



DTC Summaries

Advanced Restraint System: XK8 2001 Model Year ON

⚠ WARNING: Measuring the resistance of airbag circuits may cause airbag deployment. Refer to JTIS for safe testing procedures. Observe all safety precautions when diagnosing or repairing airbag systems.

DTC RETREIVAL

DTCs are stored in the Restraints Control Module and are accessed through the DLC (Data Link Connector) using WDS.

Flash Codes

The Airbag Warning MIL flashes a coded sequence to alert the driver of certain critical ARS system faults and in some cases further defines the DTC.

If a DTC with an attached Flash Code is flagged, the Airbag Warning MIL flashes indicating the code. Each digit of the two digit code is represented by a series of flashes followed by a slight pause. A longer pause indicates the end of the code. Interpret the code by counting the MIL flashes and observing the pauses. The Flash code sequence repeats as long as the fault is present.

Example: DTC B2295 Side airbag status fault

Driver side fault – Flash code 22: flash flash (pause) flash flash (long pause) (repeats)

Passenger side fault: – Flash code 23: flash flash (pause) flash flash flash (long pause) (repeats)

Airbag MIL ON Continuously

If the Airbag MIL is ON continuously, the RCM is disconnected or inoperative.

REFERENCE

It is recommended that the applicable “Electrical Guide” be referenced when using the information contained in this document.

DTC	FAULT DESCRIPTION	MONITORING CONDITIONS	AIRBAG MIL	CM PIN	POSSIBLE CAUSES
B1231	Airbag deploy threshold exceeded	Ignition ON	YES Flash code 13	—	Significant vehicle impact has been detected by RCM
B1342	RCM Malfunction	Ignition ON	YES	FC8-12	B+ Voltage < 10 V Battery or charging system fault Ignition switched power supply fault RCM failure
B1869	Airbag Warning MIL malfunction NOTE: Audible warning sounds if an additional DTC is present.	Ignition ON	YES	FC8-15	MIL OFF – Airbag Warning MIL circuit: open circuit – Airbag Warning MIL lamp failure MIL ON – Airbag Warning MIL circuit: short circuit to ground
B1870	Airbag Warning MIL malfunction CUSTOMER SYMPTOM: Airbag warning lamp inoperative.	Ignition ON	YES	FC8-15	Airbag Warning MIL circuit: short circuit to B+ voltage
B1884	Passenger airbag deactivated (PAD) warning lamp circuit malfunction	Ignition ON	YES Flash code 18	FC8-19	PAD Lamp OFF: – Defective lamp – PAD Lamp activation circuit: open circuit PAD Lamp ON: – PAD Lamp activation circuit: short circuit to ground
B1890	Passenger airbag deactivated (PAD) warning lamp circuit malfunction	Ignition ON	YES Flash code 18	FC8-19	PAD Lamp activation circuit: short circuit to B+ voltage
B1891	Airbag audible warning activate circuit malfunction NOTE: Airbag audible warning will only operate if there is an existing fault between the RCM and the Airbag Warning MIL.	Ignition ON	YES	FC8-22	Airbag audible warning activate circuit: short circuit to B+ voltage NOTE: Disconnect the harness at the BPM and RCM to check the wiring.

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B1892	Airbag audible warning activate circuit malfunction NOTE: Airbag audible warning will only operate if there is an existing fault between the RCM and the Airbag Warning MIL.	Ignition ON	YES Flash code 53	FC8-22	Airbag audible warning activate circuit: short circuit to ground, high resistance, open circuit NOTE: Disconnect the harness at the BPM and RCM to check the wiring.
B1921	RCM airbag diagnostic monitor ground fault	Ignition ON	YES Flash code 14	—	RCM mounting bolts loose RCM not aligned with weld studs
B2290	Occupant classification system fault (Passenger)	Ignition ON	YES Flash code 16	FC9-17 FC9-18 FC10-24 FC10-25 FC10-11 FC10-12 SP21-E SP21-F	Battery voltage < 8 V, or has been for considerable time Occupancy sensing module to passenger seat weight sensing module wiring fault Passenger seat weight sensing module to passenger seat weight sensor wiring fault CAN (local) hardwire communications failure CAN (local) data failure Passenger seat weight sensor failure Passenger seat weight sensing module failure Occupancy sensing module failure
B2291	Occupant position system fault (Passenger)	Ignition ON	YES Flash code 17	FC9-17 FC9-18 FC10-24 FC10-25 FC10-11 FC10-12 SP21-E SP21-F	B+ voltage < 8 V or has been < 8 V for considerable time CAN (local) hardwire fault CAN (local) data failure Occupancy sensor(s) blocked (object blocking sensing signal) Occupancy sensor(s) disconnected Occupancy sensor(s) circuit(s) fault(s) Occupancy sensor(s) failure Occupancy sensing module failure

DTC	FAULT DESCRIPTION	MONITORING CONDITIONS	AIRBAG MIL	CM PIN	POSSIBLE CAUSES
B2292	Seat belt pretensioner status fault WARNING: Refer to JTIS before attempting measurement or repair procedures. Observe all safety requirements.	Ignition ON	YES Driver side fault: Flash code 33 Pass. side fault: Flash code 34	FC9-31 FC9-32 FC9-33 FC9-34	Driver seat belt pretensioner circuit: resistance out of tolerance, open circuit, short circuit to ground, short circuit to B+ voltage Passenger seat belt pretensioner circuit: resistance out of tolerance, open circuit, short circuit to ground, short circuit to B+ voltage
B2293	Front airbag status fault WARNING: Refer to JTIS before attempting measurement or repair procedures. Observe all safety requirements.	Ignition ON	YES Driver side fault: Flash code 19 Pass. side fault: Flash code 21	FC8-1 FC8-2 FC8-5 FC8-6 FC8-3 FC8-4 FC8-13 FC8-14	Driver airbag ignitor 1 circuit: resistance out of tolerance, open circuit, short circuit to ground, short circuit to B+ voltage Driver airbag ignitor 2 circuit: resistance out of tolerance, open circuit, short circuit to ground, short circuit to B+ voltage Passenger airbag ignitor 1 circuit: resistance out of tolerance, open circuit, short circuit to ground, short circuit to B+ voltage Passenger airbag ignitor 2 circuit: resistance out of tolerance, open circuit, short circuit to ground, short circuit to B+ voltage
B2295	Side airbag status fault WARNING: Refer to JTIS before attempting measurement or repair procedures. Observe all safety requirements.	Ignition ON	YES Driver side fault: Flash code 22 Pass. side fault: Flash code 23	FC9-1 FC9-2 FC9-21 FC9-22	Driver side airbag ignitor circuit: resistance out of tolerance, open circuit, short circuit to ground, short circuit to B+ voltage Passenger side airbag ignitor circuit: resistance out of tolerance, open circuit, short circuit to ground, short circuit to B+ voltage

DTC	FAULT DESCRIPTION	MONITORING CONDITIONS	AIRBAG MIL	CM PIN	POSSIBLE CAUSES
B2296	Crash sensors status	Ignition ON NOTE: Sensors must be powered up to monitor electrical characteristics	YES Front sensor fault: Flash code 42 Driver side sensor fault: Flash code 43 Pass. side sensor fault: Flash code 44	FC9-19 FC9-20 FC9-27 FC9-28 FC9-29 FC9-30	Front crash sensor circuit: open circuit, high resistance Front crash sensor failure Driver side impact sensor circuit: open circuit, high resistance Driver side impact sensor failure Passenger side impact sensor circuit: open circuit, high resistance Passenger side impact sensor failure
B2434	Driver seat belt switch circuit malfunction	Ignition ON	YES Flash code 51	FC9-25	Driver seat belt switch circuit: short circuit to ground NOTE: Disconnect the harness at both ends to test. Driver seat belt switch defective
B2435	Driver seat belt switch circuit malfunction	Ignition ON	YES Flash code 51	FC9-25	Driver seat belt switch circuit: open circuit, high resistance NOTE: Disconnect the harness at both ends to test. Driver seat belt switch ground circuit: open circuit, high resistance Driver seat belt switch defective
B2438	Passenger seat belt switch circuit malfunction	Ignition ON	YES Flash code 52	FC9-26	Passenger seat belt switch circuit: short circuit to ground NOTE: Disconnect the harness at both ends to test. Passenger seat belt switch failure
B2439	Passenger seat belt switch circuit malfunction	Ignition ON	YES Flash code 52	FC9-26	Passenger seat belt switch circuit: open circuit, high resistance NOTE: Disconnect the harness at both ends to test. Passenger seat belt switch ground circuit: open circuit, high resistance Passenger seat belt switch failure

DTC	FAULT DESCRIPTION	MONITORING CONDITIONS	AIRBAG MIL	CM PIN	POSSIBLE CAUSES
B2477	RCM Configuration failure	Ignition ON	YES Flash code 54	—	RCM not programmed or incorrectly programmed
B2691	Driver seat belt switch circuit malfunction	Ignition ON	YES Flash code 51	FC9-25	Driver seat belt switch circuit: open circuit, high resistance, short circuit to B+ voltage NOTE: Disconnect the harness at both ends to test. Driver seat belt switch failure
B2692	Passenger seat belt switch circuit malfunction	Ignition ON	YES Flash code 52	FC9-26	Passenger seat belt switch circuit: open circuit, high resistance, short circuit to B+ voltage NOTE: Disconnect the harness at both ends to test. Passenger seat belt switch failure
C1414	Incorrect RCM fitted	Ignition ON	YES Flash code 15	FC8-20 FC8-21	RCM module identification circuit: incorrectly connected, circuit fault – Convertible: FC8-20 = GND, FC8-21 = GND – Coupe: FC8-20 = B+ V, FC8-21 = O/C Incorrect RCM fitted
C1947	Driver seat track position switch circuit malfunction	Ignition ON	YES Flash code 49	FC9-23 FC9-24	Driver seat track switch circuit: open circuit, high resistance, short circuit to B+ voltage NOTE: Disconnect the harness at both ends to test. Driver seat track switch defective
C1948	Driver seat track position switch malfunction	Ignition ON	YES Flash code 49	FC9-23 FC9-24	Driver seat track switch circuit: open circuit, high resistance, short circuit NOTE: Disconnect the harness at both ends to test. Driver seat track switch defective
C1981	Driver seat track position switch circuit malfunction	Ignition ON	YES Flash code 49	FC9-23 FC9-24	Driver seat track switch circuit: open circuit, high resistance, short circuit to B+ voltage NOTE: Disconnect the harness at both ends to test. Driver seat track switch defective