

Connecting the GSX-R125 (2BJ-DL33B) / GSX-S125 (2BJ-DL32B) ECU to the ENIGMA Fire Plus type-V Bluetooth version

Supported models of this manual

ENIGMA type ENIGMA FirePlus type-V (FPV430/FPV430RTF/FPV1430/FPV1430RTF)
Vehicle type SUZUKI GSX-R125 (2BJ-DL33B) / GSX-S125 (2BJ-DL32B)

If you use the RTF type, remove the coupler which is connected to the ECU, please connect the coupler that has come out from ENIGMA FirePlus type-V RTF to the ECU and the vehicle body side. Please make sure that the lock sound is a "click".

Installation should be done in a safe place.

A basic knowledge of GSX-R125 (2BJ-DL33B) / GSX-S125 (2BJ-DL32B) maintenance is necessary.

There is the ECU under the seat. Remove the 36-pin coupler then the ECU.

Make an **interrupt connection** from the ENIGMA FirePlus type-V wiring to the wiring on the coupler side.

(AN interrupt connection can made without cutting but by making a branch in the normal connection)

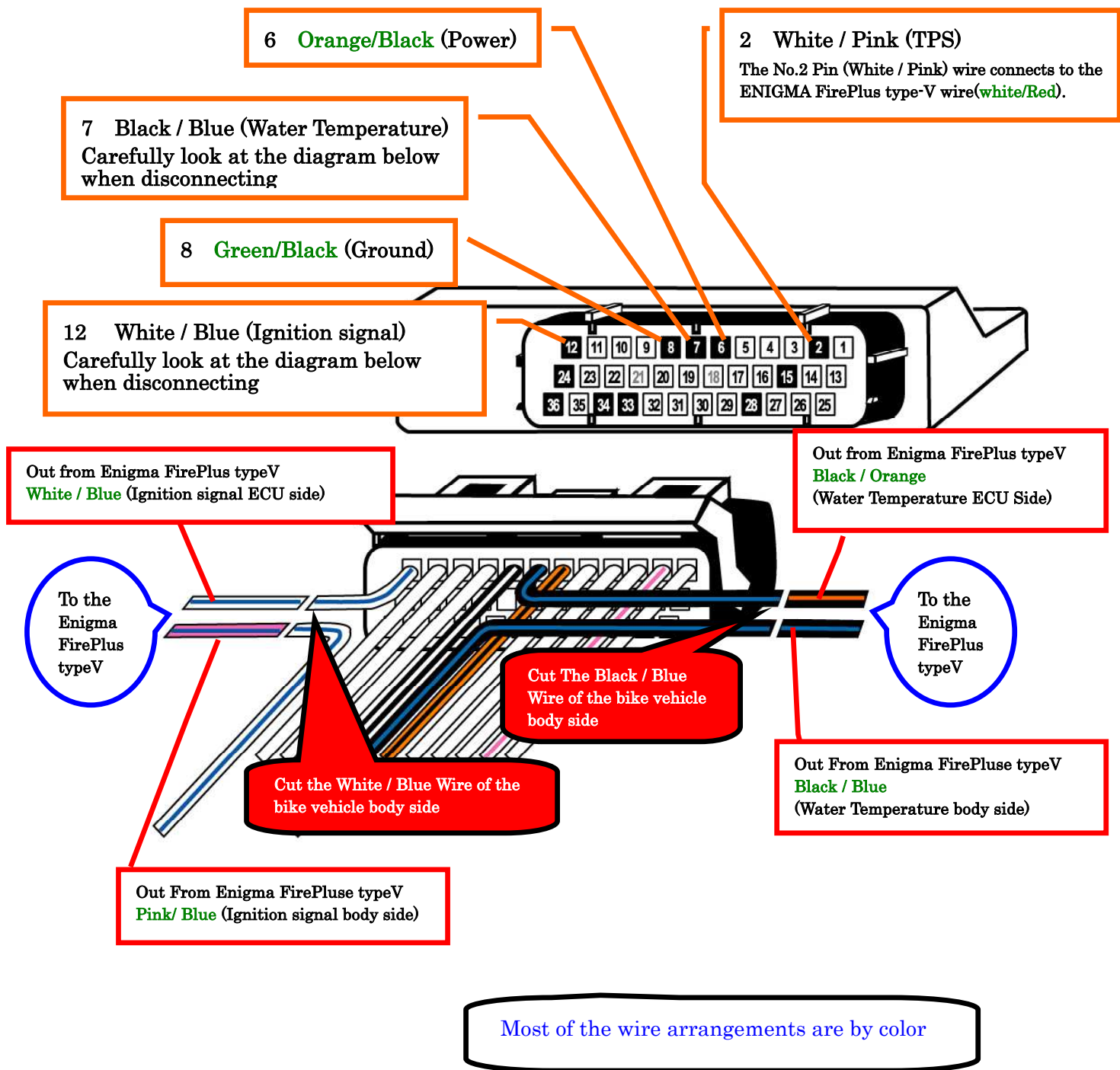
Do not use an electro tap on the interrupt wiring connection. It causes many connection issues that are problematic to the operation of the ENIGMA FirePlus type-V. (Use solder or the like for improved reliability.)

The wires from the Enigma FirePlus type-V will be the fundamentally the same, or similar to that of the wires it will connect to from the bike. Please carefully follow the diagram below when making the connection. There are a total of 17 wires.

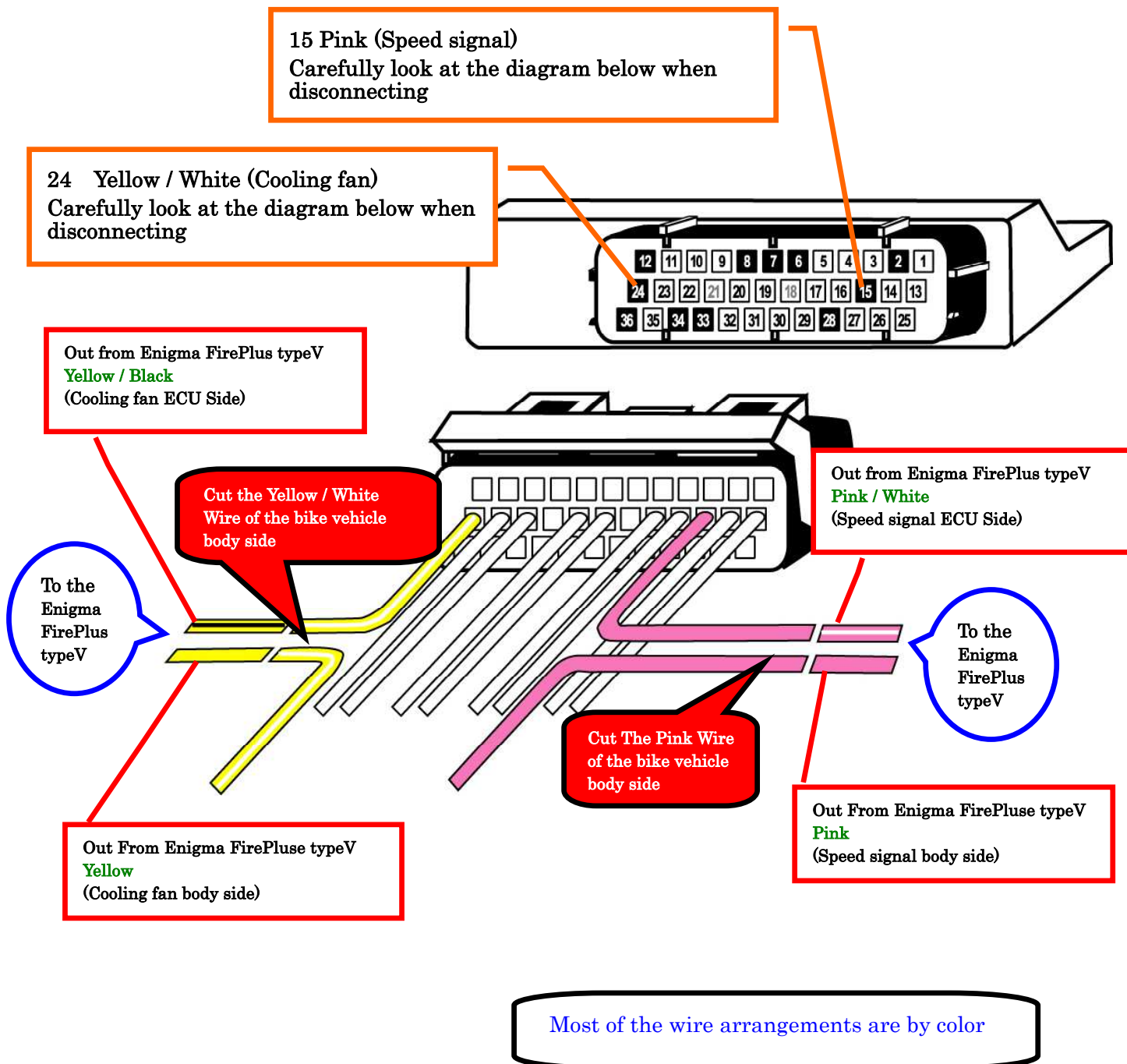
- The purple wire is a engine revolution output service cable and is not to be connected to the ECU.
- The White wire is a pit lane switch service and is not to be connected to the ECU.
 When you do not want to use the pit lane limiter function, please tip of the wire is insulated with tape so as not to short against the metal part.
- The No.2 Pin (White / Pink) wire connects to the ENIGMA FirePlus type-V wire(white/Red).
- By cutting the No.7 Pin (Black / Blue) wire of ECU (Water Temperature), the bike vehicle body side wiring from the ENIGMA FirePlus type-V connect the Black / Blue wire. Connect the Black / Orange wire the ECU side.
- By cutting the No.12 Pin (White / Blue) wire of ECU (Ignition signal), the bike vehicle body side wiring from the ENIGMA FirePlus type-V connect the Pink / Blue wire. Connect the White / Blue wire the ECU side.
- By cutting the No.15 Pin (Pink) wire of ECU (Speed signal), the bike vehicle body side wiring from the ENIGMA FirePlus type-V connect the Pink wire. Connect the Pink / White wire the ECU side.

- By cutting the No.24 Pin (Yellow/ White) wire of ECU (Cooling Fan), the bike vehicle body side wiring from the ENIGMA FirePlus type-V connect the Yellow wire. Connect the Yellow / Black wire the ECU side.
- The No.28 Pin (Deep Green) wire connects to the ENIGMA FirePlus type-V wire(Green/Red).
- By cutting the No.33 Pin (Green/ Blue) wire of ECU (Meter), the bike vehicle body side wiring from the ENIGMA FirePlus type-V connect the Blue / Green wire. Connect the Gray / Green wire the ECU side.
- By cutting the No.34 Pin (Green/ White) wire of ECU (Injection signal), the bike vehicle body side wiring from the ENIGMA FirePlus type-V connect the Green / Black wire. Connect the Black wire the ECU side.
- In order to prevent the reporting water from entering into the ENIGMA FirePlus type-V inside from the base of the wiring from the ENIGMA FirePlus type-V, it is recommended that you install in the lower wiring side in the vertical the ENIGMA FirePlus type-V.

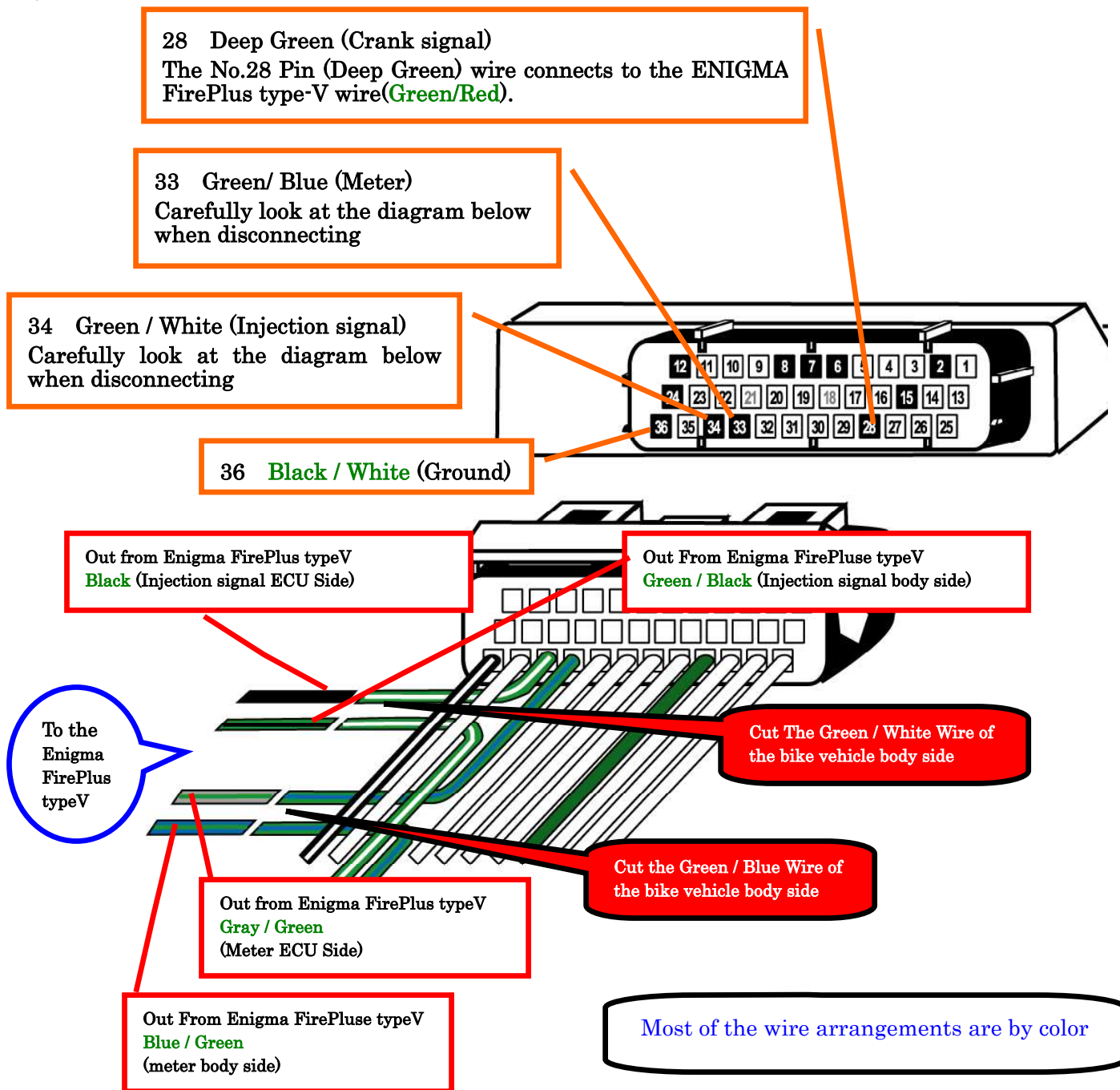
Only the upper row



Only the middle row



Only the lower row



ECU terminal connected 11wires 2, 6, 7, 8, 12, 15, 24, 28, 33, 34, 36. Please confirm the picture.

The White wire is a pit lane switch service and is not to be connected to the ECU. When you do not want to use the pit lane limiter function, please tip of the wire is insulated with tape so as not to short against the metal part.

The purple line is the service output line. The ENIGMA FirePlus type-V will output 5V each crank rotation. Most commercially available digital tachometers are supported. Exact values will be displayed if these cables are connected. They are useful to various applications. Do not short-circuit by taping when there is no need.

The limiter has not been canceled after the wiring connection is complete. It can be easily canceled by communicating with the Enigma operating software on a smartphone or PC.

Please use the ENIGMA FirePlus type-V dedicated app for the iOS/Android version of the app. Download the **GSX-R125 2BJ-DL33B / GSX-S125 2BJ-DL32B** dedicated ENIGMA FirePlus type-V app from the model selection screen in the app. Other Vehicle dedicated apps cannot be used.

Please use the **GSX-R125 2BJ-DL33B / GSX-S125 2BJ-DL32B** dedicated ENIGMA FirePlus type-V PCsoftware. Other Vehicle, Other ENIGMA dedicated PCsoftwares, cannot be used.

There are 2 types of the ENIGMA FirePlus type-V app (PC software): **EASY mode** and **PRO mode**.

In **PRO mode**, if you cannot create the ignition map yourself, the engine may not start, the rotation may not increase, or the engine may be destroyed in the worst case. If you are new to this, please use **EASY mode**.

The Enigma FirePlus type-V operating software can be downloaded free from our website.

<http://www.dilts-japan.com>

Installation of the pit lane limiter switch

"white wire" that has come out from ENIGMA FirePlus type-V is the wiring for the pit lane limiter switch installation.

Pit lane limiter to the rotation of the constant engine speed to control the speed only when the external switch ON

You control. Do those who want to use this feature by performing the following tasks.

In general, to buy a handle mounting switch, which is commercially available, it should be placed in easy-to-use position.

(If you are installing to handle and place easy to operate location does not interfere with operation)

Switch is common thing that cuts in the "OFF" position to connect with the "ON" position.

Switch is not suitable to be connected only when you press. be careful.

Connect the White line the installation of the switch is out of the ENIGMA FirePlus type-V when finished.

Connect the White line to one of the terminals of the switch. The other is connected to ensure that "body earth".

The most reliable of is to connect to the negative battery. Circuit will be burned down and unavailable when connecting to the positive wrong. Never done.

This completes the installation of pit lane limiter switch with more work

When you do not want to use the pit lane limiter function, please tip of the wire is insulated with tape so as not to short against the metal part.