

AIM Infotech

Suzuki GSX-R

Release 1.02

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ECU



## 1 Supported models and years

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This tutorial describes how to connect AiM devices (MXL excluded) to Suzuki bikes using the diagnosis connector. Supported bike models and years are:

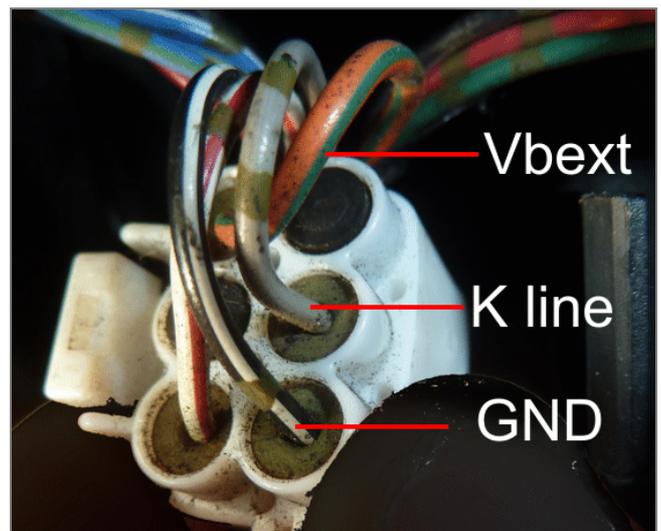
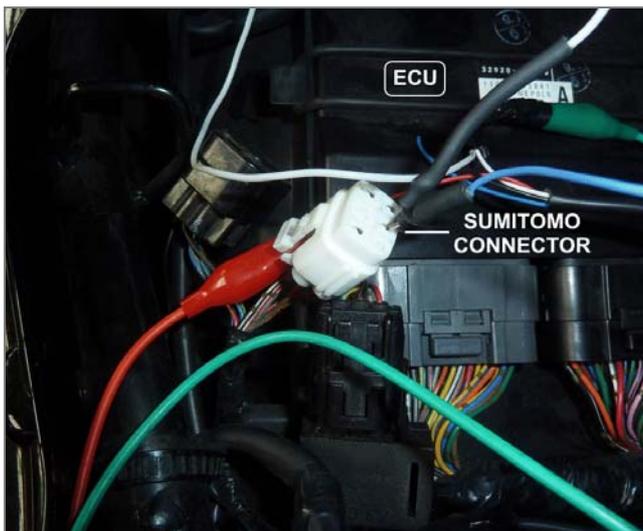
- |                      |           |
|----------------------|-----------|
| • GSX-R600           | 2006-2016 |
| • GSX-R750           | 2006-2016 |
| • GSX-R1000          | 2005-2016 |
| • GSX-R1300 Hayabusa | 2008-2016 |

## 2 Wiring connection

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These Suzuki GSX-R bikes communicate through the K-line only; this is why they are not compatible with AiM MXL that does not support this communication protocol.

K-line can be reached through a Sumitomo connector placed near the bike ECU under the seat. Here below are Sumitomo connector position on the left and its cables functions on the right.



## 3

# AIM device configuration

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Before connecting the ECU to the logger set this up using AiM Race Studio software. The parameters to select in the device configuration are:

- ECU manufacturer "Suzuki"
- ECU Model "SDS\_Protocol";

## 4

# Available channels

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Channels received by AiM devices connected to "Suzuki" "SDS\_Protocol" are:

<b>ID</b>	<b>CHANNEL NAME</b>	<b>FUNCTION</b>
ECU_1	SDS_RPM	RPM
ECU_2	SDS_TPS	Primary throttle position
ECU_3	SDS_GEAR	Engaged gear
ECU_4	SDS_BATT_VOLT	Battery Supply
ECU_5	SDS_CLT	Engine coolant temperature
ECU_6	SDS_IAT	Intake air temperature
ECU_7	SDS_MAP	Manifold air pressure
ECU_8	SDS_BAROM	Barometric pressure
ECU_9	SDS_BOOST	Boost pressure
ECU_10	SDS_AFR	Air/Fuel ratio
ECU_11	SDS_NEUT	Neutral signal
ECU_12	SDS_CLUT	Clutch switch
ECU_13	SDS_FUEL1_pw	Fuel injector 1
ECU_14	SDS_FUEL2_pw	Fuel injector 2
ECU_15	SDS_FUEL3_pw	Fuel injector 3



ECU_16	SDS_FUEL4_pw	Fuel injector 4
ECU_17	SDS_MS	Mode selector
ECU_18	SDS_XON_ON	XON switch
ECU_19	SDS_PAIR	Air supply system
ECU_20	SDS_IGN_ANG	Ignition angle
ECU_21	SDS_STP	Secondary throttle position

**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.