



**Alfa Romeo Giulia 2.0L Turbo
Power+ ECM Installation Manual**



Introduction

Thank you for purchasing the SILA Concepts **Power+ ECM**. The **Power+ ECM** has been developed and produced to ensure the best performance for the life of your vehicle.

The **Power+ ECM** is a Plug-and-Play add-on (or “piggyback”) Engine Control Module (ECM) that offers additional features not available on a stock engine. It uses all the factory data, and then enhances the factory settings to optimize your vehicles performance.

The **Power+ ECM** offers a power increase over stock throughout the RPM range, but the power is most noticeable in midrange RPM's. This greatly improves drivability and performance. The first thing you will notice is improved performance, especially if this is your first time driving a turbo vehicle with a performance module. You will experience more power, better throttle response, better passing and acceleration.

IMPORTANT:

Read all Safety, Warranty, and Installation Instructions before installing this product. Read through these instructions completely so that you understand each step prior to installation.

This D.I.Y. is for informational use only.

MADNESS Autoworks will not be held responsible for any damages caused to your vehicle due to installation or due to the use of the **Power+ ECM by SILA Concepts**.

Professional installation is recommended but not required.

If you have any questions please contact us online or over the phone for assistance for any questions you may have.

Tools Required:

Flat Head Screwdriver
10mm Open-End Wrench
10mm Socket
3/8" Ratchet
6" 3/8" Extension

OPTIONAL:

O-Ring Pick
Nylon Pry Tool

Alfa Romeo Giulia 2.0L Power+ ECM Installation



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Module Installation:

The **Power+ ECM** can be mounted near the air box near the passengers side of the engine compartment. Adhere the module using Velcro or double-sided tape, allowing enough movement to decouple the box comfortably if needed.

Harness Connections:

Your MAXPower ECM is equipped with a harness that can be disconnected at the module itself. It is important to make sure that either the **Power+ ECM** is always connected to the harness when the wiring harness is installed on the vehicle. Not doing so may cause the vehicle to run improperly, may trigger warning lights or Check Engine Light (CEL), or any combination thereof.

Engine Cover Removal:

1. Pry the two plastic covers near the front of the engine cover that hide two 10mm bolts with a flat head screwdriver.
2. Remove the two 10mm bolts that hold the engine cover down.
3. Gently pull up on the corners of the engine cover to remove the engine cover from the engine bay.
4. Reinstall the two 10mm bolts that hold the engine cover in place to seal the valve covers and keep oil from misting the engine bay should the car be started before reinstalling the engine cover.



Removing Right Side Engine Cover/ Heat shield:

In order to gain access to some of the sensors we need to remove the right side engine cover/heat shield.

1. Pry the two clips that hold the breather hoses in place using a flat head screwdriver.
2. Remove the two 10mm bolts holding this piece in place.
3. Pull the piece straight up to remove from the vehicle.



Sensor Connections Overview:



The image above shows the location of the sensors the **Power+** taps into.

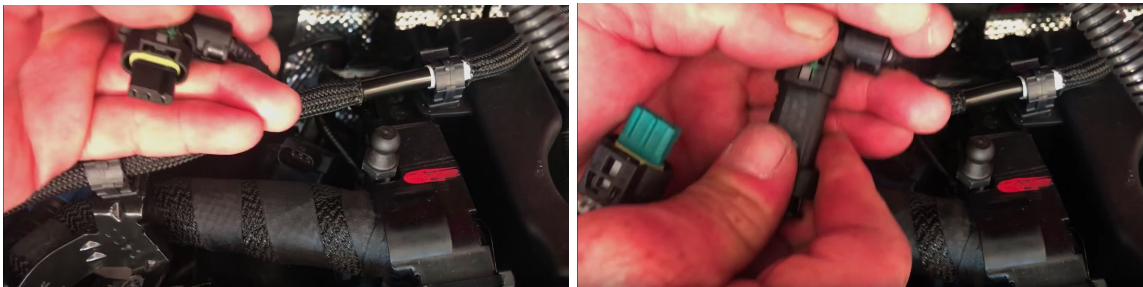
Boost Pressure Sensor
Manifold Air Pressure Sensor

Boost Pressure Sensor Connection:

The Boost Pressure Sensor is located near the back of the engine bay. See the images below to see the exact location.



1. Disconnect the factory Boost Pressure Sensor from the factory harness.
2. Connect the **Power+** Boost Pressure Sensor in between the factory Boost Pressure Sensor and the factory harness.



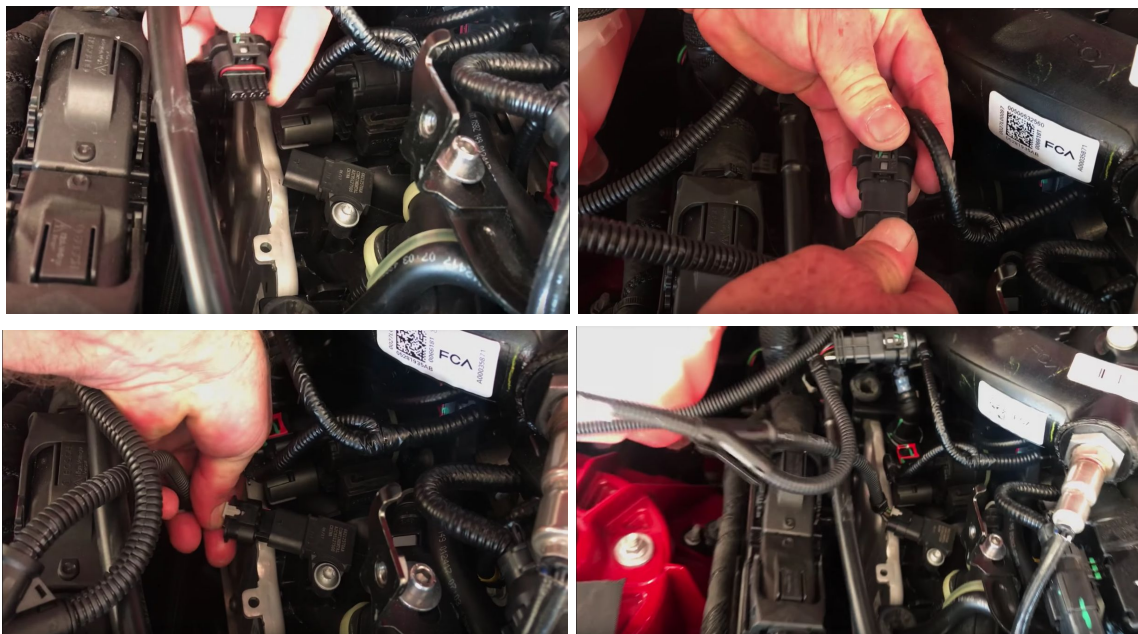
Manifold Pressure Sensor Connection:

The Manifold Pressure Sensor is located near the center of the engine bay. See the images below to see the exact location.



Disconnect the factory Manifold Pressure Sensor from the factory harness.

Connect the **Power+** Manifold Pressure Sensor in between the factory Manifold Pressure Sensor and the factory harness.



Final Inspection:

1. Recheck all connections, fittings and fasteners for a properly secure installation.
2. Re-install the engine cover prior to starting the vehicle. The bolt on the left side of the engine cover goes all the way through the valve cover. If you run the vehicle or drive it with the engine cover off, it will mist oil through the engine bay.

Operation:

The factory ECU will go through an adaptation phase with the **Power+**. In general this process should take approximately 80 miles to complete. After completion the factory ECU and **Power+** will be optimized to run together for maximum performance.

SAFETY INFORMATION

The MADNESS product you have purchased is a high performance product. As such, it does present some risks of which you should be fully aware. Do not use this product until you have carefully read all the following safety information.

SAFETY GUIDELINES:

1. Do not exceed legal speed limits on public streets. Use any performance speed capabilities of this product only in legally sanctioned racing environments expressly for this purpose.

All **Power+** modules are built to operate with OEM ECU tunes. MADNESS Autoworks updates its active products (i.e. those currently being manufactured) to work effectively with updated OEM tunes. However, this process can take some time, as MADNESS Autoworks is not always aware of calibration changes made by OEM manufacturers.

If you have used another tuner/programmer on your vehicle, you will need to revert back to stock and remove the device before using the **Power+**.

Failure to return to stock may result in PCM failure or engine damage.

Programming your vehicle may expose existing defects in your vehicle's PCM that could disable your vehicle.

Technical Support

562.981.6800

To expedite your support call please have your Vehicle Information, Part Number, Serial Number, ready prior to calling Technical Support.