

AiM Infotech

## Mitsubishi Lancer EVOX From 2008 onwards

Release 1.02

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ECU



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

- Mitsubishi Lancer EVOX from 2008 onwards

# 1

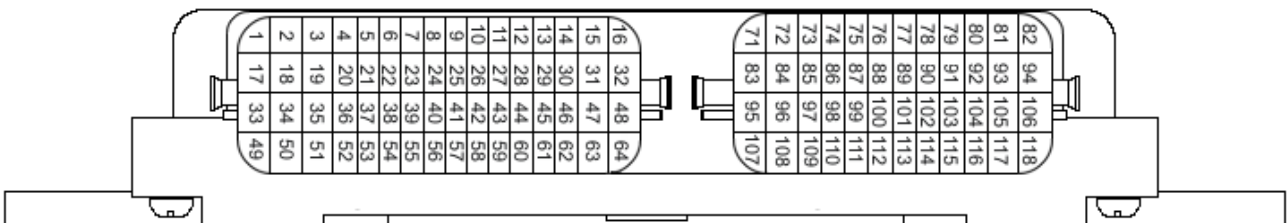
## Available CAN connections

Mitsubishi Lancer EVOX is equipped with a CAN communication protocol you can reach in two ways: connecting AiM device to the vehicle ECU or to the differential control unit.

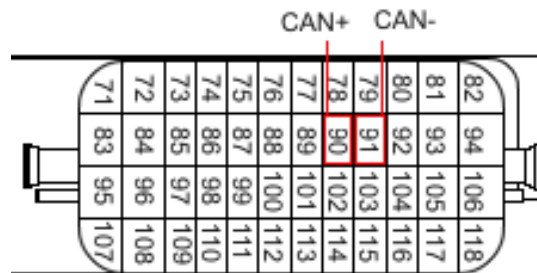
### 1.1

## 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

90

91

### Pin function

CAN+

CAN-

### AiM cable

CAN+

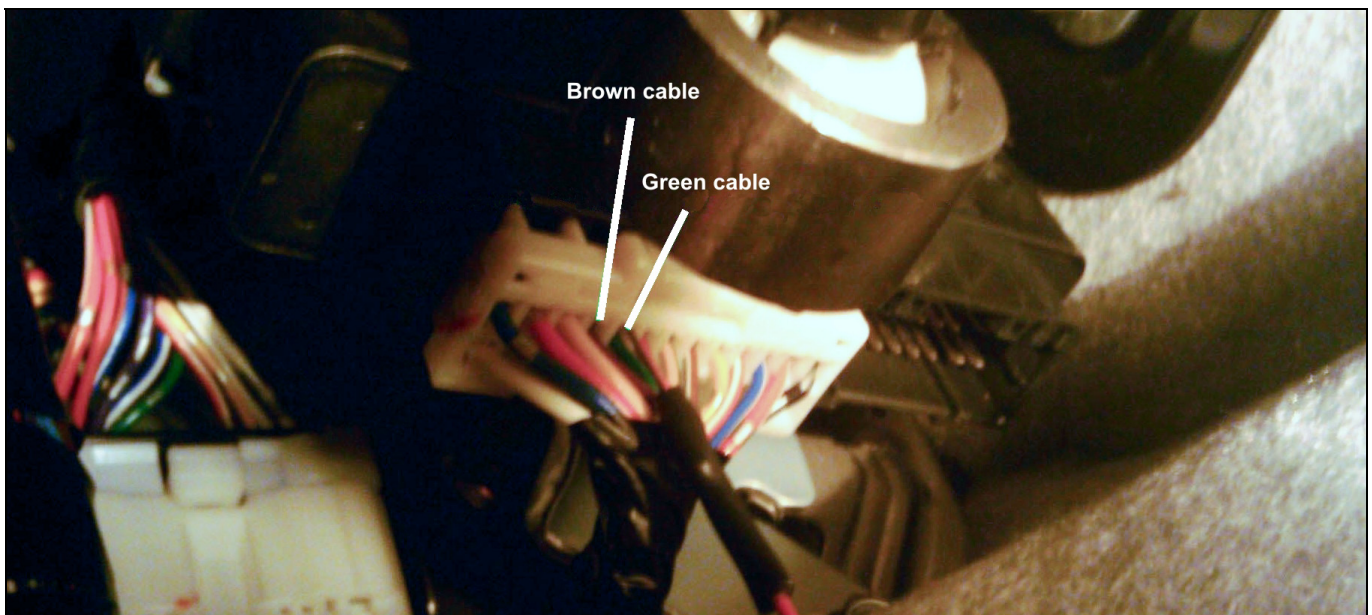
CAN-

## 1.2

# Connection through the differential control unit

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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+	CAN+
5	Green	CAN-	CAN-

## 2

# AiM Logger configuration

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Once the ECU connected to the logger, 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 "Mitsubishi" and ECU Model "EVO\_10"
- transmit the configuration to the device pressing "Transmit".

# 3

## Available channels

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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	Rear 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