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AiM InfoTech

MBE 9A9CAN ECU

Release 1.02





This tutorial explains how to connect AiM devices to MBE 9A9CAN ECU.



SOFTWARE DOWNLOADS | FIRM



1 Software configuration

For MBE 9A9CAN ECU to correctly communicate with AiM device it is necessary to set them up using the dedicated MBE software "EasiMap".

Project Startup Wizard
To begin using the software, please select the initial project to load.
9A4 - 4 Cylinder Engine Controller 9A8 - 8 Cylinder Engine Controller
9A9 - Advanced 8 Cylinder Engine Controller 992 - Engine Controller 998 - Gearbox Controller and Data Logger
✓ Don't show this box again.

Select "9A9 – Advanced 8 Cylinder Engine Controller" and press OK.



Follow the path: "System -> Can Datastream -> Setup"

Basimap 6.R33 - 9AX-basic.pge - Page 1 / 2				
<u>Eile P</u> age	System Mapping Logging Tools	s Options Help		
	Maps and Settings	Ctrl+U 7 9		
	Transfer All Data			
	Can Datastream	▶ Setup	+ ×	
	Device Info			
	<u>S</u> et Default Data	0 0 1 5		
	Merge then Zero Adaptive Maps			
	Basic Fuel Map	demo		
Engine S		Engine Speed	+ ×	

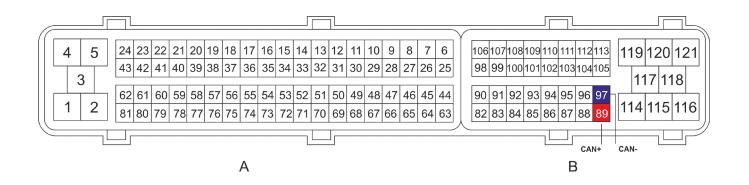
This panel appears: ensure is set up as shown below.

🚯 Easimap 6.R33 - LA.pge - Page 2 / 2 *								
File Page S	ystem Map	ping Logging Tools Op	tions Help				1.	
	월 월 월 월 월 ○ ○ ☆ 0 월 ♡ ♡ ♡ ♡ □ 0 0 9A9bd76a.ec2 EC							
Setup : EC	U Device [CA	N1:] *						
Send Send/	Close Relo	ad Import Options Wind	ow Exit Mapping DISABLE	ED				
Setup								
Select a Mess	age identifier							
-								
Message Iden	tifier 32E	• •						
Number of channels (8 Channels (rows in table below) Maximum 8								
Message	Identifier	Data 1	Engine Speed (LSB)	Data 3	Date 4	Data 5	Data 6	Data 7
1					1			Gear 🗸
2			Engine Speed (LSB) 🗸	Gear Voltage 🗸 🗸	Air Temperature 🔻	MAP 1 (Site)	Baro Pressure mbar(MSB) -	Baro Pressure mbar(LSB) -
3	3	Engine Speed (MSB) 👻	Engine Speed (LSB) 👻	Ignition Advance (BankA) 🛛 👻	Injection Time (Bank A) MSB 👻	Injection Time (Upper A) MSB 👻	Oil Pressure 🗸	Fuel Pressure 👻
4	4	Engine Speed (MSB) 🗸	Engine Speed (LSB) 🔹	Oil Temp 🗸	Lambda 1 🗸	Lambda 2 🗸	MAP 1	Target Boost 👻
5	5	Engine Speed (MSB) 🛛 👻	Engine Speed (LSB) 👻	Target Lamda 🗸 🗸	Launch Voltage 🗸 🗸	Launch Timer 🗸	Limiter (MSB) 🗸	Limiter (LSB) -
6	6	Engine Speed (MSB) 🗸	Engine Speed (LSB) 👻	Inj Lower/Upper Split 🗸 🗸	Inj Duty Cycle (BankA) 🗸	Inj Duty Cycle (Upper A) 🛛 👻	Shift Light 1(Mask 0x08) 👻	Shift Light 2(Mask 0x02) 👻
7	7	Engine Speed (MSB) 🗸	Engine Speed (LSB) 🔹	Rad Fan 1(Mask 0x01) 🛛 👻	Rad Fan 2(Mask 0x02) 🔹	Water Pump Duty Cycle 🗸	WheelSped (MSB)	WheelSped(LSB)
8	8	Engine Speed (MSB) 🗸	Engine Speed (LSB) 👻	Exhaust Gas Temp 👻	Waste Gate Duty Cycle 👻	Pedal Voltage 🗸 🗸	Pedal Site 👻	Undefined 👻



2 Wiring connection

For MBE 9A9CAN ECU, it is possible to connect to AiM devices through the front connector. As shown below the connector is divided in two parts but pins are numbered in a single sequence from 1 to 121. Below you find connection table.



Connector pin	Pin function	AiM cable
B 89	CAN High	CAN+
B 97	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:
- ECU Model:

4 "MBE – 9A9CAN" protocol

Channels received by AiM loggers connected to "MBE – 9A9CAN" protocol are:

MBE

9A9CAN

FUNCTION
RPM
Active gear
Wheel speed
Oil temperature
Engine coolant temperature
Exhaust gas temperature
Throttle voltage
Throttle angle
Battery voltage
Gearbox voltage
Manifold air pressure side
Barometric pressure
Ignition advance
Injection time
Injection time on upper engine bank
Oil pressure



FuelPress Fuel pressure Lambda1 Lambda 1 Lambda2 Lambda 2 ManifAirPress Manifold air pressure TargetBoost Boost target TargetLambda Lambda target LaunchVolt Launch voltage LaunchTime Launch timer **RPM** limiter RPMLimit InjDutyA Injection duty bank A InjDutyB Injection duty bank B Shift1 Shift light 1 Shift light 2 Shift2 RedFan1 RadFan1 RedFan2 RadFan2 H2OPumpDC Water pump DC WasteGate Waste Gate DC PedalVolt Pedal Voltage PedalSite Pedal site