



AiM Infotech

Mitsubishi Lancer EVOX
From 2008 onwards

Release 1.04



ECU

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

- Mitsubishi Lancer EVOX from 2008 onwards

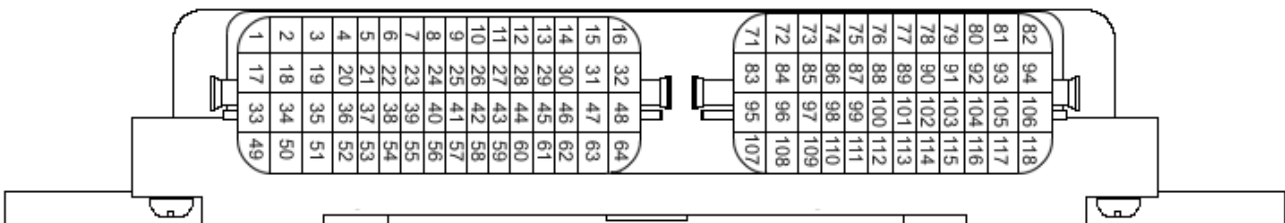
1

Available CAN connections

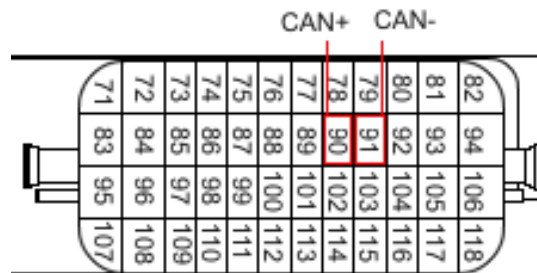
Mitsubishi Lancer EVOX features a bus communication protocol based on CAN that can be reached in two ways: connecting AiM device to the vehicle ECU or to the differential control unit.

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

90

91

Pin function

CAN+

CAN-

AiM cable

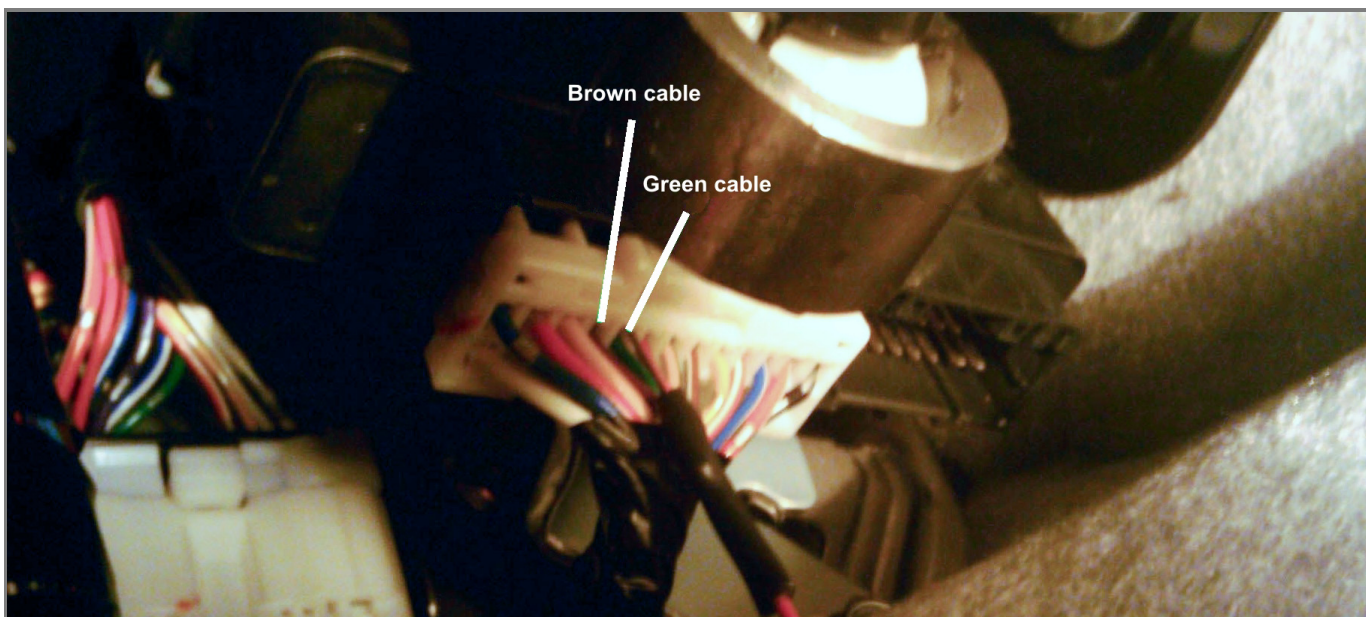
CAN+

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- |

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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"

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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 | 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 |

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.