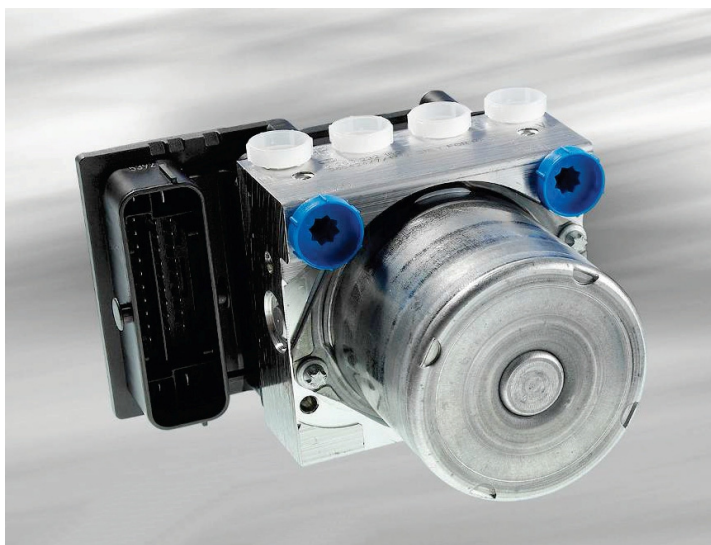




## AiM Infotech

### Bosch ABS M4 Kit 500 kbits and 1 Mbit

Release 1.02



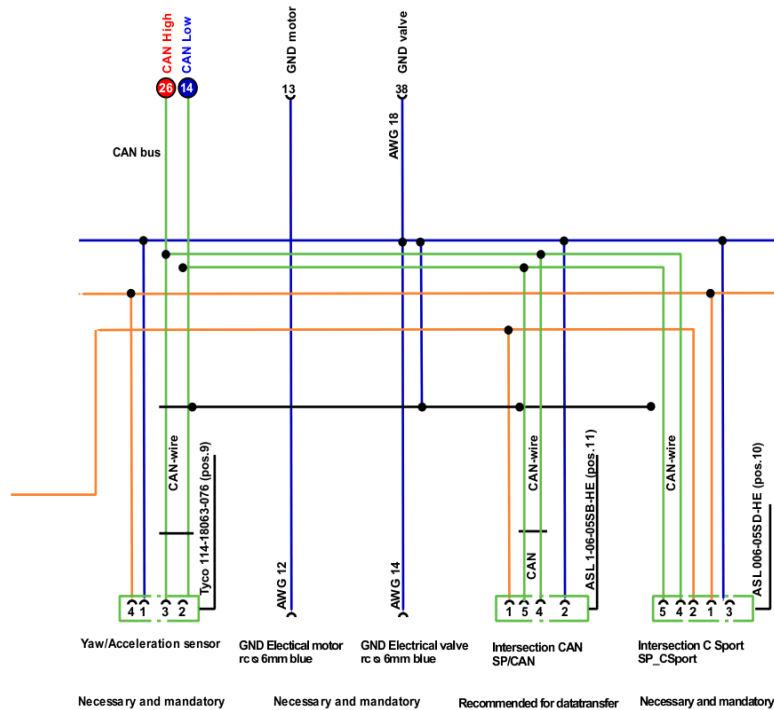
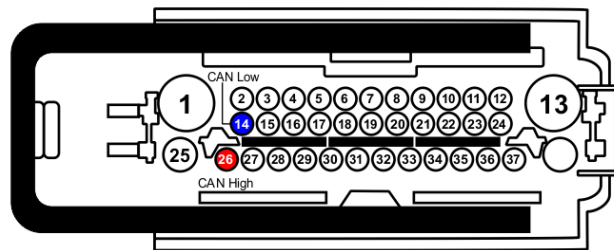
ECU



This tutorial explains how to connect Bosch ABS M4 Kit 500 kbits and 1 Mbps 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 the kit to AiM device set this up using AiM Race Studio software. The oarameters to select in the device configuration are:

- ECU manufacturer "Bosch"
- ECU Model
  - "ABS\_M4\_500kbits" if you are using a 500 Kbit baud rate
  - "ABS\_M4\_1Mbit" if you are using 1Mbit baud rate

## 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	Horizontal accelerometer
ECU_11	M4_ACC_Y	Vertical accelerometer
ECU_12	M4_YAW_RATE	Steering wheel speed
ECU_13	M4_YAW_ACC_°/s2	Steering wheel acceleration in %



ECU_14	M4_SWITCH_ST	Switch state
ECU_15	M4_BRK_SW	Brake switch
ECU_16	M4_ABS_ACTIVE	ABS Active
ECU_17	M4_EBD_LAMP	Electronic Brake-force Distribution lamp
ECU_18	M4_ABS_ACTIVE	ABS Active