AiM Infotech

KMS MA25 and MP25 ECUs

Release 1.06

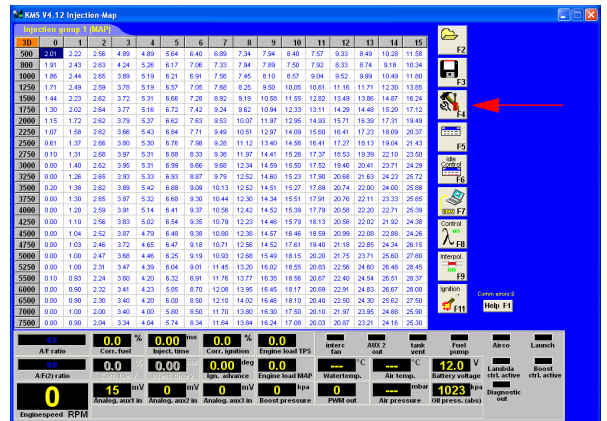ECU

AiM

1
Supported models

This tutorial explains how to connect KMS ECUs to AiM devices. Supported models are:
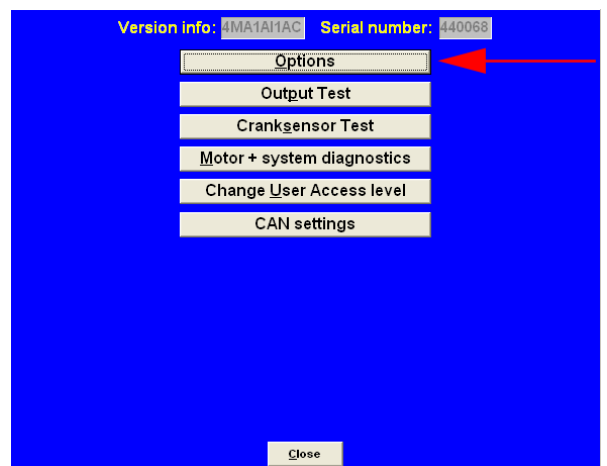
• MA25
• MP25

2
Software setup

KMS MP25 and MA25 ECUs come with KMS dedicated software. To ensure a correct communication between the ECUs and AiM devices set up the ECUs as follows:
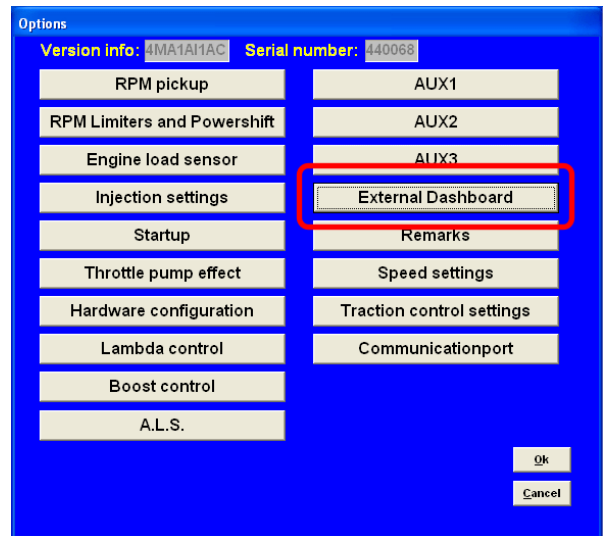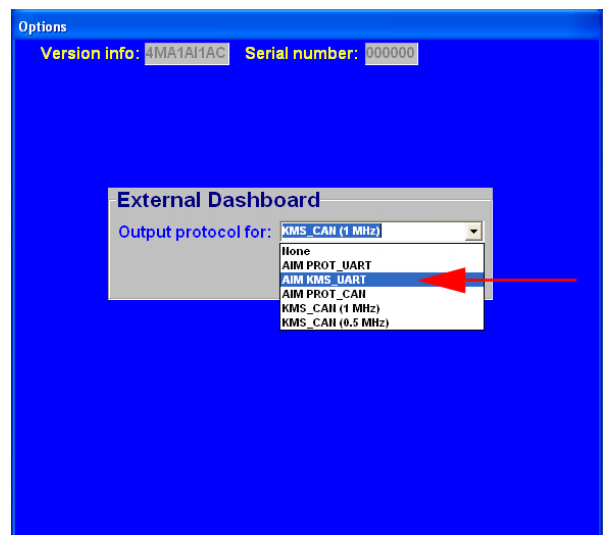
Run the software and press "Options" icon.
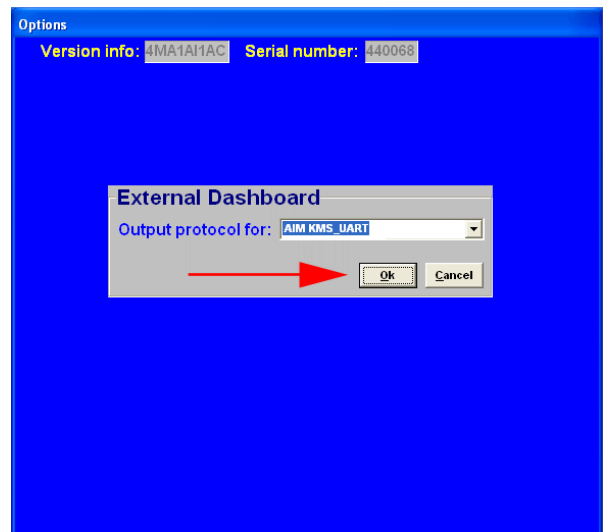

Press "Options".

Press "External Dashboard"
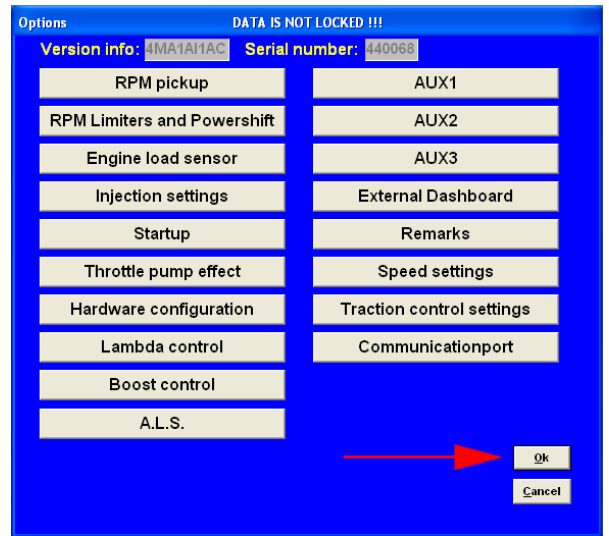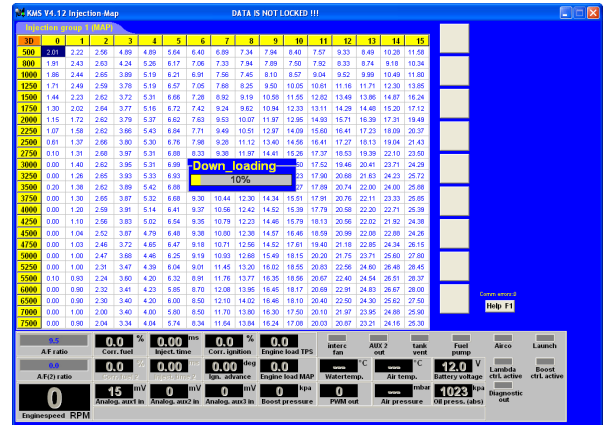

Select "AIM KMS_UART"

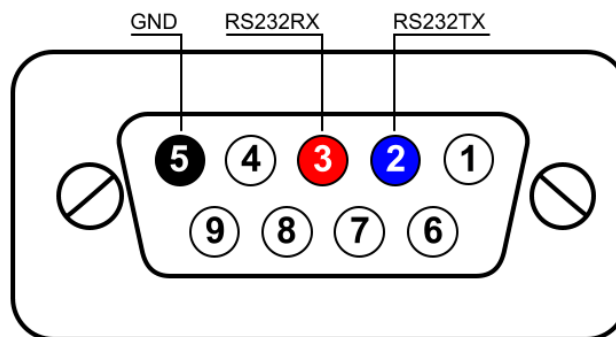
Press "OK"

Press "OK" again

Data download starts automatically

3
Connection to AiM devices

KMS MA25 and MP25 ECUs feature a serial communication protocol that can be reached using the DB9 female connector you find on the ECU harness. Here below are connector pinout and connection table.

DB9 Pin	Pin function	AiM cable label
2	RS232TX	RS232RX
3	RS232RX	RS232TX
5	GND	GND

4
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 "KMS"
- ECU Model "RS232"

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Available channels

Channels received by AiM devices connected to "KMS" "RS232" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	KMS_RPM	RPM
ECU_2	KMS_TPS_RAW	Throttle position sensor raw value
ECU_3	KMS_ECT	Engine coolant temperature
ECU_4	KMS_IAT	Intake air temperature
ECU_5	KMS_MAP	Manifold air pressure
ECU_6	KMS_OILP	Oil pressure
ECU_7	KMS_AFR	Air Fuel ratio
ECU_8	KMS_IGN_ADV	Ignition advance
ECU_9	KMS_INJ_TIME	Injection time
ECU_10	KMS_GEAR	Engaged gear
ECU_11	KMS_TPS_LOADST	Throttle position sensor load status
ECU_12	KMS_MAP_LOADST	Manifold air pressure load status
ECU_13	KMS_LAUNCH_SW	Launch switch
ECU_14	KMS_LAMBDA_CT	Lambda traction control
ECU_15	KMS_FUEL_INJ_C	Fuel injection correction
ECU_16	KMS_IGNI_CORR	Ignition correction
ECU_17	KMS_ECU_BATT	Battery supply
ECU_18	KMS_THROTTLE	Throttle percentage