AiM Infotech

MV Agusta
F3 675cc Second Edition,
800cc from 2012 and F4
1000cc from 2013

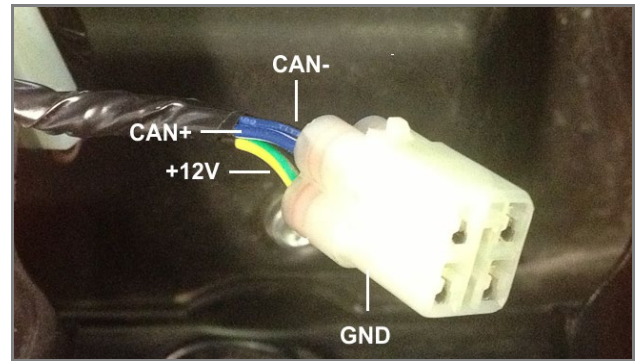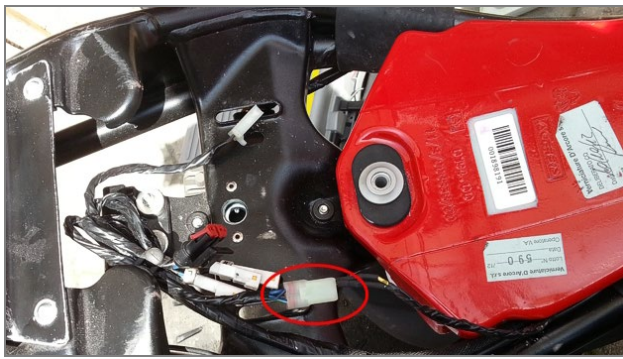Release 1.03

ECU

1
Models and years

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

- MV Agusta   F3 675cc Second Edition   from 2012
- MV Agusta F3   800cc   from 2012
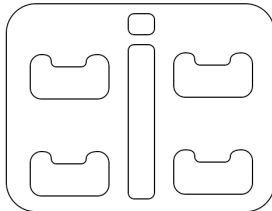- MV Agusta F4   1000cc   from 2013

Warning: for this model/year AiM recommends not to remove the stock dash. Doing so will disable some of the bike functions or safety controls. AiM Tech srl will not be held responsible for any consequence that may result from the replacement of the original instrumentation cluster.

2
Connection

These models feature a bus communication protocol based on CAN, accessible through the 4ways white connector, placed under the bike seat. For this installation refer to the following connector pinout and connection table (**vehicle connector – front view**).

	Cable colour	Pin function	AiM cable
CAN-	Blue/White	CAN high	CAN+
	Blue/Black	CAN Low	CAN-
GND	Yellow/Green	+12V	+12V
	Blue	GND	GND

CAN+

+12V

3

Race Studio configuration

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

- ECU manufacturer **MV_Agusta**
- ECU Model **F3**

4

"MV Agusta – F3" protocol

Channels received by AiM devices configured with "MV Agusta – F3" protocol are:

ID	CHANNEL NAME	FUNCTION
ECU_1	ECU_RPM	RPM
ECU_2	ECU_SPEED	Vehicle speed
ECU_3	ECU_GEAR	Engaged gear
ECU_4	ECU_MAPS_SW	Maps switch
ECU_5	ECU_HAND_TPS	Hand grip TPS
ECU_6	ECU_ENG_TPS	Engine TPS
ECU_7	ECU_CLUTCH	Clutch switch
ECU_8	ECU_MAN_AIR_PRES	Manifold air pressure
ECU_9	ECU_INT_AIR_TEM	Internal air temperature
ECU_10	ECU_ENG_TEMP	Engine temperature
ECU_11	ECU_VBATT	V battery
ECU_12	ECU_TRACTION	Traction control

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.