AiM Infotech

MAN truck up to 2010

Release 1.01

ECU

This tutorial explains how to connect MAN truck ECU to AiM devices. Supported years are:
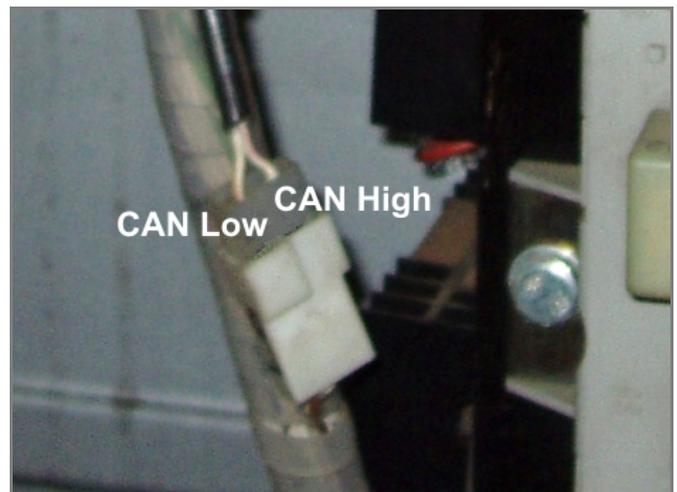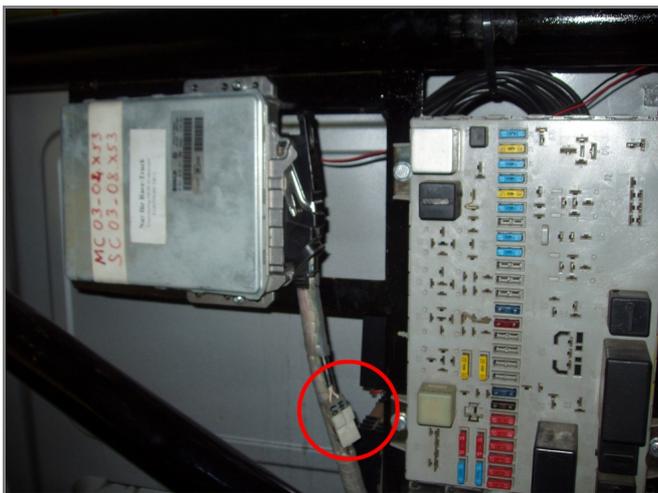
- MAN truck: up to 2010

1
CAN connection

MAN trucks up to 2010 ECU use a Bosch EDC MS5 ECU with SAE J1939 communication protocol. The CAN line can be reached on the white connector shown here below: on the left you see the connector position and on the right the connection details.

2
AiM Logger configuration

Before connecting the logger to the ECU, set up the logger as follows:

Run Race Studio 2 software and select:
- Device Configuration –> Select the device you are using;
- select the configuration or press "New" to create a new one;
- select ECU manufacturer "Bosch" and ECU Model "MS5_SAE_J1939"
- transmit the configuration to the device pressing "Transmit".

3
Available channels

Channels received by AiM devices connected to Bosch MS5_SAE_J1939 protocol are.

ID	CHANNEL NAME	FUNCTION
ECU_1	ECU_RPM	RPM
ECU_2	ECU_VEH_SPEED	Vehicle speed
ECU_3	ECU_PPS1	Pedal position sensor 1
ECU_4	ECU_ENG_TORQUE	Engine Torque
ECU_5	ECU_ECT	Engine Coolant Temperature
ECU_6	ECU_FUEL_TEMP	Fuel temperature
ECU_7	ECU_BARO_PRESS	Barometric pressure
ECU_8	ECU_IAT	Intake air temperature
ECU_9	ECU_BOOS_PRESS	Boost pressure
ECU_10	ECU_OIL_PRESS	Oil pressure
ECU_11	ECU_OIL_TEMP	Oil temperature
ECU_12	ECU_FUEL_INST	Fuel consumption: litres per hour
ECU_13	ECU_EXH_GAS_T	Exhaust gas temperature
ECU_14	ECU_BRK1_PRESS	Brake 1 pressure
ECU_15	ECU_BRK2_PRESS	Brake 2 pressure
ECU_16	ECU_BRK_POS	Brake position
ECU_17	ECU_FUEL_DY_PR	Fuel dynamic pressure
ECU_18	ECU_BATT_POT_V	Battery supply
ECU_19	ECU_INJT_R1_P1	Engine injection time rail pressure1
ECU_20	ECU_INJM_R1_P1	Engine injection met rail pressure1

Technical note: not all data channels outlined in the ECU template are validated for each manufacturer model or variant; some of the outlined channels are model and year specific, and therefore may not be applicable.