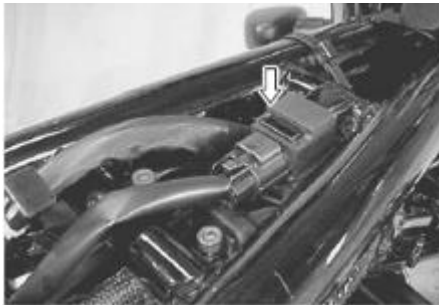


Map / Air Pressure Sensor (IAP SENSOR) Fault (C 13) and Replacement

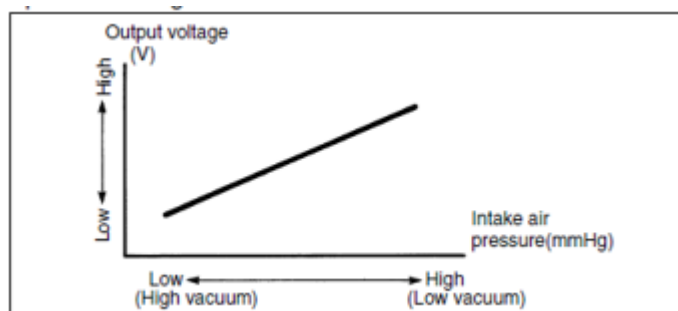
The intake air pressure sensor is located at the upper frame between the tubes and its vacuum hose is connected to the throttle body.



The sensor detects the intake air pressure, which is then converted into voltage signal and sent to the ECM. The basic fuel injection time (volume) is determined according to the voltage signal (output voltage) which increases when the intake air pressure is high.

Problems with the IAP Sensor are communicated by code C13 being displayed.

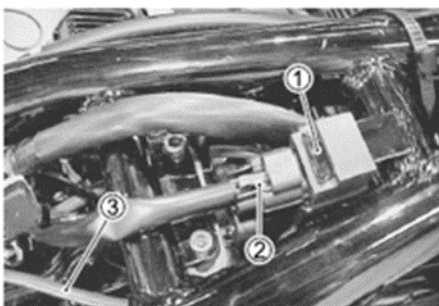
Whilst the IAP Sensor can be tested, should it be faulty, it cannot be repaired and a replacement part should be fitted.



MALFUNCTION CODE	DETECTED ITEM	DETECTED FAILURE CONDITION
		CHECK FOR
c13	Intake air pressure sensor	The sensor should produce following voltage. ($0.20\text{ V} \leq \text{sensor voltage} < 4.8\text{ V}$) Without the above range, c13 is indicated.
		Intake air pressure sensor, wiring/coupler connection.

IAP Sensor Inspection

The Intake Air Pressure (IAP) Sensor is located at the upper frame between the tubes.



To remove / install the IAP Sensor:

- Lift and support the fuel tank
- Remove the IAP Sensor (1)
- Disconnect the coupler (2)
- Disconnect the vacuum hose (3)
- Installation is the reverse order of removal

Should you have occasion to replace your IAP Sensor, then the following may be of assistance:

- The map sensor (which is mounted between the frame rails under the tank) and the air pressure sensor (mounted in the air box) are the same part number and also the same for all models from 02 to 08.
- The part number is 18591-42F00 which also fits 59 Suzuki other Suzuki models including the Boulevard, DL1000 (from 02 to 11), VL/VZ800 at around the same years and GSX1400 (all models 02-08).



- eBay is a good place to start to look for second-hand ones, typical delivered price from the USA or Germany to the UK being £35 or so.
- Another good place to search for a second-hand one is:
<https://www.google.com/search?xsrf=ALeKk02OA-WYX8Cu7zc7UK4AdJdZL4ByKA:1599727143337&source=univ&tbm=isch&q=part+number+suzuki+18591-42f00+fits+what+bikes&sa=X&ved=2ahUKEwjfyPaAmN7rAhUMyzgGHRDbA2MQ7Al6BAgKEB4&biw=1920&bih=937>