AiM Infotech

MBE 992 Lola Cosworth

Release 1.01

ECU

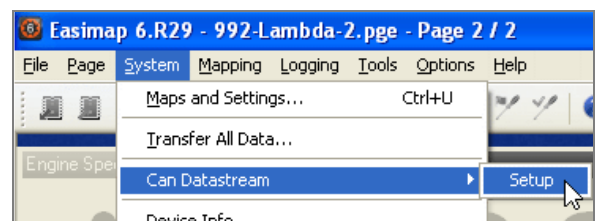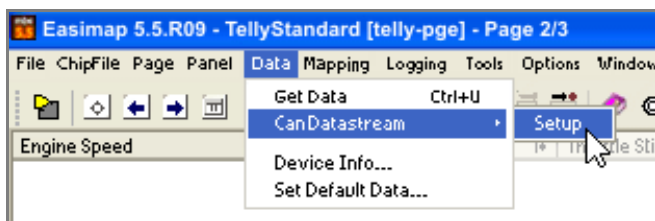This tutorial explains how to connect MBE 992 Lola Cosworth ECU to AiM devices.

1
Software setup

MBE 992 installed on Lola Cosworth cars comes with EasyMap software. For a correct communication with AiM devices set it up as follows:
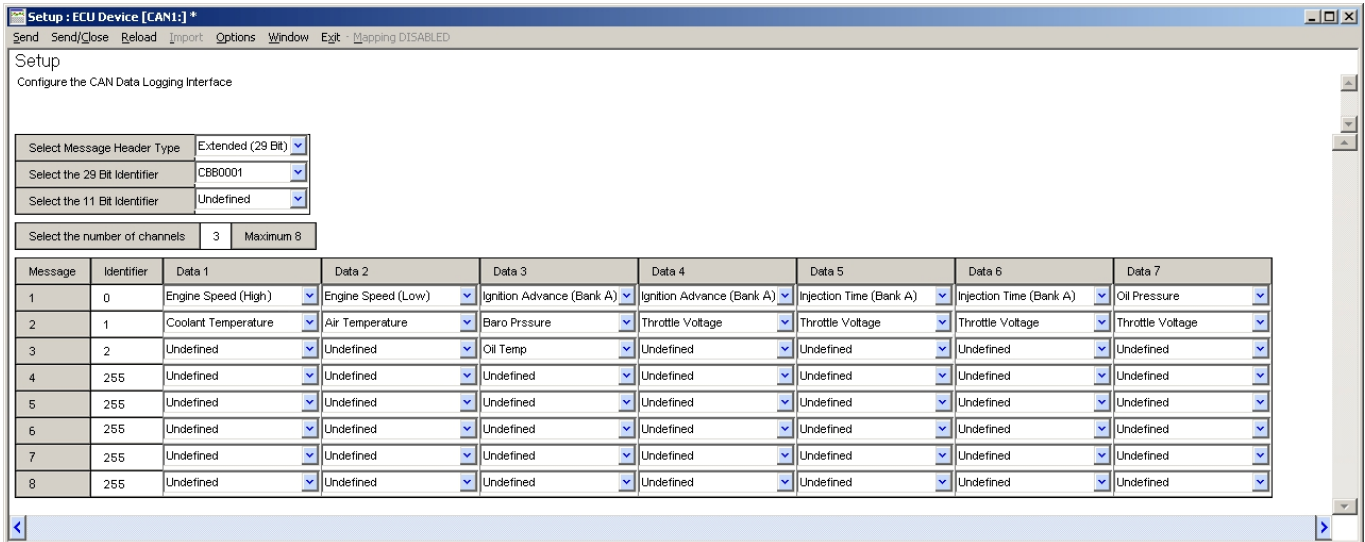
- Connect the ECU to your PC and power it.
- Run Easy Map and follow this path:
    - o   Data –>CAN Datastream –> Setup if you have EasyMap 5.5 release
    - o   System –> Can Datastream –> Setup if you have EasyMap 6 release

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 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 installed on Lola Cosworth cars 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 "992_Lola_Cosworth"

4
Available channels

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

ID	CHANNEL NAME	FUNCTION
ECU_1	MBE_RPM	RPM
ECU_2	MBE_IG_ADV_BKA	Ignition advance bank A
ECU_3	MBE_INJT_BKA	Injection time bank A
ECU_4	MBE_OIL_PRESS	Oil pressure
ECU_5	MBE_COOL_TEMP	Engine coolant temperature
ECU_6	MBE_AIR_TEMP	Intake air temperature
ECU_7	MBE_BARO_PRESS	Barometric pressure
ECU_8	MBE_TPS_VOLT	Throttle position sensor voltage
ECU_9	MBE_OIL_TEMP	Oil temperature