

Aug 2019



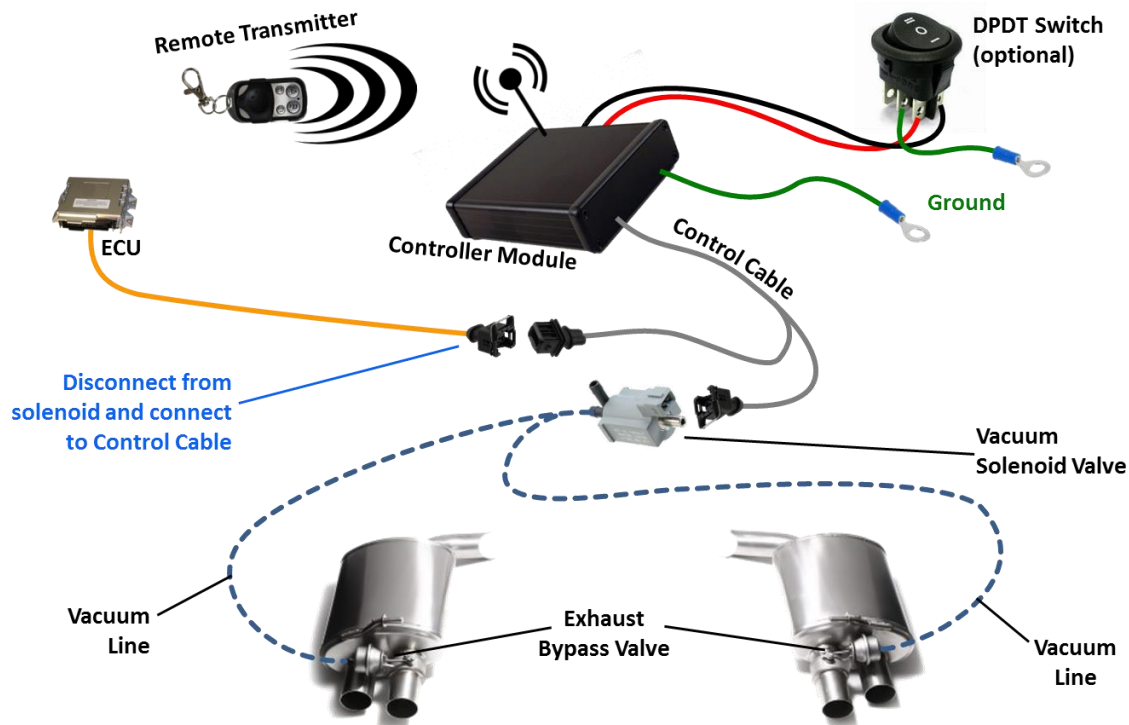
Forza Exhaust Controller Installation

Alfa Romeo Giulia / Stelvio Quadrifoglio



Forza Controller kit contents

- **Forza Controller** (*B3A is shown*)
 - Single electrical connector
 - Special configuration ... Always closed option is disabled
- **One or two remote transmitters**
- **3M Dual Lock adhesive mounting strips**
- **One connection cable**



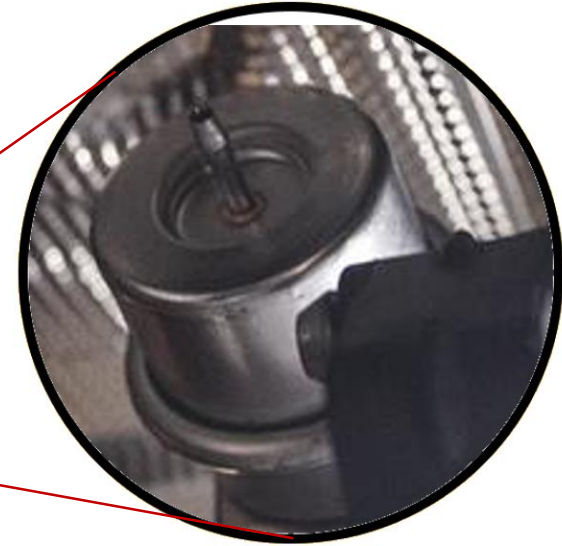
Installation Summary

- **Completely read through the installation instructions**
- **Locate the vacuum solenoid valve (see next page)**
- **Make preliminary connection of the controller module and test function**
 - Ignition on
 - Check polarity of electrical connection (LED on controller illuminated). Correct polarity if necessary.
 - Use remote to check function of relays. You will hear clicking of relays as you press the buttons.
- **Locate controller in luggage compartment**
 - For the Giulia, there should be a plastic storage box in the floor of the boot. Try this location ... see additional photos on following pages.
 - For the Stelvio, a good location to install the controller module is beside the battery in the floor of cargo area. See photos on following pages.
- **Route connection cable from solenoid valve to controller**
- **Secure connection cable and controller**
- **Test function of controller with engine running finalizing the installation**
- **Complete the installation**

Note: If the remote does not work even if the LED on the control module is illuminated, this could be due to a poor electrical ground or the controller has lost its pairing to the remote.

See the installation instructions to re-pair the remote.

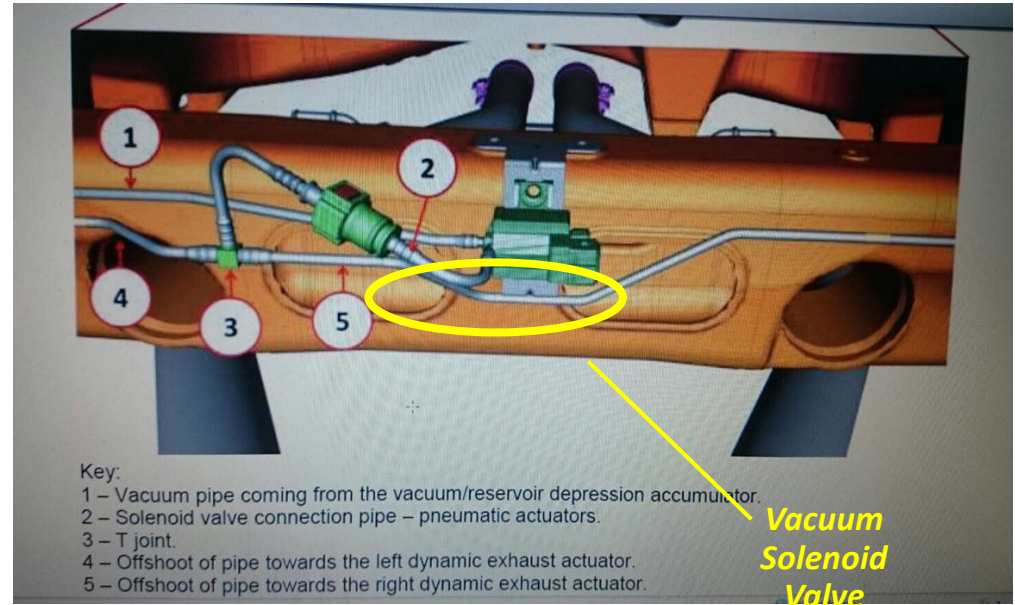
Installation Tip



Two vacuum lines are routed from the vacuum flapper valves to the vacuum solenoid valve. Once you locate the flapper valves, you can easily trace backwards to find the solenoid valve.

Locate Vacuum Solenoid Valve and make preliminary connection to controller

- **Open the plate under (near) the rear differential**
 - Screws, nuts and clips.
 - Once removed, you should be able to reach the solenoid valve
- **Disconnect the JPT electrical plug on the solenoid**
 - Connect this to the male plug on the connection cable
- **Connect female JPT connector to the solenoid**
- **Connect Superseal connector to the Forza controller and connect the green wire to a proper vehicle ground.**
- **Turn on ignition**
- **Check electrical polarity (LED illuminated on controller)**
- **Make preliminary test ... press fob buttons and listen for clicking sound in controller. These are the relays working.**

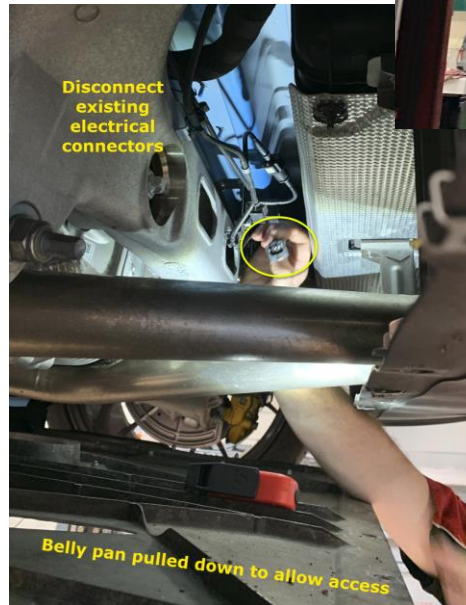


If you discover that the LED does not illuminate, the relays will not function as this is an indication of incorrect electrical polarity or a bad ground connection. The installation instruction included with the kit have directions for changing the electrical polarity of the controller which only takes 5 minutes and requires only a small screwdriver to change the connection on four electrical terminals.

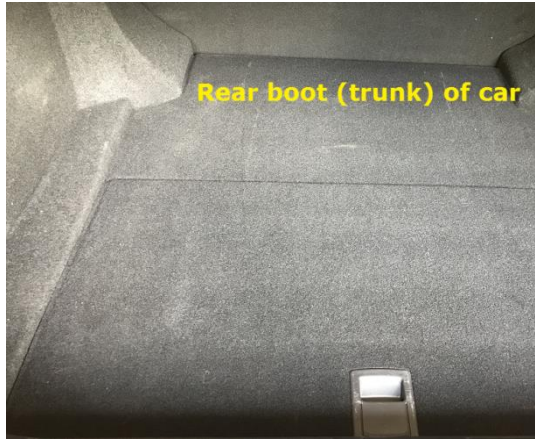
A poor ground connection may also exist even if the LED illuminates as the voltage to illuminate the LED is very low. If the remotes do not work, this could be one cause.

Alfa Giulia – Locate suitable spot for installing controller in luggage compartment of vehicle

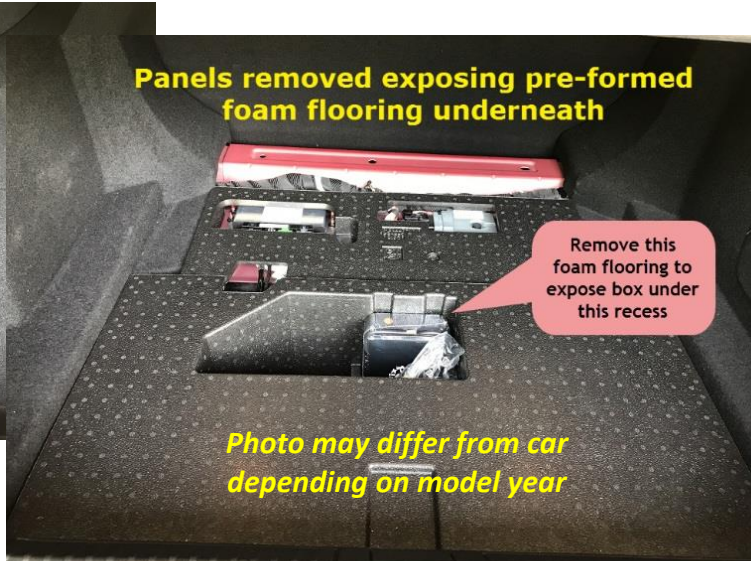
- Look for plastic box in boot (trunk)
- Check cable routing to outside of box
- There are already be some cables routed into the box. You can easily use the existing hole and grommet to route the Forza cable. If you wish you can drill a new hole in the side of the box to route cable. Hole diameter large enough to pass the connector through (about 1-1/8" to 1-1/4" or 28mm to 32 mm)
 - Use a rubber grommet after routing cable into box. Cut through one side of grommet to wrap around cable.
- Find suitable ground for controller and make connection ... ensure the point used for the ground is indeed a good ground.
- Install controller in plastic box and secure it to keep in place
- Secure the connection cable where you route in from the solenoid valve



Alfa Giulia – Additional photos of installation



Rear boot (trunk) of car



Panels removed exposing pre-formed foam flooring underneath

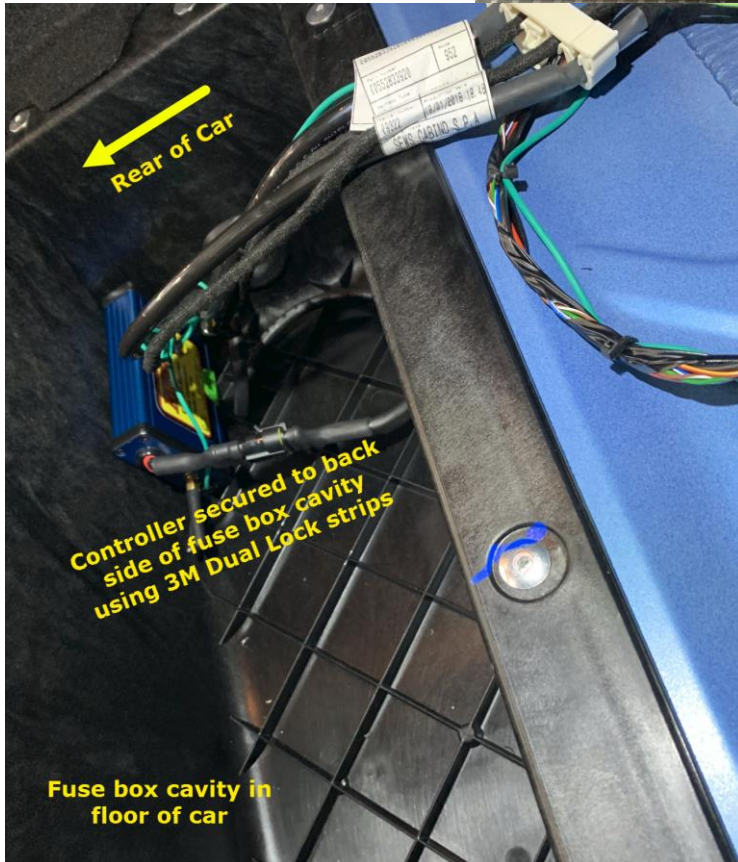
Remove this foam flooring to expose box under this recess

Photo may differ from car depending on model year



Once the pre-formed foam is removed, you expose this area in boot (trunk)

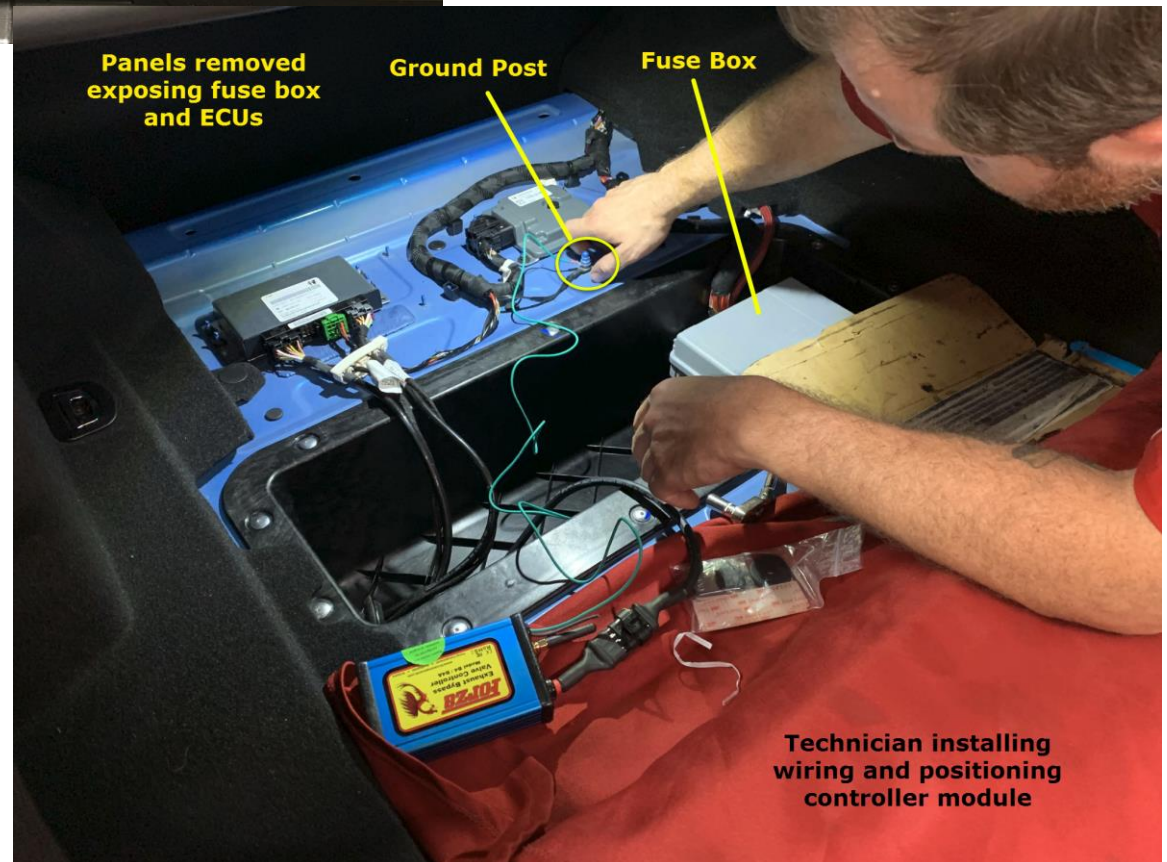
Photo may differ from car depending on model year



Rear of Car

Controller secured to back side of fuse box cavity using 3M Dual Lock strips

Fuse box cavity in floor of car



Panels removed exposing fuse box and ECUs

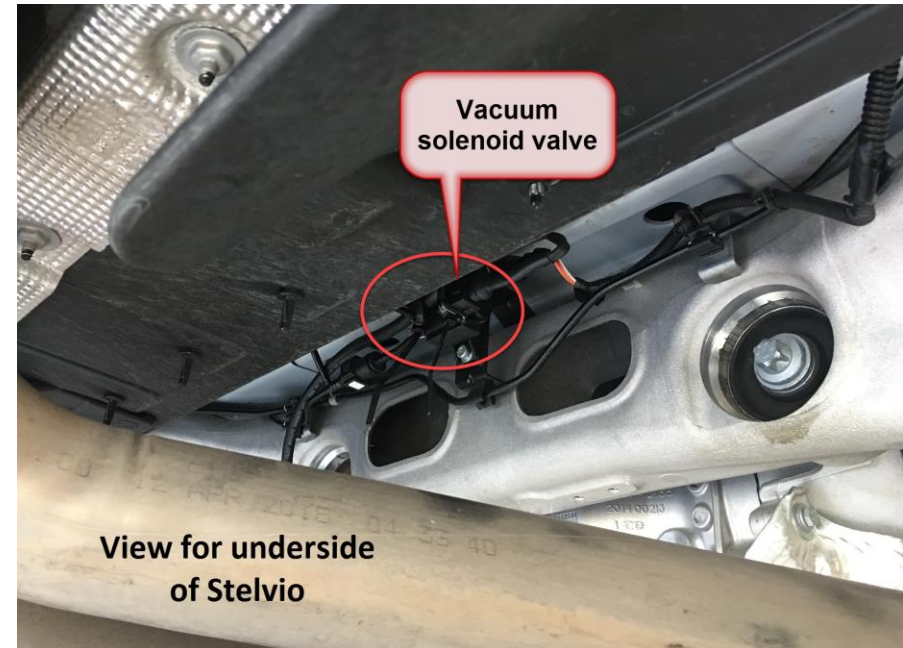
Ground Post

Fuse Box

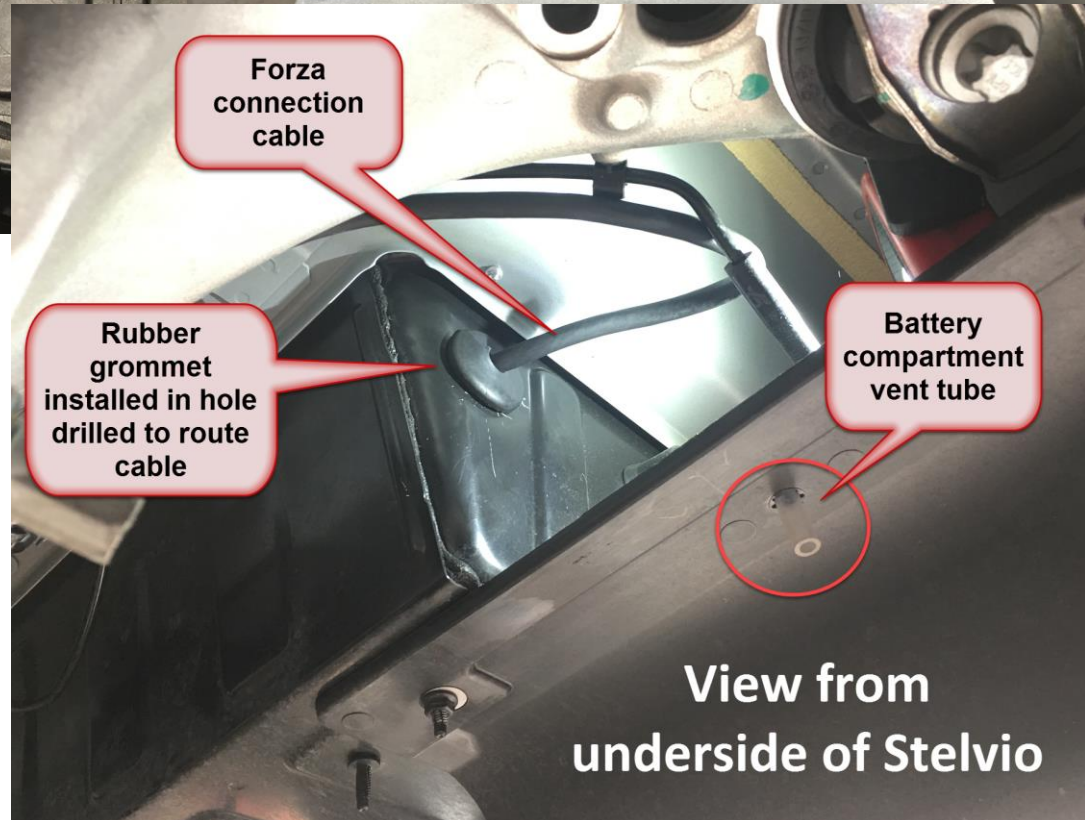
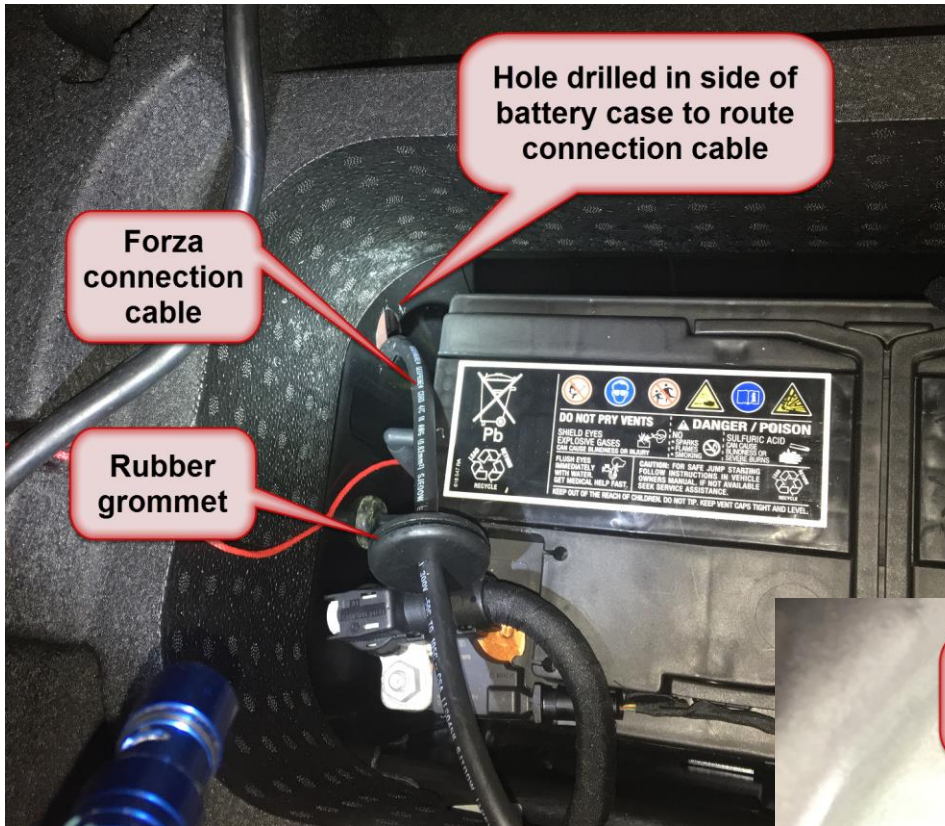
Technician installing wiring and positioning controller module

Alfa Stelvio – Locate suitable spot for installing controller in cargo area of vehicle

- **Locate the battery compartment under the rear cargo area floor panel.**
- **You will need to route the Forza connection cable from the underside of the car into the battery compartment.**
 - Drill a hole large enough to route the cable and insert a rubber grommet. About 1.125 “ to 1.25” diameter or 28mm to 32 mm)
 - Use a rubber grommet after routing cable into box. Cut through one side of grommet to wrap around cable. If you wish, you can secure with a dab or two of RTV or silicone caulking.
- **Find suitable ground for controller and make connection. Ensure the point used for the ground is indeed a good ground. You can use the negative side of the battery for this.**
- **You can install the controller in the battery compartment. You can also route the cable outside of the battery compartment if you wish. The photos here show the controller mounted alongside the battery.**
- **Secure the connection cable where you route in from the solenoid valve**



Alfa Stelvio – Additional photos of installation



Controller operation summary

- **When controller is in “Normal” mode, the car’s ECU controls valves. This is as if the controller is not installed at all.**
- **Always Open mode ... in this mode, the bypass valves will be open regardless of the vehicle’s speed, engine RPM or throttle position.**
- **Always Closed mode ... disabled for Alfa Giulia.**
 - Disabled due to Engine Check Light fault when car is in race mode
- **Controller is initially shipped to use the Remote Fob, but you have option to use a manual switch instead. Splice into black (or blue) wire and route to manual On/Off switch that you mount in the cabin.**
 - The black (or blue) wire is merely a path to ground. There is no need to fuse protect it.
 - Full details included in the installation instruction document.