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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

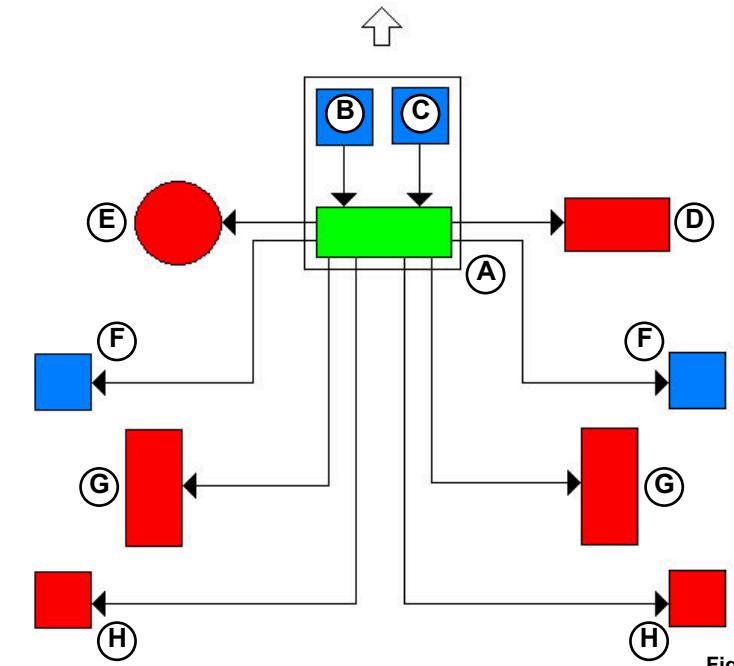


Fig.3

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