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AiM Infotech

MBE 992 Lola Cosworth

Release 1.01







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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:
 - 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.

📅 Easimap 5.5.R09 - TellyStandard [telly-pge] - Page 2/3							
File ChipFile Page Panel	Data	Mapping	Logging	Tools	Options	Window	
P 🖉 🕶 🖃 🗐	Get Data Ctrl+U			Setup IN IN Stil			
Engine Speed	Can Datastream Device Info Set Default Data						

🚳 Easimap 6.R29 - 992-Lambda-2.pge - Page 2 / 2							
Eile Pag	je	<u>S</u> ystem	<u>M</u> apping	Logging	<u>T</u> ools	Options	Help
Maps and Settings Ctrl+U						Ctrl+U	7 4
	Iransfer All Data						
Engine Spe Can Datastream					•	Setup	
Device Info						15	

• 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:

Setup: ECU Device [CAN1:] *									
	lose <u>R</u> eload	Import Options Window	Exit · Mapping DISABLED						
Setup									_
Configure the	CAN Data Log	ging Interface							<u>A</u>
Select Mess	aqe Header T	vne Extended (29 Bit)							×
	-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
	9 Bit Identifier	CBB0001 _							
Select the 1	1 Bit Identifier	Undefined							
Select the n	umber of char	nnels 3 Maximum 8							
Message	Identifier	Data 1	Data 2	Data 3	Data 4	Data 5	Data 6	Data 7	
1	0	Engine Speed (High)	Engine Speed (Low)	Ignition Advance (Bank A) 💌	Ignition Advance (Bank A) 💌	Injection Time (Bank A) 🛛 💌	Injection Time (Bank A)	Oil Pressure 🔽	
2	1	Coolant Temperature 🛛 👱	Air Temperature 🛛 👻	Baro Prssure 👱	Throttle Voltage 👱	Throttle Voltage 👱	Throttle Voltage 🔽	Throttle Voltage	
3	2	Undefined 🔽	Undefined 💌	Oil Temp 🔽	Undefined 🔽	Undefined 💌	Undefined 💌	Undefined 🔽	
4	255	Undefined 🔽	Undefined 💌	Undefined 🔽	Undefined 🔽	Undefined 🗸	Undefined 💌	Undefined 🔽	
5	255	Undefined 🔽	Undefined 🔽	Undefined 🔽	Undefined 🔽	Undefined 🗸	Undefined 🔽	Undefined 🔽	
6	255	Undefined 🔽	Undefined 💌	Undefined 🔽	Undefined 💌	Undefined 🗸	Undefined 💌	Undefined 🔽	
7	255	Undefined 🔽	Undefined 💌	Undefined 🔽	Undefined 🔽	Undefined 🗸	Undefined 🔽	Undefined 🔽	
8	255	Undefined 🔽	Undefined 🔽	Undefined 🔽	Undefined 🔽	Undefined 🗸	Undefined 🔽	Undefined 🔽	

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-

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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