AIM Infotech

Noble M400 with ECU MBE 975D

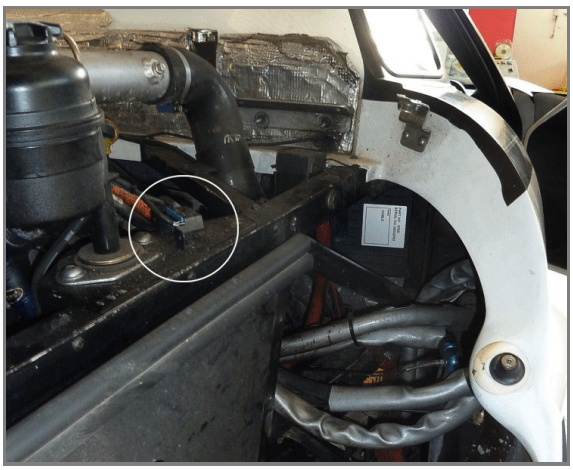
Release 1.01

This tutorial explains how to connect Noble M400 to AiM devices using the CAN Bus.
This car is equipped with MBE 975D as stock ECU. For any further information concerning ECU firmware / software settings and/or upgrading it is always recommended to address to the ECU dealer.

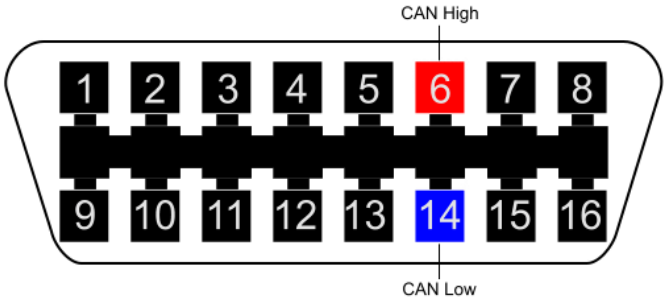
1 Wiring connection

MBE 975D features a bus communication protocol based on CAN on the OBDII connector. OBDII port is on the right side of the car (rear) as shown here below.

To reach the connector you have to remove the chassis as shown here below.



OBDII connector pinout as well as connection table are shown here below.



OBDII connector pin	Function	AiM cable
6	CAN High	CAN+
14	CAN Low	CAN-

2
AiM Logger configuration

Before connecting the ECU to AiM device set it up as follows:

Run Race Studio 2 software and follow this path:

- Device Configuration –> Select the device you are using;
- select the configuration or press “New” to create a new one;
- select ECU manufacturer “NOBLE” and ECU Model “ECU_MBE_975D”;
- transmit the configuration to the device pressing “Transmit”.

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Available channels

Channels received by AIM loggers connected to "Nobel" "ECU_MBE:975D" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	ECU_RPM	RPM
ECU_2	ECU_ROAD_SPEED	Vehicle speed
ECU_3	ECU_TPS	Throttle position sensor
ECU_4	ECU_ECT	Engine coolant temperature
ECU_5	ECU_INTK_AIRT	Intake air temperature
ECU_6	ECU_OILT	Oil temperature
ECU_7	ECU_MAP1	Manifold air pressure 1
ECU_8	ECU_MAP2	Manifold air pressure 2
ECU_9	ECU_TURBO	Turbo pressure
ECU_10	ECU_BARO	Barometric pressure
ECU_11	ECU_OILP	Oil pressure
ECU_12	ECU_BATTERY	Battery supply
ECU_13	ECU_LAMBDA_A	Lambda A
ECU_14	ECU_LAMBDA_B	Lambda B
ECU_15	ECU_FUEL_LEVEL	Fuel level

Please note: channels listed above are those polled by AiM devices. They may or may not come across in the data stream depending on models. RPM, TPS,ECT and speed are generally available.