

AiM Infotech

Ducati 1098 and 1198

Release 1.03



ECU





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Bike years

This tutorial describes how to connect AiM devices to Ducati 1098 and 1198. Supported years and models are:

Ducati 1098	2007-2009
Ducati 1098R	2007-2009
Ducati 1098S	2007-2009
Ducati 1098S Tricolore	2007-2009
Ducati 1198	2009-2011
Ducati 1198S	2009-2010
Ducati 1198 S Corsa	2010
Ducati 1198SP	2011.

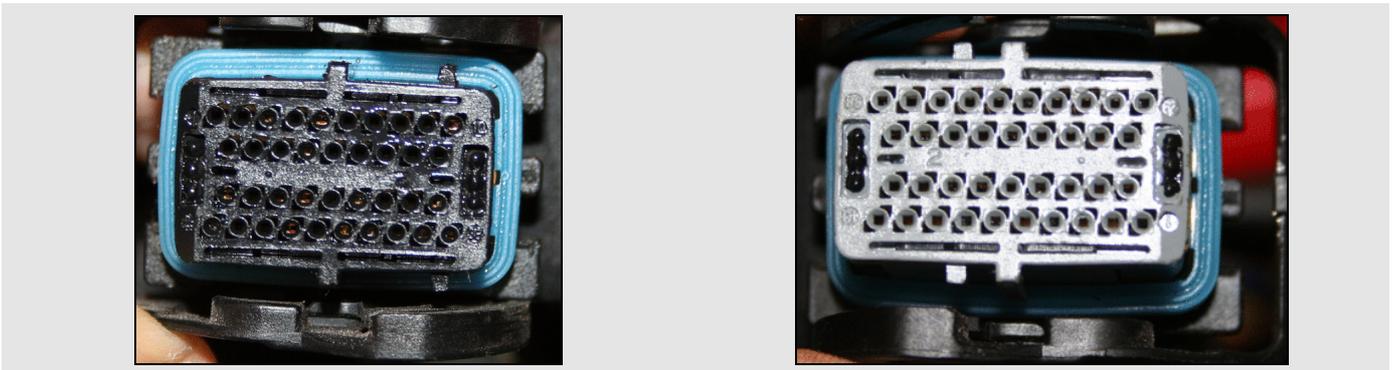
2

CAN bus connection

Ducati 1098 and 1198 ECU communicates through the CAN Bus that can be reached in two ways: directly on the ECU or through the bike rear dashboard connector.

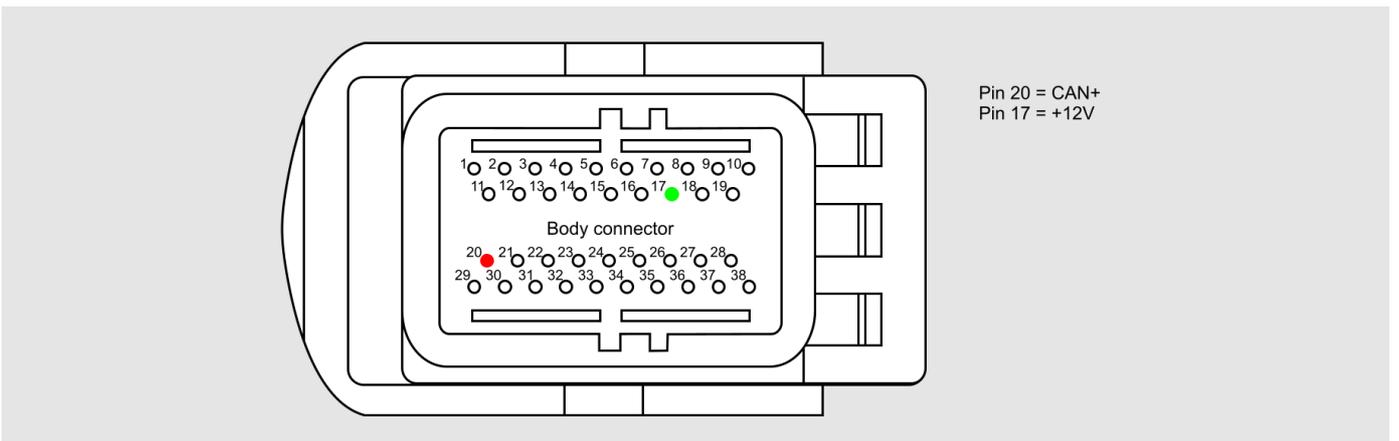
2.1 Direct connection

Ducati 1098 and 1198 ECU is equipped with two 38 pins male connectors shown here below; they are named "Engine" (black – on the left) and "Body"(grey – on the right).



To connect AiM devices directly to Ducati ECU use Body (grey) connector. Here below are Body connector pinout and connection table.

Please note: in this connection AiM cable labelled CAN- is to be connected to ground as shown in the following table.

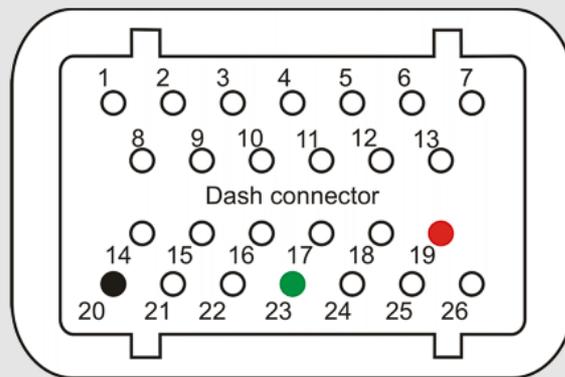


AiM cable	Body connector pin	Pin function
+Vb	17	+12 V
CAN+	20	CAN+
CAN-	Connect this cable to Ground	

2.2 Connection through the dashboard

To connect AiM devices to Ducati ECU through the dashboard use its 26 pins rear connector. Here below is its pinout and the connection table.

Please note: in this connection AiM cable labelled CAN- is to be connected to ground as shown in the table below.



Pin 19 = CAN+
Pin 20 = GND
Pin 23 = +12V

AiM cable	Dash connector pin	Pin function
+Vb	23	+12V
CAN+	19	CAN+
CAN-	20	GND

Please note:

- if you connect your AiM device to the bike through the dashboard rear connector, remove the 120 Ohm resistance that is mounted between CAN+ and CAN- in AiM device CAN cable;
- OEM dash removal implies losing air temperature sensor data.



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AiM device configuration

Once the ECU connected to the logger, this last one is to be configured as connected to that ECU.

Run Race Studio 2 software and follow this path:

Device Configuration -> Select the device you are using;
select the configuration or press "New" to create a new one;
select ECU manufacturer "Ducati" and ECU Model "1098/S";
transmit the configuration to the device pressing "Transmit".

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Available channels

Channels received by AiM devices connected to Ducati 1098 and 1198 are here below.

ID	CHANNEL NAME	FUNCTION
BATT	Battery	Battery Supply
ECU_1	DUCATI_RPM	RPM
ECU_2	DUCATI_SPEED	Vehicle speed
ECU_3	DUCATI_TPS	Throttle position sensor
ECU_4	DUCATI_ECT	Engine cooling temperature
ECU_5	DUCATI_AIRTEMP	Intake air temperature