AiM Infotech

# MBE 992 ECU

## Release 1.01

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ECU

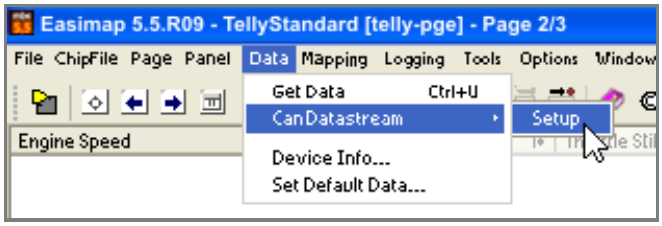
This tutorial explains how to connect MBE 992 ECU to AiM devices.

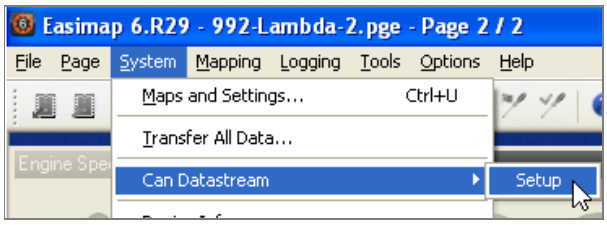
# 1 Software setup

MBE 992 comes with EasyMap software. For a correct communication with AiM devices set it up as follows:

- Connect the ECU to your PC and power it.
- Run Easy Map and follow this path:
    - Data –>CAN Datastream –> Setup if you have EasyMap 5.5 release
    - System –> Can Datastream –> Setup if you have EasyMap 6 release

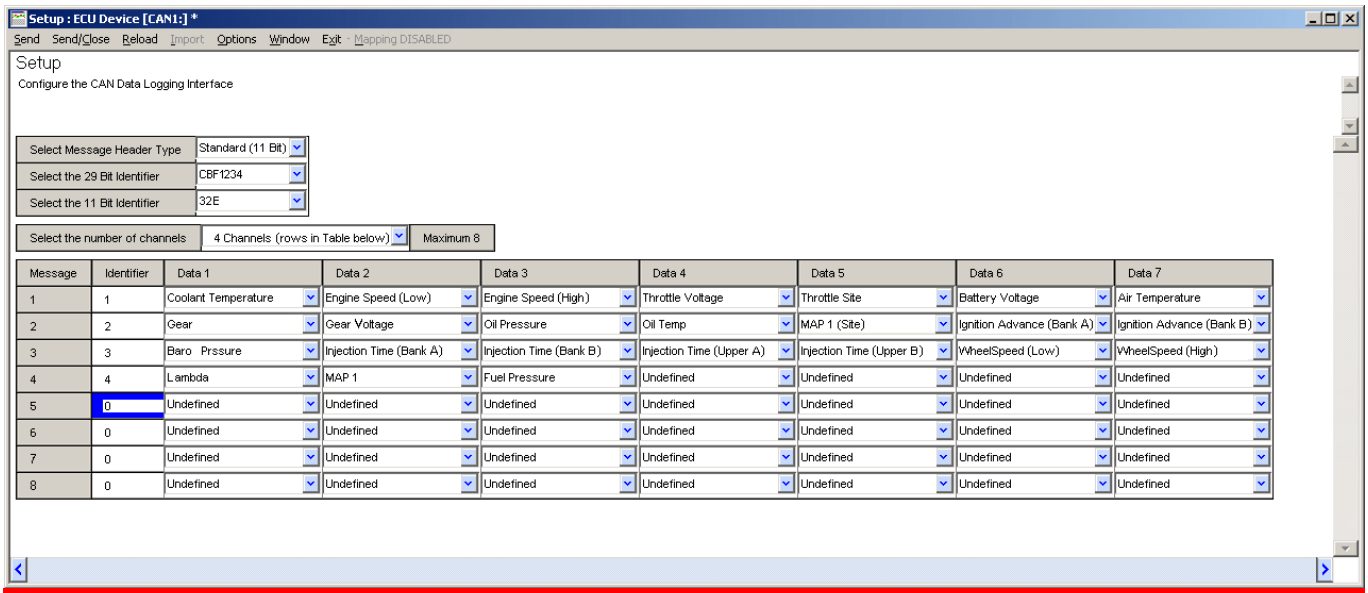
Here below you see images of EasyMap 5.5 – on the left – and EasyMap 6 – on the right.




- This way the software reads information coming from the ECU and opens a new window to configure the CAN communication;

- Parameters must be configured in the right sequence and with the right scaling; complete the table with the information suggested here below:




**Please note**: data logging configuration with EasiMap software is intended for expert users only. The software can of course be changed by MBE. Refer to www.mbesystems.com for further information.

- once all parameters configured press "Send" and choose "ECU Device" when requested; the configuration is stored in ECU memory
- close configuration window and quit the program
- before connecting MBE ECU to AiM device enable "Broadcast Mode" ensuring a nominally zero voltage (or open circuit) on fuel trim and ignition trim inputs.

# 2 Wiring connection

MBE 992 ECU features a bus communication protocol based on CAN on J2 36 pins front connector. Here below is connection table.

| J2 36 Pins connector pin | Pin function | AiM cable |
|---|---|---|
| 9 | CAN High | CAN+ |
| 8 | CAN Low | CAN- |

# 3 AiM device configuration

Before connecting the ECU to AiM device set this up using AiM Race Studio software. The parameters to select in the device configuration are:

- ECU manufacturer “MBE”
- ECU Model "992CAN"

# 4 Available channels

Channels received by AiM devices connected to "MBE" "992CAN" protocol are:

| ID | CHANNEL NAME | FUNCTION |
|---|---|---|
| ECU_1 | MBE_WATER_TEMP | Engine coolant temperature |
| ECU_2 | MBE_RPM | RPM |
| ECU_3 | MBE_THROT_VOLT | Throttle voltage |
| ECU_4 | MBE_TPS | Throttle position sensor |
| ECU_5 | MBE_BATTERY | Battery supply |
| ECU_6 | MBE_AIR_TEMP | Intake air temperature |
| ECU_7 | MBE_GEAR | Engaged gear |
| ECU_8 | MBE_GEAR_VOLT | Gearbox voltage |
| ECU_9 | MBE_OIL_PRESS | Oil pressure |
| ECU_10 | MBE_OIL_TEMP | Oil temperature |
| ECU_11 | MBE_MAP_SIDE | Manifold air pressure side |
| ECU_12 | MBE_IGN_BANK_A | Ignition time bank A |
| ECU_13 | MBE_IGN_BANK_B | Ignition time bank B |
| ECU_14 | MBE_BARO_PRESS | Barometric pressure |
| ECU_15 | MBE_INJ_BANK_A | Injection time bank A |
| ECU_16 | MBE_INJ_BANK_B | Injection time bank B |

| | | |
|---|---|---|
| ECU_17 | MBE_INJ_UP_A | Injection time upper bank A |
| ECU_18 | MBE_INJ_UP_B | Injection time upper bank B |
| ECU_19 | MBE_WHEELSPEED | Wheel speed sensor |
| ECU_20 | MBE_LAMBDA | Lambda value |
| ECU_21 | MBE_MAP | Manifold air pressure |
| ECU_22 | MBE_FUEL_PRESS | Fuel pressure |
| ECU_23 | MBE_TPP | Throttle position percentage |