

Connecting the CYGNUS-X(2BJ-SE44J) ECU to the ENIGMA SemiFull Bluetooth version

Supported models of this manual

ENIGMA type ENIGMA SemiFull (SF2210 / SF2210RTF)

Vehicle type YAMAHA CYGNUS-X (EBJ-SE44J), Taiwan 7th periods, BWS125X Taiwan

Installation should be done in a safe place. A basic knowledge of CYGNUS-X (2BJ-SE44J) maintenance is necessary. On a standard bike, the ECU will fixed with two Phillips head screws on the front lower left. This can be accessed by removing the front cowl. Remove the 34-pin coupler then the ECU.

Make an **interrupt connection** from the ENIGMA SemiFull wiring to the wiring on the coupler side.

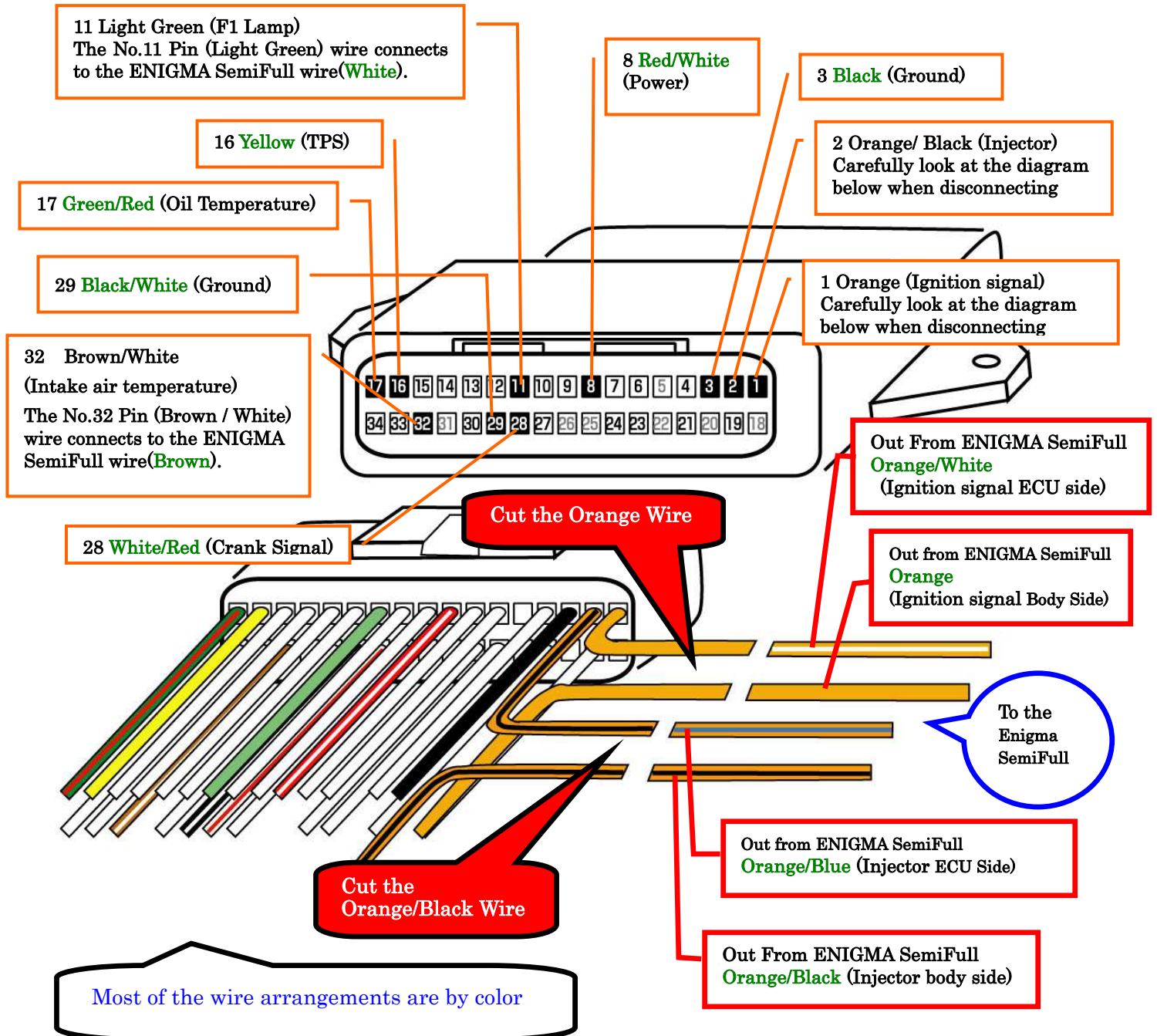
(AN interrupt connection can made without cutting but by making a branch in the normal connection)

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 SemiFull. (Use solder or the like for improved reliability.)

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 SemiFull RTF to the ECU and the vehicle body side. Please make sure that the lock sound is a "click".

The wires from the ENIGMA SemiFull 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 wire is a engine revolution output service cable and is not to be connected to the ECU.**
- **The Blue/White wire is a wire for the MAP changeover switch and is not to be connected to the ECU. When you do not want to use the wiring for the MAP changeover function, please tip of the wire is insulated with tape so as not to short against the metal part.**
- **By cutting the No.1 Pin (Orange) wire of ECU (Ignition signal), the bike vehicle body side wiring from the ENIGMA SemiFull connect the Orange wire. Connect the Orange/White wire the ECU side.**
- **By cutting the No.2 Pin (Orange / Black) wire of ECU (Injector), the bike vehicle body side wiring from the ENIGMA SemiFull connect the Orange / Black wire. Connect the Orange / Blue wire the ECU side.**
- **The No.11 Pin (Light Green) wire connects to the ENIGMA SemiFull wire(White).**
- **The No.32 Pin (Brown / White) wire connects to the ENIGMA SemiFull wire(Brown).**
- **In order to prevent the reporting water from entering into the ENIGMA SemiFull inside from the base of the wiring from the ENIGMA SemiFull, it is recommended that you install in the lower wiring side in the vertical the ENIGMA SemiFull.**



ECU terminal connected 10wires 1,2,3,8,11,16,17,28,29,32. Please confirm the picture.

The purple line is the service output line. The ENIGMA SemiFull will output 5V each crank rotation (or Once every two crank revolutions). 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.

Please use the ENIGMA Semifull dedicated app for the iOS/Android version of the app. Download the **CYGNUS-X(EBJ-SE44J)** dedicated ENIGMA Semifull app from the model selection screen in the app. Other Vehicle dedicated apps cannot be used.

Please use the **CYGNUS-X(EBJ-SE44J)** dedicated ENIGMA Semifull PCsoftware. Other Vehicle, Other ENIGMA dedicated PCsoftwares,cannot be used.

The ENIGMA SemiFull operating software can be downloaded free from our website.

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

Installation of the MAP changeover switch

"Blue/White wire" that has come out from ENIGMA Semiful is the wiring for the MAP changeover switch installation. You can instantly switch between a two maps with the MAP changeover switch.

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 Blue/White line from the ENIGMA Semiful when finished the installation of the switch.

Connect the Blue/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 wiring for the MAP changeover switch with more work.

When you do not want to use the wiring for the MAP changeover function, please tip of the wire is insulated with tape so as not to short against the metal part.

When switching maps, Be sure to transfer the data to both maps before starting to avoid engine trouble.