AiM InfoTech

Hyundai
Veloster N
i30 N –

Release 1.00

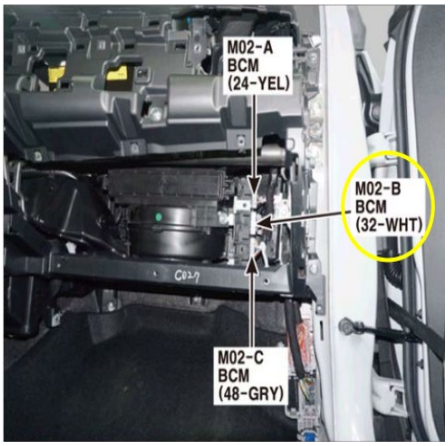
1
Models and years

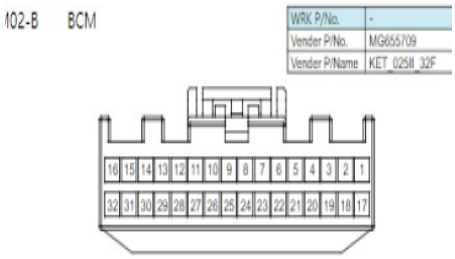
This document explains how to connect AiM devices to the vehicle Engine Control Unit (ECU) data stream.
Supported models are:

- Veloster N 2018
- I30 N 2018

2
Wiring connection

These models have a manufacturer-specific CAN-based protocol, accessible through the connector M02-B (32 ways white) in the Body Control Module located in the in the glove box compartment. For this installation, refer to the following images and the connection table.





C-CAN(Low) – Blue / CAN(-) - Blue

C-CAN(High) – Red / CAN(+) - White

32 ways connector	BCM CAN bus color cable	Function	AiM color cable
19	Red	CAN High	CAN+ (White)
20	Blu	CAN Low	CAN- (Blue)

3
Race Studio configuration

Before connecting the AiM device to the ECU, set all functions using AiM software Race Studio. The parameters to set in the device configuration are:

- ECU manufacturer: **Hyundai**
- ECU Model: **N-Series** (only RS3)

4
"Hyundai – N-Series" protocol

Channels received by AiM devices configured with "Hyundai – N-Series" protocol are:

CHANNEL NAME	FUNCTION
ECU_RPM	Engine RPM
ECU_GEAR	Gear position
ECU_WS_FR	Front rear wheel speed
ECU_WS_FL	Front left wheel speed
ECU_WS_RL	Rear left wheel speed
ECU_WS_RR	Rear right wheel speed
ECU_LONG_g	Inline acceleration
ECU_LAT_g	Lateral acceleration
ECU_STEER_SPD	Steering speed
ECU_ENG_TEMP1	Engine temperature1
ECU_AMB_T	Ambient temperature
ECU_ENG_OIL_T	Oil temperature
ECU_BRK_PRESS1	Brake pressure1
ECU_BST_PRE	Boost pressure
ECU_STEER_ANG	Steering Angle
ECU_THROTTLE	Throttle position sensor
ECU_PEDAL	Pedal position sensor
ECU_V_BATTRY	Voltage battery
ECU_BRK_SW	Brake switch
ECU_IAT	Intake air temperature
ECU_ABS_ACT	ABS activation
ECU_LSD_TQC CUR	LSD torque current

ECU SWITCHES		Ignition ECU
	2=	Brake switch
	5=	Clutch switch 1
	7=	Clutch switch 2
	8=	Clutch op ack
ECU DYN CTLR		Dynamic control
ECU_HILL_DESCEND		Hill descent control
ECU DASH LIGHT4		Dash light 4
ECU DASH LIGHT7		Dash light 7
ECU DASH LIGHT5		Dash light 5
ECU DASH LIGHT2		Dash light 2
ECU DASH LIGHT1		Dash light 1

Technical note: not all data channels outlined in the ECU template are validated for each manufacture's model or variant; some of the outlined channels are model and year specific, and therefore may not be applicable.