Take for a Test drive and if any remaining flags, they should disappear after the Car has been run a short period of time.



FINAL INSTALLATION NOTES

1. After the installation you may notice different voltage levels occurring in your instrument display; this is normal and due to the settings changes for AGM Batteries, this is typical and OK.
2. Please note in some Cars it may take some driving before a flag may go away, or before a "check engine light" goes away. This is because the system has to re-learn a battery is in the Car after having a battery change.
3. If you find a flag persists longer than normal, redo STEP 6 numbers #3 through #8.
4. If you have any other questions please call us at 310 527 2330.

DIAGNOSTIC TOOL CODES

If you own a Diagnostic Code Reader, please note you may have some Codes showing up after installing this Conversion Kit. Please note in most cases those Codes are NOT from the Conversion kit. They are most often related to existing codes that were thrown from the failing Factory Porsche Battery. For example when the Porsche Battery was failing, it could not be awakened and you may have tried to awaken the battery with Jump-Starter, or another battery or even started the Car even though the battery would not wake up. These types of things will generate codes in the Car. If and when possible try to clear them before or after the Conversion kit is installed.



Frequently Asked Questions



Is the conversion reversible?

Yes, but it would require that you put the original parts back into the car, and take the Car to a Porsche Dealer or Independent Mechanic with the PIWIS System so they can reset the PIWIS Battery Settings to original.

Does the conversion damage my Cayenne?

No, this conversion simply uses similar parts and settings as found in Cayennes factory-equipped with an AGM Battery. It uses the standard setting for AGM Batteries and does not alter the car from what is used in the AGM-equipped Cars. After changing a battery in your Car, or after installing the kit you may see TPMS issues, or a Check engine light. Most all times these will go away after driving for 30 mins to an hour. TPMS issues can arise with any Battery Change-out and are not directly related to the Conversion, but rather to a Battery Change; you may have to re-calibrate for your Cayenne if you see this warning.

Will this conversion void my warranty?

Porsche Dealerships will often say this, but the parts replaced and settings changed are simply taking the Car to the same electrical configuration as the Cayennes that are AGM equipped. According to the "Magnuson-Moss Act" (federal law) you are allowed to replace OEM parts with aftermarket parts of the same type without the Dealer claiming a voided warranty. Please check with your dealer if you have specific questions regarding this.

Will this affect a TUNE on my Car?

While we assume it should not affect a TUNE, you should check with the company that did your TUNE before installation of this kit. We do understand that some TUNES will affect charging strategy of the Car, but we are not sure what changes are made to the Battery settings specifically, if any, during a TUNE. It is necessary that you check with your TUNE provider to get an answer to this.

DISCLAIMER

This product is intended for automotive use only. Improper installation or use may result in damage or injury. The User, Consumer or Installer is fully responsible for the installation and use of this product as intended. Antigravity Batteries LLC is not responsible for any damage beyond the product replacement resulting from installation or use.

