Connecting the CYGNUS-X(2BJ-SED8J) ECU
to the ENIGMA Fire Plus type-V Bluetooth version

Supported models of this manual
ENIGMA type   ENIGMA FirePlus type-V (FPV213 / FPV213RTF)
Vehicle type   YAMAHA CYGNUS-X (2BJ-SED8J)/BW'S 125(SED9J)
                      This ENIGMA FirePlus type-V can't connect the CYGNUS-X(EBJ-SEA5J).
                      This manual is for the ENIGMA FirePlus type-V.

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 CYGNUS-X (2BJ-SED8J)/BW'S 125(SED9J) maintenance is necessary. There is an ECU under the seat and remove gas tank side cover and rubber mount.

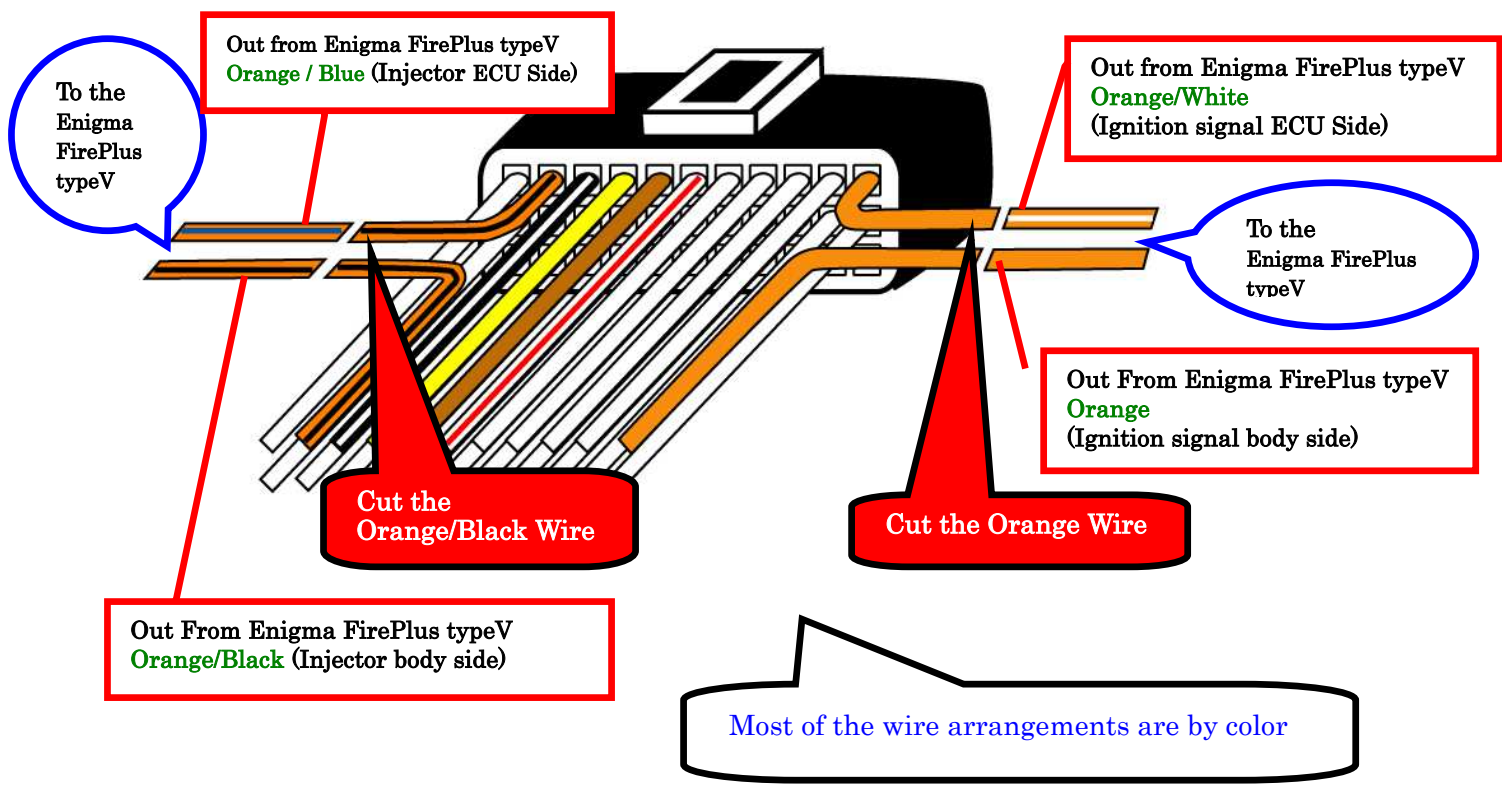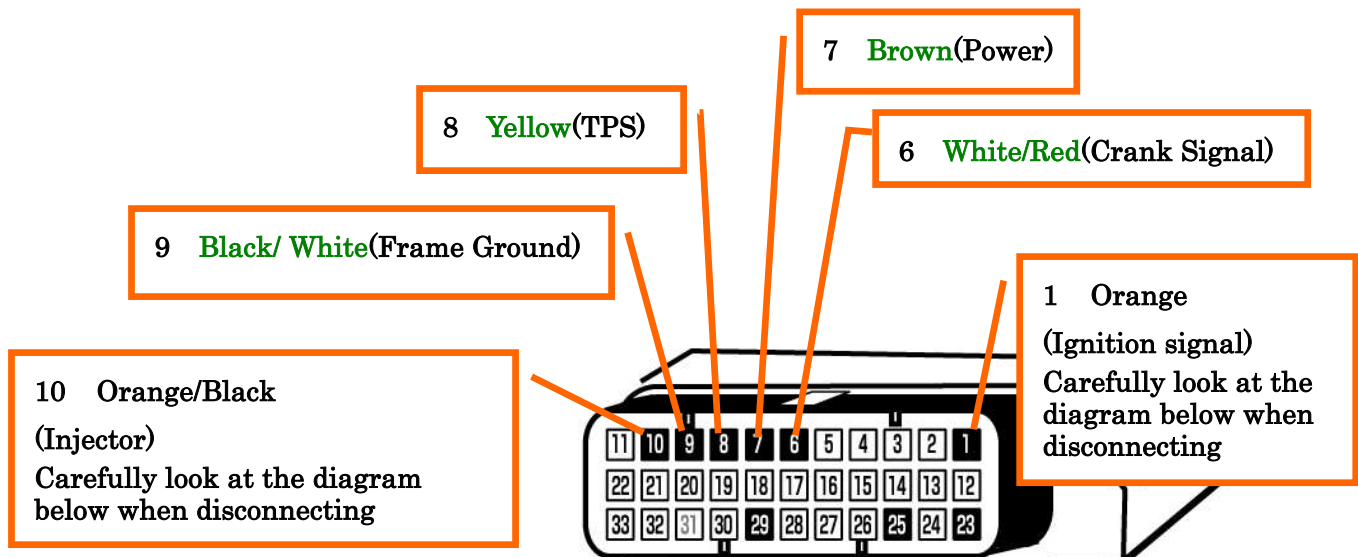Make an interrupt connection from the ENIGMA FirePlus type-V wiring to the wiring on the coupler side. (AN interrupt connection can made without cutting but by making a branch in the normal connection) Do not use an electro tap on the interrupt wiring connection. It causes many connection issues that are problematic to the operation of the ENIGMA FirePlus type-V. (Use solder or the like for improved reliability.)
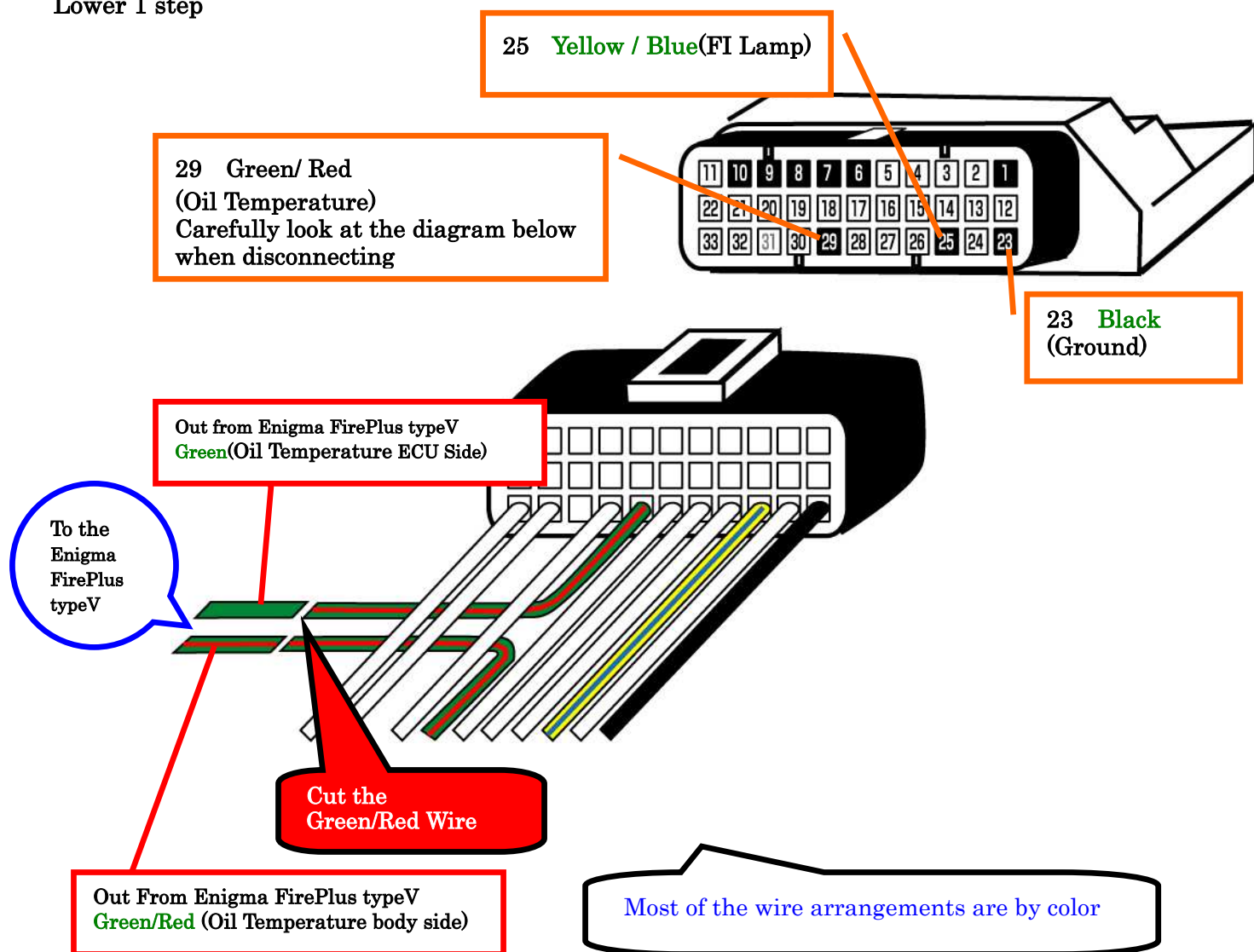
The wires from the Enigma FirePlus type-V will be the fundamentally the same, or similar to that of the wires it will connect to from the bike. Please carefully follow the diagram below when making the connection. There are a total of 12 wires.

・By cutting the No.1 Pin (Orange) wire of ECU (Ignition signal), the bike vehicle body side wiring from the ENIGMA FirePlus type-V connect the Orange wire. Connect the Orange / White wire the ECU side.

・By cutting the No.10 Pin (Orange / Black) wire of ECU (Injector), the bike vehicle body side wiring from the ENIGMA FirePlus type-V connect the Orange / Black wire. Connect the Orange / Blue wire the ECU side.

・By cutting the No.29 Pin (Green / Red) wire of ECU (Oil Temperature), the bike vehicle body side wiring from the ENIGMA FirePlus type-V connect the Green / Red wire. Connect the Green 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.

・The purple wire is a engine revolution output service cable and is not to be connected to the ECU.

Top 2steps

7　Brown(Power)

8　Yellow(TPS)

6　White/Red(Crank Signal)

9　Black/ White(Frame Ground)

1　Orange
(Ignition signal)
Carefully look at the diagram below when disconnecting

10　Orange/Black
(Injector)
Carefully look at the diagram below when disconnecting

Out from Enigma FirePlus typeV
Orange / Blue (Injector ECU Side)

To the Enigma FirePlus typeV

Out from Enigma FirePlus typeV
Orange/White
(Ignition signal ECU Side)

To the Enigma FirePlus typeV

Out From Enigma FirePlus typeV
Orange
(Ignition signal body side)

Cut the Orange/Black Wire

Cut the Orange Wire

Out From Enigma FirePlus typeV
Orange/Black (Injector body side)

Most of the wire arrangements are by color

Lower 1 step

25   Yellow / Blue(FI Lamp)

29   Green/ Red
(Oil Temperature)
Carefully look at the diagram below
when disconnecting

23   Black
(Ground)

Out from Enigma FirePlus typeV
Green(Oil Temperature ECU Side)

To the
Enigma
FirePlus
typeV

Cut the
Green/Red Wire

Out From Enigma FirePlus typeV
Green/Red (Oil Temperature body side)

Most of the wire arrangements are by color

ECU terminal connected 9wires 1,6,7,8,9,10,23,25,29.Please confirm the picture.

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 **CYGNUS-X 2BJ-SED8J** dedicated ENIGMA FirePlus type-V app from the model selection screen in the app. Other Vehicle dedicated apps cannot be used.

Please use the **CYGNUS-X 2BJ-SED8J** 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