

VIITS

BOOST CONTROLLER for ABARTH595



INSTRUCTION MANUAL

INSTRUCTION
E05253-E11020-00
September 2021
Ver. 3-1.01

1. Introduction

Thank you for your purchase of BOOST CONTROLLER.

- This manual indicates items that require attention in order to install this product safely and lists precautions to avoid any possible damage and/or accidents.
- This product was designed based on installation onto a specific factory vehicle or a vehicle using other HKS products. The performance and/or safety cannot be guaranteed if this product was installed onto other inapplicable vehicles.
- Contact HKS dealer for any lost parts, replacement, and this manual.
- HKS will not be responsible for any damage caused by incorrect installation and/or use of this product.
- This product works only with a vehicle with DC12V negative ground.
- The specifications of this product are subject to be changed without notice.
- This manual is subject to be revised without notice.
- When removing factory parts, refer to the factory manual. The factory manual must be purchased if you don't have it.

Product	VIITS BOOST CONTROLLER
Code Number	VIITS-EL001
Use	Boost up of turbocharged vehicle
Application	ABARTH595 COMPETIZIONE [31214T]

2. Safety Precaution

The following precautions for use of this product are to prevent possible accidents and/or injuries and for proper use.

WARNING : Indicates risk of serious injury and/or possible death.

CAUTION : Indicates risk of serious injury or property damage.

WARNING

- Make sure to work on the vehicle in a well-ventilated area to prevent possible explosion or a fire.
- Make sure to hold connectors when removing them to avoid possible damage to other electronics parts and/or a fire caused by disconnection or a short circuit.
- Stop using the product if any unusual situation is noticed. Consult the dealer immediately. Failure to do so may cause an electric shock, burn out, or damage to the vehicle.
- Make sure to work on the vehicle in area where a vehicle can be parked safely.

CAUTION

- Do not install this product by yourself.
- Do not modify, disassemble, and/or remodel the product and attached parts to avoid any damage to the unit and/or harness.
- To avoid possible malfunction and damage to the engine, install the unit away from excessive heat or water/moisture.
- Make sure all connections and wiring are not disconnected, short circuited, or incorrect. If so, it may cause an electric shock, burn out, or damage to the vehicle.
- If any unusual noise, scents, and/or vibrations are noticed, consult the dealer immediately.
- If any unusual noises, scents, and/or vibrations are noticed while driving, please refer to a factory repair manual.
- Confirm the following before reading the ECU data with this product:
 - The ECU is a factory standard.
 - Data on the ECU is not modified.
- Description of the connector, please go Always hold the connector.
 - If you pull the cable, there is a possibility of disconnection.
- Before an automobile inspection and/or repair, it is necessary to remove this product.
- Daily maintenance on the vehicle is the responsibility of the owner.

3. Product Features

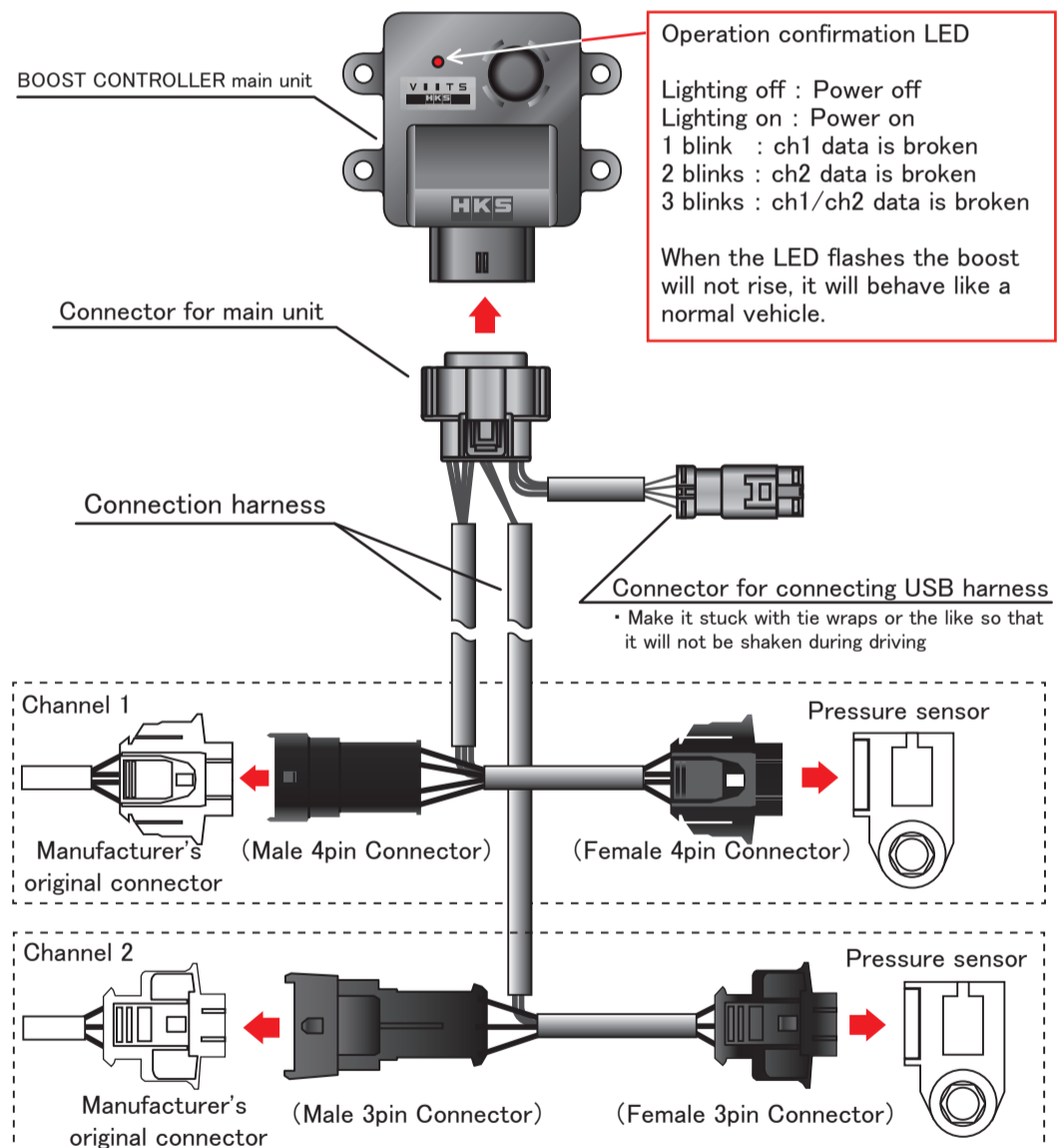
- By connecting this product between Pressure sensor and Manufacturer's original connector, boost can be easily raised.
- Even after installing this product, you can return to the normal state by connecting the "return connector" instead of the BOOST CONTROLLER main unit.
- You can change the data for the boost up of the main unit by connecting to the personal computer with USB harness included in the product and using Easy Writer for Power Editor. Easy Writer for Power Editor is available for free on the HKS website.

4. Parts List

1 BOOST CONTROLLER 1pc.	2 Connection harness 1pc.	3 USB harness 1pc.	4 Connector to return to normal 1pc.
5 Tie wrap (small) 4pc.	6 Tie wrap (large) 2pc.	7 Double-sided tape 2pc.	8 Instruction Manual 1pc.

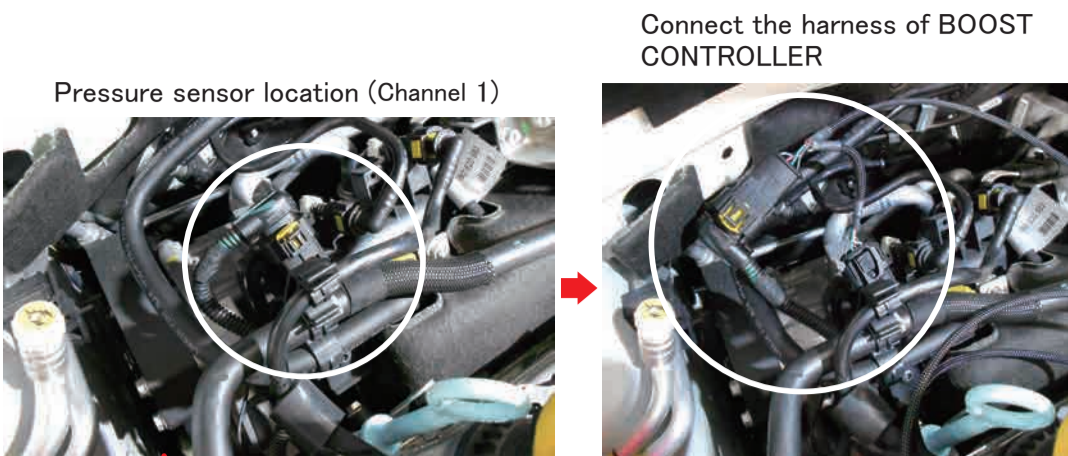
5. Installation procedure

1. Stop the engine of the vehicle and Disconnect the cable terminal from the negative terminal of the battery.
2. Install the BOOST CONTROLLER main unit in an arbitrary place.
 - Avoid the following places.
 - Places where the temperature becomes high like the engine body.
 - Places where direct water is applied.
 - Confirm that the connection harness reaches the pressure sensor.
 - When using double sided tape, clean the surface to be pasted, paste it, and use tie wraps together.
When pasting with double-sided tape only, it is dangerous when it peels off due to aged deterioration.
3. Connect the BOOST CONTROLLER main unit and Connector for main unit.



4. Disconnect Manufacturer's original connector from Pressure sensor, and wire the connection harness of BOOST CONTROLLER.
 - Longer harness is channel 1, shorter one is channel 2.
 - In factory default settings, the boost-up data in channel 1 and channel 2 are same.
 - Please be aware of the channel order during modifying boost-up data by Power Editor EasyWriter software.
5. Lock the connection harness of BOOST CONTROLLER with tie wrap so as not to hinder the running of the vehicle.
 - Places where the temperature becomes high like the engine body.
6. After confirming that all connectors are correctly connected, connect the cable terminal to the negative terminal of the battery.
7. Turn the ignition on and check that the LED of the BOOST CONTROLLER main unit lights up.
 - Even if the ignition is turned on, if the LED does not light up, poor contact of the connector may be considered.

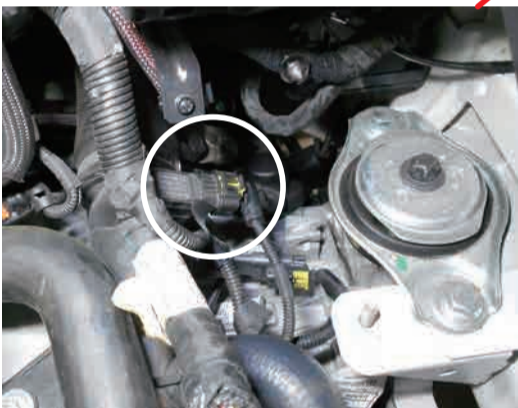
6. Recommended BOOST CONTROLLER installation location and Pressure sensor location



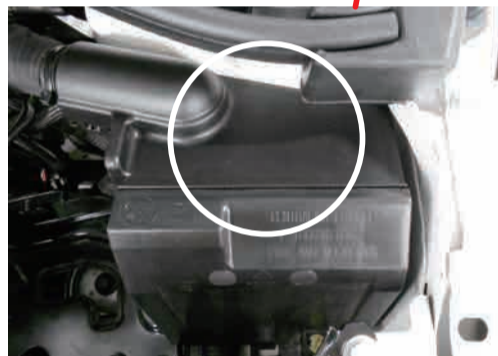
Connect the harness of BOOST CONTROLLER

Pressure sensor location (Channel 1)

※Sensor is under the circle.
We recommend to remove the air intake before installation.
Direction of view



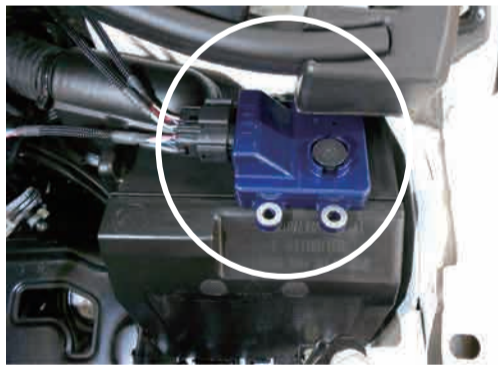
Pressure sensor location (Channel 2)



BOOST CONTROLLER installation location



Connect the harness of BOOST CONTROLLER



Install BOOST CONTROLLER main unit

※Sensor is right under the battery case.
Please remove the battery and battery case to exchange.

7. Troubleshooting

When the product does not function properly, check the following to see if there is any measure against the symptom appeared.

Symptom	Cause	Measure
The check lamp blinks only when the BOOST CONTROLLER is connected. Or boost does not go up.	The connector is disconnected.	Reseat connector of BOOST CONTROLLER main unit and pressure sensor connector.
	Wire harness is broken.	Request repair of BOOST CONTROLLER.
	BOOST CONTROLLER is out of order.	
BOOST CONTROLLER's LED is blinking.	Data writing failed with Easy Writer exclusive for Power Editor.	Write data again with Easy Writer exclusive for Power Editor.
Factory boost meter doesn't display an increase in pressure.	Features of factory boost meter.	Factory boost meter might not display an increase in pressure. This issue doesn't affect vehicle operation.

8. Maintenance

⚠ WARNING

- Do not use this product if unusual occurrences should occur to avoid risk of electrical shock and/or fire. Consult with the dealer immediately.

⚠ CAUTION

- Do not try to repair the product yourself. Consult with your dealer.
- If any unusual noises, scents, and/or vibrations are noticed while driving, please refer to a factory repair manual.

9. Repair Service

For questions about this product, any optional, lost, defective and/or damaged parts, please contact your dealer.

10. Product Specifications

- Operating Voltage DC5V - 16V
- Operating Temperature -20 - 100°C
- Outer Size 90.0 x 84.0 x 35.0mm

11. Revision of Manual

Rev. Number	Date	Details
3-1.01	2021/09	1st Edition