

ON-BOARD DIAGNOSTIC FUNCTION

Self-Malfunction Diagnostic Function

Malfunction detection function

- Detects overall malfunctions in the air bag system-related parts.

Fail-safe function







- If the SAS control module performance/function cannot be maintained due to any cause, the fail-safe function stops air bag system control and flashes the air bag system warning light to prevent the air bags from operating (deploying) accidentally.

Memory function














- Stores malfunctions in the air bag system-related parts detected by the malfunction detection function, and the stored malfunction contents are not cleared even if the ignition switch is turned to the LOCK position or the negative battery cable is disconnection.

Display function

- When the malfunction detection function detects a malfunction, the air bag system warning light illuminates to advise the driver. Using the external tester communication function, DTCs can be output to the DLC-2 via the K-line.

DTC				Malfunction location
WDS or equivalent	Air bag system warning light			
	Flashing pattern		Priority ranking	
B1013	16		19	Seat weight sensor calibration error
B1017	14		4	Deployment prohibited because configuration is not set
B1317	—	Air bag system warning light is illuminated all the time	—	The SAS control module power supply voltage increases (16.1 V or more)
B1318	—	Air bag system warning light is illuminated all the time	—	The SAS control module power supply voltage decreases (less than 9 V)
B1231	13		3	SAS control module activation (deployment) control freeze
B1342	12		2	SAS control module
	—	Air bag system warning light is illuminated all the time.	1	SAS control module (DTC 12 detection circuit malfunction)
B1869	—	Air bag system warning light is illuminated all the time.	1	Air bag system warning light system circuit open
	—	Air bag system warning light does not illuminate.	—	Air bag system warning light system circuit short to ground
B1870	—	Air bag system warning light is illuminated all the time.	1	Air bag system warning light system circuit short to power supply
B1877	33		13	Driver-side pre-tensioner seat belt system resistance high
B1878				Driver-side pre-tensioner seat belt system circuit short to power supply
B1879				Driver-side pre-tensioner seat belt system circuit short to ground
B1881	34		12	Passenger-side pre-tensioner seat belt system resistance high
B1882				Passenger-side pre-tensioner seat belt system circuit short to power supply
B1883				Passenger-side pre-tensioner seat belt system circuit short to ground

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DTC				Malfunction location
WDS or equivalent	Air bag system warning light			
	Flashing pattern		Priority ranking	
B1884	18		20	Passenger air bag deactivation (PAD) indicator circuit open or short to body ground
B1885	33		13	Driver-side pre-tensioner seat belt system resistance low
B1886	34		12	Passenger-side pre-tensioner seat belt system resistance low
B1890	18		20	Passenger air bag deactivation (PAD) indicator circuit short to power supply
B1913	19		11	Driver-side air bag module (inflator No.1) system circuit short to ground
	21		10	Passenger-side air bag module (inflator No.1) system circuit short to ground
B1916	19		11	Driver-side air bag module (inflator No.1) system circuit short to power supply
B1925	21		10	Passenger-side air bag module (inflator No.1) system circuit short to power supply
B1932	19		11	Driver-side air bag module (inflator No.1) system resistance high
B1933	21		10	Passenger-side air bag module (inflator No.1) system resistance high
B1934	19		11	Driver-side air bag module (inflator No.1) system resistance low
B1935	21		10	Passenger-side air bag module (inflator No.1) system resistance low
B1992	22		15	Driver-side side air bag module system circuit short to power supply
B1993				Driver-side side air bag module system circuit short to ground
B1994				Driver-side side air bag module system resistance high
B1995				Driver-side side air bag module system resistance low

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DTC				Malfunction location
WDS or equivalent	Air bag system warning light		Priority ranking	
	Flashing pattern			
B1996	23		14	Passenger-side side air bag module system circuit short to power supply
B1997				Passenger-side side air bag module system circuit short to ground
B1998				Passenger-side side air bag module system resistance high
B1999				Passenger-side side air bag module system resistance low
B2228	19		11	Driver-side air bag module (inflator No.2) system circuit short to ground
B2229	21		10	Passenger-side air bag module (inflator No.2) system circuit short to ground
B2230	19		11	Driver-side air bag module (inflator No.2) system circuit short to power supply
B2231	21		10	Passenger-side air bag module (inflator No.2) system circuit short to power supply
B2232	19		11	Driver-side air bag module (inflator No.2) system resistance high
B2233	21		10	Passenger-side air bag module (inflator No.2) system resistance high
B2234	19		11	Driver-side air bag module (inflator No.2) system resistance low
B2235	21		10	Passenger-side air bag module (inflator No.2) system resistance low
B2290	16		19	Seat weight sensor signal malfunction
B2296	42		9	Crash zone sensor system (communication error, sensor internal circuit abnormal)
B2444	43		8	Driver-side side air bag sensor system (sensor internal circuit abnormal)
B2445	44		7	Passenger-side side air bag sensor system (sensor internal circuit abnormal)
B2477	54		5	Configuration error