

Connecting the NMAX125(SE86J) ECU to the Enigma FirePlus Bluetooth version

Supported models of this manual

ENIGMA type ENIGMA FirePlus (FBD-260 / FBD-260 RTF)
Vehicle type YAMAHA NMAX125(SE86J)

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 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 NMAX125 maintenance is necessary. On a standard bike, the ECU placed under seat. This can be accessed by removing the seat. Remove the 48-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 16 wires.

- **The purple cable is a service cable and is not to be connected to the ECU.**
- By cutting the No.33 Pin (orange) line of ECU (spark), the bike vehicle body side wiring from the Enigma FirePlus connect the orange line. Connect the orange / white line the ECU side.
- By cutting the No.5 Pin (Orange/ Black) line of ECU (Fuel), the bike vehicle body side wiring from the Enigma FirePlus connect the Orange/ Black line. Connect the Orange/ Blue line the ECU side.
- By cutting the No.13 Pin (Brown) line of ECU (VVA-), the bike vehicle body side wiring from the Enigma FirePlus connect the Brown line. Connect the Pink line the ECU side.
- By cutting the No.15 Pin (Green) line of ECU (VVA+), the bike vehicle body side wiring from the Enigma FirePlus connect the Green line. Connect the Green/ Black line the ECU side.
- **When you do not want to use the VACS function, do not cut the wiring NO.13(Brown) and No.15(Green) of the ECU,and insulate each lines of Enigma Fire Plus.(Brown, Green, Pink, Green/Black)**
- By cutting the No.44 Pin (Yellow/Blue) line of ECU (FI Lamp), the bike vehicle body side wiring from the Enigma FirePlus connect the Yellow/Blue line. Connect the Yellow/Black line the ECU side.
- By cutting the No.40 Pin (Gray / Red) line of ECU (O2 sensor), the ECU side wiring from the Enigma FirePlus Connect the black line. Insulation processing the Blackline 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.**

Top 2 rows

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

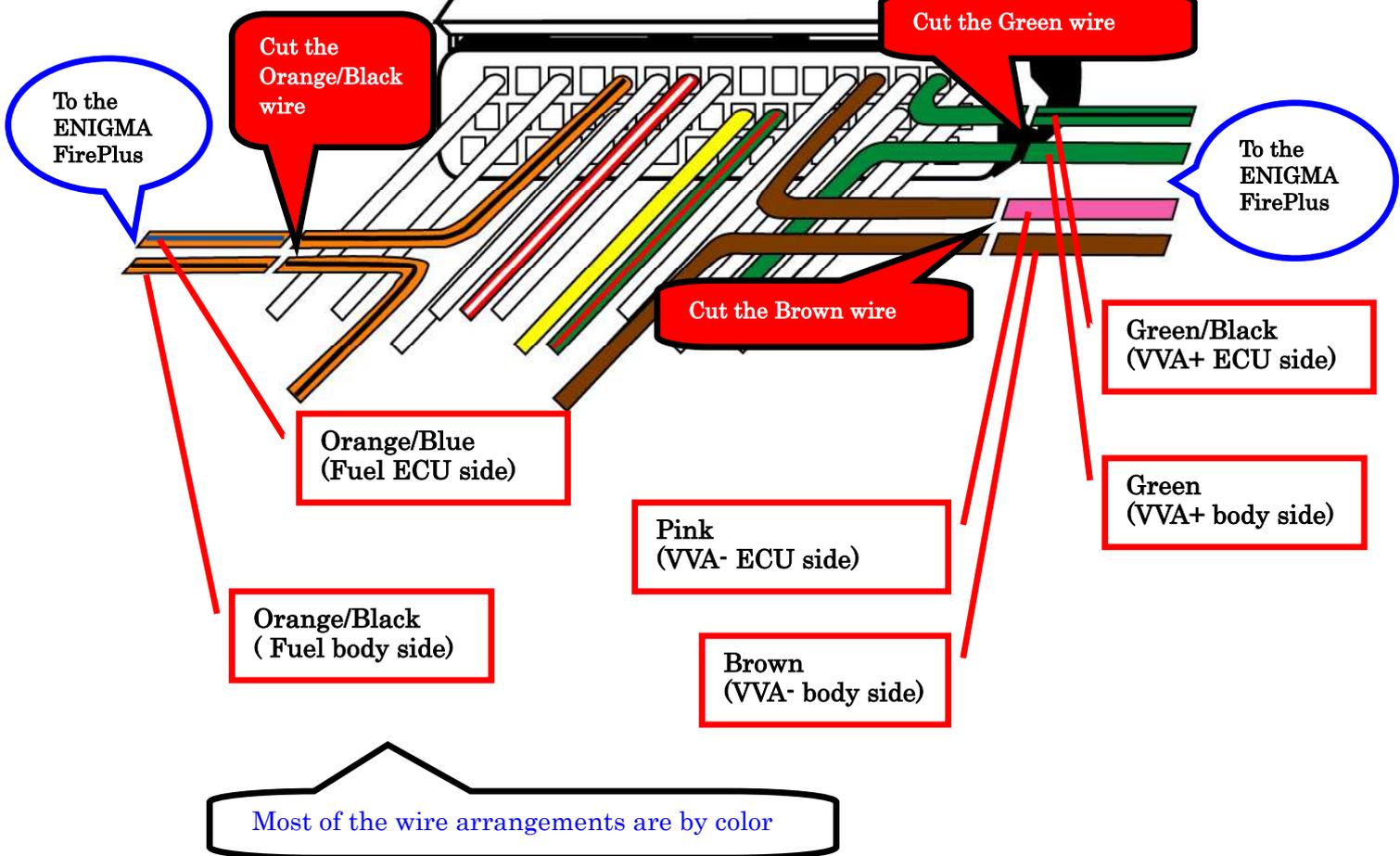
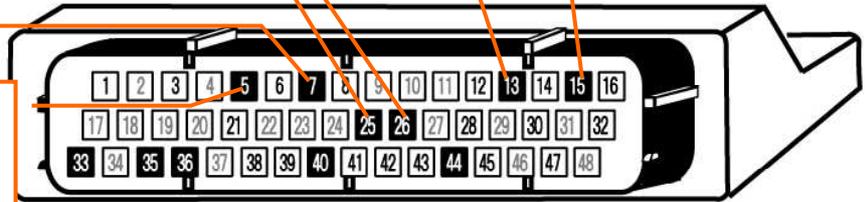
13 Brown(VVA-)
 Carefully look at the diagram below when disconnecting.
 The bike vehicle body side wiring from the ENIGMA FirePlus connect the **Brown** line. Connect the **Pink** line the ECU side.

26 Green/Red(Water Temp)

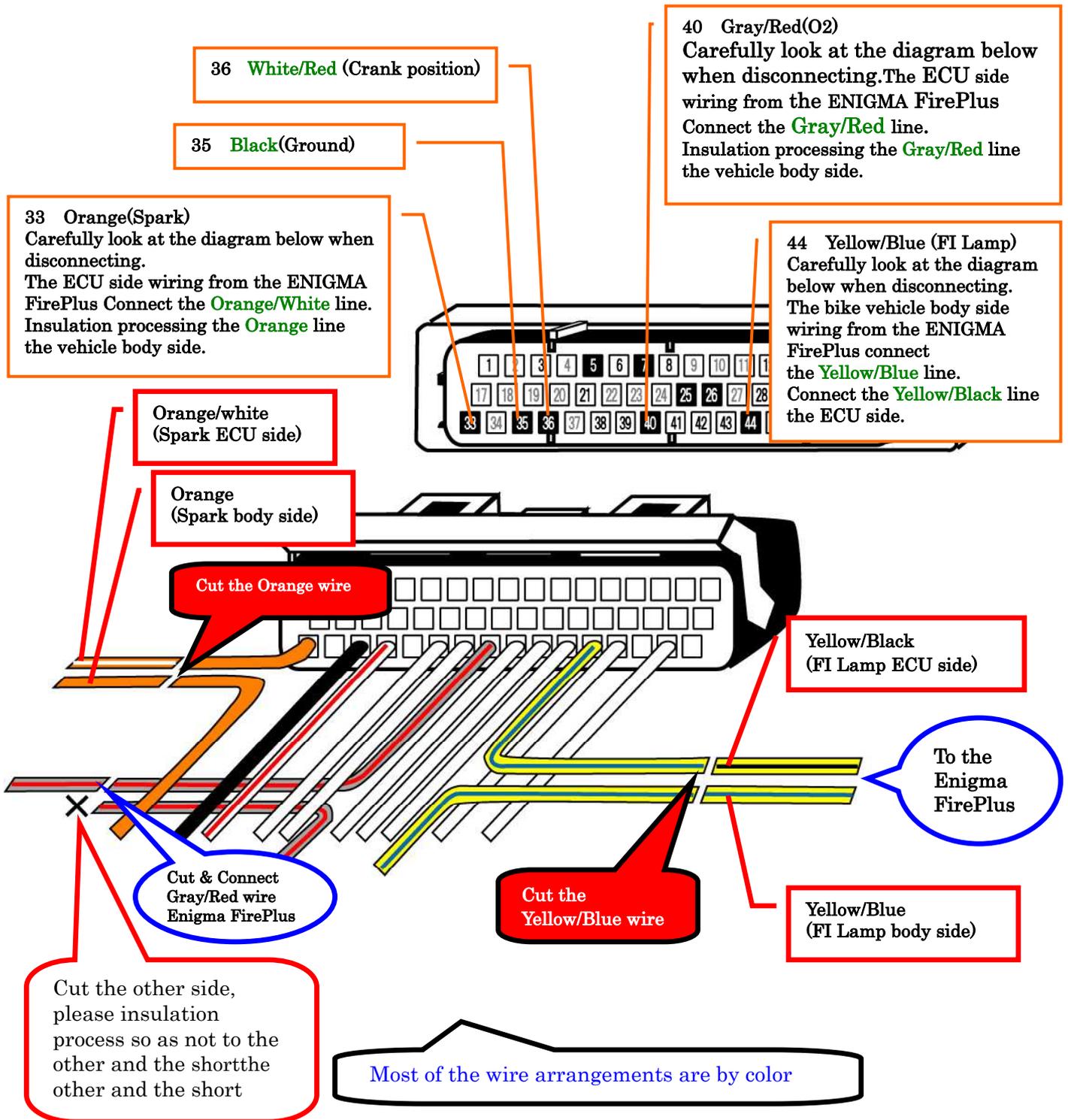
25 Yellow(TPS)

7 Red/White(Power)

5 Orange/Black (Fuel)
 Carefully look at the diagram below when disconnecting.
 The bike vehicle body side wiring from the ENIGMA FirePlus connect the **Orange/Black** line. Connect the **Orange/Blue** line the ECU side.



Lower 1 rows



Terminal that connects to the ECU is 5, 7, 13, 15, 25, 26, 33, 35, 36, 40, 44 11 places of.
Please check the above diagram

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 app/software on a smartphone or PC.

When connecting the YAMAHA DIAGNOSTIC TOOL, remove the ENIGMA Fire Plus or restore the disconnected Yellow / Blue wiring as before.

Because of the NMAX 125 dedicated ENIGMA FirePlus has replacer function, but has not Idling adjustment function, the Idling adjustment function are not displayed for operation PC software and app.

Please use the NMAX125 dedicated ENIGMA FirePlus PC software. Other Vehicle, Other ENIGMA dedicated PC softwares, cannot be used.

Please use the ENIGMA FirePlus dedicated app for the iOS/Android version of the app.

Download the NMAX 125 dedicated ENIGMA FirePlus app from the model selection screen in the app. Other Vehicle dedicated apps 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.

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