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AiM Infotech

# Kit EVO4S, SOLO2/SOLO 2 DL for Suzuki GSX-R 600/750/1000 (2001-2016)

Release 1.00

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KIT



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# 1

## Models and years

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This manual explains how to connect EVO4S and SOLO 2 DL to the bike engine control unit (ECU) and how to install AiM SOLO 2/SOLO 2 DL on the bike steering plate.

Compatible models and years are different for SOLO 2/SOLO 2 DL/EVO4S:

SOLO 2/SOLO 2 DL installation brackets are available for:

- GSX-R 600 2001-2019
- GSX-R 750 2001-2019
- GSX-R 1000 2001-2004 and 2009-2016

EVO4S/SOLO 2 DL connection cables are available for:

- GSX-R 600 2006-2019
- GSX-R 750 2006-2019
- GSX-R 1000 2005-2016
- GSX-R 1300 Hayabusa Gen.2 2008-2016

**Warning:** not all products combinations are possible; referring to the tabs up here, SOLO 2 DL installation brackets are not available for **Suzuki GSX-R 1000 from 2005 to 2008 included** and for **GSX-R 1300 Hayabusa Gen.2 from 2008 to 2016 included**.

## 2

### Kit content and part numbers

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AiM developed a specific installation bracket for SOLO 2/SOLO 2 DL and a connection cable to the ECU for EVO4S/SOLO 2 DL.

#### 2.1

#### Bracket for SOLO 2/SOLO 2 DL

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Part number for **SOLO 2/SOLO 2 DL** installation bracket for **Suzuki GSX-R**– shown below – is: **X46KSSGSXR**.

Installation kit contains:

- 1 bracket (1)
- 1 allen screw with rounded head  
M8x45mm (2)
- 2 allen screws with flat head M4x10mm (3)
- 1 toothed washer (4)
- 1 rubber dowel (5)



## 2.2 AiM cable for EVO4S/SOLO 2 DL

Part number for **EVO4S/SOLO 2 DL** connection cable for **Suzuki GSX-R**– shown below – is: **V02569140**.



Following image shows the cable constructive scheme.



Installation bracket and connection cable for SOLO 2 DL for Suzuki GSX-R can be bought together. Part number: **V0256914CS**.

### 3

## EVO4S/SOLO 2 DL connection

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To connect EVO4S/SOLO 2 DL to the bike ECU use the diagnostic connector (white) placed under the bike seat and shown here below.

Lift the bike seat, the ECU diagnostic connector presents a black rubber cap: remove it and connect the AiM cable to Suzuki connector.



## 4

# Configuring with Race Studio 3

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Before connecting EVO4S/SOLO 2 DL to the bike ECU, set all functions using the AiM software Race Studio 3. The parameters to set in the AiM device configuration section are ("ECU Stream" tab):

- ECU Manufacturer: "Suzuki"
- ECU Model: "SDS\_protocol"

## 5

# "Suzuki - SDS\_Protocol" protocol

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Received channels by EVO4S/SOLO 2 DL configured with "Suzuki – SDS\_Protocol" protocol are:

CHANNEL NAME	FUNCTION
SDS RPM	RPM
SDS TPS	Primary throttle position
SDS GEAR	Engaged gear
SDS BATT VOLT	Battery supply
SDS CLT	Engine coolant temperature
SDS IAT	Intake air temperature
SDS MAP	Manifold air pressure
SDS BAROM	Barometric pressure
SDS BOOST	Boost pressure
SDS AFR	Air/Fuel ratio
SDS NEUT	Neutral switch
SDS CLUT	Clutch switch
SDS FUEL1 pw	Fuel injector 1
SDS FUEL2 pw	Fuel injector 2
SDS FUEL3 pw	Fuel injector 3
SDS FUEL4 pw	Fuel injector 4
SDS MS	Mode selector
SDS XON ON	XON switch
SDS PAIR	PAIR ventilation system
SDS IGN ANG	Ignition angle
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.