Aprilia

RSV4 / Dorsoduro / Tuono / Shiver RS660

COBO LCD TFT instrument cluster

RSV4 1100 E5 / Tuono V4 1100 E5

COBO LCD TFT 5” instrument cluster

For ASW-NEXT

Short User Manual

September 2024

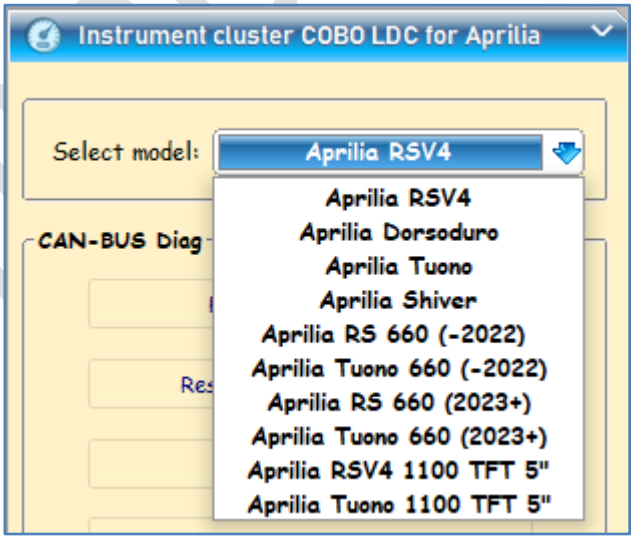
Important notes:

This option applies only to the instrument clusters with a large color LCD made by COBO

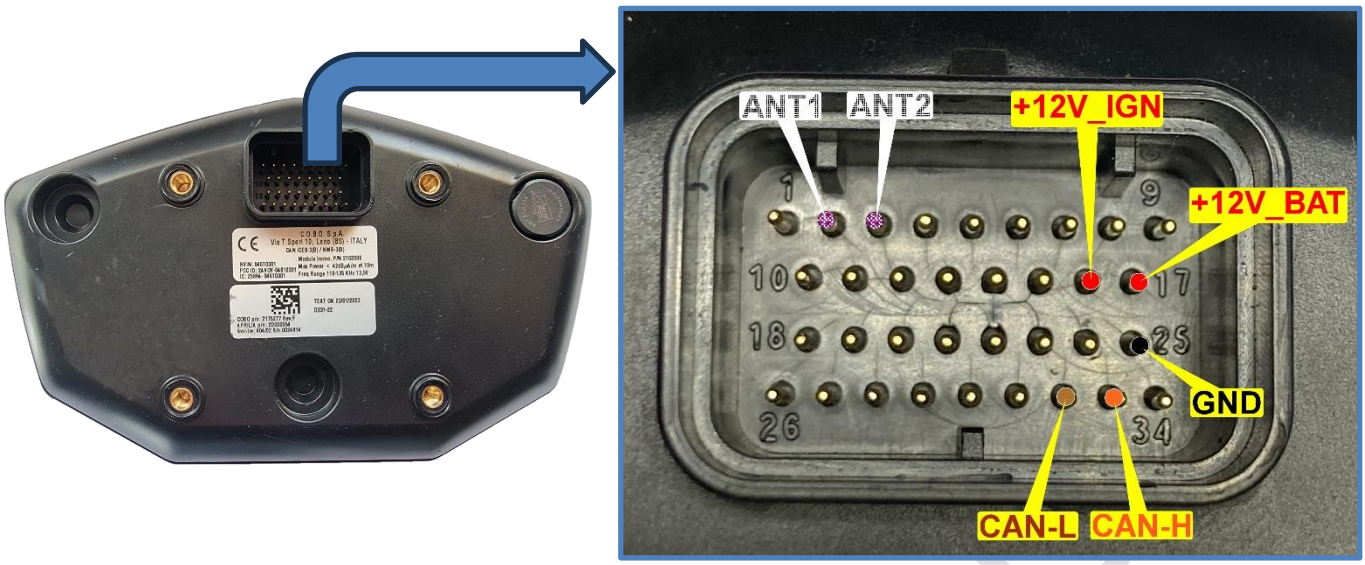
Depending on motorcycle model, some versions of COBO LCD instrument cluster are programmed to accept transponder key of type TEMIC-12 with header 'F0 00', some are designed to accept only transponder PCF7936 with header 'BA C1'.

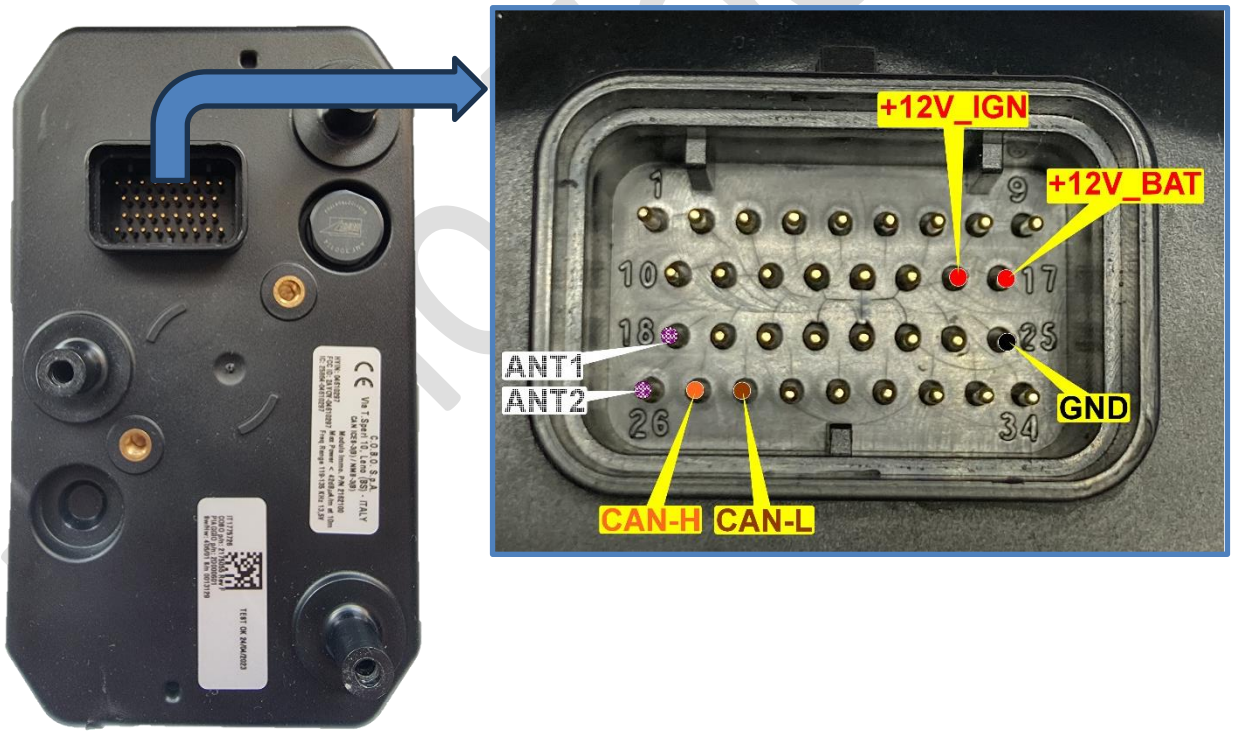
Use transponder key of correct type for every particular motorcycle model.

Make sure to select a correct motorcycle model for every software function to operate properly



1. How to connect on-the-bench?

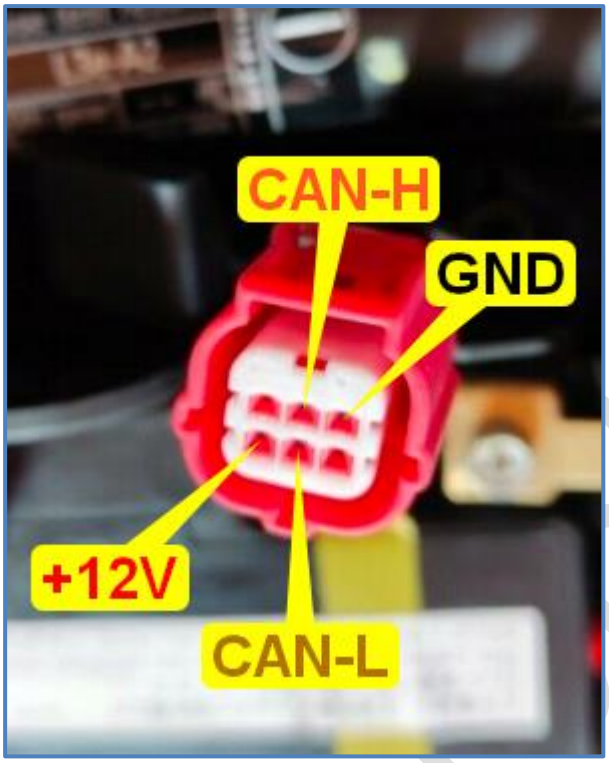




NOTE: ***ANT1*** **/** ***ANT2*** **– terminals to connect transponder antenna.**

Antenna is optional, use it in case when you need to test transponder acceptance on-the-bench.

2. How to connect by EURO-5 diagnostic connector?



3. Software functions

- **Reset Service Remainder**
- **Reset User CODE to value ‚00000‘ when original code is unknown**
- **Reset Keys**

  Erases all keys and stores value of the key that is in the ignition lock. Up to 4 keys can be programmed during this procedure. Does not require **USER CODE.** Follow messages on the LCD screen of instrument cluster.

- **Set Odometer**

  Set new odometer value. Mileage increase, decrease or set zero is available.

EEPROM dump functions:

- **Read / Set odometer in the EEPROM dump**
- **Read USER CODE from the EEPROM dump**
- **Read / Set Keys in the EEPROM dump**

Group of dump functions do require **24C512** content to be previously read from instrument cluster using suitable **EEPROM programmer**.
EEPROM R/W by diagnostic is not implemented.

4. CRC for EEPROM 24C512 dump

You are free to edit EEPROM content manually but CRC for modified data block must be updated with correct value. Occupied EEPROM area is divided into information blocks where every block starts with ‚**Edt$**‘ and ends with 32-bit CRC. Select block in the HexEditor window and right-click with mouse on the selected block. Choose ‚**Aprilia RSV4 CRC**‘. Update 4 bytes of calculated CRC if necessary.