AiM Infotech

MBE 998 ECU

Release 1.01

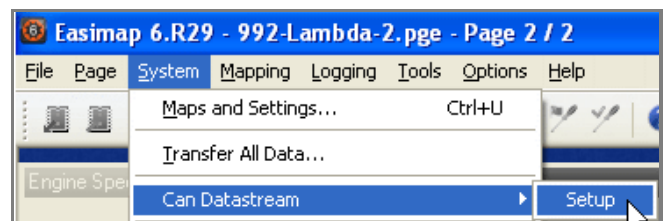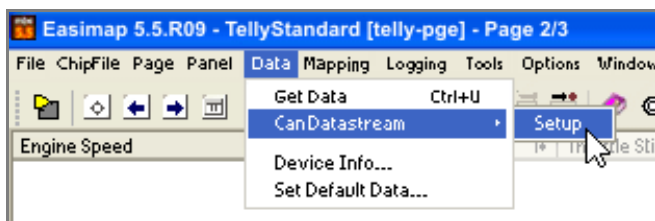This tutorial explains how to connect MBE 998 ECUs to AiM devices.

# 1
# Software setup

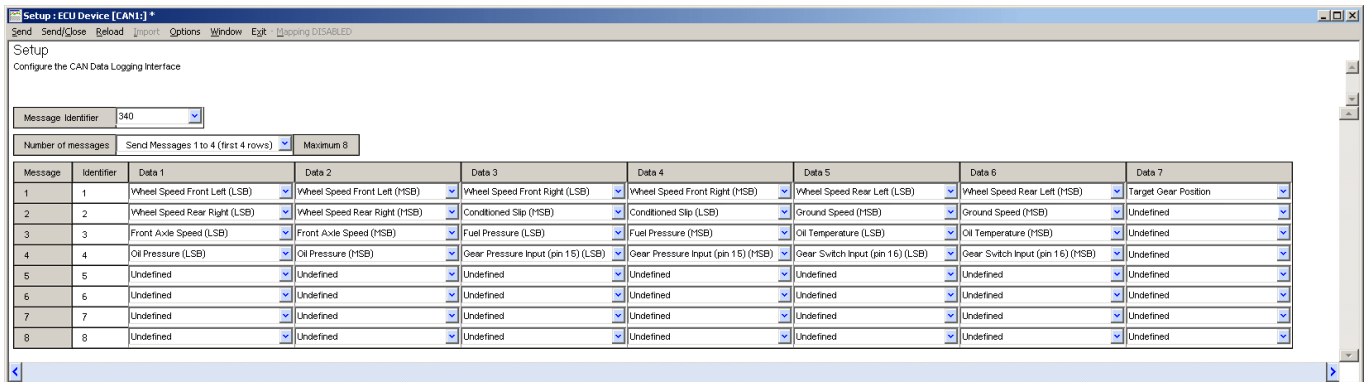MBE 998 ECUs come with EasyMap software. For a correct communication with AiM devices set it up as follows:

- Connect the ECU to your PC and power it.
- Run Easy Map and follow this path:
    - o Data –>CAN Datastream –> Setup if you have EasyMap 5.5 release
    - o 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 sequence; complete the table with the information suggested here below; MBE 998 ECU configuration requires 998 Traction control scheme too:



**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" if 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 998 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 |
|---|---|---|
| 6 | CAN High | CAN+ |
| 7 | 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 "998CAN"

# 4

# Available channels

Channels received by AiM devices connected to "MBE" "998CAN" protocol are:

| ID | CHANNEL NAME | FUNCTION |
|---|---|---|
| ECU_1 | MBE_FRONT_LEFT | Front left wheel speed |
| ECU_2 | MBE_FRONT_RIGHT | Front right wheel speed |
| ECU_3 | MBE_REAR_LEFT | Rear left wheel speed |
| ECU_4 | MBE_REAR_RIGHT | Rear right wheel speed |
| ECU_5 | MBE_SLIP | Slip percentage |
| ECU_6 | MBE_GROUND_SPD | Ground speed |
| ECU_7 | MBE_FRONT_AXLE | Front axle speed |
| ECU_8 | MBE_FUEL_PRESS | Fuel pressure |
| ECU_9 | MBE_OIL_TEMP | Oil temperature |
| ECU_10 | MBE_OIL_PRESS | Oil pressure |
| ECU_11 | MBE_GEAR_PRESS | Gearbox pressure |
| ECU_12 | MBE_GEAR_SWITCH | Gear switch |
| ECU_13 | MBE_TARG_GEAR | Gear target |