AiM Infotech

KMS MD 35 ECU

Release 1.03

1
Supported model

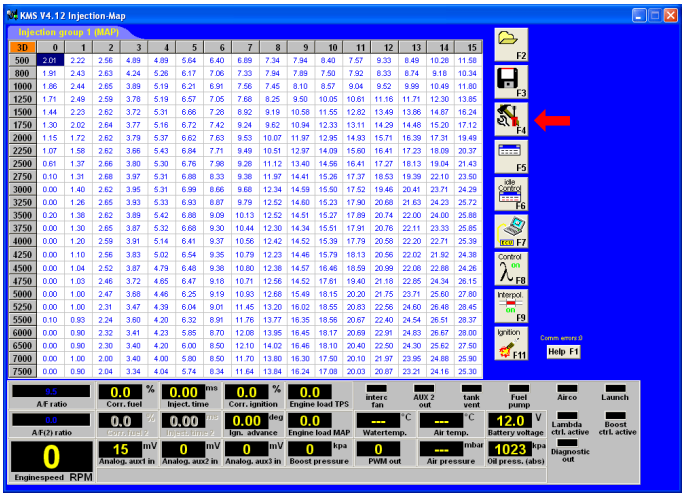
This tutorial explains how to connect KMS ECU to AiM devices. Supported model is:

- KMS MD35

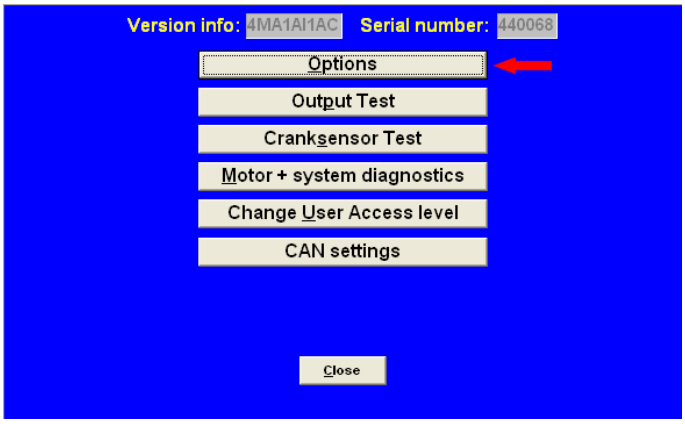
2
Software setup

KMS MD35 ECU needs a software setting through "KMS Management" software to correctly communicate with AiM devices. Please follow carefully the procedure here below described

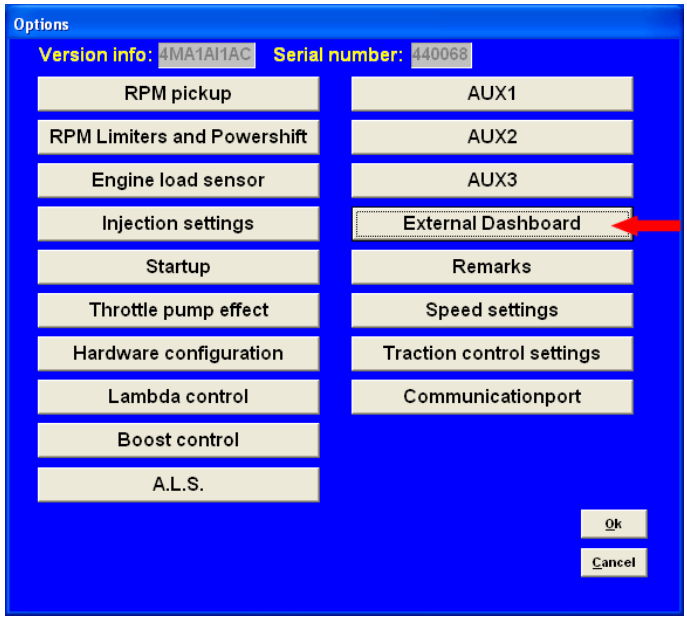
- Run the software
- select "Options" icon



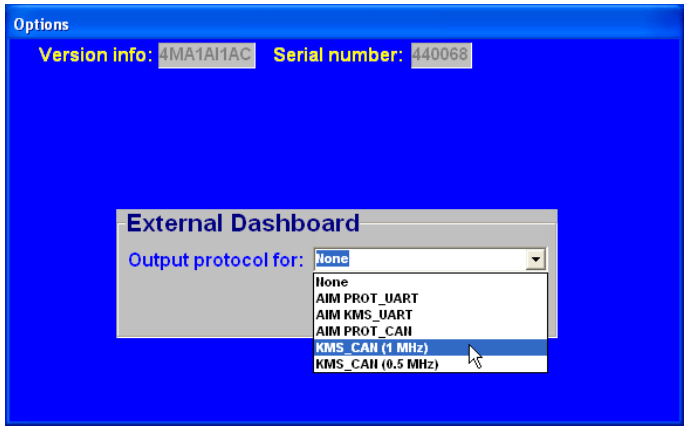
- Select "Options".



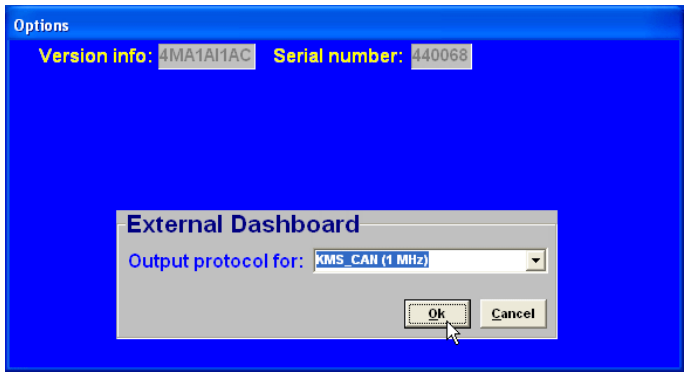
- Select "External Dashboard"



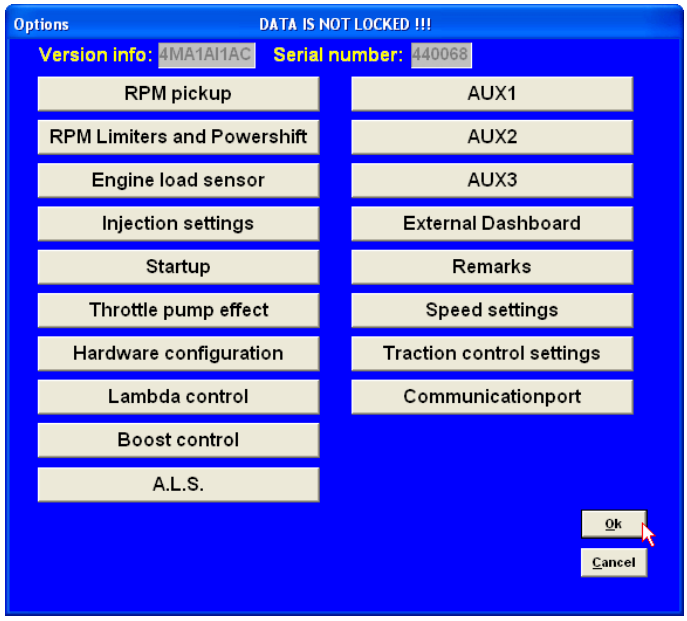
- Select "AIM KMS CAN (1MHz)"



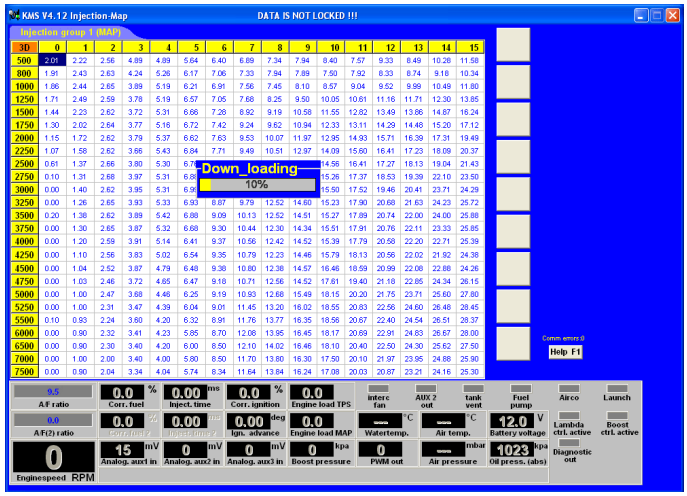
- Press "OK"



- Press "OK"

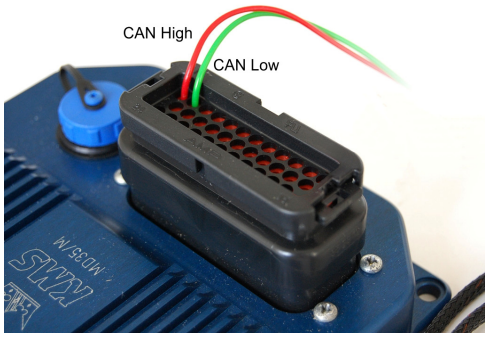


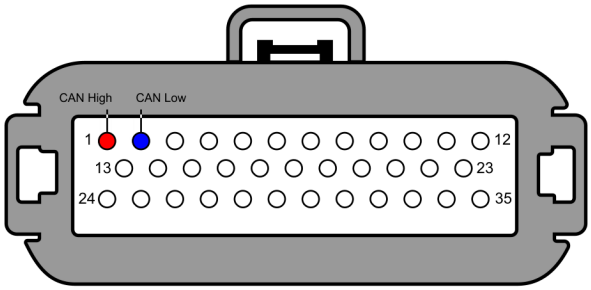
- Data download starts automatically and KMS setting is over.



3
Wiring connection

KMS MD35 ECU features a bus communication protocol based on CAN on the front connector. Here below you see the ECU already connected on the left, ECU connector pinout on the right and connection table below.





ECU connector pin	Pin function	AiM cable
1	CAN High	CAN+
2	CAN Low	CAN-

4
AiM device configuration

Before connecting the ECU to AiM device set this up using AiM Race Studio software. The parameters to set in the device configuration are:

- ECU manufacturer “KMS”
- ECU Model "MD35 "

5
Available channels

Channels received by AiM devices connected to "KMS" "MD35" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	K_RPM	RPM
ECU_2	K_ECT	Engine coolant temperature
ECU_3	K_IAT	Intake air temperature
ECU_4	K_MAP	Manifold air pressure
ECU_5	K_OILP	Oil pressure
ECU_6	K_TPS_ENG_LOAD	Throttle position sensor engine load
ECU_7	K_BOO_ENG_LOAD	Booster engine load
ECU_8	K_BATT_VOLT	Battery supply
ECU_9	K_EXH_TEMP1	Exhaust temperature 1
ECU_10	K_EXH_TEMP2	Exhaust temperature 2
ECU_11	K_CRANK	Teeth per rev of crank sensor
ECU_12	K_GEAR	Engaged gear
ECU_13	K_ACC_RPM_CH	Acceleration RPM channel
ECU_14	K_INJ1_PULSE	Injector group 1 pulse width
ECU_15	K_INJ1_CORR	Injector group 1 correction
ECU_16	K_LAMBDA1	Lambda sensor 1
ECU_17	K_LAMBDA2	Lambda sensor 2
ECU_18	K_LAMBDA1_STAT	Lambda sensor 1 status
ECU_19	K_LAMBDA2_STAT	Lambda sensor 2 status
ECU_20	K_INJ2_PULSE	Injector group 2 pulse width
ECU_21	K_INJ2_CORR	Injector group 2 correction
ECU_22	K_IGNIT_CORR	Ignition correction %
ECU_23	K_IGNIT_BTDC	Ignition point BTDC
ECU_24	K_AUX2_ACT	Auxiliary 2 active
ECU_25	K_AUX3_ACT	Auxiliary 3 active

ECU_26	K_FUELPUMP_ACT	Fuel pump actuator
ECU_27	K_AUX1_ACT	Auxiliary 1 active
ECU_28	K_LAMBDA_ACT	Lambda Active
ECU_29	K_LAMB_ERR_ACT	Lambda error active
ECU_30	K_BOOST_ACT	Boost active
ECU_31	K_SUPP_ERR_ACT	Battery supply error active
ECU_32	K_POWER_SW_ACT	Power switch active
ECU_33	K_LAUNCHSW_ACT	Launch switch active
ECU_34	K_RPM_LIM	RPM limiter
ECU_35	K_BOOST_LIM	Boost limiter
ECU_36	K_FUEL_CUT_LIM	Fuel cut limiter
ECU_37	K_IDLE_VALVE	Idle valve
ECU_38	K_BOOST_VALVE	Boost valve position
ECU_39	K_ATM_PRESS	Atmospheric pressure