AiM Infotech

Bosch ABS M4 Kit
# 500 kbits and 1 Mbit

Release 1.00

ECU

This tutorial explains how to connect Bosch ABS M4 Kit 500 kbits and 1 Mbits baud rate to AiM devices.

1
CAN bus connection

Bosch ABS M4 Kit features a data transmission bus based on CAN on the 38 pins front connector. Here below you see the connector pinout as well as a part of the electrical scheme you find in the kit user manual. This helps the user to correctly reach the CAN bus.
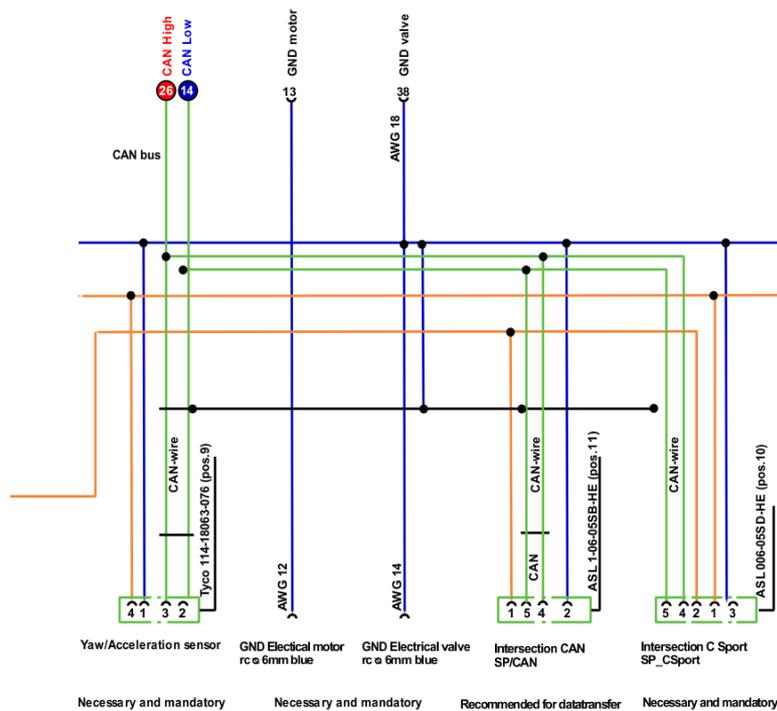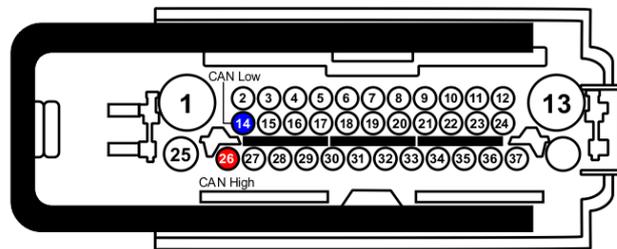
Front connector pin	Pin function	AiM cable
26	CAN High	CAN+
14	CAN Low	CAN-

2
AiM device configuration

Before connecting AiM device to the kit 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 "Bosch" and ECU Model
    - o "ABS_M4_500kbits" if you are using a 500 kbits baud rate
    - o "ABS_M4_1Mbit" if you are using 1Mbit baud rate
- transmit the configuration to the device pressing "Transmit".

3
Available channels

Channels received by AiM devices connected to "Bosch" "ABS_M4_500_kbits" and "ABS_M4_1Mbit" protocols are the same.

ID	CHANNEL NAME	FUNCTION
ECU_1	M4_WH1_FL	Front left wheel speed first sensor
ECU_2	M4_WH1_FR	Front right wheel speed first sensor
ECU_3	M4_WH1_RL	Rear left wheel speed first sensor
ECU_4	M4_WH1_RR	Rear right wheel speed first sensor
ECU_5	M4_WH2_FL	Front left wheel speed second sensor
ECU_6	M4_WH2_FR	Front right wheel speed second sensor
ECU_7	M4_WH2_RL	Rear left wheel speed second sensor
ECU_8	M4_WH2_RR	Rear right wheel speed second sensor
ECU_9	M4_BRAKE_PRESS	Brake pressure
ECU_10	M4_ACC_X	Acceleration X
ECU_11	M4_ACC_Y	Acceleration Y
ECU_12	M4_YAW_RATE	Yaw rate
ECU_13	M4_YAW_ACC_°/s2	Steering wheel acceleration in %
ECU_14	M4_SWITCH_ST	Switch state