

## Connecting the Z125 Pro(BR125H) to the ENIGMA SemiFull Bluetooth version

Supported models of this manual

**ENIGMA type** ENIGMA SemiFull (SF2510 / SF2510RTF)

**Vehicle type** KAWASAKI Z125Pro (BR125H)

Installation should be done in a safe place. A basic knowledge of Z125Pro(BR125H) 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.

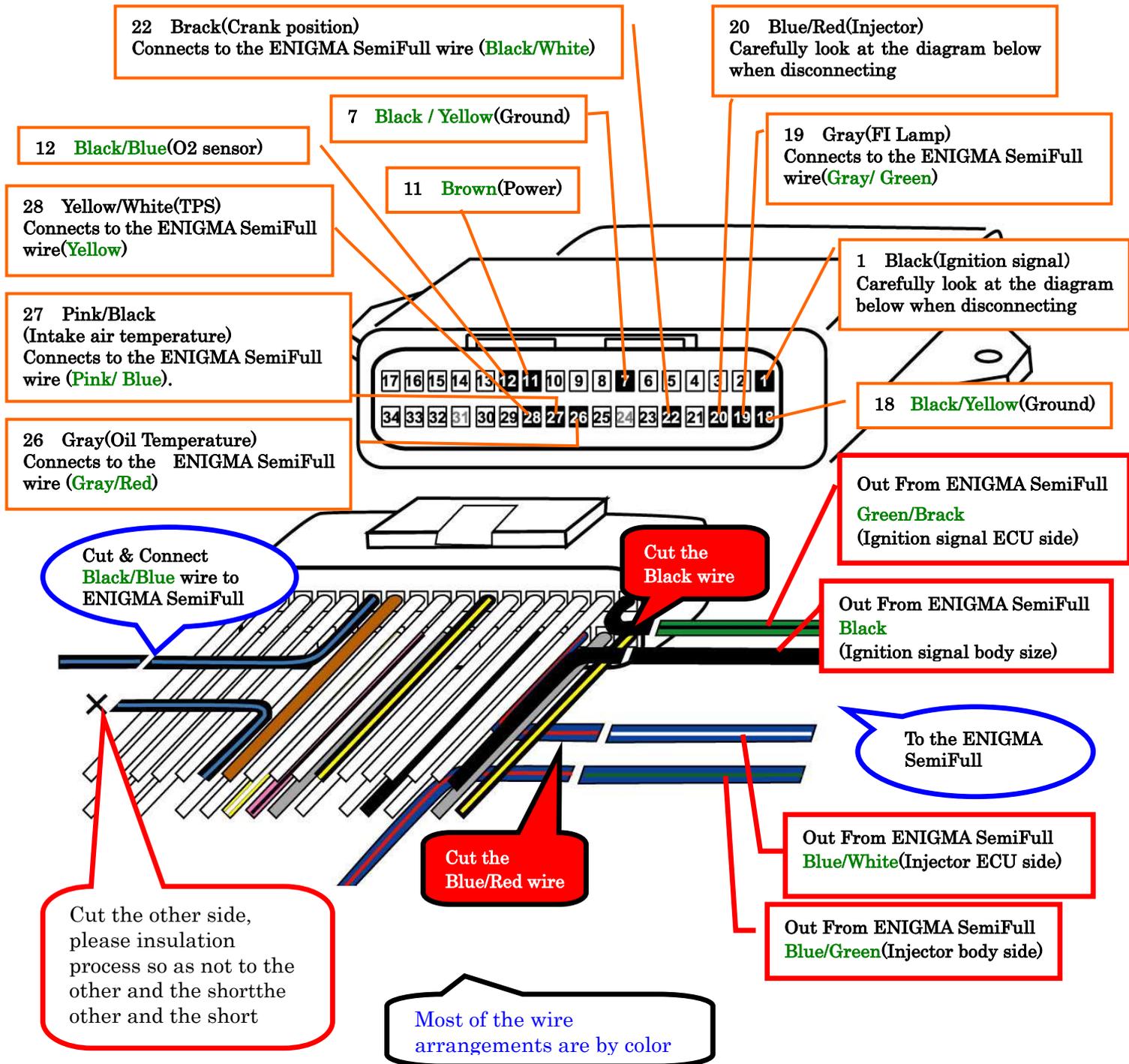
Make an **interrupt connection** from the ENIGMA SemiFull wiring to the wiring on the coupler side. (AN interrupt connection can made without cutting but by making a branch in the normal connection) Do not use an electro tap on the interrupt wiring connection. It causes many connection issues that are 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 13wires.

- 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. 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 Light Green 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 this 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 (Black) line of ECU (Ignition signal), the bike vehicle body side wiring from the ENIGMA SemiFull 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 SemiFull connect the Blue / Green 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 SemiFull.
- No.22 Pin (Black) line of ECU (Clank position), Connect the Black / White wire from the ENIGMA SemiFull.
- No.26 Pin (Gray) line of ECU (Oil Temperature), Connect the Gray / Red wire from the ENIGMA SemiFull.
- No.27 Pin (Pink/Black) line of ECU (Intake air temperature), Connect the Pink / Blue wire from the ENIGMA SemiFull.
- No.28 Pin (Yellow/White) line of ECU (TPS), Connect the Yellow wire from the ENIGMA SemiFull.

- No.7 Pin and No.18 pin is both Black/Yellow line.(GND). Yellow / Black line from ENIGMA SemiFull since has come out two, please connect either to each.
- Cutting the No.12 Pin (Black / Blue) line of ECU (O2 sensor), the ECU side wiring from the ENIGMA SemiFull Connect the Black / Blue line.  
When you do not want to use the O2 sensor function, please tip of the wire is insulated with tape so as not to short against the metal part.
- 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.
- In such wiring mistake, if an error occurs in the ECU, you will need to have to clear the error, etc. **KAWASAKI dealer.**



ECU terminal connected 11wires 1, 7, 11, 12, 18, 19, 20, 22, 26, 27, 28. 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 **Z125Pro(BR125H)** dedicated ENIGMA Semifull app from the model selection screen in the app. Other Vehicle dedicated apps cannot be used.

Please use the **Z125Pro(BR125H)** dedicated ENIGMA Semifull PCsoftware. Other Vehicle, Other ENIGMA dedicated PCsoftwares,cannot be used.

The ENIGMA SemiFull operating software for PC can be downloaded free from our website.  
<http://www.dilts-japan.com>

## Installation of the pit lane limiter switch

"White wire" that has come out from ENIGMA SemiFull 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 SemiFull 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 SemiFull connection after the ignition key turned ON ENIGMA SemiFull 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 SemiFull 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 SemiFull 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 SemiFull to cancel the ignition limiter of 11,000 revolution / min to normal ECU has. When you set the limiter of ENIGMA SemiFull 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 SemiFull below 11,000 revolution / min.**

ENIGMA Semi-Full for Z125 has a replayer function, but does not have an idling adjustment function.

Therefore, the idling adjustment part is not displayed on the REPLACER setting of the ENIGMA semi-full operation PC software and the ENIGMA setting screen of the smartphone app.

## Installation of the MAP changeover switch

"Light Green 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 Light Green line from the ENIGMA Semiful when finished the installation of the switch.

Connect the Light Green 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.**