

DELL'ORTO Varroc

Engine control system (E5)

For ASW-NEXT

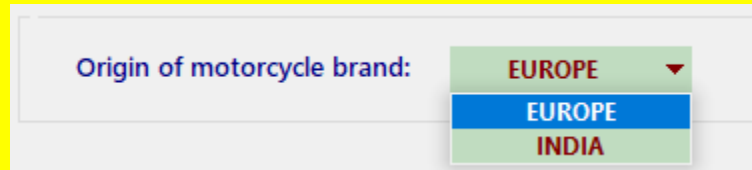
Short User Manual



February 2025

IMPORTANT NOTE:

To ensure proper operation of each ASW-NEXT feature, please select origin of the motorcycle brand that produced the motorcycle, which is equipped with this particular Dellorto Varroc ECU.



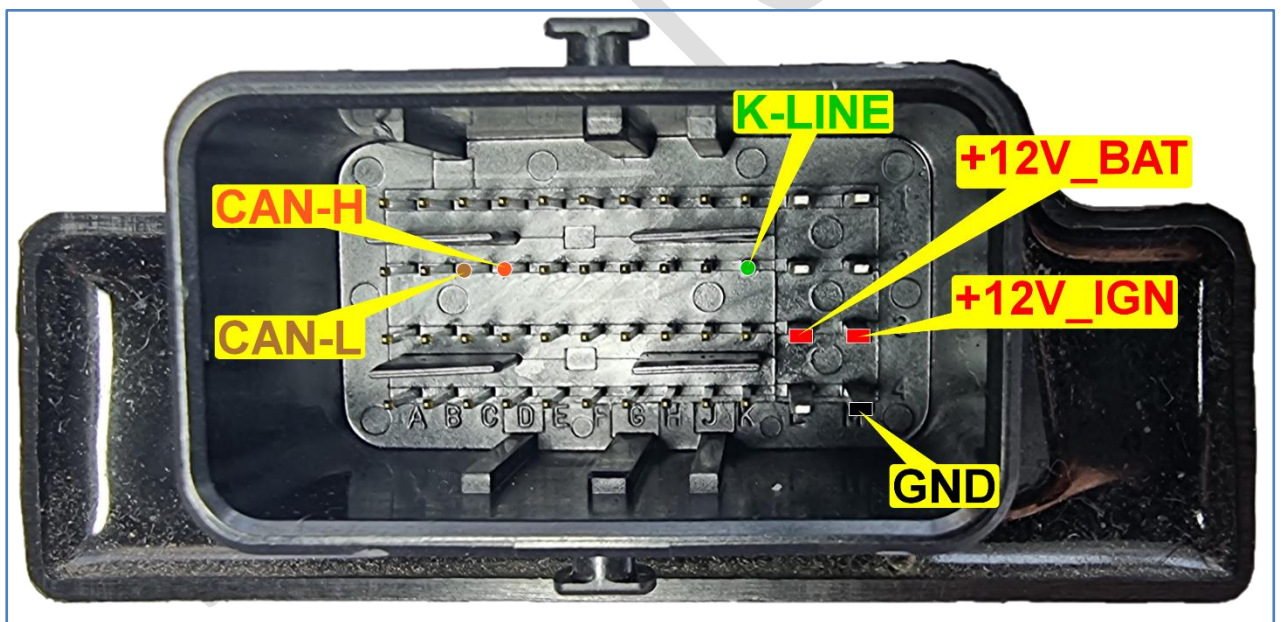
The image shows a software interface with a label 'Origin of motorcycle brand:' followed by a dropdown menu. The dropdown menu is open, showing three options: 'EUROPE' (highlighted in blue), 'EUROPE' (in a light green box), and 'INDIA' (in a light green box). The text 'EUROPE' in the dropdown is in red, while 'INDIA' is in black.

- Select **EUROPE** for European brands, e.g. *Peugeot, Pelpi*, etc.
- Select **INDIA** for Indian brands, e.g. *Bajaj Auto*, etc.

This selection impacts only **Read Identification** and **Write P-FLASH** by CAN-BUS.

There is no risk to damage ECU due to wrong selection.

1. How to connect?



NOTE: Please note that functions to read and to write FLASH uses different communication channels. Make sure to connect both, K-LINE and CAN for all functions to be available!

- [READ FLASH] operates by **K-LINE** only
- [WRITE FLASH] operates by **CAN-BUS** only

2. What's next?

- According to pinout picture connect ASW-NEXT cables to ECU
- Run PC software
- Connect USB cable from interface of ASW-NEXT to PC
- Apply +12V power to crocodile clips of ASW-NEXT

Software features:

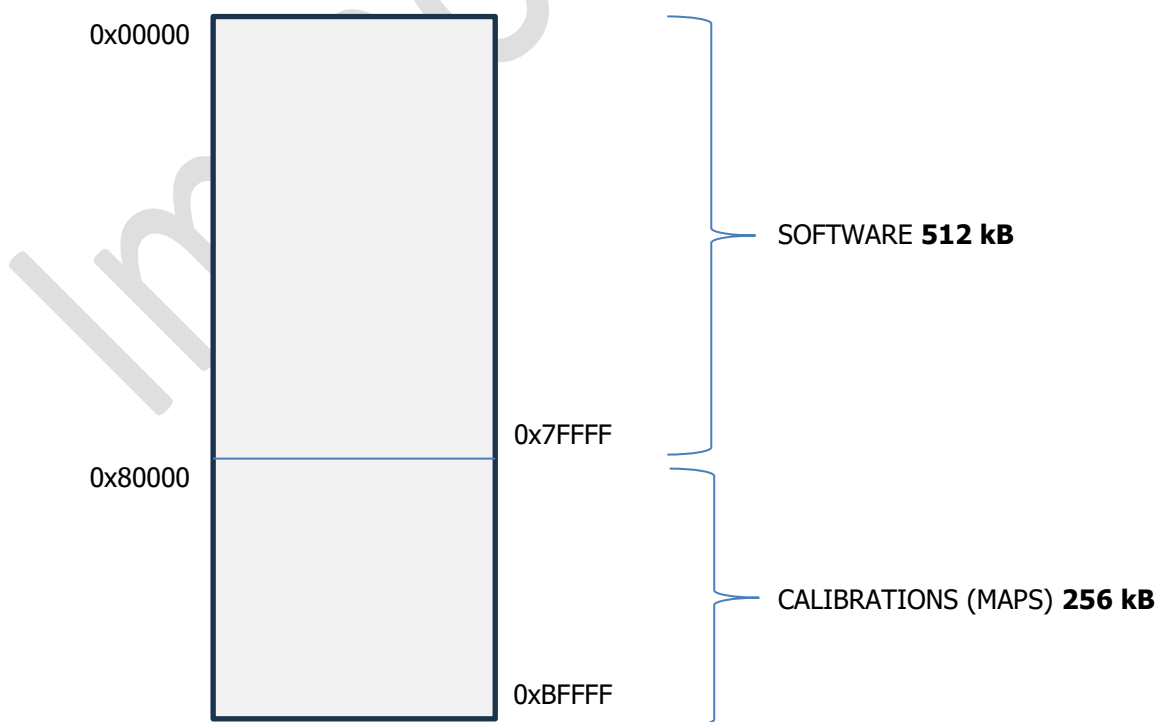
- ✓ **Read / Write** Software and Calibrations area in the **FLASH of SPC572**
- ✓ **Read 32 kB Data FLASH image of SPC572** (write is not implemented yet)
- ✓ **Check / Repair** FLASH CRCs
- ✓ **Read** identification
- ✓ **Read / Erase** Diagnostic Trouble Codes (**DTC**)

3. FLASH programming

Function

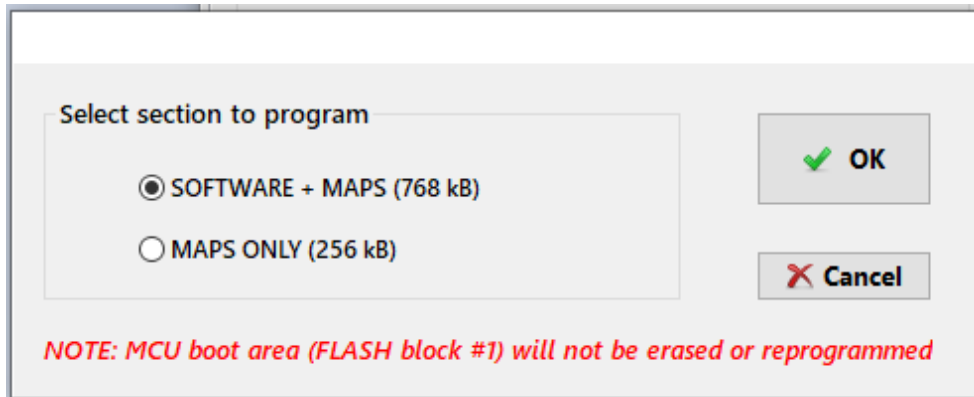
Read P-FLASH

produces 768 kB binary file, that consists of two sections: 512 kB of SOFTWARE and 256 kB of CALIBRATIONS (MAPS).



Memory range to be reprogrammed can be selected depending on your needs. This could significantly reduce programming time when only MAPS needs to be reprogrammed.

You can choose to program both, 768 kB of SOFTWARE+MAPS or just a single 256 kB section with CALIBRATIONS:



Select section to program

SOFTWARE + MAPS (768 kB)

MAPS ONLY (256 kB)

OK

Cancel

NOTE: MCU boot area (FLASH block #1) will not be erased or reprogrammed

Software of ASW-NEXT will take reprogramming data from the bottom section (0x80000-0xBFFFF) of loaded binary file in case you have selected MAPS ONLY.

NOTE: FLASH programming routine does not check / repair CRC by itself.

Please make sure to check CRCs of loaded binary file before FLASH programming. To do this, use a [[Check & Repair FLASH checksum](#)] button.

NOTE: ASW-NEXT will accept binary files of two sizes for FLASH programming:

- ✓ 768 kB (read with ASW-NEXT)
- ✓ 1536 kB (full P-FLASH image of SPC572L64E3, read with MCU programmer)