

Connecting the MSX125(before 2015 Projector headlight model) ECU to the Enigma Bluetooth version

Supported models of this manual

ENIGMA type ENIGMA (EBD330 / EBD330RTFW)
Vehicle type HONDA GROM/MSX125 (EBJ-JC61 1000001-1299999)
 before 2015 projector headlight model

**This manual is before 2015 projector headlight model only.
 After 2016 LED headlight model is another manual.**

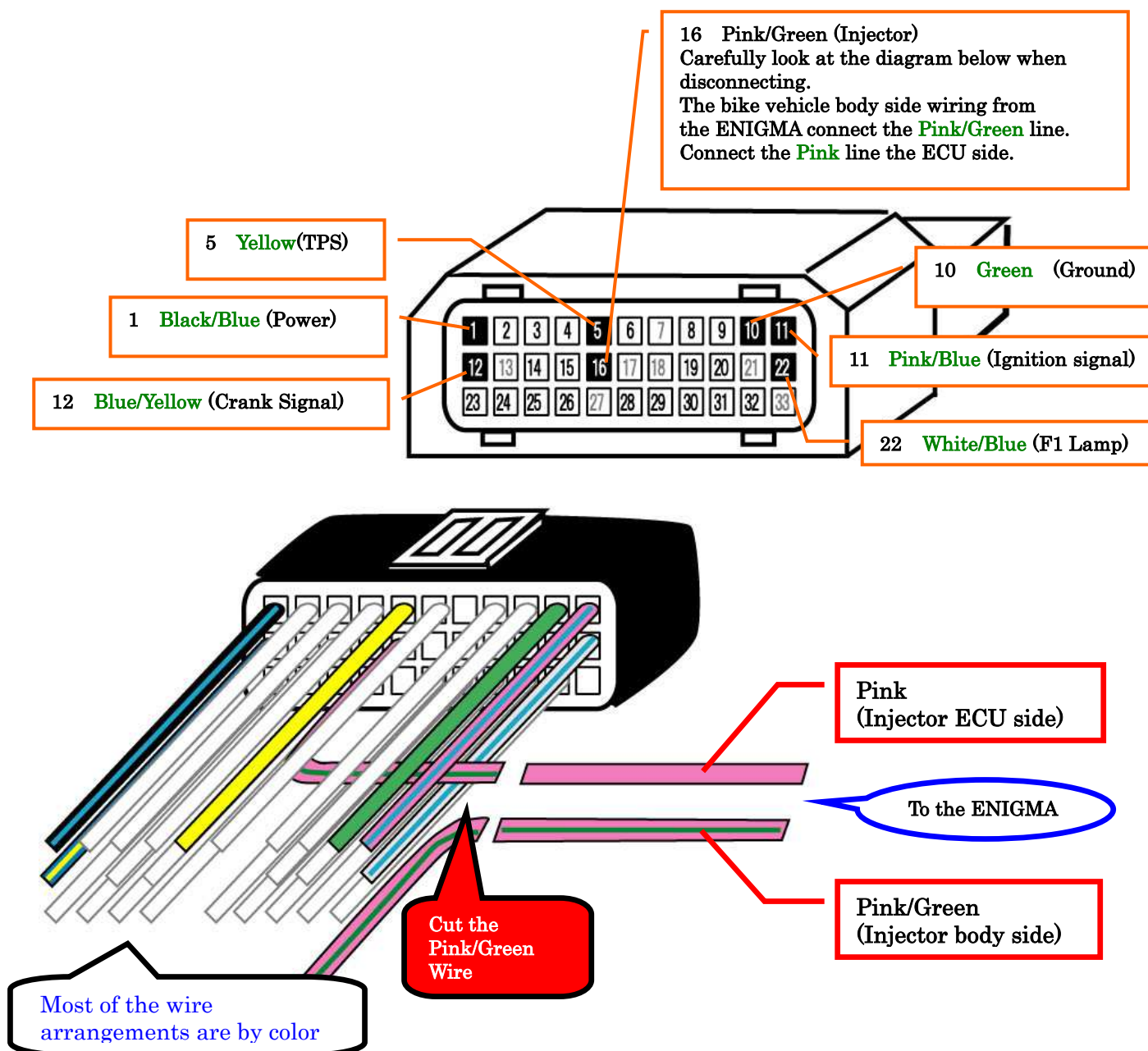
If you use the RTF type, remove the coupler which is connected to the ECU, please connect the coupler that has come out from ENIGMA RTF to the ECU and the vehicle body side. Please make sure that the lock sound is a "click".

Installation should be done in a safe place. A basic knowledge of MSX125 maintenance is necessary. There is an ECU under the seat and remove gas tank side cover and rubber mount. Remove the 33pin coupler then the ECU.

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

The wires from the Enigma 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 8 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.
- By cutting the No.16 Pin (Pink / Green) wire of ECU (Injecttor), the bike vehicle body side wiring from the ENIGMA connect the Pink / Green wire. Connect the Pink wire the ECU side.
- **Be careful!** Pin wires No.9 and No.10 are both Green.
- In order to prevent the reporting water from entering into the ENIGMA inside from the base of the wiring from the ENIGMA , it is recommended that you install in the lower wiring side in the vertical the ENIGMA .



ECU terminal connected 7wires 1,5,10,11,12,16,22.Please confirm the picture.

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

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** dedicated app for the iOS/Android version of the app. Download the **GROM/MSX125(JC61)** dedicated ENIGMA app from the model selection screen in the app. **For ENIGMA is also compatible with ENIGMA type-P. Other Vehicle dedicated apps cannot be used.**

Please use the **GROM/MSX125(JC61)** dedicated ENIGMA PC software.

For ENIGMA is also compatible with ENIGMA type-P. Other Vehicle, Other ENIGMA dedicated PC software, cannot be used.

The Enigma operating software for smartphone or PC can be downloaded free from our website.

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

Connecting the MSX125(before 2015 Projector headlight model) ECU to the Enigma type-P Bluetooth version

Supported models of this manual

ENIGMA type	ENIGMA type-P (EBD330P / EBD330PRTFW)
Vehicle type	HONDA GROM/MSX125 (EBJ-JC61 1000001-1299999) before 2015 projector headlight model

This manual is before 2015 projector headlight model only.
After 2016 LED headlight model is another manual.

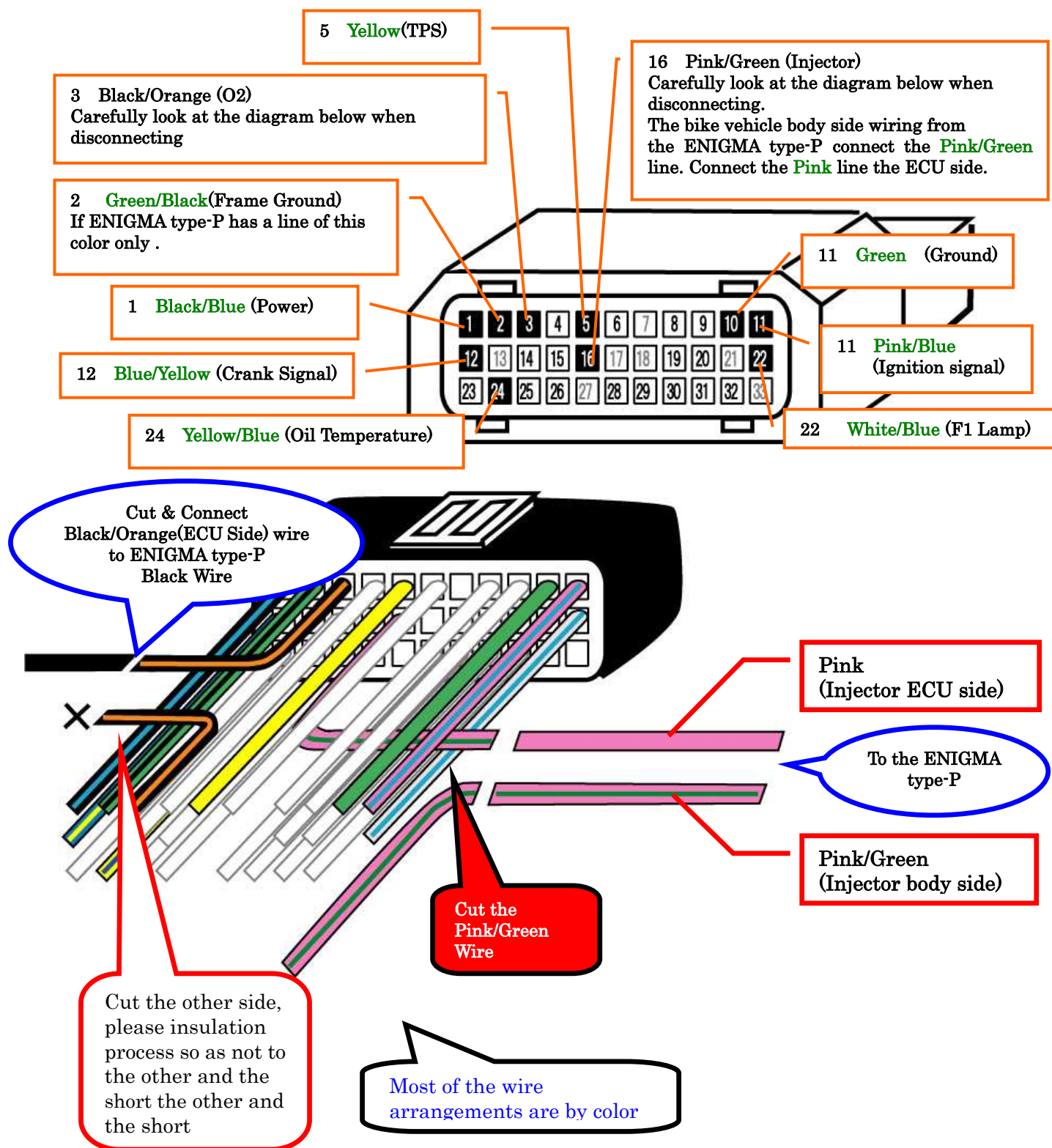
If you use the RTF type, remove the coupler which is connected to the ECU, please connect the coupler that has come out from ENIGMA PRTF to the ECU and the vehicle body side. Please make sure that the lock sound is a "click".

Installation should be done in a safe place. A basic knowledge of MSX125 maintenance is necessary. There is an ECU under the seat and remove gas tank side cover and rubber mount. Remove the 33pin coupler then the ECU.

Make an **interrupt connection** from the ENIGMA type-P 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 type-P. (Use solder or the like for improved reliability.)

The wires from the ENIGMA type-P 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 11wires.

- 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.
- By cutting the No.16 Pin (Pink / Green) wire of ECU (Injecttor), the bike vehicle body side wiring from the ENIGMA type-P connect the Pink / Green wire. Connect the Pink wire the ECU side.
- **Be careful!** Pin wires No.9 and No.10 are both Green.
- By cutting the No.3 Pin (Black / Orange) wire of ECU (O2 sensor), the ECU side wiring from the ENIGMA type-P Connect the Black wire. Insulation processing the Black / Orange wire the vehicle body side.
- If ENIMGA type-P has Green / Black line and connect to the body earth (frame GND) or the No.2 Pin (Green / Black) wire of ECU or the minus terminal of the battery. Do not connect to the No.9 Pin and No.10 Pin (Green) wire of the ECU .
- In order to prevent the reporting water from entering into the ENIGMA FirePlus inside from the base of the wiring from the ENIGMA type-P, it is recommended that you install in the lower wiring side in the vertical the ENIGMA type-P.
- **EBD-330P/EBD-330PRTF not has Oil temparature mesure function.No.24 terminal of ECU wire (Yellow/Blue) not used.**



ECU terminal connected 10wires 1, 3, 5, 10, 11, 12, 16, 22, 24. Please confirm the picture.

The Purple line is the service output line. The ENIGMA type-P 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 white wire is a pit lane switch service and is not to be connected to the ECU.

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

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** dedicated app for the iOS/Android version of the app.
Download the **GROM/MSX125(JC61)** dedicated ENIGMA app from the model selection screen in the app.
For ENIGMA is also compatible with ENIGMA type-P. Other Vehicle dedicated apps cannot be used.

Please use the **GROM/MSX125(JC61)** dedicated ENIGMA PC software.
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Installation of the pit lane limiter switch

"White wire" that has come out from ENIGMA 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 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.