AiM Infotech

Mitsubishi Lancer EVOX
From 2008 onwards

Release 1.04

ECU

AiM

This tutorial explains how to connect Mitsubishi Lancer EVOX to AiM devices. Supported years are:

- Mitsubishi Lancer EVOX   from 2008 onwards
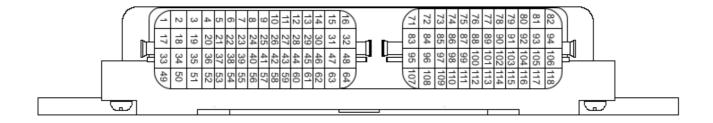
1
Available CAN connections

Mitsubishi Lancer EVOX features a bus communication protocol based on CAN that can be reached in two ways: connecting AiM device to the vehicle ECU or to the differential control unit.
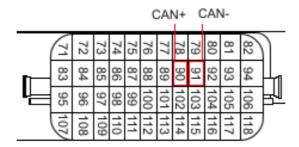
1.1
Connection through the vehicle ECU

Mitsubishi Lancer EVOX ECU is equipped with two front connectors: a 64 pins connector and a 48 pins one. Pins are numbered from 1 to 64 and from 71 to 118 as shown here below.

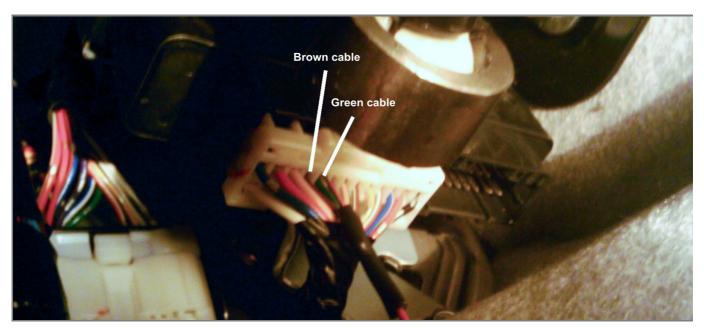The CAN Bus is on 48 pins connector. Its pinout as well as connection table are shown below.

ECU connector pin	Pin function	AiM cable
90	CAN+	CAN+
91	CAN-	CAN-

1.2
Connection through the differential control unit

CAN Bus is also available on the vehicle differential control unit. Here below it is shown with the connection table.

Pin number	Cable colour	Pin function	AiM cable
4	Brown	CAN High	CAN+
5	Green	CAN Low	CAN-

2
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 "Mitsubishi"
- ECU Model "EVO_10"

3
Available channels

Channels received by AiM devices connected to Mitsubishi Lancer EVO_10 protocol are.

ID	CHANNEL NAME	FUNCTION
ECU_1	EVO10_RPM	RPM
ECU_2	EVO10_SPEED	Vehicle speed
ECU_3	EVO10_SPEED_FL	Front left wheel speed
ECU_4	EVO10_SPEED_FR	Front right wheel speed
ECU_5	EVO10_SPEED_RL	Real left wheel speed
ECU_6	EVO10_SPEED_RR	Rear right wheel speed
ECU_7	EVO10_PPS	Pedal position
ECU_8	EVO10_TPS	Throttle position
ECU_9	EVO10_TPS_IN	Throttle position input
ECU_10	EVO10_BRAKE_SWITCH	Brake switch
ECU_11	EVO10_ENG_TEMP	Engine Temperature
ECU_12	EVO10_MAF	Manifold air flow
ECU_13	EVO10_TURBO_PRESS	Turbo pressure
ECU_14	EVO10_STEER_ANGLE	Steering Angle
ECU_15	EVO10_STEER_SPEED	Steering speed

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.