AiM Infotech

Lexus IS-F
From 2007 onwards

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

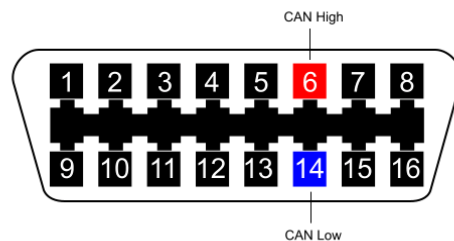- Lexus IS-F   from 2007 onwards

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	Pin function	AiM cable
6	CAN High	CAN+
14	CAN Low	CAN-

2
AiM Logger configuration

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 "Lexus" and ECU Model "IS_F";
- transmit the configuration to the device pressing "Transmit".

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

Please note: channels listed above are those polled by AiM devices. They may or may not come across in the data stream depending on models. RPM, TPS,ECT and speed are generally available.