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## Electronic control unit (SDM)

The electronic control unit governs and activates the various airbag modules and is secured to the car's tunnel under the console (**Fig.1**).

The control unit is connected to:

- front airbags (driver side airbag module and passenger side airbag module)
- LH and RH side airbags
- LH and RH seatbelt pretensioners
- LH and RH side impact sensors

On the inside, the control unit has:

- an electromechanical sensor which discriminates the "activation/deactivation" conditions according to the vehicle's longitudinal deceleration;
- an electromagnetic safety sensor operating with the electromechanical sensor; both sensors must enable the "activation" condition for the system to be deployed;

The electronic control unit analyzes the signals coming from the internal and external sensors (side impact) and, based on appropriate strategies (which consider the impact's force and angle), normally activates:

- **In the case of frontal impact:** the driver side airbag module, the passenger side airbag module and the two seatbelt pretensioners.
- **In the case of side impact:** the side airbag and the seatbelt pretensioner on the side of the impact.

The control unit has a self-diagnostic feature that checks the entire system's operation when the ignition key is turned to "ON". During the test a red warning light on the dashboard turns on. The warning light turns off approximately four seconds after the engine is started if the system is working correctly.



Fig.1



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A.	Control unit
B.	Front airbag activation sensor (D and E)
C.	Safety sensor
D.	Passenger side airbag
E.	Driver side airbag
F.	Side impact sensor ( <i>not present on Superleggera model</i> )
G.	Side airbag
H.	Seatbelt pretensioner

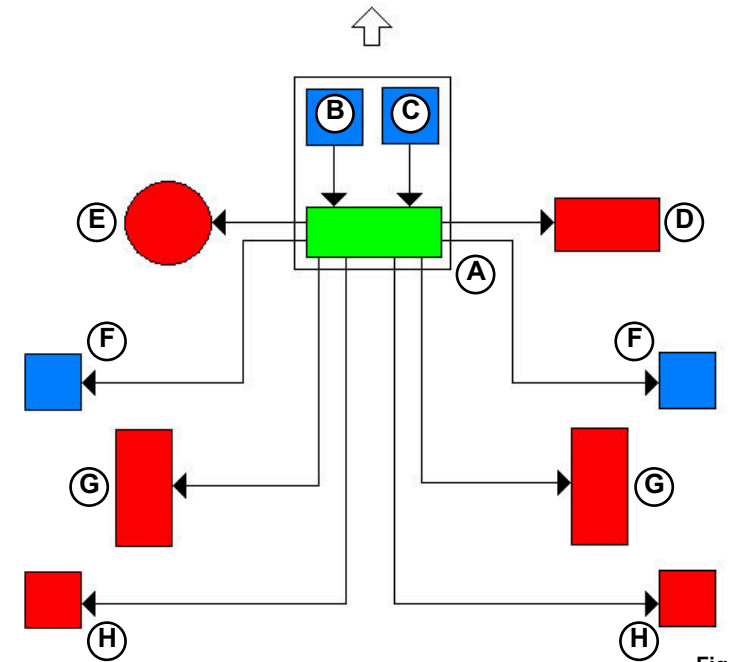


Fig.3