Connecting the Z125/Z125Pro to the Enigma FirePlus　Bluetooth version

Supported models of this manual

ENIGMA type　ENIGMA FirePlus (FBD510 / FBD510RTF)
Vehicle type　　KAWASAKI Z125 PRO

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 FirePlusRTF to the ECU and the vehicle body side. Please make sure that the lock sound is a "click".
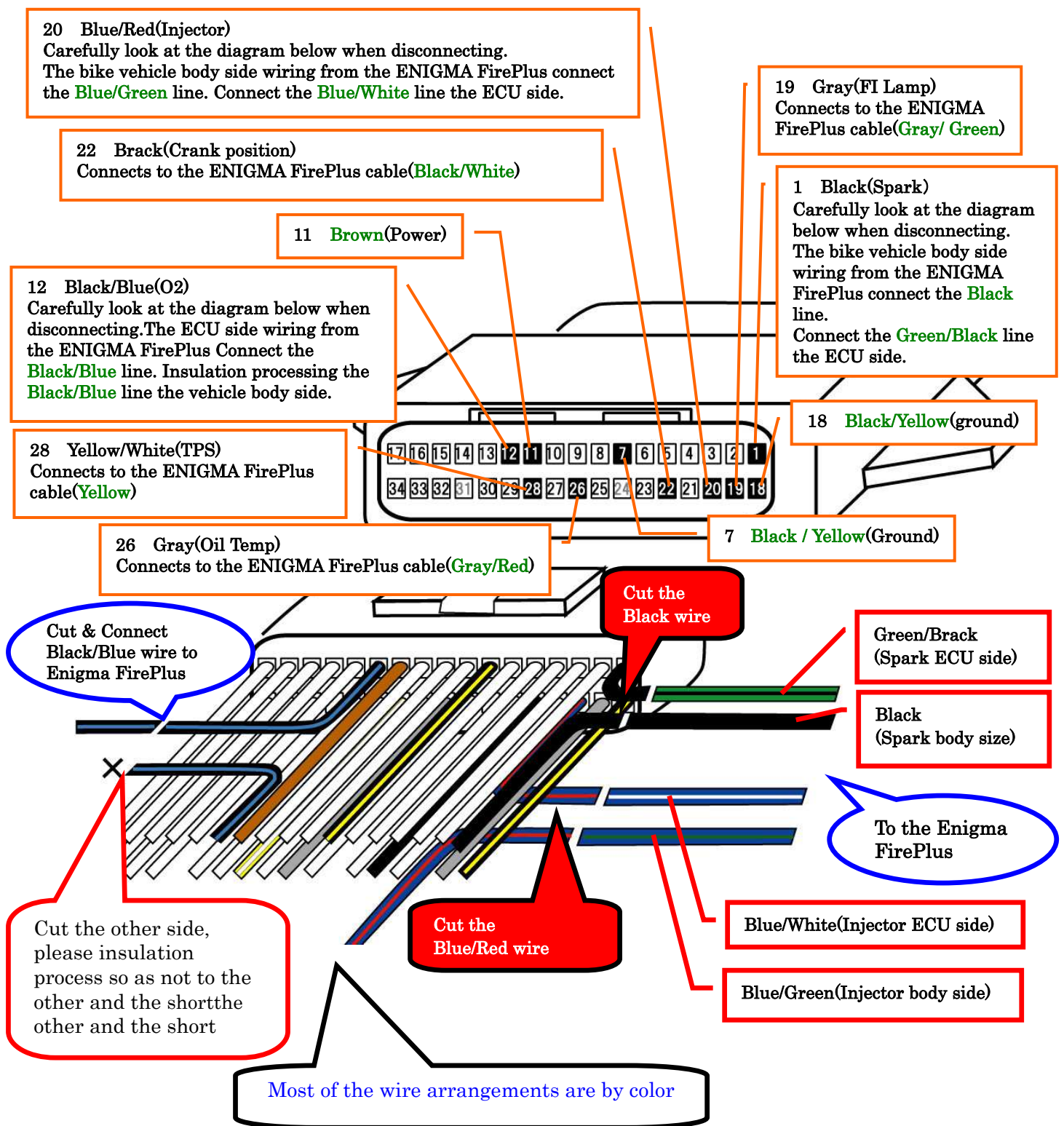
Installation should be done in a safe place. A basic knowledge of　Z125/Z125 Pro maintenance is necessary. On a standard bike, the ECU placed under seat. This can be accessed by removing the seat. Remove the 34-pin coupler then the ECU.

Make an interrupt connection from the Enigma FirePlus 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. (Use solder or the like for improved reliability.)

The wires from the Enigma FirePlus 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 12 wires.

- **The purple cable (revolution service cable) and the white cable(pit lane switch) are not to be connected to the ECU.**

- By cutting the No.1 Pin (black) line of ECU (spark), the bike vehicle body side wiring from the Enigma FirePlus connect the black line. Connect the green / black line the ECU side.

- By cutting the No.20 Pin (blue / red) line of ECU (Injectctor), the bike vehicle body side wiring from the Enigma FirePlus connect the blue / red line. Connect the blue / white line the ECU side.

- No.19 Pin (gray) line of ECU (FI lamp), Connect the gray / green wire from the Enigma FirePlus.

- No.22 Pin (black) line of ECU (clank), Connect the black / white wire from the Enigma FirePlus.

- No.26 Pin (gray) line of ECU (oil temp), Connect the gray / red wire from the Enigma FirePlus.

- No.28 Pin (yellow/white) line of ECU (TPS), Connect the yellow wire from the Enigma FirePlus.

- No.7 Pin and No.18 pin is both black/yellow line.(GND). Yellow / black line from Enigma FirePlus since has come out two, please connect either to each.

- By cutting the No.12 Pin (black / blue) line of ECU (O2 sensor), the ECU side wiring from the Enigma FirePlus Connect the black / blue line. Insulation processing the black / blue line the vehicle body side.

- In order to prevent the reporting water from entering into the Enigma FirePlus inside from the base of the wiring from the Enigma FirePlus , it is recommended that you install in the lower wiring side in the vertical the Enigma FirePlus.

In such wiring mistake, if an error occurs in the ECU, you will need to have to clear the error, etc. KAWASAKI dealer.

20 Blue/Red(Injector)
Carefully look at the diagram below when disconnecting.
The bike vehicle body side wiring from the ENIGMA FirePlus connect the Blue/Green line. Connect the Blue/White line the ECU side.

19 Gray(FI Lamp)
Connects to the ENIGMA FirePlus cable(Gray/ Green)

22 Brack(Crank position)
Connects to the ENIGMA FirePlus cable(Black/White)

1 Black(Spark)
Carefully look at the diagram below when disconnecting.
The bike vehicle body side wiring from the ENIGMA FirePlus connect the Black line.
Connect the Green/Black line the ECU side.

11 Brown(Power)

12 Black/Blue(O2)
Carefully look at the diagram below when disconnecting.The ECU side wiring from the ENIGMA FirePlus Connect the Black/Blue line. Insulation processing the Black/Blue line the vehicle body side.

28 Yellow/White(TPS)
Connects to the ENIGMA FirePlus cable(Yellow)

18 Black/Yellow(ground)

26 Gray(Oil Temp)
Connects to the ENIGMA FirePlus cable(Gray/Red)

7 Black / Yellow(Ground)

Cut the Black wire

Cut & Connect Black/Blue wire to Enigma FirePlus

Green/Brack (Spark ECU side)

Black (Spark body size)

To the Enigma FirePlus

Cut the other side, please insulation process so as not to the other and the shortthe other and the short

Cut the Blue/Red wire

Blue/White(Injector ECU side)

Blue/Green(Injector body side)

Most of the wire arrangements are by color

Terminal that connects to the ECU is 1, 7, 11, 12, 18, 19, 20,22, 26,28　10 places of.
Please check the above diagram

The white line that has come out from Enigma FirePlus is the wiring for the pit-limiter! Tip when not in use.Please insulated with tape so as not to short against the metal part.

The purple line is the service output line. The Enigma FirePlus 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 FirePlus operating appli/software on a smartphone or PC.

Please use the **Z125/Z125 Pro** dedicated ENIGMA FirePlus dedicated app.

Other Vehicle dedicated apps cannot be used.

Please use the **Z125/Z125 Pro** dedicated ENIGMA FirePlus PCsoftware.Other Vehicle, Other ENIGMA dedicated PCsoftwares,cannot be used.

There are 2 types of the ENIGMA FirePlus 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 operating software for PC can be downloaded free from our website.

<p style="text-align:center">http://www.dilts-japan.com</p>

Installation of the pit lane limiter switch

"White wire" that has come out from Enigma FirePlus 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 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.

Z125 is while the engine is stopped FI lamp even if there is no error lit. When the engine is started, usually FI lamp is off.
Enigma FirePlus connection after the ignition key turned ON Enigma FirePlus at full throttle becomes a communication state, but flashes the FI lamp in order to confirm this state visually, until the engine start-up, FI lamp will remain lit. you. Communication in this situation is possible. When the engine is started, during the communication state FI lamp will double blink.
Enigma FirePlus when the ignition key ON the throttle closed becomes a state that does not communicate, FI lamp when the engine is started it will go out as usual. Since it has worked the fuel adjustment function and limiter function also Enigma FirePlus in this state, when not carried out, such as setting, please use the throttle closing of the ignition key ON.

If you install a Z125 for Enigma FirePlus to cancel the ignition limiter of 11,000 revolution / min to normal ECU has. When you set the limiter of Enigma FirePlus to more than 11,000 revolution / min in the PC and Smartphone, and rotate the 11,000 revolution / min or more engine, normal ECU is FI lamp to detect the error of abnormal ignition is turned on. Error only is detected, ECU will not go to the emergency mode. Each time to clear the FI lamp, you must clear the error at the KAWASAKI dealer, or our DDCS. If you do not want to occur an error, please refer to the limiter setting of Enigma FirePlus below 11,000 revolution / min.