



AiM Infotech

Lexus IS-F
From 2007 onwards

Release 1.03



This tutorial explains how to connect AiM devices to Lexus IS-F. Supported years are:

- Lexus IS-F from 2007 onwards

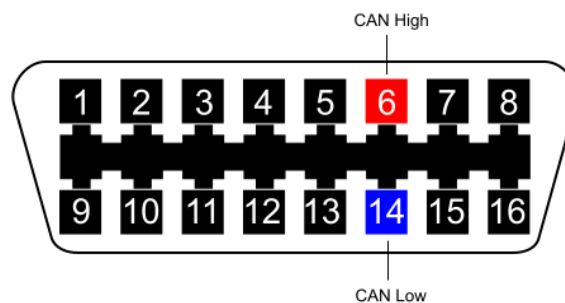
1

Wiring connection

Lexus ECU features a bus communication protocol based on CAN Bus on the OBDII plug placed below the stock dash, left on the driver area as shown here below.



Connector pinout as well as connection table are shown here below



OBDII connector pin

6
14

Pin function

CAN High
CAN Low

AiM cable

CAN+
CAN-

2

AiM device configuration

Before connecting the ECU connected to AiM device set this up using AiM Race Studio software. The parameters to select in the device configuration are:

- ECU manufacturer "Lexus"
- ECU Model "IS_F";

3

Available channels

Channels received by AiM loggers connected to "Lexus" "IS_F" protocol are:

| ID | CHANNEL NAME | FUNCTION |
|--------|----------------|-------------------------|
| ECU_1 | ECU_RPM | RPM |
| ECU_2 | ECU_THROTTLE | Throttle position |
| ECU_3 | ECU_BRAKE_PR | Brake pressure 1 |
| ECU_4 | ECU_VEH_SPD | Vehicle speed |
| ECU_5 | ECU_STEER_ANG | Steering angle |
| ECU_6 | ECU_BRAKE_PR2 | Brake pressure 2 |
| ECU_7 | ECU_WHE_FR | Front right wheel speed |
| ECU_8 | ECU_WHE_FL | Front left wheel speed |
| ECU_9 | ECU_WHE_RR | Rear right wheel speed |
| ECU_10 | ECU_WHE_RL | Rear left wheel speed |
| ECU_11 | ECU_BRK_SW | Brake switch |
| ECU_12 | ECU_AIR_TMP | Intake air temperature |
| ECU_13 | ECU_ENGINE_TMP | Engine temperature |
| ECU_14 | ECU_PPS_VOLT | Pedal position voltage |
| ECU_15 | ECU_SHIFT | ECU Shift switch |

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.