

Honda Civic Type R OBDII connection



INTRODUCTION

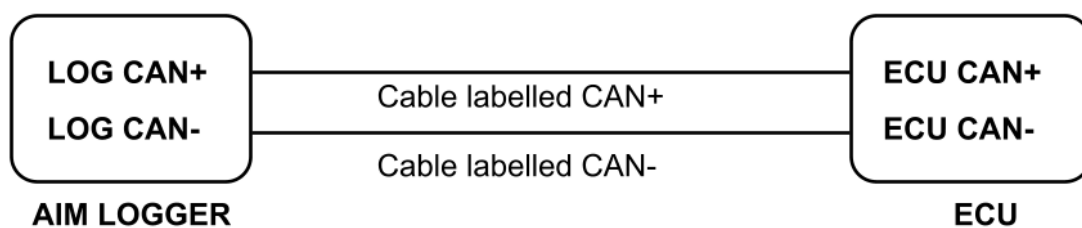
AIM has developed special applications for many of the most common ECUs: by special applications we mean user-friendly systems which allow to easily connect your ECU to our high tech data loggers: user needs only to install harness between the **logger** and the ECU.

Once connected, the logger displays (and/or records, depending on the logger and on the ECU data stream) values like RPM, engine load, throttle position (TPS), air and water temperatures, battery voltage, speed, gear, lambda value (air/fuel ratio) analog channels...

All AIM loggers include – free of charge – **Race Studio 2** software, a powerful tool to configure the system and analyze recorded data on your PC.

Warning: once the DLC is connected to the logger, it is necessary to set it in Race Studio 2 software.

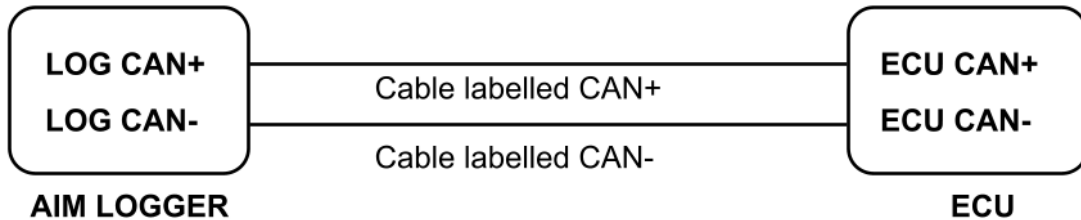
Select Manufacturer "Honda" and Model "CIVIC_TYPE_R_FN2"



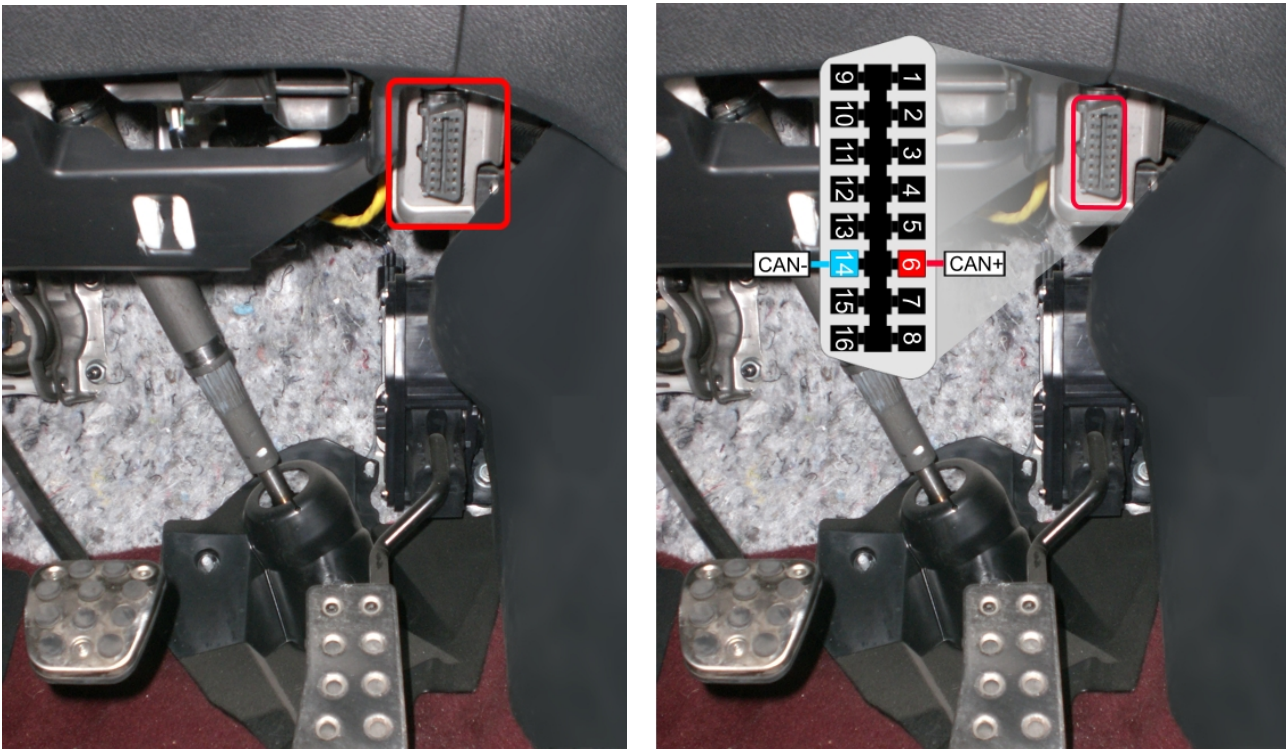
Refer to Race Studio Configuration user manual for further information concerning the loggers configuration.

1 – Communication Setup and Connection

The car uses a CAN protocol to communicate parameters to AIM data loggers; the image here below show the standard CAN communication setup.



In order to get ECU data just connect AIM logger to DLC connector, placed on the right of the steering column under the dashboard (image here below on the left).



To connect AIM logger to the vehicle (please refer to the image here above on the right) connect:

- pin 6 of DLC connector to AIM cable labelled CAN+
- pin 14 of DLC connector to AIM cable labelled CAN-.

2 – Communication protocol

Channels received by AIM loggers connected to Honda Civic Type R DLC (CAN ECU) are:

ID	CHANNEL NAME	FUNCTION
ECU_1	HO_RPM	RPM
ECU_2	HO_VEH_SPEED	Vehicle speed
ECU_3	HO_TPS	Throttle position sensor
ECU_4	HO_PPS	Pedal position sensor
ECU_5	HO_ECT	Engine coolant temperature
ECU_6	HO_IAT	Intake air temperature
ECU_7	HO_BRAKE_SW	Brake switch
ECU_8	HO_BRAKE_PRESS	Brake pressure
ECU_9	HO_WH_SPD_FL	Wheel Speed Front Left
ECU_10	HO_WH_SPD_FR	Wheel Speed Front Rear
ECU_11	HO_WH_SPD_RL	Wheel Speed Rear Left
ECU_12	HO_WH_SPD_RR	Wheel Speed Rear Right
ECU_13	HO_POS_LIGHT	Position light
ECU_14	HO_HI_BEAM	High beam
ECU_15	HO_LO_BEAM	Low beam
ECU_16	HO_FOG_F_LIGHT	Fog front light
ECU_17	HO_TURN_LEFT	Turn left
ECU_18	HO_TURN_RIGHT	Turn right
ECU_19	OBDII_MAF	Mass air flow
ECU_20	OBDII_MAP	Manifold air pressure
ECU_21	OBDII_BARO	Barometric