Restraints

GENERAL

SUPPLEMENTAL RESTRAINTS SYSTEM CONTROL MODULE(SRSCM) SRS CONTROL MODULE

AIR BAG MODULE (DRIVE SIDE) AIR BAG MODULE AND CLOCK SPRING

AIR BAG MODULE (PASSENGER SIDE) AIR BAG MODULE

AIR BAG MODULE (SIDE AIR BAG)

AIR BAG MODULE (CURTAIN AIR BAG) AIR BAG MODULE

SEAT BELT PRETENSIONER SEAT BELT PRETENSIONER SEAT BELT BUCKLE PRETENSIONER

SRS CONTROL SYSTEM FRONT IMPACT SENSOR (FIS) SIDE IMPACT SENSOR (SIS)

TROUBLESHOOTING

AIR BAG MODULE DISPOSAL

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

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RESTRAINTS

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GENERAL

GENERAL EFAC12FD

The supplemental restraint system (SRS) is designed to supplement the seat belt to help reduce the risk or severity of injury to the driver and passenger by activating and deploying the driver, passenger, side airbag and belt pretensioner in certain frontal or side collisions.

The SRS (Airbag) consists of : a driver side airbag module located in the center of the steering wheel, which contains the folded cushion and an inflator unit ; a passenger side airbag module located in the passenger side crash pad contains the folded cushion assembled with inflator unit ; side airbag modules located in the front and rear seat contain the folded cushion and an inflator unit ; curtain airbag modules located inside of the headliner which contains folded cushions and inflator units. The impact sensing function of the SRSCM is carried out by electronic accelerometer that continuously measure the vehicle's acceleration and delivers a corresponding signal through amplifying and filtering circuitry to the microprocessor.

SRSCM (SRS CONTROL MODULE)

SRSCM will detect front impact with front impact sensor, and side impact with side impact sensor, and determine airbag module deployment.

- DC/DC converter: DC/DC converter in power supply unit includes up/down transformer converter, and provide ignition voltage for 2 front airbag ignition circuits and the internal operation voltage of the SRSCM. If the internal operation voltage is below critical value setting, it will perform resetting.
- 2. Safety sensor: Safety sensor is located in airbag ignition circuit. Safety sensor will operate airbag circuit at any deployment condition and release airbag circuit safely at normal driving condition. Safety sensor is a double contact electro-mechanical switch that will close detecting deceleration above certain criteria.
- 3. Back up power supply: SRSCM has separate back up power supply, that will supply deployment energy instantly in low voltage condition or upon power failure by front crash.
- Self diagnosis: SRSCM will constantly monitor current SRS operation status and detect system failure while vehicle power supply is on, system failure may be checked with trouble codes using scan tool. (Hi-Scan)

- Airbag warning lamp on: Upon detecting error, the module will transmit signal to SRSCM indicator lamp located at cluster. MIL lamp will indicate driver SRS error. Upon ignition key on, SRS lamp will turn on for about six seconds.
- 6. Trouble code registration: Upon error occurrence in system, SRSCM will store DTC corresponding to the error. DTC can be cleared only by Hi-Scan. However, if an internal fault code is logged or if a crash is recorded thefault clearing should not happen.
- Self diagnostic connector: Data stored in SRSCM memory will be output to Hi-Scan or other external output devices through connector located below driver side crash pad.
- 8. Once airbag is deployed, SRSCM should not be used again but replaced.
- SRSCM will determine whether passenger put on seat belt by the signal from built-in switch in seat belt buckle, and deploy front seat airbag at each set crash speed.
- 10. Side airbag deployment will be determined by SRSCM that will detect satellite sensor impact signal upon side crash, irrespective to seat belt condition.

GENERAL

SPECIFICATION E89D783B

Item		Resistance (Ω)
Driver Airbag (DAB)		1.925 ~ 3.074
Passenger Airbag (PAB)		1.878 ~ 2.442
Side Airbag (SAB)	Driver (Front, Rear)	1.804 ~ 2.568
	Passenger (Front, Rear)	1.812 ~ 2.576
Curtain Airbag (CAB)	Driver	1.940 ~ 2.704
	Passenger	1.948 ~ 2.712
Seat Belt Retractor Pretensioner (BPT)	Driver	1.943 ~ 2.806
	Passenger	1.950 ~ 2.814
Seat Belt Buckle Pretensioner (BUPT)	Driver	1.905 ~ 2.769
	Passenger	1.912 ~ 2.776

TIGHTENING TORQUES EB73AFF1

Item	kgf∙m	Nm	lb-ft
Driver Airbag (DAB)	0.8 ~ 1.1	7.9 ~ 10.8	5.8 ~ 8.0
Passenger Airbag (PAB)	Bolt : 1.2 ~ 1.8 Nut : 0.4 ~ 0.7	11.8 ~ 17.6 3.9 ~ 6.9	8.7 ~ 13.0 2.9 ~ 5.1
Curtain Airbag (CAB)	1.1 ~ 1.5	10.9 ~ 14.7	8.0 ~ 10.8
Side Airbag (SAB)	0.7 ~ 0.9	7.0 ~ 9.0	5.2 ~ 6.6
Seat Belt Anchor Bolt (BPT)	4.0 ~ 5.5	39.2 ~ 53.9	28.9 ~ 39.8
SRSCM Mounting Bolt	0.7 ~ 0.9	6.8 ~ 9.2	5.0 ~ 6.8
Front Impact Sensor (FIS) Mounting Bolt	0.9 ~ 1.2	8.5 ~ 11.5	6.3 ~ 8.5
Side Impact Sensor (SIS) Mounting Bolt	0.9 ~ 1.2	8.5 ~ 11.5	6.3 ~ 8.5

RESTRAINTS

SPECIAL SERVICE TOOLS E37A38C8

Tool(Number and Name)	Illustration	Use
Deployment tool 0957A-34100A		Airbag deployment tool
	ARIE500A	
Deployment adapter 0957A-3F100	C Bar	Use with deployment tool. (SAB)
	ERKD001F	
Deployment adapter 0957A-38500		Use with deployment tool. (DAB, PAB, CAB, BPT)
ميركاران خمديم دربايران	ARIE500C	0
Deployment adapter 0957A-2E210		Use with deployment tool. (BUPT)
	ARIE501B	
Dummy 0957A-38200		Simulator to check the resistance of each wiring harness
	ARIE500D	

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Tool(Number and Name)	Illustration	Use	
Dummy adapter 0957A-3F000	Contraction of the second seco	Use with dummy (PAB, SAB)	
	ERKD001G		
Dummy adapter 0957A-1C000		Use with dummy (DAB, CAB, BPT)	
	C C C C C C C C C C C C C C C C C C C		
	ARIE500F		
Dummy adapter 0957A-2E200	J.	Use with dummy. (BUPT)	
- خودرو			
سامانه (مسئولیت محدود)	شرکت دیجانگ خودرو ARIE501C		
DAB : Driver Airbag			

- PAB : Passenger Airbag
- SAB : Side Airbag
- CAB : Curtain Airbag
- BPT : Seat Belt Retractor Pretensioner
- BUPT : Seat Belt Buckle Pretensioner

RESTRAINTS

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PRECAUTIONS E915C2A3

GENERAL PRECAUTIONS

Please read the following precautions carefully before performing the airbag system service. Observe the instructions described in this manual, or the airbags could accidentally deploy and cause damage or injuries.

• Except when performing electrical inspections, always turn the ignition switch OFF and disconnect the negative cable from the battery, and wait at least three minutes before beginning work.

NOTE

The contents in the memory is not erased even if the ignition switch is turned OFF or the battery cables are disconnected from the battery.

- Use the replacement parts which are manufactured to the same standards as the original parts and quality. Do not install used SRS parts from another vehicle. Use only new parts when making SRS repairs.
- Carefully inspect any SRS part before you install it. Do not install any part that shows signs of being dropped or improperly handled, such as dents, cracks or deformation.

AIRBAG HANDLING AND STORAGE

Do not disassemble the airbags; it has no serviceable parts. Once an airbag has been deployed, it cannot be repaired or reused.

For temporary storage of the air bag during service, please observe the following precautions.

- Store the removed airbag with the pad surface up.
- Keep free from any oil, grease, detergent, or water to prevent damage to the airbag assembly.



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• Before removing any of the SRS parts (including the disconnection of the connectors), always disconnect the SRS connector.

- Store the removed airbag on secure, flat surface away from any high heat source (exceeding 85°C/185°F).
- Never perform electrical inspections to the airbags, such as measuring resistance.
- Do not position yourself in front of the airbag assembly during removal, inspection, or replacement.
- Refer to the scrapping procedures for disposal of the damaged airbag.
- Be careful not to bump or impact the SRS unit or the side impact sensors whenever the ignition switch is ON, wait at least three minutes after the ignition switch is turned OFF before begin work.
- During installation or replacement, be careful not to bump (by impact wrench, hammer, etc.) the area around the SRS unit and the side impact sensor. The airbags could accidentally deploy and cause damage or injury.
- After a collision in which the airbags were deployed, replace the front airbags and the SRS unit. After a collision in which the side airbag was deployed, replace the side airbag, the front impact sensor and side impact sensor on the side where the side airbag deployed and the SRS unit. After a collision in which the airbags or the side air bags did not deploy, inspect for any damage or any deformation on the SRS unit and

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the side impact sensors. If there is any damage, replace the SRS unit, the front impact sensor and/or the side impact sensors.

- Do not disassemble the SRS unit, the front impact sensor or the side impact sensors
- Turn the ignition switch OFF, disconnect the battery negative cable and wait at least three minutes before beginning installation or replacement of the SRS unit.
- Be sure the SRS unit, the front impact sensor and side impact sensors are installed securely with the mounting bolts.
- Do not spill water or oil on the SRS unit,or the front impact sensor or the side impact sensors and keep them away from dust.
- Store the SRS unit, the front impact sensor and the side impact sensors in a cool (less than 40°C/104°F) and dry (less than 80% relative humidity, no moisture) area.

WIRING PRECAUTIONS

SRS wiring can be identified by special yellow outer covering (except the SRS circuits under the front seats). Observe the instructions described in this section.

 Never attempt to modify, splice, or repair SRS wiring. If there is an open or damage in SRS wiring, replace the harness.



ERKD002X

 Make sure all SRS ground locations are clean, and grounds are securely fastened for optimum metal-tometal contact. Poor grounding can cause intermittent problems that are difficult to diagnose.

PRECAUTIONS FOR ELECTRICAL INSPECTIONS

When using electrical test equipment, insert the probe of the tester into the wire side of the connector.
Do not insert the probe of the tester into the terminal side of the connector, and do not tamper with the connector.



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- Use a u-shaped probe. Do not insert the probe forcibly.
- Use specificed service connectors for troubleshooting.

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 Be sure to install the harness wires so that they are not pinched, or interfere with other parts.

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RESTRAINTS

Using improper tools could cause an error in inspection due to poor metal contact.

SPRING-LOADED LOCK CONNECTOR

Some SRS system connectors have a spring-loaded lock.

AIRBAG CONNECTOR(I)

В

DISCONNECTING

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To release the lock, pull the spring-loaded sleeve (A) toward the stop (B) while holding the opposite half of the connector. Then pull the connector halves apart. Be sure to pull on the sleeve and not on the connector half.

CONNECTING

 To reconnect, hold the pawl-side connector half, and press on the back of the sleeve-side connector half in the direction shown. As the two connector halves are pressed together, the sleeve (A) is pushed back by the pawl (C). Do not touch the sleeve.



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2. When the connector halves are completely connected, the pawl is released, and the spring-loaded sleeve locks the connector.

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AIRBAG CONNECTOR(II)

DISCONNECTING

To release the lock, pull the spring-loaded sleeve (A) and the slider (B), while holding the opposite half of the connector. Pull the connector halves apart. Be sure to pull on the sleeve and not on the connector half.

WARNING LAMP ACTIVATION E2B5F9DA

WARNING LAMP BEHAVIOR AFTER IGNITION ON

As soon as the operating voltage is applied to the SRSCM ignition input, the SRSCM activates the warning lamp for a bulb check.

The lamp shall turn on for 6 seconds during the initialization phase and be turned off afterward. However, in order to indicate the driver, the warning lamp shall turn on for 6 seconds and off for one second then on continuously after the operating voltage is applied if any active fault exists.

1. Active fault or historical fault counter is greater or equal to 10



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2. Normal or historical fault counter is less than 10



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SRSCM INDEPENDENT WARNING LAMP ACTIVATION

There are certain fault conditions in which the SRSCM cannot function and thus cannot control the operation of the standard warning lamp. In these cases, the standard warning lamp is directly activated by appropriate circuitry that operates independently of the SRSCM. These cases are:

- 3. Loss of battery supply to the SRSCM : warning lamp turned on continuously.
- 4. Loss of internal operating voltage : warning lamp turned on continuously.
- 5. Loss of Microprocessor operation : warning lamp turned on continuously.
- 6. SRSCM not connected : warning lamp turned on continuously through the shorting bar.

CONNECTING

Hold both connector halves and press firmly until the projection (C) of the sleeve-side connector clicks to lock.



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RESTRAINTS

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PASSENGER AIRBAG DEACTIVATION (PAD) LAMP OPERATION

The SRSCM is designed with circuitry and software to drive a PAD lamp, which is used for depowered airbag system. For the PAD indicator circuitry to function properly, both the SRSCM and PAD indicator are sourced from the same ignition line. After ignition on, the PAD indicator will be turned on for 4 seconds and off for 3 seconds during the initialization phase. Thereafter the lamp will be turned on as long as the PAD switch is in the disabled position.



ERRF501U

PASSENGER RESTRAINTS ACTIVATION WITH PAD SWITCH

The PAD switch affects the activation of the front passenger airbag only and the switch is controlled manually. The PAD switch will be functioned as follows:

PAD Switch status	PAD Lamp	تال PAB رو ب
Phase-up	$ON \to OFF$	Default
Enabled position	ىمپرد¢Fbن خو	Enable
Disabled position	ON	Disable
Fault	OFF	Default

COMPONENT REPLACEMENT AFTER

DEPLOYMENT EAGE180C

NOTE

Before doing any SRS repairs, use the Hi-Scan Pro to check for DTCs. Refer to the Diagnostic Trouble Code list for repairing of the related DTCs.

When the front airbag(s) deployed after a collision, replace the following items.

- SRSCM
- Deployed airbag(s)
- Seat belt pretensioner(s)
- Front impact sensors
- SRS wiring harnesses
- Inspect the clock spring for heat damage.
 If any damage found, replace the clock spring.

When the seat belt pretensioner(s) deployed after a collision, replace the following items.

- Seat belt pretensioner(s)
- SRSCM (if B1658 detected)
- Front impact sensors
- SRS wiring harnesses

When the side/curtain airbag(s) deployed after a collision, replace the following items.

- SRSCM
- Deployed airbag(s)
 - Side impact sensor(s) for the deployed side(s)
 - SRS wiring harnesses

After the vehicle is completely repaired, confirm the SRS airbag system is OK.

- Turn the ignition switch ON, the SRS indicator should come on for about 6 seconds and then go off.

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GENERAL

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COMPONENTS E703CF82



- 1. Driver Airbag (DAB)
- 2. Steering Wheel
- 3. Clock Spring
- 4. Seat Belt Pretensioner (BPT)
- 5. Side Impact Sensor (SIS)
- 6. Side Airbag (SAB)

- 7. Passenger Airbag (PAB)
- 8. Front Impact Sensor (FIS)
- 9. Curtain Airbag (CAB)
- 10. Supplemental Restraint System Control Module(SRSCM)
- 11. Airbag Warning Lamp
- 12. Passenger Airbag Deactivation (PAD) Lamp
- 13. PAD Switch

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RESTRAINTS



- 2. Steering Wheel
- 3. Clock Spring
- 4. Seat Belt Pretensioner (BPT)
- 5. Side Impact Sensor (SIS)
- 6. Side Airbag (SAB)

- 8. Front Impact Sensor (FIS)
- 9. Curtain Airbag (CAB)
- 10. Supplemental Restraint System Control Module(SRSCM)
- 11. Airbag Warning Lamp
- 12. Passenger Airbag Deactivation (PAD) Lamp
- 13. PAD Switch

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GENERAL

COMPONENTS LOCATION

DRIVER AIRBAG (DAB) / PASSENGER AIRBAG (PAB)



RESTRAINTS

SIDE AIRBAG (SAB)



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SEAT BELT RETRACTOR PRETENSIONER (BPT)





RESTRAINTS

SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE (SRSCM)



Front Impact Sensor

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GENERAL

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SIDE IMPACT SENSOR (SIS)



RESTRAINTS

SUPPLEMENTAL RESTRAINTS SYSTEM CONTROL MODULE(SRSCM)

SRS CONTROL MODULE

DESCRIPTION ECCF71AB

The primary purpose of the SRSCM (Supplemental Restraints System Control Module) is to discriminate between an event that warrants restraint system deployment and an event that does not. The SRSCM must decide whether to deploy the restrain system or not. After determining that pretensioners and/or airbag deployment is required, the SRSCM must supply sufficient power to the pretensioners and airbag igniters to initiate deployment. The SRSCM determines that an impact may require deployment of the pretensioners and airbags from data obtained from impact sensors and other components in conjunction with a safing function. The SRSCM will not be ready to detect a crash or to activate the restraint system devices until the signals in the SRSCM circuitry stabilize. It is possible that the SRSCM could activate the safety restraint devices in approximately 2 seconds but is guaranteed to fully function after prove-out is completed. The SRSCM must perform a diagnostic routine and light a system readiness indicator at key-on. The system must perform a continuous diagnostic routine and provide fault annunciation through a warning lamp indicator in the event of fault detection. A serial diagnostic communication interface will be used to facilitate servicing of the restraint control system.

COMPONENTS EE414878



SUPPLEMENTAL RESTRAINTS SYSTEM CONTROL MODULE(SRSCM)

REMOVAL E977543F

- 1. Disconnect the battery negative cable and wait for at least three minutes before begining work.
- 2. Remove the ignition key from the vehicle.
- 3. Disconnect the DAB, PAB, SAB, CAB,BPT and BUPT connectors.
- 4. Remove the front seats, floor console and heater ducts. (Refer to BD group)
- 5. Disconnect the SRSCM harness connector(A) and (B) from the SRSCM.



INSTALLATION E507F553

- 1. Disconnect the battery negative cable and wait for at least three minutes before begining work.
- 2. Remove the ignition key from the vehicle.
- 3. Install the SRSCM with the SRSCM mounting bolts.
- Tightening torque (SRSCM Mounting Bolt) : 0.7 ~ 0.9 kgf.m (6.9 ~ 8.8 Nm, 5.1 ~ 6.5 lb.ft)
- 4. Connect the SRSCM harness connector.
- 5. Install the heater ducts, floor console and front seats. (Refer to BD group)
- 6. Connect the DAB, PAB, SAB, CAB,BPT and BUPT connectors.
- 7. Reconnect the battery negative cable.
- 8. After installing the SRSCM, confirm proper system operation:
 - Turn the ignition switch ON; the SRS indicator light should be turned on for about six seconds and then go off.

6. Remove the SRSCM mounting bolts(4EA) from the SRSCM, then remove the SRSCM.



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RESTRAINTS

AIR BAG MODULE (DRIVE SIDE)

AIR BAG MODULE AND CLOCK SPRING

DESCRIPTION E19698E7

Driver Airbag (DAB) is installed in steering wheel and electrically connected to SRSCM via clockspring. It protects the driver from danger by deploying a bag when

frontal crash occurs. The SRSCM determines deployment of Driver Airbag (DAB).

\Lambda CAUTION

Never attempt to measure the circuit resistance of the airbag module (squib) even if you are using the specified tester. If the circuit resistance is measured with a tester, accidental airbag deployment will result in serious personal injury.

COMPONENTS E0833290



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AIR BAG MODULE (DRIVE SIDE)

REMOVAL E0450A67

- 1. Disconnect the battery negative cable and wait for at least three minutes before beginning work.
- 2. Remove the airbag module mounting bolts(2EA).







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INSPECTION E043119F

DRIVER AIRBAG (DAB)

If any improper parts are found during the following inspection, replace the airbag module with a new one.

Never attempt to measure the circuit resistance of the airbag module (squib) even if you are using the specified tester. If the circuit resistance is measured with a tester, accidental airbag deployment will result in serious personal injury.

- 1. Check pad cover for dents, cracks or deformities.
- 2. Check the airbag module for denting, cracking or deformation.
- 3. Check hooks and connectors for damage, terminals for deformities, and harness for binds.
- 4. Check airbag inflator case for dents, cracks or deformities.



(Front View)

(Rear View)

ERBF102G

5. Install the airbag module to the steering wheel to check for fit or alignment with the wheel.

3. Disconnect the horn connector(A).



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KRBF102B

4. Release the connector locking pin, then disconnect the driver airbag module connector(B).

The removed airbag module should be stored in a clean, dry place with the pad cover face up.

- 5. Remove the steering wheel and steering wheel column cover(Refer to ST group).
- 6. Disconnect the clock spring and horn connector, then remove the clock spring.

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CLOCKSPRING

- 1. If, as a result of the following checks, even one abnormal point is discovered, replace the clock spring with a new one.
- 2. Check connectors and protective tube for damage, and terminals for deformities.



INSTALLATION EE7BDA1C

1. Disconnect the battery negative cable from battery and wait for at least three minutes before beginig work.



ARCD512A

2. Remove the ignition key from the vehicle.

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- 3. Connect the clock spring harness connetor and horn harness connector to the clock spring.
- 4. Set the clock spring on neutral position and after turning the front wheels to the straight-ahead position, install the clock spring.
- 5. Install the steering wheel column cover and the steering wheel. (Refer to ST group)
- Connect the Driver Airbag (DAB) module connector and horn connector, then install the Driver Airbag (DAB) module on the steering wheel.
- 7. Secure the Driver Airbag (DAB) with the new mounting bolts.

Tightening torque (DAB Mounting Bolt) : 0.8 ~ 1.1 kgf.m (7.9 ~ 10.8 Nm, 5.8 ~ 8.0 lb.ft)

- 8. Connect the battery negative cable.
- 9. After installing the airbag, confirm proper system operation:
 - Turn the ignition switch ON; the SRS indicator light should be turned on for about six seconds and then go off.
 - Make sure horn button works.

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RESTRAINTS

AIR BAG MODULE (PASSENGER SIDE)

AIR BAG MODULE (PASSENGER SIDE)

AIR BAG MODULE

DESCRIPTION E9593A37

The passenger Airbag (PAB) is installed inside the crash pad and protects the front passenger in the event of a frontal crash. The SRSCM determines if and when to deploy the PAB.

Never attempt to measure the circuit resistance of the airbag module (squib) even if you are using the specified tester. If the circuit resistance is measured with a tester, accidental airbag deployment will result in serious personal injury.

COMPONENTS EF548B7A



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RESTRAINTS

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REMOVAL E4EB22D1

- 1. Disconnect the battery negative cable and wait for at least three minutes before beginning work.
- 2. Remove the glove box. (Refer to BD group)
- 3. Disconnect the PAB connector and remove the PAB mounting bolt.



ERBF103B

- 4. Remove the crash pad. (Refer to BD group)
- 5. Remove the heater duct from the crash pad.
- 6. Remove the mounting nuts(7EA) from the crash pad. Then remove the passenger airbag.



ERBF103C

The removed airbag module should be stored in a clean and dry place with the cushion side up.

INSTALLATION E15B14BB

- 1. Disconnect the battery negative cable from battery and wait for at least three minutes before begining work.
- 2. Remove the ignition key from the vehicle.
- 3. Place a Passenger Airbag (PAB) on the crash pad and tighten the Passenger Airbag (PAB) mounting nuts.

Tightening torque : 0.4 ~ 0.7 kgf.m (3.9 ~ 6.9 N.m, 2.9 ~ 5.1 lb.ft)

- 4. Install the heater duct to the crash pad.
- 5. Install the crash pad. (Refer to BD group)
- 6. Tighten the PAB mounting bolt.

Tightening torque : 1.2 ~ 1.8 kgf.m (11.8 ~ 17.6 N.m, 8.7 ~ 13.0 lb.ft)

- 7. Connect the Passenger Airbag (PAB) harness connector to the SRS main harness connector.
- 8. Reinstall the glove box. (Refer to BD group)
- 9. Reconnect the battery negative cable.
- 10. After installing the Passenger Airbag (PAB), confirm proper system operation:
 - Turn the ignition switch ON; the SRS indicator light should be turned on for about six seconds and then go off.

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AIR BAG MODULE (SIDE AIR BAG)

AIR BAG MODULE (SIDE AIR BAG)

AIR BAG MODULE

DESCRIPTION EE101199

The Side Airbags (SAB) are installed inside the front and rear seat and protect the driver and front passenger from danger when side crash occurs. The SRSCM determines deployment of side airbag by using Side Impact Sensor (SIS) signal.

Never attempt to measure the circuit resistance of the airbag module (squib) even if you are using the specified tester. If the circuit resistance is measured with a tester, accidental airbag deployment will result in serious personal injury.

COMPONENTS E5587BEA



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RESTRAINTS

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REMOVAL EE264C47

FRONT SIDE AIRBAG

- 1. Disconnect the battery negative cable and wait for at least 3 minutes before beginning work.
- 2. Remove the front seat assembly.(Refer to BD group)
- 3. Remove the seat-back cover.(Refer to BD group)
- 4. Loosen the SAB mounting nuts and remove the SAB module.



4. Disconnect the rear side airbag assembly connector, then remove the rear side airbag assembly.



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- 5. Remove the rear side airbag assembly cover.
- 6. Loosen the rear side airbag module mounting nuts and remove the airbag module.



The removed airbag module should be stored in a clean and dry place with the cushion side up.

REAR SIDE AIRBAG

- 1. Disconnect the battery negative cable and wait for at least 3 minutes before begining work.
- 2. Remove the rear seat cushion. (Refer to BD group)
- 3. Loosen the rear side airbag assembly mounting bolt(1EA).



ERBF104C



ERBF104E

CAUTION

The removed airbag module should be stored in a clean and dry place with the cushion side up.

INSTALLATION ECA55D15

FRONT SIDE AIRBAG

Be sure to install the harness wires not to be pinched or interfered with other parts.

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- Do not open the lid of the side airbag cover.
- Use a new mounting nuts when you replace a side airbag.

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AIR BAG MODULE (SIDE AIR BAG)

- Make sure that the airbag assembly cover is installed properly. Improper installation may prevent the proper deployment.
- 1. Disconnect the battery negative cable and wait for at least three minutes.
- 2. Remove the ignition key from the vehicle.
- 3. Place a Side Airbag (SAB) on the side airbag frame and tighten the side airbag mounting nuts(2EA).

Tightening torque : 0.7 ~ 0.9 kgf.m (7.0 ~ 9.0 Nm, 5.2 ~ 6.6 lb.ft)

- Make sure that the airbag assembly cover is installed properly. Improper installation may prevent the proper deployment.
- 1. Disconnect the battery negative cable and wait for at least three minutes.
- 2. Remove the ignition key from the vehicle.

: 0.7 ~ 0.9 kgf.m (7.0 ~ 9.0 Nm, 5.2 ~ 6.6 lb.ft)

Tightening torque

3. Place a Side Airbag (SAB) on the side airbag frame and tighten the side airbag mounting nuts(2EA).



- 4. Install the new seat-back cover.(Refer to BD group)
- 5. Install the front seat assembly, then connect the Side Airbag (SAB) harness connector.
- 6. Recline and slide the front seat forward fully, make sure the harness wires are not pinched of interfering with other parts.
- 7. Reconnect the battery negative cable.
- 8. After installing the Side Airbag (SAB), confirm proper system operation:
 - Turn the ignition switch ON; the SRS indicator light should be turned on for about six seconds and then go off.

REAR SIDE AIRBAG

\land CAUTION

Be sure to install the harness wires not to be pinched or interfered with other parts.

🚺 ΝΟΤΕ

- Do not open the lid of the side airbag cover.
- Use a new mounting nuts when you replace a side airbag.

- 4. Install the new rear side airbag assembly cover.(Refer to BD group)
- 5. Connect the Side Airbag (SAB) harness connector, then install the rear side airbag assembly.

Tightening torque : 1.7 ~ 2.6 kgf.m (16.7 ~ 25.5 Nm, 12.3 ~ 18.8 lb.ft)

- 6. Reconnect the battery negative cable.
- 7. After installing the Side Airbag (SAB), confirm proper system operation:
 - Turn the ignition switch ON; the SRS indicator light should be turned on for about six seconds and then go off.

RESTRAINTS

RT -28

AIR BAG MODULE (CURTAIN AIR BAG)

AIR BAG MODULE

DESCRIPTION EF7FBAD3

Curtain airbags are installed inside the headliner (LH and RH) and protect the driver and passenger from danger when side crash occurs. The SRSCM determines deployment of curtain airbag by using side impact sensor (SIS) signal.

Never attempt to measure the circuit resistance of the airbag module even if you are using the specified tester. If the circuit resistance is measured with a tester, accidental airbag deployment will result in serious personal injury.

COMPONENTS E4B3122F



AIR BAG MODULE (CURTAIN AIR BAG)

REMOVAL E41D5D56

- 1. Disconnect the battery negative cable and wait for at of least 3 minutes before beginning work.
- 2. Remove the following parts. (Refer to BD group)
 - Rear seat cushion and side airbag assy
 - Side trim, Roof trim
- 3. Disconnect the Curtain Airbag harness connector.



4. After loosening the mounting bolts(6EA) and nuts(3EA) remove the curtain airbag.



KRBF105C

INSTALLATION E50B5670

- Be sure to install the harness wires not to be pinched or interfered with other parts.
- 1. Disconnect the battery negative cable and wait for at least three minutes.
- 2. Remove the ignition key from the vehicle.
- 3. Install a Curtain Airbag (CAB) on the mounting bracket.

Tightening torque (CAB Mounting Bolt) : 1.1 ~ 1.5 kgf.m(10.9 ~ 14.7 Nm, 8.0 ~ 10.8 lb.ft)

- Never twist the airbag module when installing it. If the module is twisted, airbag module may operate abnormally.
- 4. Install the inflator on the bracket.
 - سرحا
- 5. Connect the CAB connector.
- Install the follwing parts. (Refer to BD group)
 Side trim, Roof trim
 - Rear seat cushion and side airbag assy
- 7. Reconnect the battery negative cable.
- 8. After installing the Curtain Airbag (CAB), confirm proper system operation:
 - Turn the ignition switch ON; the SRS indicator light should be turned on for about six seconds and then go off.

RT -29

RESTRAINTS

SEAT BELT PRETENSIONER

SEAT BELT PRETENSIONER

DESCRIPTION E4167EBA

RT -30

The Seat Belt Pretensioners (BPT) are installed inside Center Pillar (LH & RH). When a vehicle crashes with a certain degree of frontal impact, the pretensioner seat belt helps to reduce the severity of injury to the front seat occupants by retracting the seat belt webbing. This prevents the front occupants from thrusting forward and hitting the

steering wheel or the instrument panel when the vehicle crashes.

Never attempt to measure the circuit resistance of the Seat Belt Pretensioner (BPT) even if you are using the specified tester. If the circuit resistance is measured with a tester, the pretensioner will be ignited accidentally. This will result in serious personal injury.

COMPONENTS E13C3CFE



SEAT BELT PRETENSIONER

REMOVAL E3B165BB

- 1. Disconnect the battery negative cable, and wait for at least three minutes before beginning work.
- 2. Remove the front seat assembly. (Refer to BD group)
- 3. Remove the center pillar trim. (Refer to BD group)
- 4. Remove the lower anchor bolt.
- 5. Remove the upper anchor bolt.
- 6. Disconnect the Seat Belt Pretensioner connector.

INSTALLATION E3B35607

- 1. Disconnect the battery negative cable and wait for at least three minutes.
- 2. Remove the ignition key from the vehicle.
- 3. Install the Seat Belt Pretensioner (BPT) with bolts.

Tightening torque : 4.0 ~ 5.5 kgf.m (39.2 ~ 53.9 Nm, 28.9 ~ 39.8 lb.ft)

4. Install the upper and lower anchor bolts.

Tightening torque (Seat Belt Anchor Bolt) : 4.0 ~ 5.5 kgf.m (39.2 ~ 53.9 Nm, 28.9 ~ 39.8 lb.ft)





ERBF108C

ERBE108B

KRBF106B

- 5. Install the center pillar trim.
- 6. Install the front seat assembly.
- 7. Reconnect the battery negative cable.
- 8. After installing the Seat Belt Pretensioner (BPT), confirm proper system operation:
 - Turn the ignition switch ON; the SRS indicator light should be turned on for about six seconds and then go off.

RESTRAINTS

RT -32

SEAT BELT BUCKLE PRETENSIONER

DESCRIPTION EC45DC04

The Seat Belt Buckle Pretensioners (BUPT) are installed in the right side of the driver seat and the left side of the passenger seat. When a vehicle crashes with a certain degree of frontal impact, the seat belt buckle pretensioner helps to reduce the severity of injury to the front seat occupants by retracting the seat belt buckle. This prevents the front occupants from thrusting forward and hitting the steering wheel or the instrument panel when the vehicle crashes.

Never attempt to measure the circuit resistance of the Seat Belt Buckle Pretensioner (BUPT) even if you are using the specified tester. If the circuit resistance is measured with a tester, the pretensioner will be ignited accidentally. This will result in serious personal injury.

COMPONENTS E4C5C10F



ERBF500L

SEAT BELT PRETENSIONER

REMOVAL E40A43C6

- Disconnect the battery negative cable, and wait for at 1. least three minutes before beginning work.
- 2. Remove the front seat assembly. (Refer to BD group)
- Loosen the Seat Belt Buckle Pretensioner mounting 3. bolt(A) and remove the Seat Belt Buckle Pretensioner.



Install the front seat assembly. 4.

- · Be sure to install the harness wires not to be pinched or inrerfered with other parts.
- 5. Reconnect the battery negative cable.
- 6. After installing the Seat Belt Buckle Pretensioner (BUPT), confirm proper system operation:
 - Turn the ignition switch ON; the SRS indicator light should be turned on for about six seconds and then go off.



RESTRAINTS

SRS CONTROL SYSTEM

FRONT IMPACT SENSOR (FIS)

DESCRIPTION EBEE040F

The front impact sensors (FIS) are installed in the side member. They are remote sensors that detect acceleration due to a collision at their mounting locations. The

primary purpose of the Front Impact Sensor (FIS) is to provide an indication of a collition. The Front Impact Sensor(FIS) sends acceleration data to the SRSCM.

COMPONENTS E603A5DC



SRS CONTROL SYSTEM

REMOVAL EDE19F4F

- CAUTION
 - Removal of the airbag must be performed according to the precautions/ procedures described previously.
 - Before disconnecting the front impact sensor connector, disconnect the front airbag connector(s).
 - Do not turn the ignition switch ON and do not connect the battery cable while replacing the front impact sensor.
- 1. Disconnect the battery negative cable, and wait for at least three minutes before beginning work.
- 2. Disconnect the Front Impact Sesnsor(RH) connector.
- 3. Remove the Front Impact Sensor(RH) mounting bolt.

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INSTALLATION E50C4826

- - Be sure to install the harness wire not to be pinched or interfere with other parts.
 - Do not turn the ignition switch ON and do not contact the battery cable while replacing the front impact sensor.
- 1. Install the new Front Impact Sensor with the bolt then connect the SRS harness connector to the Front Impact Sensor.

Tightening torque : 0.9 ~ 1.2 kgf.m (8.5 ~ 11.5 Nm, 6.3 ~ 8.5 lb.ft)

- 2. Install the intake air duct.(for LH FIS)
- 3. Reconnect the battery negative cable.
- 4. After installing the Front Impact Sensor, confirm proper system operation: Turn the ignition switch ON the SRS indicator light should be turned on for about six seconds and then go off.



ERBF107A

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Remove the intake air duct, then loosen the FIS mounting bolt to remove Front Impact Sensor.(LH)



ERBF107B

4. Remove the Front Impact Sensor.

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RESTRAINTS

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SIDE IMPACT SENSOR (SIS)

DESCRIPTION E49F823B

The Side Impact Sensor (SIS) system consists of two front SIS which are installed inside the center pillar (LH and RH) and two rear SIS which are installed in the rear pillar (LH

and RH). They are remote sensors that detect acceleration due to collision at their mounting locations. The primary purpose of the Side Impact Sensor (SIS) is to provide an indication of a collision. The Side Impact Sensor (SIS) sends acceleration data to the SRSCM.

COMPONENTS E86DACCB


SRS CONTROL SYSTEM

REMOVAL E34BD0EF

FRONT SIDE IMPACT SENSOR

CAUTION

- · Removal of the airbag must be performed according to the precautions/procedures described previously.
- · Before disconnecting the side impact sensor connector(s), disconnect the side airbag connector(s).
- Do not turn the ignition switch ON and do not connect the battery cable while replacing the side impact sensor.
- Disconnect the battery negative cable, and wait for at 1. least three minutes before beginning work.
- Remove the front seat assembly. (Refer to BD group) 2.
- 3. Remove the center pillar trim. (Refer to BD group)
- 4. Disconnect the seat belt pretensioner connector.

Loosen the Side Impact Sensor mounting nut. 6.



ERBF108D

Remove the Side Impact Sensor which is installed 7. inside the center pillar.



ERBF108B

5. Remove the seat belt pretensioner mounting bolts(2EA) then remove the Seat belt pretensioner.



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REAR SIDE IMPACT SENSOR

- 1. Disconnet the battery negative cable and wait for at least three minutes before begining work.
- 2. Remove the rear seat cushion. (Refer to BD group)
- 3. Loosen the side airbag assembly mounting bolt.



ERBF108E

6.

4. Disconnect the side airbag module connector, then remove the side airbag assembly.



- 5. Disconnect the side impact sensor connetor.
- 6. Loosen the side impact sensor mounting bolt and remove the side impact sensor.

INSTALLATION E88CF110

FRONT SIDE IMPACT SENSOR

- Be sure to install the harness wires not to be pinched or interfered with other parts.
- Do not turn the ignition switch ON and do not connect the battery cable while replacing the side impact sensor.
- Install the new Side Impact Sensor with the nut after connecting the SRS harness connector to the Side Impact Sensor.

Tightening torque : 0.9 ~ 1.2 kgf.m (8.5 ~ 11.5 Nm, 6.3 ~ 8.5 lb.ft)

2. Install the seat belt pretensioner with two mounting bolts.

Tightening torque : 4.0 ~ 5.5 kgf.m (39.2 ~ 53.9 Nm, 28.9 ~ 39.8 lb.ft)

- 3. Install the center pillar trim. (Refer to BD group)
- 4. Install the front seat assembly. (Refer to BD group)
- 5. Reconnect the battery negative cable.
 - After installing the Side Impact Sensor, confirm proper system operation: Turn the ignition switch ON, the SRS indicator light should be turned on for about six seconds and then go off.

ERBF108F

RESTRAINTS

SRS CONTROL SYSTEM

REAR SIDE IMPACT SENSOR

- CAUTION
 - Be sure to install the harness wires not to be pinched or interfered with other parts.
 - Do not turn the ignition switch ON and do not connect the battery cable while replacing the side impact sensor.
- 1. Install the new Side Impact Sensor with the bolt then connect the SRS harness connector to the Side Impact Sensor.

Tightening torque : 0.9 ~ 1.2 kgf.m (8.5 ~ 11.5 Nm, 6.3 ~ 8.5 lb.ft)

2. Install the side airbag assembly.

Tightening torque : 1.7 ~ 2.6 kgf.m (16.7 ~ 25.5 Nm, 12.3 ~ 18.81 lb.ft)

- 3. Install the rear seat cushion. (Refer to BD group)
- 4. Reconnect the battery negative cable.
- After installing the Side Impact Sensor, confirm proper system operation: Turn the ignition switch ON, the SRS indicator light should be turned on for about six seconds and then go off.

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TROUBLESHOOTING

DESCRIPTION E21DA86D

HI-SCAN CHECK

- 1. Turn the ignition switch off.
- 2. Connect the Hi-Scan Pro connector to the data link connector located under the crash pad.



3. Turn the ignition switch on and power on the Hi-Scan Pro.

- 4. Read DTCs.
- 5. Find and repair the trouble, and clear the DTCs using Hi-Scan Pro.
- 6. Disconnect the Hi-Scan Pro.

RESTRAINTS

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RESTRAINTS

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TERMINAL & CONNECTOR INSPECTION

Be sure to perform "TERMINAL & CONNECTOR IN-SPECTION" before doing "INSPECTION PROCEDURE" for troubleshooting of each DTC.

- 1. Visually inspect all connectors related to the affected circuit for damage and secure connection.
- 2. Inspect terminals for damage and corrosion.

\Lambda CAUTION

Avoid damaging connectors during the inspection process.

3. Are any problems found?

NO

► Go to next step (INSPECTION PROCEDURE).

YES

After repairing the trouble part, check whether DTC occurs or not.

PREPARATION OF INSPECTION

- 1. Turn the ignition switch to LOCK.
- 2. Disconnect the battery negative cable from the battery and wait for at least 3 minutes.
- 3. Remove the DAB module and disconnect the DAB connector.
- 4. Disconnect the connectors of the PAB, SAB, CAB, BPT, BUPT, FIS and SIS.
- 5. Disconnect the SRSCM connector.

CLEAR THE DTC AND CHECK THE VEHICLE AGAIN

- 1. Install the DAB module and connect the DAB connector.
- 2. Connect the connector of the PAB, SAB, CAB, BPT, BUPT, FIS and SIS.
- 3. Connect the SRSCM connector.
- 4. Connect the battery negative cable to the battery.
- 5. Connect a Hi-Scan(Pro) to the data link connector.
- 6. Turn the ignition switch to ON.
- 7. Clear the DTC stored in the SRSCM memory with the Hi-Scan(Pro)
- 8. Turn the ignition switch to LOCK and wait for at least 30 seconds.
- 9. Turn the ignition switch to ON and wait for at least 30 seconds.
- 10. Check the vehicle again with the Hi-Scan(Pro). Does the above DTC(s) go off?
 - YES
 - Problem is intermittent or was repaired and SRSCM memory was not cleared.

NO

▶ Replace the SRSCM with a new one and then check the vehicle again. At this time, if the vehicle normally operates with a new one, the fault may be the SRSCM. Replace the SRSCM.

CIRCUIT DIAGRAM EEA99F7E



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RESTRAINTS



TROUBLESHOOTING

SRSCM CONNECTOR TERMINAL E1553F87

5	4	3	2	1
11	10	9	8	7
17	16	15	14	13
23	22	21	20	19
	17	17 16	17 16 15	17 16 15 14

10	9	8	7	6	5	4	3	2	1
20	19	18	17	16	15	14	13	12	11
30	29	28	27	26	25	24	23	22	21
40	39	38	37	36	35	34	33	32	31

CONNECTOR A (M71)

CONNECTOR B (A01)

Shorting bar

Pin	Function (Connector A)	Pin	Function (Connector B)
1	Airbag Warning Lamp	1	Curtain Airbag [Driver] Low
2	Ground	2	Curtain Airbag [Driver] High
3	-	3	Side Airbag [Rear-Passenger] High
4	-	4	Side Airbag [Rear-Passenger] Low
5	Driver Airbag High	5	Side Airbag [Rear-Driver] Low
6	Driver Airbag Low	6	Side Airbag [Rear-Driver] High
7	-	7	Side Airbag [Front-Passenger] High
8	-	8	Side Airbag [Front-Passenger] Low
9	-	9	Seat Belt Pretensioner [Front-Passenger] Low
10		10	Seat Belt Pretensioner [Front-Passenger] High
11	Passenger Airbag High	11	Curtain Airbag [Passenger] Low
12	Passenger Airbag Low	12	Curtain Airbag [Passenger] High
13	Crash Output	13	Seat Belt Buckle Pretensioner [Front-Passenger] High
14	- 00	14	Seat Belt Buckle Pretensioner [Front-Passenger] Low
15	Front Impact Sensor [Driver] Low	15	Seat Belt Buckle Pretensioner [Front-Driver] Low
16	Front Impact Sensor [Driver] High	16	Seat Belt Buckle Pretensioner [Front-Driver] High
17	Front Impact Sensor [Passenger] High	17	Seat Belt Pretensioner [Front-Driver] High
18	Front Impact Sensor [Passenger] Low	18	Seat Belt Pretensioner [Front-Driver] Low
19	PAD Switch High	19	Side Airbag [Front-Driver] Low
20	-	20	Side Airbag [Front-Driver] High
21	PAD Switch Low	21	Side Impact Sensor [Rear-Driver] Low
22	K-Line Diagnostic	22	Side Impact Sensor [Rear-Driver] High
23	PAD Lamp	23	Side Impact Sensor [Rear-Passenger] High
24	Ignition	24	Side Impact Sensor [Rear-Passenger] Low
		25	-
		26	Side Impact Sensor [Driver] High
		27	Side Impact Sensor [Driver] Low
		28	Side Impact Sensor [Passenger] Low
		29	Side Impact Sensor [Passenger] High
		30	-
		31	-
		32	-
		33	-
		34	-
		35	-
		36	-
		37	-
		38	-
		39	-
		40	-

ERBF600M

RESTRAINTS

DIAGNOSTIC TROUBLE CODES (DTC)

DTC	FAULT DESCRIPTION	REMARK
B1101	Battery Voltage too High	RT - 49
B1102	Battery Voltage too Low	RT - 49
B1326	Front Impact Sensor [Driver] Short to Ground	RT - 52
B1327	Front Impact Sensor [Driver] Short to Battery	RT - 54
B1328	Front Impact Sensor [Driver] Defect	RT - 56
B1329	Front Impact Sensor [Driver] Communication Error	RT - 56
B1330	Front Impact Sensor [Driver] Wrong ID	RT - 59
B1331	Front Impact Sensor [Passenger] Short to Ground	RT - 52
B1332	Front Impact Sensor [Passenger] Short to Battery	RT - 54
B1333	Front Impact Sensor [Passenger] Defect	RT - 56
B1334	Front Impact Sensor [Passenger] Communication Error	RT - 56
B1335	Front Impact Sensor [Passenger] Wrong ID	RT - 59
B1346	Driver Airbag Resistance Too High	RT - 60
B1347	Driver Airbag Resistance Too Low	RT - 60
B1348	Driver Airbag Circuit Short to Ground	RT - 63
B1349	Driver Airbag Circuit Short to Battery	RT - 66
B1352	Passenger Airbag Resistance Too High	RT - 69
B1353	Passenger Airbag Resistance Too Low	RT - 69
B1354	Passenger Airbag Circuit Short to Ground	RT - 72
B1355	Passenger Airbag Circuit Short to Battery	RT - 74
B1361	Seat Belt Pretensioner [Front-Driver] Resistance Too High	RT - 76
B1362	Seat Belt Pretensioner [Front-Driver] Resistance Too Low	RT - 76
B1363	Seat Belt Pretensioner [Front-Driver] Circuit Short to Ground	RT - 79
B1364	Seat Belt Pretensioner [Front-Driver] Circuit Short to Battery	RT - 81
B1367	Seat Belt Pretensioner [Front-Passenger] Resistance Too High	RT - 76
B1368	Seat Belt Pretensioner [Front-Passenger] Resistance Too Low	RT - 76
B1369	Seat Belt Pretensioner [Front-Passenger] Circuit Short to Ground	RT - 79
B1370	Seat Belt Pretensioner [Front-Passenger] Circuit Short to Battery	RT - 81
B1378	Side Airbag [Front-Driver] Resistance Too High	RT - 84
B1379	Side Airbag [Front-Driver] Resistance Too Low	RT - 84
B1380	Side Airbag [Front-Driver] Circuit Short to Ground	RT - 87
B1381	Side Airbag [Front-Driver] Circuit Short to Battery	RT - 89
B1382	Side Airbag [Front-Passenger] Resistance Too High	RT - 84
B1383	Side Airbag [Front-Passenger] Resistance Too Low	RT - 84
B1384	Side Airbag [Front-Passenger] Circuit Short to Ground	RT - 87
B1385	Side Airbag [Front-Passenger] Circuit Short to Battery	RT - 89
B1395	Squib Interconnection Fault	RT - 91

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DTC	FAULT DESCRIPTION	REMARK
B1400	Side Impact Sensor [Front-Driver] Defect	RT - 92
B1401	Side Impact Sensor [Front-Driver] Short to Ground	RT - 95
B1402	Side Impact Sensor [Front-Driver] Short to Battery	RT - 97
B1403	Side Impact Sensor [Front-Passenger] Defect	RT - 92
B1404	Side Impact Sensor [Front-Passenger] Short to Ground	RT - 95
B1405	Side Impact Sensor [Front-Passenger] Short to Battery	RT - 97
B1409	Side Impact Sensor [Front-Driver] Communication Error	RT - 92
B1410	Side Impact Sensor [Front-Passenger] Communication Error	RT - 92
B1412	Side Impact Sensor [Rear-Driver] Communication Error	RT - 100
B1413	Side Impact Sensor [Rear-Passenger] Communication Error	RT - 100
B1414	Side Impact Sensor [Front-Driver] Wrong ID	RT - 103
B1415	Side Impact Sensor [Front-Passenger] Wrong ID	RT - 103
B1416	Side Impact Sensor [Rear-Driver] Wrong ID	RT - 103
B1417	Side Impact Sensor [Rear-Passenger] Wrong ID	RT - 103
B1418	Side Impact Sensor [Rear-Driver] Defect	RT - 100
B1419	Side Impact Sensor [Rear-Passenger] Defect	RT - 100
B1429	Side Airbag [Rear-Driver] Resistance Too High	RT - 104
B1430	Side Airbag [Rear-Driver] Resistance Too Low	RT - 104
B1431	Side Airbag [Rear-Driver] Circuit Short to Ground	RT - 107
B1432	Side Airbag [Rear-Driver] Circuit Short to Battery	RT - 109
B1433 9	Side Airbag [Rear-Passenger] Resistance Too High	RT - 104
B1434	Side Airbag [Rear-Passenger] Resistance Too Low	RT - 104
B1435	Side Airbag [Rear-Passenger] Circuit Short to Ground	RT - 107
B1436	Side Airbag [Rear-Passenger] Circuit Short to Battery	RT - 109
B1451	Side Impact Sensor [Rear-Driver] Short to Ground	RT - 111
B1452	Side Impact Sensor [Rear-Driver] Short to Battery	RT - 113
B1454	Side Impact Sensor [Rear-Passenger] Short to Ground	RT - 111
B1455	Side Impact Sensor [Rear-Passenger] Short to Battery	RT - 113
B1473	Curtain Airbag [Driver] Resistance Too High	RT - 116
B1474	Curtain Airbag [Driver] Resistance Too Low	RT - 116
B1475	Curtain Airbag [Driver] Circuit Short to Ground	RT - 120
B1476	Curtain Airbag [Driver] Circuit Short to Battery	RT - 122
B1477	Curtain Airbag [Passenger] Resistance Too High	RT - 116
B1478	Curtain Airbag [Passenger] Resistance Too Low	RT - 116
B1479	Curtain Airbag [Passenger] Circuit Short to Ground	RT - 120
B1480	Curtain Airbag [Passenger] Circuit Short to Battery	RT - 122
B1527	Passenger Airbag Deactivation Switch Open or Short to Battery	RT - 125
B1528	Passenger Airbag Deactivation Switch Short or Short to Ground	RT - 129
B1529	Passenger Airbag Deactivation Switch Defect	RT - 132

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RESTRAINTS

DTC	FAULT DESCRIPTION	REMARK
B1530	Passenger Airbag Deactivation Switch Instability	RT - 132
B1620	Supplemental Restraint System Control Module Internal Fault (Replace SRSCM)	RT - 136
B1650	Crash Recorded - Frontal (Replace SRSCM)	RT - 137
B1651	Crash Recorded - Driver Side (Replace SRSCM)	RT - 137
B1652	Crash Recorded - Passenger Side (Replace SRSCM)	RT - 137
B1657	Crash Recorded - Belt Pretensioner Only	RT - 137
B1658	Belt Pretensioner 6 times Deployment (Replace SRSCM)	RT - 137
B1701	Buckle Pretensioner [Driver] Resistance Too High	RT - 138
B1702	Buckle Pretensioner [Driver] Resistance Too Low	RT - 138
B1703	Buckle Pretensioner [Driver] Circuit Short to Ground	RT - 141
B1704	Buckle Pretensioner [Driver] Circuit Short to Battery	RT - 143
B1706	Buckle Pretensioner [Front-Passenger] Resistance Too High	RT - 138
B1707	Buckle Pretensioner [Front-Passenger] Resistance Too Low	RT - 138
B1708	Buckle Pretensioner [Front-Passenger] Circuit Short to Ground	RT - 141
B1709	Buckle Pretensioner [Front-Passenger] Circuit Short to Battery	RT - 143
B2500	Warning Lamp Fault	RT - 146
B2505	Passenger Airbag Deactivation Lamp Fault	RT - 150

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

اولین سامانه دیجیتال تعمیرکاران خودرو در ایران

DTC B1101 BATTERY VOLTAGE TOO HIGH DTC B1102 BATTERY VOLTAGE TOO LOW

DTC DESCRIPTION E4E28840

The SRSCM sets above DTC(s) if it detects that the battery voltage of restraints system is too high or too low. When the voltage returns to normal, the SRS warning light automatically goes off and a malfunction is no longer indicated.

DTC DETECTING CONDITION E725F7D5

DTC	Condition	Probable cause
B1101	Battery Voltage > 16.5 V for 4 seconds after IG ON	BatteryAlternator
B1102	Battery Voltage < 9.0 V for 4 seconds after IG ON	Wiring HarnessSRSCM

SCHEMATIC DIAGRAM E16BCD55



SPECIFICATION E76738DA

Voltage : 9.0 ~ 16.5 V

TERMINAL & CONNECTOR INSPECTION EDA5878D

Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

INSPECTION PROCEDURE E6C2A87D

1. PREPARATION

Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

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RESTRAINTS

2. CHECK SOURCE VOLTAGE

- 1) Turn the ignition switch to ON.
- 2) Measure voltage between the terminal 24(A) of SRSCM harness connector and chassis ground.

Specification (voltage) : 9.0 ~ 16.5 V



ERBF501Q

3) Is the measured voltage within specification?



▶ Replace the SRSCM with a new one, and then check the vehicle again. At this time, if the vehicle normally operates with a new SRSCM, the fault may be the SRSCM(Replace SRSCM).

- 3. CHECK THE BATTERY
 - Check the battery.
 Refer to "EE" group in t
 - Refer to "EE" group in this SERVICE MANUAL. Is the battery normal?



Check the generator.



- Repair or replace the battery.(Refer to "EE" group in this SERVICE MANUAL)
- 4. CHECK GENERATOR
 - Check the generator.
 Refer to "EE" group in this SERVICE MANUAL. Is the generator normal?

YES

Check wiring harness.

NO

- ▶ Repair or replace the generator.(Refer to "EE" group in this SERVICE MANUAL)
- 5. CHECK WIRING HARNESS
 - 1) Check the wiring harness between the battery and SRSCM. Is the wiring harness normal?

YES

▶ Check the DTC again.



- Repair or Replace the wiring harness.
- 6. CHECK THE DTC AGAIN
 - 1) Turn the ignition switch to LOCK and wait for at least 30 seconds.

\Lambda CAUTION

Check again that the battery negative cable is disconnected from the battery.

- 2) Install the DAB module and connect the DAB connector.
- 3) Connect the connectors of the PAB, SAB, CAB, BPT, BUPT, FIS and SIS.
- 4) Connect the SRSCM connector.
- 5) Connect the battery negative cable to the battery.
 - 6) Connect a Hi-Scan(Pro) to the data link connector.
 - 7) Turn the ignition switch to ON and check the vehicle again. Does Hi-Scan (Pro) indicate any DTC?

YES

> Perform the troubleshooting procedures associated with those codes.

NO

▶ Problem is intermittent or was repaired and SRSCM memory was not cleared.

RESTRAINTS

DTC B1326 FRONT IMPACT SENSOR [DRIVER] SHORT TO GROUND DTC B1331 FRONT IMPACT SENSOR [PASSENGER] SHORT TO GROUND

DTC DESCRIPTION E5EE0DD3

The detecting system for front crash consists of the SRSCM and two Front Impact Sensors (FIS). The SRSCM sets above DTC(s) if it detects short to ground on the FIS circuit.

DTC DETECTING CONDITION EDODA1A6

DTC	Condition	Probable cause
B1326 B1331	 Short to ground between FIS and SRSCM Front Impact Sensor(FIS) Malfunction SRSCM Malfunction 	 Short to ground on Wiring Harness Front Impact Sensor(FIS) SRSCM

SCHEMATIC DIAGRAM EE068E9D



TERMINAL & CONNECTOR INSPECTION EB9AB00B

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

INSPECTION PROCEDURE EBA9DD37

- PREPARATION Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)
- 2. CHECK FIS CIRCUIT
 - 1) Measure resistance between the terminal 1 of FIS harness connector and chassis ground.

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$\begin{array}{c|c} & FIS \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\$

2) Is the measured resistance within specification?

YES

- Check Front Impact Sensor.
- NO
- Repair or replace the wiring harness between the FIS and the SRSCM.

3. CHECK FRONT IMPACT SENSOR

- Replace the front impact sensor(FIS) with a new one.
 Refer to "Front Impact Sensor(FIS)" section in this SERVICE MANUAL.
- 2) Install the DAB module and connect the DAB connector.
- 3) Connect the connectors of the PAB, SAB, CAB, BPT, BUPT, FIS and SIS.
- 4) Connect the SRSCM connector.
- 5) Connect the battery negative cable to the battery.
- 6) Connect a Hi-Scan(Pro) to the data link connector.
- 7) Turn the ignition switch to ON and check the vehicle again. Does Hi-Scan (Pro) indicate any DTC related to FIS?



Go to next step.



- Replace the Front Impact Sensor(FIS).
- CLEAR THE DTC AND CHECK THE DTC AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

ERBF500R

RESTRAINTS

DTC B1327 FRONT IMPACT SENSOR [DRIVER] SHORT TO BATTERY DTC B1332 FRONT IMPACT SENSOR [PASSENGER] SHORT TO BATTERY

DTC DESCRIPTION ECF62D8B

The detecting system for front crash consists of the SRSCM and two Front Impact Sensors (FIS). The SRSCM sets above DTC(s) if it detects short to battery on the FIS circuit.

DTC DETECTING CONDITION EBBDEFA3

DTC	Condition	Probable cause
B1327 B1332	 Short to battery line between FIS and SRSCM Front Impact Sensor(FIS) Malfunction SRSCM Malfunction 	 Short to battery line on Wiring Harness Front Impact Sensor(FIS) SRSCM

SCHEMATIC DIAGRAM EC734759



TERMINAL & CONNECTOR INSPECTION E283653D

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

INSPECTION PROCEDURE E29FB001

- PREPARATION Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)
- 2. CHECK FIS CIRCUIT

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- 1) Connect the battery negative cable to the battery.
- 2) Turn the ignition switch to ON.
- 3) Measure voltage between the terminal 1 of FIS harness connector and chassis ground.

specification(voltage) : Approximately 0 V



- 4) Is the measured voltage within specification?
- YES ► Check Front Impact Sensor.

Repair the short to battery line circuit on wiring harness between the FIS and the SRSCM.

3. CHECK FRONT IMPACT SENSOR

- Replace the front impact sensor(FIS) with a new one.
 Refer to "Front Impact Sensor(FIS)" section in this SERVICE MANUAL.
- 2) Install the DAB module and connect the DAB connector.
- 3) Connect the connectors of the PAB, SAB, CAB, BPT, BUPT, FIS and SIS.
- 4) Connect the SRSCM connector.
- 5) Connect the battery negative cable to the battery.
- 6) Connect a Hi-Scan(Pro) to the data link connector.
- 7) Turn the ignition switch to ON and check the vehicle again. Does Hi-Scan (Pro) indicate any DTC related to FIS?



► Go to next step.



- ▶ Replace the Front Impact Sensor(FIS).
- 4. CLEAR THE DTC AND CHECK THE DTC AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

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RESTRAINTS

DTC B1328	FRONT IMPACT SENSOR [DRIVER] DEFECT
DTC B1329	FRONT IMPACT SENSOR [DRIVER] COMMUNICATION ERROR
DTC B1333	FRONT IMPACT SENSOR [PASSENGER] DEFECT
DTC B1334	FRONT IMPACT SENSOR [PASSENGER] COMMUNICATION
	ERROR

DTC DESCRIPTION E3EC260A

The detecting system for front crash consists of the SRSCM and two Front Impact Sensors (FIS). The SRSCM sets above DTC(s) if it detects that any FIS is defective or there is communication error between any FIS and the SRSCM.

DTC DETECTING CONDITION EOBDC22F

DTC	Condition	Probable cause
B1328 B1329 B1333 B1334	 Open between FIS and SRSCM Front Impact Sensor(FIS) Malfunction SRSCM Malfunction 	Wiring HarnessFront Impact Sensor(FIS)SRSCM

SCHEMATIC DIAGRAM E2AA4609

dDd	JU		FIS [Drive	er]		C	Ľ			2
(1 High 16(A)		Terminal	Co	nnecte	ed to		Fur	nctior	
(Sisseries [Driver] a	2 Low 15(A)	ديجيال ح	1	SRSCM	Termi	nal 1	6(A)	FIS	S Hig	۱
			2	SRSCM	Termi	nal 1	5(A)	FIS	S Low	'
	يتال تعميره	SRSCM	FIS [Pass	enger]	(0				
	1 High 17(A)		Terminal	Coi	nnecte	ed to		Fur	nctior	n
FIS [Passenger]	2 Low 18(A)		1	SRSCM	Termi	nal 1	7(A)	FIS	6 Higł	١
	-		2	SRSCM	Termi	nal 1	8(A)	FIS	S Low	
[HARNESS CONNECTOR]										
	6 5 4	3 2 1	10 9	8 7	6	5	4	3	2	1
21 21		9 8 7 14 13 24 20 40	20 19 30 29	18 17 28 27	16 26	15 25	14 24	13 23	12 22	11 21
FIS[Driver] FIS[Passenger]	24 23 22	21 20 19	40 39 SRSCM	<u>38 37</u> C	36 ONNE	35 CTOR	34 B	33	32 ⊐ Short	31
										ERBF500

TERMINAL & CONNECTOR INSPECTION ECAC7931

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

INSPECTION PROCEDURE EB342E09

1. PREPARATION

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

- 2. CHECK FIS CIRCUIT
 - 1) Measure resistance between the terminal 1 of FIS harness connector and the terminal 16(17) of SRSCM harness connector (A).
 - 2) Measure resistance between the terminal 2 of FIS harness connector and the terminal 15(18) of SRSCM harness connector (A).

Specification (resistance) : below 1 Ω



- 3. CHECK FRONT IMPACT SENSOR
 - Replace the front impact sensor(FIS) with a new one.
 Refer to "Front Impact Sensor(FIS)" section in this SERVICE MANUAL.
 - 2) Install the DAB module and connect the DAB connector.
 - 3) Connect the connectors of the PAB, SAB, CAB, BPT, BUPT, FIS and SIS.
 - 4) Connect the SRSCM connector.
 - 5) Connect the battery negative cable to the battery.
 - 6) Connect a Hi-Scan(Pro) to the data link connector.
 - 7) Turn the ignition switch to ON and check the vehicle again. Does Hi-Scan (Pro) indicate any DTC related to FIS?



▶ Go to next step.

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RESTRAINTS

NO

- ▶ Replace the Front Impact Sensor(FIS).
- 4. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)



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DTC B1330 FRONT IMPACT SENSOR [DRIVER] WRONG ID DTC B1335 FRONT IMPACT SENSOR [PASSENGER] WRONG ID

DTC DESCRIPTION ECF43815

The detecting system for front crash consists of the SRSCM and two Front Impact Sensors (FIS). The SRSCM sets above DTC(s) if it detects wrong FIS is used.

DTC DETECTING CONDITION EF87DBCC

DTC	Condition	Probable cause
B1330 B1335	Wrong Front Impact Sensor(FIS)SRSCM Malfunction	Front Impact Sensor(FIS)SRSCM

SCHEMATIC DIAGRAM E14A21C4



TERMINAL & CONNECTOR INSPECTION E16FA0B2

Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

INSPECTION PROCEDURE E171444B

If above DTC is detected replace the Front Impact Sensor.

RESTRAINTS

DTC B1346 DRIVER AIRBAG RESISTANCE TOO HIGH DTC B1347 DRIVER AIRBAG RESISTANCE TOO LOW

DTC DESCRIPTION EFB92994

The Driver Airbag circuit consists of the SRSCM, Clockspring and the Driver Airbag (DAB). The SRSCM sets above DTC(s) if it detects that the resistance of DAB squib is too high or low.

DTC DETECTING CONDITION E7B42F6E

DTC	Condition	Probable cause
B1346	 Too high or low resistance between DAB	 Open or short circuit on
B1347	high(+) and DAB low (-) Driver Airbag (DAB) Malfunction Clockspring Malfunction SRSCM Malfunction	wiring harness Driver Airbag (DAB) squib Clockspring SRSCM

SCHEMATIC DIAGRAM E43B7579



SPECIFICATION E28BE0B8

DAB resistance : 1.925 ~ 3.074 Ω

TERMINAL & CONNECTOR INSPECTION E66FD84C

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

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INSPECTION PROCEDURE EBC88CD3

- 1. PREPARATION Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)
- 2. CHECK DAB RESISTANCE

DAB resistance : 1.925 ~ 3.074 Ω

Never attempt to measure the circuit resistance of the airbag module(squib) even if you are using the specified tester.

- Connect the Dummy and the Dummy Adapter on DAB harness connector.
 ●Refer to "SPECIAL SERVICE TOOL" section in this SERVICE MANUAL for the SST No. of Dummy and Dummy Adapter.
- 2) Measure resistance between the terminal 5 and 6 of SRSCM harness connector(A).

Dummy Dummy Adapter 6(A) 5(A) 6(A) 5(A) SRSCM

ERBF500T

3) Is the measured resistance within specification?

NO

Check open circuit.



- Replace the Driver Airbag(DAB) module.
- 3. CHECK OPEN CIRCUIT
 - 1) Measure resistance between the terminal 2 of DAB harness connector and the terminal 5 of SRSCM harness connector(A).
 - 2) Measure resistance between the terminal 1 of DAB harness connector and the terminal 6 of SRSCM harness connector(A).

Specification (resistance) : below 1 Ω

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RESTRAINTS



ERBF501X

3) Is the measured resistance within specification?



Check short circuit.



▶ Repair or replace the wiring harness between the DAB and the clockspring or between the clockspring and the SRSCM.

4. CHECK SHORT CIRCUIT

1) Measure resistance between the terminal 1 and 2 of DAB harness connector.





ERBF501Y

2) Is the measured resistance within specification?



▶ Go to next step.



▶ Repair or replace the wiring harness between the DAB and the clockspring or between the clockspring and the SRSCM.

 CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

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DTC B1348 DRIVER AIRBAG RESISTANCE CIRCUIT SHORT TO GROUND

DTC DESCRIPTION E8857516

The Driver Airbag circuit consists of the SRSCM, Clockspring and the Driver Airbag (DAB). The SRSCM sets above DTC(s) if it detects short to ground on the DAB circuit.

DTC DETECTING CONDITION EDEAA31B

DTC	Condition	Probable cause
B1348	 Short to ground between DAB and clockspring Short to ground between clockspring and SRSCM Driver Airbag (DAB) Malfunction Clockspring Malfunction SRSCM Malfunction 	 Short to ground circuit on wiring harness Driver Airbag (DAB) squib Clockspring SRSCM

SCHEMATIC DIAGRAM E7452174

1	Low	6(A)			Termi	inal	С	onnec	ted to		Fu	nctior	1
DAB			SRSCM		1		SRS	СМ Т	ermina	al 6(A)	DA	B Lov	w
2	High سامانه (میر	J(A)			2		SRS	СМТ	ermina	al 5(A)	DA	AB Hig	gh
ck درو در ایران HARNESS CONNE	ockspring) and a	يجيتال ت	امانه د										
	• • 4	3 2	1	10	9	8	7	6	5	4	3	2	1
$\left \begin{array}{c} 2 \end{array} \right \left \right $	12 11 10 18 17 16	9 8 15 14	7	20 30	19 29	18 28	17 27	16 26	15 25	14 24	13 23	12 22	11 21
	24 23 22	21 20	19	40	39	38	37	36	25 35	34	33	32	31
DAB	CONN	ECTOR A						CON	NECTO	RB		⊐Shortir	ng Bar
			ç	SRSC	M								
													ERBF2

TERMINAL & CONNECTOR INSPECTION EF24FC93

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

INSPECTION PROCEDURE E8231ED6

- 1. PREPARATION Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)
- 2. CHECK SHORT TO GROUND
 - 1) Measure resistance between the terminal 2 of DAB harness connector and chassis ground.

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RESTRAINTS

Specification (resistance) : infinite



ERBF501B

2) Is the measured resistance within specification?

YES

Check the DAB Module.



▶ Repair or replace the wiring harness between the DAB and the clockspring or between the clockspring and the SRSCM.

3. CHECK THE DAB MODULE

- Replace the Driver Airbag(DAB) with a new one.
 Refer to "Driver Airbag(DAB)" section in this SERVICE MANUAL.
- 2) Install the DAB module and connect the DAB connector.
- 3) Connect the connectors of the PAB, SAB, CAB, BPT, BUPT, FIS and SIS.
- 4) Connect the SRSCM connector.
- 5) Connect the battery negative cable to the battery.
- 6) Connect a Hi-Scan(Pro) to the data link connector.
- 7) Turn the ignition switch to ON and check the vehicle again. Does Hi-Scan (Pro) indicate any DTC related to DAB?



Check the clockspring.

NO

- ▶ Replace the Driver Airbag(DAB).
- 4. CHECK THE CLOCKSPRING
 - Check the clockspring. Is the clockspring normal?

YES

▶ Go to next step.



- ► Replace the clockspring.
- 5. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)



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RESTRAINTS

DTC B1349 DRIVER AIRBAG RESISTANCE CIRCUIT SHORT TO BATTERY

DTC DESCRIPTION EBEDC615

The Driver Airbag circuit consists of the SRSCM, Clockspring and the Driver Airbag (DAB). The SRSCM sets above DTC(s) if it detects short to battery line on the DAB circuit.

DTC DETECTING CONDITION EC4BA437

DTC	Condition	Probable cause
B1349	 Short to battery line between DAB and clockspring Short to battery line between clockspring and SRSCM Driver Airbag (DAB) Malfunction Clockspring Malfunction SRSCM Malfunction 	 Short to battery line on wiring harness Driver Airbag (DAB) squib Clockspring SRSCM

SCHEMATIC DIAGRAM E7DD8859

			-								0		
1	Low	6(A)			Termi	inal	C	onnec	ted to	ч.	Fu	Inctior	
DAB	2		SRSCM		1		SRS	CM Te	ermina	al 6(A)	DA	AB Lov	N
(3)320 - 29	High High	5(A)	511501	ا ديج	2	m	SRS	СМ Те	ermina	al 5(A)	DA	AB Hig	jh
	Bector]	عيال تد	نه د ي	س اما									
		3 2	1	10	9	8	7	6	5	4	3	2	1
	12 11 10	9 8	7	20	19	18	17	16	15	14	13	12	
(2)(1)									25	04			11
	18 17 16	15 14	13	30	29	28	27	26	-	24	23	22	21
	18 17 16 24 23 22	15 14 21 20	13 19	30 40	29 39	28 38	27 37	26 36	25 35	24 34	23 33	22 32	
	24 23 22				-	-		36	-	34	33		21 31

TERMINAL & CONNECTOR INSPECTION E6607887

Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

INSPECTION PROCEDURE ECBB0522

1. PREPARATION

Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

2. CHECK SHORT TO BATTERY LINE

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TROUBLESHOOTING

- 1) Connect the battery negative cable to the battery.
- 2) Turn the ignition switch to ON.
- 3) Measure voltage between the terminal 2 of DAB harness connector and chassis ground.

Specification (voltage) : Approximately 0 V



- 3. CHECK THE DAB MODULE
 - Replace the Driver Airbag(DAB) with a new one.
 Refer to "Driver Airbag(DAB)" section in this SERVICE MANUAL.
 - 2) Install the DAB module and connect the DAB connector.
 - 3) Connect the connectors of the PAB, SAB, CAB, BPT, BUPT, FIS and SIS.
 - 4) Connect the SRSCM connector.
 - 5) Connect the battery negative cable to the battery.
 - 6) Connect a Hi-Scan(Pro) to the data link connector.
 - 7) Turn the ignition switch to ON and check the vehicle again. Does Hi-Scan (Pro) indicate any DTC related to DAB?

YES

Check the clockspring.

NO

Replace the Driver Airbag(DAB).

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- 4. CHECK THE CLOCKSPRING
 - 1) Check the clockspring. Is the clockspring normal?



▶ Go to next step.



- ▶ Replace the clockspring.
- CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)



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RESTRAINTS

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DTC B1352 PASSENGER AIRBAG RESISTANCE TOO HIGH DTC B1353 PASSENGER AIRBAG RESISTANCE TOO LOW

DTC DESCRIPTION EFA671A4

The Passenger Airbag circuit consists of the SRSCM and the Passenger Airbag (PAB). The SRSCM sets above DTC(s) if it detects that the resistance of PAB squib is too high or low.

DTC DETECTING CONDITION E71070B2

DTC	Condition	Probable cause
B1352	 Too high or low resistance between PAB	 Open or short circuit on
B1353	high(+) and PAB low (-) Passenger Airbag (PAB) Malfunction SRSCM Malfunction	wiring harness Passenger Airbag (PAB) squib SRSCM

SCHEMATIC DIAGRAM E00881BB



SPECIFICATION E69C3EA8

PAB resistance : 1.878 ~ 2.442 Ω

TERMINAL & CONNECTOR INSPECTION EIDCF032

Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

INSPECTION PROCEDURE E8418581

1. PREPARATION Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

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RESTRAINTS

2. CHECK PAB RESISTANCE

\Lambda CAUTION

Never attempt to measure the circuit resistance of the airbag module(squib) even if you are using the specified tester.

- Connect the Dummy and the Dummy Adapter on PAB harness connector.
 Refer to "SPECIAL SERVICE TOOL" section in this SERVICE MANUAL for the SST No. of Dummy and Dummy Adapter.
- 2) Measure resistance between the terminal 11 and 12 of SRSCM harness connector(A).

PAB resistance : 1.878 ~ 2.442 Ω



- 3. CHECK OPEN CIRCUIT
 - 1) Measure resistance between the terminal 1 of PAB harness connector and the terminal 11 of SRSCM harness connector(A).
 - 2) Measure resistance between the terminal 2 of PAB harness connector and the terminal 12 of SRSCM harness connector(A).

Specification (resistance) : below 1 Ω

TROUBLESHOOTING



3) Is the measured resistance within specification?

YES



NO

▶ Repair or replace the wiring harness between the PAB and the SRSCM.

4. CHECK SHORT CIRCUIT

1) Measure resistance between the terminal 1 and 2 of PAB harness connector.

Specification (resistance) : infinite

2) Is the measured resistance within specification?



Go to next step.



- ▶ Repair or replace the wiring harness between the PAB and the SRSCM.
- 5. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

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ERBF200F

RESTRAINTS

DTC B1354 PASSENGER AIRBAG CIRCUIT SHORT TO GROUND

DTC DESCRIPTION E8568D94

The Passenger Airbag circuit consists of the SRSCM and the Passenger Airbag (PAB). The SRSCM sets above DTC(s) if it detects short to ground on the PAB circuit.

DTC DETECTING CONDITION EB6C385A

DTC	Condition	Probable cause
B1354	 Short to ground between PAB module and SRSCM Passenger Airbag (PAB) Malfunction SRSCM Malfunction 	 Short to ground on wiring harness Passenger Airbag (PAB) squib SRSCM

SCHEMATIC DIAGRAM E6A95081



ERBF200C

TERMINAL & CONNECTOR INSPECTION EOC1965C

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

INSPECTION PROCEDURE E8AB760A

- 1. PREPARATION Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)
- 2. CHECK SHORT TO GROUND
 - 1) Measure resistance between the terminal 1 of PAB harness connector and chassis ground.

Specification (resistance) : infinite

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TROUBLESHOOTING



2) Is the measured resistance within specification?

YES

Check the PAB Module.

NO

▶ Repair or replace the wiring harness between the PAB and the SRSCM.

3. CHECK THE PAB MODULE

- Replace the Passenger Airbag (PAB) with a new one.
 Refer to "Passenger Airbag (PAB)" section in this SERVICE MANUAL.
- 2) Install the DAB module and connect the DAB connector.
- 3) Connect the connectors of the PAB, SAB, CAB, BPT, BUPT, FIS and SIS.
- 4) Connect the SRSCM connector.
- 5) Connect the battery negative cable to the battery.
- 6) Connect a Hi-Scan(Pro) to the data link connector.
- 7) Turn the ignition switch to ON and check the vehicle again. Does Hi-Scan (Pro) indicate any DTC related to PAB?







- ▶ Replace PAB module.
- 4. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

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RESTRAINTS

DTC B1355 PASSENGER AIRBAG CIRCUIT SHORT TO BATTERY

DTC DESCRIPTION E9F54B5F

The Passenger Airbag circuit consists of the SRSCM and the Passenger Airbag (PAB). The SRSCM sets above DTC(s) if it detects short to battery line on the PAB circuit.

DTC DETECTING CONDITION E9D89E39

DTC	Condition	Probable cause
B1355	 Short to battery line between PAB and SRSCM Passenger Airbag (PAB) Malfunction SRSCM Malfunction 	 Short to battery line circuit on wiring harness Passenger Airbag (PAB) squib SRSCM

SCHEMATIC DIAGRAM E2FEC588



TERMINAL & CONNECTOR INSPECTION EC5A213D

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

INSPECTION PROCEDURE EBF2C8C7

- 1. PREPARATION Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)
- 2. CHECK SHORT TO BATTERY LINE
 - 1) Connect the battery negative cable to the battery.
 - 2) Turn the ignition switch to ON.
 - 3) Measure voltage between the terminal 1 of PAB harness connector and chassis ground.

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TROUBLESHOOTING

Specification (voltage) : Approximately 0 V



ERBF500P

4) Is the measured voltage within specification?

YES

Check the PAB Module.

NO

Repair the short to battery line circuit on wiring harness between the PAB and the SRSCM.

3. CHECK THE PAB MODULE

- Replace the Passenger Airbag(PAB) with a new one.
 Refer to "Passenger Airbag(PAB)" section in this SERVICE MANUAL.
 - 2) Install the DAB module and connect the DAB connector.
 - 3) Connect the connectors of the PAB, SAB, CAB, BPT, BUPT, FIS and SIS.
 - 4) Connect the SRSCM connector.
 - 5) Connect the battery negative cable to the battery.
 - 6) Connect a Hi-Scan(Pro) to the data link connector.
 - 7) Turn the ignition switch to ON and check the vehicle again. Does Hi-Scan (Pro) indicate any DTC related to PAB?



Go to next step.



- ▶ Replace PAB module.
- CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

RT -76		RESTRAINTS
DTC B1361	SEAT BELT PRETENSIONER [FRONT-DRIVER]	
DTC B1362	RESISTANCE TOO HIGH SEAT BELT PRETENSIONER [FRONT-DRIVER]	
DTC B1367	RESISTANCE TOO LOW SEAT BELT PRETENSIONER [FRONT-PASSENGER]	
	RESISTANCE TOO HIGH	
DTC B1368	SEAT BELT PRETENSIONER [FRONT-PASSENGER] RESISTANCE TOO LOW	

DTC DESCRIPTION E5E4C460

The Seat Belt Pretensioner circuit consists of the SRSCM and two Seat Belt Pretensioners (BPT). The SRSCM sets above DTC(s) if it detects that the resistance of BPT squib is too high or low.

DTC DETECTING CONDITION EB0714DE

DTC	Condition	Probable cause
B1361 B1362 B1367 B1368	 Too high or low resistance between BPT high(+) and BPT low (-) Seat Belt Pretensioner (BPT) Malfunction SRSCM Malfunction 	 Open or short circuit on wiring harness Seat Belt Pretensioner (BPT) squib SRSCM

SCHEMATIC DIAGRAM ED9CDDE7



SPECIFICATION E609C78B

BPT resistance : 1.943 ~ 2.806 Ω (Driver), 1.950 ~ 2.814 Ω (Passenger)

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RT -77

TERMINAL & CONNECTOR INSPECTION E26841C2

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

INSPECTION PROCEDURE E0EB316D

- 1. PREPARATION Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)
- 2. CHECK BPT RESISTANCE

Never attempt to measure the circuit resistance of the airbag module(squib) even if you are using the specified tester.

- Connect the Dummy and the Dummy Adapter on BPT harness connector.
 Refer to "SPECIAL SERVICE TOOL" section in this SERVICE MANUAL for the SST No. of Dummy and Dummy Adapter.
- 2) Measure resistance between the terminal 17(10) and 18(9) of SRSCM harness connector(B).

BPT resistance : 1.943 ~ 2.806 Ω (Driver), 1.950 ~ 2.814 Ω (Passenger)



ERBF500X

3) Is the measured resistance within specification?

YES

Replace the Seat Belt Pretensioner(BPT) module.

NO

► Check open circuit.

- 3. CHECK OPEN CIRCUIT
 - 1) Measure resistance between the terminal 2 of BPT harness connector and the terminal 17(10) of SRSCM harness connector(B).
 - 2) Measure resistance between the terminal 1 of BPT harness connector and the terminal 18(9) of SRSCM harness connector(B).

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RT -78

RESTRAINTS

Specification (resistance) : below 1 Ω



ERBF501R

3) Is the measured resistance within specification?



Check short circuit.

NO

- Repair or replace the wiring harness between the BPT and the SRSCM.
- 4. CHECK SHORT CIRCUIT
 - 1) Measure resistance between the terminal 1 and 2 of BPT harness connector.

Specification (resistance) : infinite



ERBF501M

2) Is the measured resistance within specification?



▶ Go to next step.



- ▶ Repair or replace the wiring harness between the BPT and the SRSCM.
- 5. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

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RT -79

DTC B1363 SEAT BELT PRETENSIONER [FRONT-DRIVER] CIRCUIT SHORT TO GROUND DTC B1369 SEAT BELT PRETENSIONER [FRONT-PASSENGER] CIRCUIT SHORT TO GROUND

DTC DESCRIPTION E424B2CF

The Seat Belt Pretensioner consists of the SRSCM and two Seat Belt Pretensioners (BPT). The SRSCM sets above DTC(s) if it detects short to ground on the BPT circuit.

DTC DETECTING CONDITION E7DB074E

DTC	Condition	Probable cause
B1363 B1369	 Short to ground between BPT and SRSCM Seat Belt Pretensioner (BPT) Malfunction SRSCM Malfunction 	 Short to ground circuit on wiring harness Seat Belt Pretensioner (BPT) squib SRSCM

SCHEMATIC DIAGRAM EOBOCBOA

ר הכום		i.	-		-	BPT	Г [Driv	er]		0	C			
	1 Low	18(B)				Ter	minal	C	onnect	ed to		Fu	nctior	
BPT [Driver]	2 High	17(B)	. 11 7 .			5.	1	SRSC	M Terr	ninal '	18(B)	BP	T Lov	v
(09	<u> </u>	Jug		• ••			2	SRSC	M Terr	ninal '	17(B)	BP	T Hig	h
کابان خمد، مدیر ایران		117.00	SRS	SCM		BPT	[Pas	senger						
<u>سوں خوفارو فر ایک</u>	1 Low	- (0)				Ter	<mark>mi</mark> nal	С	onnect	ed to		Fu	nctior	1
BPT [Passenger]	2 High	10(B)	•				1	SRSC	M Terr	ninal	9(B)	BP	BPT Low	
	_						2	SRSC	M Terr	ninal '	10(B)	BP	T Hig	h
	6 5	4	3 2	1				8 7	6	5	4	3	2	1
	12 11	-	9 8	7		20	19		16	15	14	13	12	11
	18 17 24 23		15 14 21 20	13 19		30 40	29 39	28 2 38 3		25 35	24 34	23 33	22 32	21 31
		CONNECTOR A						I	CONNE	CTOR B			Shorting	g Bar
BPT[Driver] BPT[Passenger]					SR	SCM								

ERBF500Q

TERMINAL & CONNECTOR INSPECTION EGIC7A42

Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

INSPECTION PROCEDURE ED1E80E8

1. PREPARATION

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

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RT -80

RESTRAINTS

ERBF501N

2. CHECK SHORT TO GROUND

1) Measure resistance between the terminal 2 of BPT harness connector and chassis ground.

Specification (resistance) : infinite



2) Is the measured resistance within specification?



Repair or replace the wiring harness between the BPT and the SRSCM.

3. CHECK THE BPT MODULE

- Replace the Belt Pretensioner (BPT) with a new one.
 Refer to "Belt Pretensioner (BPT)" section in this SERVICE MANUAL.
- 2) Install the DAB module and connect the DAB connector.
- 3) Connect the connectors of the PAB, SAB, CAB, BPT, BUPT, FIS and SIS.
- 4) Connect the SRSCM connector.
- 5) Connect the battery negative cable to the battery.
- 6) Connect a Hi-Scan(Pro) to the data link connector.
- Turn the ignition switch to ON and check the vehicle again. Does Hi-Scan (Pro) indicate any DTC related to Belt Pretensioner (BPT)?



► Go to next step.



- ▶ Replace BPT module.
- 4. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

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<u>R</u>T -81

DTC B1364 SEAT BELT PRETENSIONER [FRONT-DRIVER] CIRCUIT SHORT TO BATTERY DTC B1370 SEAT BELT PRETENSIONER [FRONT-PASSENGER] CIRCUIT SHORT TO BATTERY

DTC DESCRIPTION E6196895

The Seat Belt Pretensioner consists of the SRSCM and two Seat Belt Pretensioners (BPT). The SRSCM sets above DTC(s) if it detects short to battery line on the BPT circuit.

DTC DETECTING CONDITION E31AE084

DTC	Condition	Probable cause
B1364 B1370	 Short to battery line between BPT and SRSCM Seat Belt Pretensioner (BPT) Malfunction SRSCM Malfunction 	 Short to battery line circuit on wiring harness Seat Belt Pretensioner (BPT) squib SRSCM

SCHEMATIC DIAGRAM EA9BC3BC

		_		_								
				BPT	[Drive	er]		0				
	1 Low 18	B(B)		Tern	ninal	Con	necte	d to		Fur	nction	
BPT [Driver]	2 High 17	(B)		- < 1	1 SRSCM Terminal 18(B)				8(B)	BP	/	
(39- <u></u>	<u></u>	يدان		2	2	SRSCM	Termi	inal 1	7(B)	BP	T Hig	h
کابان خود بود ایرا ب		SRS	СМ	BPT	[Pass	enger]	_					
<u>ڪاران جو درو در اير ان</u>	1 Low 9	(B)		Tern	ninal	Con	necte	d to		Fu	nctior	
BPT [Passenger]	2 High 10	(B)		1		SRSCM	Term	inal 9	(B)	BP	BPT Low	
				2	2	SRSCM	Term	inal 1	0(B)	BP	T Hig	h
		L		_								
[HARNESS CONNECTOR]												
	[1
	6 5 4 12 11 10	3 2 9 8	1	20	19	8 7	6 16	5 15	4 14	3 13	2 12	1
	18 17 16		13	30 40		28 27 38 37	26 36	25 35	24	23	22	21
	24 23 22 21 20 19 CONNECTOR A						36 ONNEC		34	33	32	31
									Shorting	Bar		
BPT[Driver] BPT[Passenger]			S	RSCM								
												ERBF500

TERMINAL & CONNECTOR INSPECTION EBEEE926

Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

INSPECTION PROCEDURE E79D17F8

1. PREPARATION

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

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RT -82

- 2. CHECK SHORT TO BATTERY LINE
 - 1) Connect the battery negative cable to the battery.
 - 2) Turn the ignition switch to ON.
 - 3) Measure voltage between the terminal 2 of BPT harness connector and chassis ground.

Specification (voltage) : Approximately 0 V



- 3. CHECK THE BPT MODULE
 - Replace the Belt Pretensioner (BPT) with a new one.
 Refer to "Belt Pretensioner (BPT)" section in this SERVICE MANUAL.
 - 2) Install the DAB module and connect the DAB connector.
 - 3) Connect the connectors of the PAB, SAB, CAB, BPT, BUPT, FIS and SIS.
 - 4) Connect the SRSCM connector.
 - 5) Connect the battery negative cable to the battery.
 - 6) Connect a Hi-Scan(Pro) to the data link connector.
 - Turn the ignition switch to ON and check the vehicle again.
 Does Hi-Scan (Pro) indicate any DTC related to Belt Pretensioner (BPT)?



Go to next step.



▶ Replace BPT module.

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4. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)



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RT -84

RESTRAINTS

DIC B1378	SIDE AIRBAG [FRONT-DRIVER] RESISTANCE TOO HIGH
	SIDE AIRBAG [FRONT-DRIVER] RESISTANCE TOO LOW
DTC B1382	SIDE AIRBAG [FRONT-PASSENGER] RESISTANCE TOO HIGH
DTC B1383	SIDE AIRBAG [FRONT-PASSENGER] RESISTANCE TOO LOW

DTC DESCRIPTION E7BD1E52

The Side Airbag circuit consists of the SRSCM and four Side Airbags (SAB). The SRSCM sets above DTC(s) if it detects that the resistance of SAB squib is too high or low.

DTC DETECTING CONDITION EFBOEDEA

DTC	Condition	Probable cause
B1378 B1379 B1382 B1383	 Too high or low resistance between SAB high(+) and SAB low (-) Side Airbag (SAB) Malfunction SRSCM Malfunction 	 Open or short circuit on wiring harness Side Airbag (SAB) squib SRSCM

SCHEMATIC DIAGRAM EC34F93D

		SAB [Driv	er]	6				
1 High 20(B)		Terminal	Con	nected to	_	Fur	nction	
SAB [Driver] 2 Low 19(B)		ش. <mark>اک</mark>	SRSCM	20(B)	SA	h		
	** * **	2	SRSCM	Terminal [•]	19(B)	SA	B Low	/
SR دیچه بتال تعمیر کاران خود رو در ایران	RSCM	SAB [Pas	senger]					
1 High 7(B)		Terminal	Con	nected to		Fur	nction	
SAB [Passenger] 2 Low 8(B)		1	SRSCM	Terminal 7	7(B)	SA	B Hig	h
		2	SRSCM	Terminal 8	B(B)	SA	B Lov	/
[HARNESS CONNECTOR]								
	2 1	10 9		6 5	4	3	2	1
	8 7 14 13	0 0 30 29	18 17 28 27	16 15 26 25	14 24	13 23	12 22	11 21
	20 19	40 39	20 27 38 37	20 23 36 35	34	33	32	31
CONNECTOR A SAB[Driver] SAB[Passenger]			CONNECTO		⊐Shortir	ıg Bar		
	S	SRSCM						
								ERBF501S

SPECIFICATION EBEB1D00

SAB resistance : 1.804 ~ 2.568 Ω (Driver), 1.812 ~ 2.576 Ω (Passenger)

TERMINAL & CONNECTOR INSPECTION E93C87E7

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

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RT -85

INSPECTION PROCEDURE EF40A750

- 1. PREPARATION Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)
- 2. CHECK SAB RESISTANCE

Never attempt to measure the circuit resistance of the airbag module(squib) even if you are using the specified tester.

- Connect the Dummy and the Dummy Adapter on SAB harness connector.

 Refer to "SPECIAL SERVICE TOOL" section in this SERVICE MANUAL for the SST No. of Dummy and Dummy Adapter.
- 2) Measure resistance between the terminal 20(7) and 19(8) of SRSCM harness connector(B).

SAB resistance : 1.804 ~ 2.568 Ω (Driver), 1.812 ~ 2.576 Ω (Passenger)



3) Is the measured resistance within specification?

YES

▶ Replace the Side Airbag(SAB) module.



- Check open circuit.
- 3. CHECK OPEN CIRCUIT
 - 1) Measure resistance between the terminal 1 of SAB harness connector and the terminal 20(7) of SRSCM harness connector(B).
 - 2) Measure resistance between the terminal 2 of SAB harness connector and the terminal 19(8) of SRSCM harness connector(B).

Specification (resistance) : below 1 $\ensuremath{\Omega}$

RT -86

RESTRAINTS



ERBF200H

3) Is the measured resistance within specification?



Check short circuit.



▶ Repair or replace the wiring harness between the SAB and the SRSCM.

4. CHECK SHORT CIRCUIT

1) Measure resistance between the terminal 1 and 2 of SAB harness connector.

Specification (resistance) : infinite



ERBF200I

2) Is the measured resistance within specification?



► Go to next step.



- Repair or replace the wiring harness between the SAB and the SRSCM.
- 5. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

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RT -87

DTC B1380 SIDE AIRBAG [FRONT-DRIVER] CIRCUIT SHORT TO GROUND DTC B1384 SIDE AIRBAG [FRONT-PASSENGER] CIRCUIT SHORT TO GROUND

DTC DESCRIPTION E550E963

The Side Airbag circuit consists of the SRSCM and four Side Airbags (SAB). The SRSCM sets above DTC(s) if it detects short to ground on the SAB circuit.

DTC DETECTING CONDITION ED535401

DTC	Condition	Probable cause
B1380 B1384	 Short to ground between SAB and SRSCM Side Airbag (SAB) Malfunction SRSCM Malfunction 	 Short to ground circuit on wiring harness Side Airbag (SAB) squib SRSCM

SCHEMATIC DIAGRAM EF684607

•			SAB [Driv	er]						
	High 20(B)		Terminal	Con	necte	d to	O	Fu	nction	
SAB [Driver] 2	Low 19(B)		1	SRSCM	Termi	nal 2	0(B)) SAB High		
مانه (مسئوليت محدود)		11.11.11.11.11.11	2	SRSCM	Termi	nal 1	9(B)	SA	B Lov	v
مانه (مستوليت محدود)	عودرو سا	SRSCM	SAB [Pas	senger]	0				-	
	High 7(B)		Terminal	Con	necte	d to		Fu	nction	
SAB [Passenger] 2	Low 8(B)	بسامانه ديج	141 A	SRSCM	Termi	nal 7	(B)	SA	B Hig	h
			2	SRSCM	Termi	nal 8	(B)	SA	B Lov	v
	I									
[HARNESS CONNECTOR]										
	5 4	3 2 1 9 8 7	10 9	1 8 17	6 16	5 15	4 14	3 13	2 12	1
$\left\ \begin{pmatrix} 2 \\ 1 \end{pmatrix} \right\ = \left\ \begin{pmatrix} 2 \\ 1 \end{pmatrix} \right\ = \frac{18}{18}$	17 16	15 14 13	30 29	28 27	26	25	24	23	22	21
	23 22	21 20 19	40 39	38 37	36	35	34	33	32	31
SAB[Driver] SAB[Passenger]	CONNEC	CTOR A			CONN	IECTOF		⊐Shortir	ng Bar	
		:	SRSCM						-	
										ERBE501

TERMINAL & CONNECTOR INSPECTION E894CAD8

Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

INSPECTION PROCEDURE EFA29334

- 1. PREPARATION Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)
- 2. CHECK SHORT TO GROUND

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RT -88

RESTRAINTS

ERBE200.I

1) Measure resistance between the terminal 1 of SAB harness connector and chassis ground.

Specification (resistance) : infinite



2) Is the measured resistance within specification?



3. CHECK THE SAB MODULE

- Replace the Side Airbag(SAB) with a new one.
 Refer to "Side Airbag(SAB)" section in this SERVICE MANUAL.
- 2) Install the DAB module and connect the DAB connector.
- 3) Connect the connectors of the PAB, SAB, CAB, BPT, BUPT, FIS and SIS.
- 4) Connect the SRSCM connector.
- 5) Connect the battery negative cable to the battery.
- 6) Connect a Hi-Scan(Pro) to the data link connector.
- 7) Turn the ignition switch to ON and check the vehicle again. Does Hi-Scan (Pro) indicate any DTC related to Side Airbag(SAB)?



► Go to next step.



- ▶ Replace SAB module.
- 4. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

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RT -89

DTC B1381 SIDE AIRBAG [FRONT-DRIVER] CIRCUIT SHORT TO BATTERY DTC B1385 SIDE AIRBAG [FRONT-PASSENGER] CIRCUIT SHORT TO BATTERY

DTC DESCRIPTION EAB44A15

The Side Airbag circuit consists of the SRSCM and four Side Airbags (SAB). The SRSCM sets above DTC(s) if it detects short to battery line on the SAB circuit.

DTC DETECTING CONDITION E4071D8F

DTC	Condition	Probable cause
B1381 B1385	 Short to battery line between SAB and SRSCM Side Airbag (SAB) Malfunction SRSCM Malfunction 	 Short to battery line circuit on wiring harness Side Airbag (SAB) squib SRSCM

SCHEMATIC DIAGRAM E478E059

• • • •	SAB [Driv	er]				
1 High 20(B)	Terminal	Connec	ted to	0	Function	n
SAB [Driver] 2 Low 19(B)	1	SRSCM Ter	minal 20)(B)	SAB Hig	gh
ا دیری ال الم دودر و سامانه (مسئولیت محدود)	2	SRSCM Ter	minal 19	9(B)	SAB Lo	w
SRSCM	SAB [Pas	senger]				
1 High 7(B)	Terminal	Connec	ted to		Function	n
SAB [Passenger] 2 Low 8(B)	1	SRSCM Ter	minal 7(I	B) \$	SAB Hiç	gh
	2	SRSCM Ter	minal 8(I	B) \$	SAB Lo	w
[HARNESS CONNECTOR]						
	10 9	• • 6 18 17 16	5	4 3 14 1		1
(2)(1) $(2)(1)$ 18 17 16 15 14 13	30 29	28 27 26	25	24 2	3 22	21
	40 39	38 37 36	1 1		3 32	31
CONNECTOR A SAB[Driver] SAB[Passenger]		CC	NNECTOR		orting Bar	
	SRSCM					
						ERBE501

TERMINAL & CONNECTOR INSPECTION EA290C2E

Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

INSPECTION PROCEDURE ED4551E8

- 1. PREPARATION Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)
- 2. CHECK SHORT TO BATTERY LINE

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RT -90

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- 1) Connect the battery negative cable to the battery.
- 2) Turn the ignition switch to ON.
- 3) Measure voltage between the terminal 1 of SAB harness connector and chassis ground.

Specification (voltage) : Approximately 0 V



ERBF200K

- 4) Is the measured voltage within specification?
- YES ► Check the SAB Module.

Repair the short to battery line circuit on wiring harness between the SAB and the SRSCM.

3. CHECK THE SAB MODULE

- Replace the Side Airbag(SAB) with a new one.
 Refer to "Side Airbag(SAB)" section in this SERVICE MANUAL.
- 2) Install the DAB module and connect the DAB connector.
- 3) Connect the connectors of the PAB, SAB, CAB, BPT, BUPT, FIS and SIS.
- 4) Connect the SRSCM connector.
- 5) Connect the battery negative cable to the battery.
- 6) Connect a Hi-Scan(Pro) to the data link connector.
- 7) Turn the ignition switch to ON and check the vehicle again. Does Hi-Scan (Pro) indicate any DTC related to Side Airbag(SAB)?



► Go to next step.



- ▶ Replace SAB module.
- 4. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

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RT -91

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DTC B1395 FIRING LOOP INTERCONNECTION FAULT

DTC DESCRIPTION E027D453

While start up phase, SRSCM will measure cross link of squibs. If one of them is failed during interconnection test, then SRSCM will store interconnection fault. Once the interconnection fault is detected, it remains active continuously till the fault is erased. Only one fault code is assigned for all interconnection fault.

TERMINAL & CONNECTOR INSPECTION EECD3199

Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

INSPECTION PROCEDURE E0656F8A

1. PREPARATION Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

2. CHECK SHORT CIRCUIT

 Measure resistance between following squibs.(DAB - PAB, DAB - SAB, DAB - CAB, DAB - BPT, DAB- BUPT, PAB - SAB, PAB - CAB, PAB - BPT, PAB - BUPT, SAB - PAB, SAB - CAB, SAB - BPT, SAB - BUPT, CAB - BPT, CAB - BUPT, BPT - BUPT)

Specification (resistance) : infinite	
2) Is the measured resistance within specification?	
اولین سامانه دیجیتال تعمیرکا Go to next stetp.	
NO	

- Repair or replace the wiring harness between two squibs.
- CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

RT -92	RESTRAINTS
DTC B1400	SIDE IMPACT SENSOR [FRONT-DRIVER] DEFECT
	SIDE IMPACT SENSOR [FRONT-PASSENGER] DEFECT
	SIDE IMPACT SENSOR [FRONT-DRIVER]
	COMMUNICATION ERROR
DTC B1410	SIDE IMPACT SENSOR [FRONT-PASSENGER]
	COMMUNICATION ERROR

DTC DESCRIPTION E7C1CA1D

The detecting system for side crash consists of the SRSCM and four Side Impact Sensors (SIS). The SRSCM sets above DTC(s) if it detects that any SIS is defective or there is communication error between any SIS and the SRSCM.

DTC DETECTING CONDITION EFA2D8F7

DTC	Condition	Probable cause
B1400 B1403 B1409 B1410	 Open between SIS and SRSCM Side Impact Sensor (SIS) Malfunction SRSCM Malfunction 	Wiring HarnessSide Impact Sensor (SIS)SRSCM

SCHEMATIC DIAGRAM EB8523E1



TERMINAL & CONNECTOR INSPECTION E276ABDE

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

INSPECTION PROCEDURE EE9E71F6

- 1. PREPARATION Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)
- 2. CHECK SIS CIRCUIT
 - 1) Measure resistance between the terminal 1 of SIS harness connector and the terminal 26(29) of SRSCM harness connector(B).
 - 2) Measure resistance between the terminal 2 of SIS harness connector and the terminal 27(28) of SRSCM harness connector(B).

Specification (resistance) : below 1 Ω



- 2) Install the DAB module and connect the DAB connector.
- 3) Connect the connectors of the PAB, SAB, CAB, BPT, BUPT, FIS and SIS.
- 4) Connect the SRSCM connector.
- 5) Connect the battery negative cable to the battery.
- 6) Connect a Hi-Scan(Pro) to the data link connector.
- 7) Turn the ignition switch to ON and check the vehicle again. Does Hi-Scan (Pro) indicate any DTC related to Side Impact Sensor(SIS)?



Go to next step.

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RT -94

RESTRAINTS

▶ Replace SIS.

NO

4. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)



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RT -95

DTC B1401 SIDE IMPACT SENSOR [FRONT-DRIVER] CIRCUIT SHORT TO GROUND DTC B1404 SIDE IMPACT SENSOR [FRONT-PASSENGER] CIRCUIT SHORT TO GROUND

DTC DESCRIPTION E97ECDA8

The detecting system for side crash consists of the SRSCM and four Side Impact Sensors (SIS). The SRSCM sets above DTC(s) if it detects short to ground on the SIS circuit.

DTC DETECTING CONDITION EE954875

DTC	Condition	Probable cause
B1401 B1404	 Short to ground between SIS and SRSCM Side Impact Sensor (SIS) Malfunction SRSCM Malfunction 	 Short to ground circuit on wiring harness Side Impact Sensor (SIS) SRSCM

SCHEMATIC DIAGRAM E2134929



TERMINAL & CONNECTOR INSPECTION EAGAEFFC

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

INSPECTION PROCEDURE E4B25BB9

1. PREPARATION

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

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2. CHECK SHORT TO GROUND

RT -96

Measure resistance between the terminal 1 of SIS harness connector and chassis ground. 1)

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specification(resistance) : infinite
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- 2) Is the measured resistance within specification?
- YES Check the SIS. NO

Repair or replace the wiring harness between the SIS and the SRSCM.

- CHECK THE SIDE IMPACT SENSOR 3.
 - Replace the Side Impact Sensor(SIS) with a new one. 1) Refer to "Side Impact Sensor(SIS)" section in this SERVICE MANUAL.
 - Install the DAB module and connect the DAB connector. 2)
 - Connect the connectors of the PAB, SAB, CAB, BPT, BUPT, FIS and SIS. 3)
 - 4) Connect the SRSCM connector.
 - Connect the battery negative cable to the battery. 5)
 - 6) Connect a Hi-Scan(Pro) to the data link connector.
 - Turn the ignition switch to ON and check the vehicle again. 7) Does Hi-Scan (Pro) indicate any DTC related to Side Impact Sensor(SIS)?



Go to next step.



- Replace SIS module.
- CLEAR THE DTC AND CHECK THE VEHICLE AGAIN 4 Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)
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RT -97

DTC B1402 SIDE IMPACT SENSOR [FRONT-DRIVER] CIRCUIT SHORT TO BATTERY DTC B1405 SIDE IMPACT SENSOR [FRONT-PASSENGER] CIRCUIT SHORT TO BATTERY

DTC DESCRIPTION EF82BE9A

The detecting system for side crash consists of the SRSCM and four Side Impact Sensors (SIS). The SRSCM sets above DTC(s) if it detects short to battery line on the SIS circuit.

DTC DETECTING CONDITION EE2D6855

DTC	Condition	Probable cause
B1402 B1405	 Short to battery line between SIS and SRSCM Side Impact Sensor (SIS) Malfunction SRSCM Malfunction 	 Short to battery line circuit on wiring harness Side Impact Sensor (SIS) SRSCM

SCHEMATIC DIAGRAM E01F8A57



TERMINAL & CONNECTOR INSPECTION E4FA9ABO

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

INSPECTION PROCEDURE E1FCB2A7

- 1. PREPARATION
 - Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT 42)

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RT -98

RESTRAINTS

- 2. CHECK SHORT TO BATTERY LINE
 - 1) Connect the battery negative cable to the battery.
 - 2) Turn the ignition switch to ON.
 - 3) Measure voltage between the terminal 1 of SIS harness connector and chassis ground.

specification(voltage) : Approximately 0V



- 3. CHECK THE SIS MODULE
 - Replace the Side Impact Sensor(SIS) with a new one.
 Refer to "Side Impact Sensor(SIS)" section in this SERVICE MANUAL.
 - 2) Install the DAB module and connect the DAB connector.
 - 3) Connect the connectors of the PAB, SAB, CAB, BPT, BUPT, FIS and SIS.
 - 4) Connect the SRSCM connector.
 - 5) Connect the battery negative cable to the battery.
 - 6) Connect a Hi-Scan(Pro) to the data link connector.
 - 7) Turn the ignition switch to ON and check the vehicle again. Does Hi-Scan (Pro) indicate any DTC related to Side Impact Sensor(SIS)?



Go to next step.



Replace SIS module.

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TROUBLESHOOTING

4. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)



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RT -100	RESTRAI	INTS
DTC B1412	SIDE IMPACT SENSOR [REAR-DRIVER]	
	COMMUNICATION ERROR	
DTC B1413	SIDE IMPACT SENSOR [REAR-PASSENGER]	
	COMMUNICATION ERROR	
DTC B1418	SIDE IMPACT SENSOR [REAR-DRIVER] DEFECT	
DTC B1419	SIDE IMPACT SENSOR TREAR-PASSENGER1 DEFECT	

DTC DESCRIPTION EF83DBCD

The detecting system for side crash consists of the SRSCM and four Side Impact Sensors (SIS). The SRSCM sets above DTC(s) if it detects that any SIS is defective or there is communication error between any SIS and the SRSCM.

DTC DETECTING CONDITION EEDFDBSF

DTC	Condition	Probable cause
B1412 B1413 B1418 B1419	 Open between SIS and SRSCM Side Impact Sensor (SIS) Malfunction SRSCM Malfunction 	Wiring HarnessSide Impact Sensor (SIS)SRSCM

SCHEMATIC DIAGRAM E4FB645C



TERMINAL & CONNECTOR INSPECTION EFB513A5

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

INSPECTION PROCEDURE EBCCFCFC

1. PREPARATION

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Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

- 2. CHECK SIS CIRCUIT
 - 1) Measure resistance between the terminal 1 of SIS harness connector and the terminal 22(23) of SRSCM harness connector(B).
 - 2) Measure resistance between the terminal 2 of SIS harness connector and the terminal 21(24) of SRSCM harness connector(B).

Specification (resistance) : below 1 Ω



- ▶ Repair or replace the wiring harness between the SIS and the SRSCM.
- 3. CHECK THE SIDE IMPACT SENSOR
 - Replace the Side Impact Sensor(SIS) with a new one.
 Refer to "Side Impact Sensor(SIS)" section in this SERVICE MANUAL.
 - 2) Install the DAB module and connect the DAB connector.
 - 3) Connect the connectors of the PAB, SAB, CAB, BPT, BUPT, FIS and SIS.
 - 4) Connect the SRSCM connector.
 - 5) Connect the battery negative cable to the battery.
 - 6) Connect a Hi-Scan(Pro) to the data link connector.
 - 7) Turn the ignition switch to ON and check the vehicle again. Does Hi-Scan (Pro) indicate any DTC related to Side Impact Sensor(SIS)?



Go to next step.



RT -102



- ▶ Replace SIS.
- 4. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)



<u>RT -103</u>

DTC B1414	SIDE IMPACT SENSOR [FRONT-DRIVER] WRONG ID
	SIDE IMPACT SENSOR [FRONT-PASSENGER] WRONG ID
	SIDE IMPACT SENSOR [REAR-DRIVER] WRONG ID
DTC B1417	SIDE IMPACT SENSOR [REAR-PASSENGER] WRONG ID

DTC DESCRIPTION E7BCC6BD

The detecting system for side crash consists of the SRSCM and four Side Impact Sensors (SIS). The SRSCM sets above DTC(s) if it detects that wrong SIS is used.

DTC DETECTING CONDITION E2A0FF8A

DTC	Condition	Probable cause
B1414 B1415 B1416 B1417	Wrong Side Impact Sensor (SIS)SRSCM Malfunction	Side Impact Sensor (SIS)SRSCM

TERMINAL & CONNECTOR INSPECTION E394EEA7

Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

INSPECTION PROCEDURE E04EC6EF

If above DTC is detected replace the side impact sensor.

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RT -104

RESTRAINTS

DTC B1429	SIDE AIRBAG [REAR-DRIVER] RESISTANCE TOO HIGH
DTC D4420	
DIC D1430	SIDE AIRBAG [REAR-DRIVER] RESISTANCE TOO LOW
DIC B1433	SIDE AIRBAG [REAR-PASSENGER] RESISTANCE TOO HIGH
DTC B1/3/	SIDE AIRBAG [REAR-PASSENGER] RESISTANCE TOO LOW
	SIDE AIRDAG [REAR-FASSENGER] RESISTANCE TOO LOW

DTC DESCRIPTION E952DC76

The Side Airbag circuit consists of the SRSCM and four Side Airbags (SAB). The SRSCM sets above DTC(s) if it detects that the resistance of SAB squib is too high or low.

DTC DETECTING CONDITION EF97F34C

DTC	Condition	Probable cause
B1429 B1430 B1433 B1434	 Too high or low resistance between SAB high(+) and SAB low (-) Side Airbag (SAB) Malfunction SRSCM Malfunction 	 Open or short circuit on wiring harness Side Airbag (SAB) squib SRSCM

SCHEMATIC DIAGRAM E942B141

	SAB [Driv	er]		
1 High 6(B)	Terminal	Connected to	Function	
SAB [Driver] 2 Low 5(B)	شياكيت	SRSCM Terminal 6(B	B) SAB High	
	2	SRSCM Terminal 5(B	B) SAB Low	
	SAB [Pas	senger]		
1 High 3(B)	Terminal	Connected to	Function	
SAB [Passenger] 2 Low 4(B)	1	SRSCM Terminal 3(B	3) SAB High	
	2	SRSCM Terminal 4(E	3) SAB Low	
[HARNESS CONNECTOR] $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$				
24 23 22 21 20 19 CONNECTOR A SAB[Driver] SAB[Passenger]	40 39	38 37 36 35 3 CONNECTOR B	34 33 32 31	
SRSCM				
			ERBF502S	

SPECIFICATION EA768F8C

SAB resistance : 1.804 ~ 2.568 Ω (Driver), 1.812 ~ 2.576 Ω (Passenger)

TERMINAL & CONNECTOR INSPECTION ECBC35AD

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

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INSPECTION PROCEDURE E0A9EB5B

- 1. PREPARATION Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)
- 2. CHECK SAB RESISTANCE

Never attempt to measure the circuit resistance of the airbag module(squib) even if you are using the specified tester.

- Connect the Dummy and the Dummy Adapter on SAB harness connector.

 Refer to "SPECIAL SERVICE TOOL" section in this SERVICE MANUAL for the SST No. of Dummy and Dummy Adapter.
- 2) Measure resistance between the terminal 6(3) and 5(4) of SRSCM harness connector(B).

SAB resistance : 1.804 ~ 2.568 Ω (Driver), 1.812 ~ 2.576 Ω (Passenger)



3) Is the measured resistance within specification?

YES

▶ Replace the Side Airbag(SAB) module.



- Check open circuit.
- 3. CHECK OPEN CIRCUIT
 - 1) Measure resistance between the terminal 1 of SAB harness connector and the terminal 6(3) of SRSCM harness connector(B).
 - 2) Measure resistance between the terminal 2 of SAB harness connector and the terminal 5(4) of SRSCM harness connector(B).

Specification (resistance) : below 1 $\ensuremath{\Omega}$

RT -106

RESTRAINTS



ERBF201H

3) Is the measured resistance within specification?



Check short circuit.



▶ Repair or replace the wiring harness between the SAB and the SRSCM.

4. CHECK SHORT CIRCUIT

1) Measure resistance between the terminal 1 and 2 of SAB harness connector.

Specification (resistance) : infinite



ERBF201I

2) Is the measured resistance within specification?



► Go to next step.



- Repair or replace the wiring harness between the SAB and the SRSCM.
- 5. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

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<u>RT</u> -107

DTC B1431 SIDE AIRBAG [REAR-DRIVER] CIRCUIT SHORT TO GROUND DTC B1435 SIDE AIRBAG [REAR-PASSENGER] CIRCUIT SHORT TO GROUND

DTC DESCRIPTION EGOFEFF6

The Side Airbag circuit consists of the SRSCM and four Side Airbags (SAB). The SRSCM sets above DTC(s) if it detects short to ground on the SAB circuit.

DTC DETECTING CONDITION EA45BB1F

DTC	Condition	Probable cause
B1431 B1435	 Short to ground between SAB and SRSCM Side Airbag (SAB) Malfunction SRSCM Malfunction 	 Short to ground circuit on wiring harness Side Airbag (SAB) squib SRSCM

SCHEMATIC DIAGRAM E6FB2B3D



TERMINAL & CONNECTOR INSPECTION EFEOA393

Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

INSPECTION PROCEDURE E17C48FF

- 1. PREPARATION Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)
- 2. CHECK SHORT TO GROUND

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RT -108

RESTRAINTS

ERBE201.I

1) Measure resistance between the terminal 1 of SAB harness connector and chassis ground.

Specification (resistance) : infinite



2) Is the measured resistance within specification?



3. CHECK THE SAB MODULE

- Replace the Side Airbag(SAB) with a new one.
 Refer to "Side Airbag(SAB)" section in this SERVICE MANUAL.
- 2) Install the DAB module and connect the DAB connector.
- 3) Connect the connectors of the PAB, SAB, CAB, BPT, BUPT, FIS and SIS.
- 4) Connect the SRSCM connector.
- 5) Connect the battery negative cable to the battery.
- 6) Connect a Hi-Scan(Pro) to the data link connector.
- 7) Turn the ignition switch to ON and check the vehicle again. Does Hi-Scan (Pro) indicate any DTC related to Side Airbag(SAB)?



► Go to next step.



- ▶ Replace SAB module.
- 4. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

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<u>RT -109</u>

DTC B1432 SIDE AIRBAG [REAR-DRIVER] CIRCUIT SHORT TO BATTERY DTC B1436 SIDE AIRBAG [REAR-PASSENGER] CIRCUIT SHORT TO BATTERY

DTC DESCRIPTION EFFFBFEF

The Side Airbag circuit consists of the SRSCM and four Side Airbags (SAB). The SRSCM sets above DTC(s) if it detects short to battery on the SAB circuit.

DTC DETECTING CONDITION EAECCB51

DTC	Condition	Probable cause
B1432 B1436	 Short to battery between SAB and SRSCM Side Airbag (SAB) Malfunction SRSCM Malfunction 	 Short to battery circuit on wiring harness Side Airbag (SAB) squib SRSCM

SCHEMATIC DIAGRAM E4585BE5



TERMINAL & CONNECTOR INSPECTION EE96FA2F

Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

INSPECTION PROCEDURE EB39F245

- 1. PREPARATION Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)
- 2. CHECK SHORT TO GROUND

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RT -110

RESTRAINTS

ERBF201K

Measure resistance between the terminal 1 of SAB harness connector and chassis ground. 1)

Specification (resistance) : infinite



2) Is the measured resistance within specification?

YES

- Check the SAB Module.
- NO
 - Repair or replace the wiring harness between the SAB and the SRSCM.
- 3. CHECK THE SAB MODULE
 - Replace the Side Airbag(SAB) with a new one. 1) Refer to "Side Airbag(SAB)" section in this SERVICE MANUAL
 - Install the DAB module and connect the DAB connector. 2)
 - Connect the connectors of the PAB, SAB, CAB, BPT, BUPT, FIS and SIS. 3)
 - 4) Connect the SRSCM connector.
 - 5) Connect the battery negative cable to the battery.
 - Connect a Hi-Scan(Pro) to the data link connector. 6)
 - Turn the ignition switch to ON and check the vehicle again. 7) Does Hi-Scan (Pro) indicate any DTC related to Side Airbag(SAB)?



▶ Go to next step.



- ▶ Replace SAB module.
- CLEAR THE DTC AND CHECK THE VEHICLE AGAIN 4. Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

RT -111

DTC B1451 SIDE IMPACT SENSOR [REAR-DRIVER] CIRCUIT SHORT TO GROUND DTC B1454 SIDE IMPACT SENSOR [REAR-PASSENGER] CIRCUIT SHORT TO GROUND

DTC DESCRIPTION E2C1F3FE

The detecting system for side crash consists of the SRSCM and four Side Impact Sensors (SIS). The SRSCM sets above DTC(s) if it detects short to ground on the SIS circuit.

DTC DETECTING CONDITION EB5BE55B

DTC	Condition	Probable cause
B1451 B1454	 Short to ground between SIS and SRSCM Side Impact Sensor (SIS) Malfunction SRSCM Malfunction 	 Short to ground circuit on wiring harness Side Impact Sensor (SIS) SRSCM

SCHEMATIC DIAGRAM E2866786



TERMINAL & CONNECTOR INSPECTION E9E88BA8

Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

INSPECTION PROCEDURE E1588FE0

1. PREPARATION

Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

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RESTRAINTS

ERBF502A

2. CHECK SHORT TO GROUND

Measure resistance between the terminal 1 of SIS harness connector and chassis ground.

specification(resistance) : infinite



Is the measured resistance within specification? 2)



Repair or replace the wiring harness between the SIS and the SRSCM.

3. CHECK THE SIDE IMPACT SENSOR

- 1) Replace the Side Impact Sensor(SIS) with a new one. Refer to "Side Impact Sensor(SIS)" section in this SERVICE MANUAL.
- Install the DAB module and connect the DAB connector. 2)
- 3) Connect the connectors of the PAB, SAB, CAB, BPT, BUPT, FIS and SIS.
- 4) Connect the SRSCM connector.
- Connect the battery negative cable to the battery. 5)
- Connect a Hi-Scan(Pro) to the data link connector. 6)
- Turn the ignition switch to ON and check the vehicle again. 7) Does Hi-Scan (Pro) indicate any DTC related to Side Impact Sensor(SIS)?



Go to next step.



- Replace SIS module.
- 4. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

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RT -113

DTC B1452 SIDE IMPACT SENSOR [REAR-DRIVER] CIRCUIT SHORT TO BATTERY DTC B1455 SIDE IMPACT SENSOR [REAR-PASSENGER] CIRCUIT SHORT TO BATTERY

DTC DESCRIPTION EE3957BE

The detecting system for side crash consists of the SRSCM and four Side Impact Sensors (SIS). The SRSCM sets above DTC(s) if it detects short to battery line on the SIS circuit.

DTC DETECTING CONDITION EC9739E6

DTC	Condition	Probable cause
B1452 B1455	 Short to battery line between SIS and SRSCM Side Impact Sensor (SIS) Malfunction SRSCM Malfunction 	 Short to battery line circuit on wiring harness Side Impact Sensor (SIS) SRSCM

SCHEMATIC DIAGRAM E076667C

	Г		SIS [Drive	er]			0		
	1 High 22(B)		Terminal	Con	nected to		F	unct	ion
SIS [Driver]	2 Low 21(B)	117.00		SRSCM	Terminal	22(B)		SIS F	ligh
رمستونيت محدود	حودرو ساسر	ديجيان	2	SRSCM	Terminal	21(B)		SIS L	ow
	مرتال بتجمير	SRSCM	SIS [Pass	enger]			Ċ.		
	1 High 23(B)		Terminal	Con	nected to		F	unct	ion
SIS [Passenger]	2 Low 24(B)		1	SRSCM	Terminal	23(B)		SIS H	igh
	-		2	SRSCM	Terminal	24(B)		SIS L	ow
[HARNESS CONNECTOR]	6 5 4 3 12 11 10 9 18 17 16 15 24 23 22 21 CONNECTOR	8 7 5 14 13 1 20 19	10 9 20 19 30 29 40 39	8 7 18 17 28 27 38 37	6 5 16 15 26 25 36 35 CONNECT	4 14 • 34 FOR B	3 13 • 33	2 12 • 32	1 11 31 Bar
									ERBF503

TERMINAL & CONNECTOR INSPECTION E5EA384D

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

INSPECTION PROCEDURE E32EDA9C

1. PREPARATION

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

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RESTRAINTS

- 2. CHECK SHORT TO BATTERY LINE
 - 1) Connect the battery negative cable to the battery.
 - 2) Turn the ignition switch to ON.
 - 3) Measure voltage between the terminal 1 of SIS harness connector and chassis ground.

specification(voltage) : Approximately 0V



- 3. CHECK THE SIS MODULE
 - Replace the Side Impact Sensor(SIS) with a new one.
 Refer to "Side Impact Sensor(SIS)" section in this SERVICE MANUAL.
 - 2) Install the DAB module and connect the DAB connector.
 - 3) Connect the connectors of the PAB, SAB, CAB, BPT, BUPT, FIS and SIS.
 - 4) Connect the SRSCM connector.
 - 5) Connect the battery negative cable to the battery.
 - 6) Connect a Hi-Scan(Pro) to the data link connector.
 - 7) Turn the ignition switch to ON and check the vehicle again. Does Hi-Scan (Pro) indicate any DTC related to Side Impact Sensor(SIS)?



Go to next step.



Replace SIS module.

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TROUBLESHOOTING

4. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)



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RT -115

RESTRAINTS

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DTC DESCRIPTION E9E2C023

The CAB squib circuit consists of the SRSCM and two Curtain Airbags(CAB). It causes the SRS to deploy when the SRS deployment conditions are satisfied. The above DTC is recorded when the CAB resistance too high or low is detected in the CAB squib circuit.

DTC DETECTING CONDITION E71AB0A4

DTC	Condition	Probable cause
B1473 B1474 B1477 B1478	 Too high or low resistance between CAB high(+) and CAB low(-) Curtain Airbag (CAB) Malfunction SRSCM Malfunction 	 Open or short circuit on wiring harness Curtain Airbag (CAB) squib SRSCM

SCHEMATIC DIAGRAM E813CB8C



SPECIFICATION E7348974

CAB resistance : 1.940 ~ 2.704 Ω (Driver), 1.948 ~ 2.712 Ω (Passenger)

RT -117

TERMINAL & CONNECTOR INSPECTION E67565A8

Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

INSPECTION PROCEDURE E0265A0E

- 1. PREPARATION Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)
- 2. CHECK CAB RESISTANCE

Never attempt to measure the circuit resistance of the airbag module(squib) even if you are using the specified tester.

- Connect the Dummy and the Dummy Adapter on CAB harness connector.
 Refer to "SPECIAL SERVICE TOOL" section in this SERVICE MANUAL for the SST No. of Dummy and Dummy Adapter.
- 2) Measure resistance between the terminal 2(12) and 1(11) of SRSCM harness connector(B).

CAB resistance : 1.940 ~ 2.704 Ω (Driver), 1.948 ~ 2.712 Ω (Passenger)



ERBF200O

3) Is the measured resistance within specification?

YES

Replace the Curtain Airbag(CAB) module.

NO

► Check open circuit.

- 3. CHECK OPEN CIRCUIT
 - 1) Measure resistance between the terminal 2 of CAB harness connector and the terminal 2(12) of SRSCM harness connector(B).
 - 2) Measure resistance between the terminal 1 of CAB harness connector and the terminal 1(11) of SRSCM harness connector(B).

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RT -118

RESTRAINTS

ERBF200P

Specification (resistance) : below 1 $\ensuremath{\Omega}$



3) Is the measured resistance within specification?



Specification (resistance) : infinite



ERBF200Q

2) Is the measured resistance within specification?



▶ Go to next step.



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<u>RT -119</u>

- ▶ Repair or replace the wiring harness between the CAB and the SRSCM.
- 5. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)



RESTRAINTS

DTC B1475 CURTAIN AIRBAG [DRIVER] CIRCUIT SHORT TO GROUND DTC B1479 CURTAIN AIRBAG [PASSENGER] CIRCUIT SHORT TO GROUND

DTC DESCRIPTION EF4CB9A5

The CAB squib circuit consists of the SRSCM and two Curtain Airbags (CAB). It causes the SRS to deploy when the SRS deployment conditions are satisfied. The above DTC is recorded when short to ground is detected in the CAB squib circuit.

DTC DETECTING CONDITION EAAE5911

DTC	Condition	Probable cause
B1475 B1479	 Short to ground between CAB and SRSCM Curtain Airbag (CAB) Malfunction SRSCM Malfunction 	 Short to ground circuit on wiring harness Curtain Airbag (CAB) squib SRSCM

SCHEMATIC DIAGRAM EGEFB078

	•			_		٦,	CAB [D	rive	r]						
\mathbf{ODC}		1 Low 1	(B)				Termin	al	С	onne	cted t	0	F	unctic	n
CAB [D	river]	2 High 2	(B)				1		SRSC	М Те	rmina	l 1(B)	С	AB L	w
ليت محدود)	نه (مسئو	در و ساما	رخه				2		SRSC	М Те	rmina	l 2(B)	С	AB H	igh
				SRSC	M		CAB [P	asse	enger]						
در مدر ایران	کاران خم	1 Low 11					Termin	al	C	onne	cted t	0	F	unctic	n
CAB [P	assenger]	2 High 12	2(B)			F	1		SRSC	М Те	rmina	l 11(E	3) C	AB Lo	w
		_					2		SRSC	M Te	rmina	l 12(E	3) C	AB H	igh
[HARNESS CC	NNECTOR]														
		6 5 4	3		1	10		8	7	6	5	4	3	•	
	a b 🛏	121110181716	9 15	-	7	20		18 28	17 27	16 26	15 25	14 24	13 23	22	21
տ ո		24 23 22	21	20 1	19	40) 39	38	37	36	35	34	33	32	31
		CONNE	CTOR A	\					CC	ONNEC ⁻	TOR B				_
CAB[Driver] CAB	[Passenger]						SRSCM	1						Shorting	Bar
															ERBF200

TERMINAL & CONNECTOR INSPECTION E7200741

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

INSPECTION PROCEDURE E3A2F149

1. PREPARATION

Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

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1) Measure resistance between the terminal 2 of CAB harness connector and chassis ground.

Specification (resistance) : infinite



- ▶ Replace CAB module.
- 4. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

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RESTRAINTS

DTC B1476 CURTAIN AIRBAG [DRIVER] CIRCUIT SHORT TO BATTERY DTC B1480 CURTAIN AIRBAG [PASSENGER] CIRCUIT SHORT TO BATTERY

DTC DESCRIPTION E8242B75

The CAB squib circuit consists of the SRSCM and CAB. It causes the SRS to deploy when the SRS deployment conditions are satisfied. The above DTC is recorded when short to battery is detected in the CAB squib circuit.

DTC DETECTING CONDITION EC02CD65

DTC	Condition	Probable cause
B1476 B1480	 Short to battery between CAB and SRSCM Curtain Airbag (CAB) Malfunction SRSCM Malfunction 	 Short to battery line circuit on wiring harness Curtain Airbag (CAB) squib SRSCM

SCHEMATIC DIAGRAM ED9E23C3

•	CAB [Driv	er]	-
1 Low 1(B)	Terminal	Connected to	Function
CAB [Driver] 2 High 2(B)	1	SRSCM Terminal 1((B) CAB Low
، دیچیتال خودرو سامانه (مسئولیت محدود)	2	SRSCM Terminal 2((B) CAB High
SRSCM	CAB [Pas	senger]	
1 Low 11(B)	Terminal	Connected to	Function
CAB [Passenger] 2 High 12(B)	1	SRSCM Terminal 11	1(B) CAB Low
	2	SRSCM Terminal 12	2(B) CAB High
[HARNESS CONNECTOR]	10 9 8 20 19 11 30 29 24 40 39 34	3 17 16 15 14 3 27 26 25 24 3 37 36 35 34	4 13 • • 4 23 22 21
CONNECTOR A		CONNECTOR B	Shorting Bar
CAB[Driver] CAB[Passenger]	SRSCM		
			ERBF200M

TERMINAL & CONNECTOR INSPECTION E7691A8D

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

INSPECTION PROCEDURE E8312668

1. PREPARATION

Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

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2.

1)

Connect the battery negative cable to the battery.

- - 2) Turn the ignition switch to ON.
 - 3) Measure voltage between the terminal 2 of CAB harness connector and chassis ground.

Specification (voltage) : Approximately 0 V



- ▶ Repair the short to battery line circuit on wiring harness between the CAB and the SRSCM.
- 3. CHECK THE CAB MODULE
 - Replace the Curtain Airbag(CAB) with a new one.
 Refer to "Curtain Airbag(CAB)" section in this SERVICE MANUAL.
 - 2) Install the DAB module and connect the DAB connector.
 - 3) Connect the connectors of the PAB, SAB, CAB, BPT, BUPT, FIS and SIS.
 - 4) Connect the SRSCM connector.
 - 5) Connect the battery negative cable to the battery.
 - 6) Connect a Hi-Scan(Pro) to the data link connector.
 - Turn the ignition switch to ON and check the vehicle again. Does Hi-Scan (Pro) indicate any DTC related to Curtain Airbag(CAB)?



Go to next step.



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RESTRAINTS

- ► Replace CAB module.
- 4. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)



DTC B1527 PASSENGER AIRBAG DEACTIVATION SWITCH OPEN OR SHORT TO BATTERY

DTC DESCRIPTION E43745D9

The deactivation system for the passenger airbag consists of the SRSCM and the Passenger Airbag Deactivation(PAD) switch. The above DTC is recorded when PAD switch open or short to battery is detected in the PAD circuit.

DTC DETECTING CONDITION E9D133AD

DTC	Condition	Probable cause
B1527	 Short to battery line between PAD switch and SRSCM SRSCM malfunction PAD switch malfunction 	PAD switchWiring harnessSRSCM

SCHEMATIC DIAGRAM E304422C



SPECIFICATION EDC39A07

PAD Switch Status	Resistance(Ω)	Related DTC
Short to Battery	> 1,624	B1527
PAB Enabled Position	904 ~ 1,154	
Defect	577 ~ 904	B1529
PAB Disabled Position	381 ~ 577	
Short to Ground	< 270	B1528

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RESTRAINTS

TERMINAL & CONNECTOR INSPECTION E83AEDAD

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

INSPECTION PROCEDURE E13F2133

- 1. PREPARATION Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)
- 2. CHECK OPEN CIRCUIT
 - 1) Disconnect the connector of the PAD switch.
 - 2) Measure resistance between the terminal 19 of the SRSCM harness connector(A) and 1 of PAD switch harness connector.
 - 3) Measure resistance between the terminal 21 of the SRSCM harness connector(A) and 2 of PAD switch harness connector.

Specification (resistance) : below 1 Ω



ERBF500Z

4) Is the measured resistance within specification?



Check short to battery line.

NO

- ▶ Replace the harness between the SRSCM and the PAD switch.
- 3. CHECK SHORT TO BATTERY LINE
 - 1) Connect the battery negative cable to the battery.
 - 2) Turn the ignition switch to ON.
 - 3) Turn the ignition switch to LOCK, and wait for 30 seconds.
 - 4) Measure voltage between the terminal 1 of PAD switch harness connector and chassis ground.

Specification (voltage) : Approximately 0 V

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TROUBLESHOOTING



ERBF503A

5) Is the measured voltage within specification?



▶ Go to next step.

NO

▶ Repair or replace the wiring harness between the PAD switch and the SRSCM.

4. CHECK THE PAD SWITCH

- 1) Connect the SRSCM connector.
- 2) Connect the PAD switch.

3) Connect the battery negative cable to the battery.

- 4) Turn the ignition switch to ON.
- 5) Measure resistance between the terminal 19 of the SRSCM harness connector(A) and 1 of PAD switch harness connector.

Specification (resistance) : PAD switch (Enabled position) : 904 ~ 1,154 Ω PAD switch (Disabled position) : 381 ~ 577 Ω



6) Is the measured resistance within specification?

YES

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ERBF504B

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RESTRAINTS

▶ Go to next step.



- ► Replace the PAD switch.
- 5. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)





DTC B1528 PASSENGER AIRBAG DEACTIVATION SWITCH SHORT OR SHORT TO GROUND

DTC DESCRIPTION E8FDD9B3

The deactivation system for the passenger airbag consists of the SRSCM and the Passenger Airbag Deactivation(PAD) switch. The above DTC is recorded when PAD switch short or short to ground is detected in the PAD system circuit.

DTC DETECTING CONDITION E13549DA

DTC	Condition	Probable cause
B1528	 Short to ground between PAD switch and SRSCM PAD switch malfunction SRSCM malfunction 	PAD switchWiring harnessSRSCM

SCHEMATIC DIAGRAM E1C1B705



SPECIFICATION EB1FB32A

PAD Switch Status	Resistance(Ω)	Related DTC
Short to Battery	> 1,624	B1527
PAB Enabled Position	904 ~ 1,154	
Defect	577 ~ 904	B1529
PAB Disabled Position	381 ~ 577	
Short to Ground	< 270	B1528

TERMINAL & CONNECTOR INSPECTION E0AC4EF2

Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

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RESTRAINTS

INSPECTION PROCEDURE EA9149BD

- 1. PREPARATION Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)
- 2. CHECK SHORT TO GROUND
 - 1) Disconnect the connector of the PAD switch.
 - 2) Measure resistance between the terminal 1 of PAD switch harness connector and chassis ground.

Specification (resistance) : infinite



▶ Replace the harness between the SRSCM and the PAD switch.

3. CHECK SHORT CIRCUIT

- 1) Measure resistance between 1 and 2 of PAD switch harness connector.
- 2) Measure resistance between 1 and 4 of PAD switch harness connector.

Specification (resistance) : infinite



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TROUBLESHOOTING

3) Is the measured resistance within specification?



▶ Go to next step.



- ▶ Repair or replace the wiring harness between the PAD switch and the SRSCM.
- 4. CHECK THE PAD SWITCH
 - 1) Connect the SRSCM connector.
 - 2) Connect the PAD switch.
 - 3) Connect the battery negative cable to the battery.
 - 4) Turn the ignition switch to ON.
 - 5) Measure resistance between the terminal 19 of the SRSCM harness connector(A) and 1 of PAD switch harness connector.

Specification (resistance) : PAD switch (Enabled positon) : 904 ~ 1.154 Ω PAD switch (Disabled positon) : 381 ~ 577 Ω	0
PAD Switch	
اولین سامانه دیجیتال تعمی ⁴ اولین سامانه دیجیتال تعمی ⁴ اولین ا ۱G1 ۱۹(A) ۱۹(A)	
O-O- SRSCM	ERBF501E

6) Is the measured resistance within specification?



▶ Go to next step.



- ▶ Replace the PAD switch.
- 5. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

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RESTRAINTS

DTC B1529 PASSENGER AIRBAG DEACTIVATION SWITCH DEFECT DTC B1530 PASSENGER AIRBAG DEACTIVATION SWITCH INSTABILITY

DTC DESCRIPTION E5916DC3

The deactivation system for the passenger airbag consists of the SRSCM and the Passenger Airbag Deactivation(PAD) switch. The above DTC is recorded when the defect or instability of PAD switch is detected in the PAD system circuit.

DTC DETECTING CONDITION ED364FE5

DTC	Condition	Probable cause
B1529 B1530	PAD switch malfunctionSRSCM malfunction	PAD switchWiring harnessSRSCM

SCHEMATIC DIAGRAM E2DB86D8



SPECIFICATION E25793DB

PAD Switch Status	Resistance(Ω)	Related DTC
Short to Battery	> 1,624	B1527
PAB Enabled Position	904 ~ 1,154	
Defect	577 ~ 904	B1529
PAB Disabled Position	381 ~ 577	
Short to Ground	< 270	B1528

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TERMINAL & CONNECTOR INSPECTION EFC94B40

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

INSPECTION PROCEDURE E64B6D4E

- 1. PREPARATION Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)
- 2. CHECK POWER SUPPLY
 - 1) Connect the battery negative cable to the battery.
 - 2) Turn the ignition switch to ON.
 - 3) Measure voltage between the terminal and 4 of PAD switch harness connector and chassis ground.

Specification (voltage) : 9 ~ 16.5 V



4) Is the measured voltage within specification?



Check ground circuit.

NO

▶ Replace the harness between the battery line and the PAD switch.

3. CHECK GROUND CIRCUIT

- 1) Turn the ignition switch to OFF.
- 2) Disconnect the battery negative cable from the battery.
- 3) Disconnect the connector of the PAD switch.
- 4) Measure resistance between the terminal 2 of PAD switch harness connector and chassis ground.

Specification (resistance) : 0 Ω

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RESTRAINTS



ERBF501G

5) Is the measured resistance within specification?



Go to next step.



- Repair or replace the wiring harness between the PAD switch and the chassis ground.
- 4. CHECK THE PAD SWITCH
 - 1) Connect the SRSCM connector.
 - 2) Connect the PAD switch.
 - 3) Connect the battery negative cable to the battery.
 - 4) Turn the ignition switch to ON.
 - 5) Measure resistance between the terminal 19 of the SRSCM harness connector(A) and 1 of PAD switch harness connector.

Specification (resistance) : PAD switch (Enabled positon) : 904 ~ 1.154 Ω PAD switch (Disabled positon) : 381 ~ 577 Ω



6) Is the measured resistance within specification?



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▶ Go to next step.



- ▶ Replace the PAD switch.
- 5. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)





RESTRAINTS

DTC B1620 SUPPLEMENTAL RESTRAINT SYSTEM CONTROL MODULE INTERNAL FAULT (REPLACE SRSCM)

DTC DESCRIPTION E1635E15

The Supplemental Restraint System Control Module (SRSCM) runs diagnostics to monitor the condition of its internal circuits and all external components in the restraint system. If a fault is detected in the electronic accelerometor or in the microprocessor, the SRSCM will inhibit deployment to minimize the risk of inadvertent deployments. Once an internal fault is qualified, the internal fault is latched and warning lamp will be turned on. If an internal fault is qualified, the SRSCM must be replaced. The Hi-Scan tool can't clear an internal fault. All internal faults are DTC B1620.

DTC DETECTING CONDITION E3D215EF

DTC	Condition	Probable cause
B1620	 SRSCM internal fault : acceleration sensor, microcomputer power supply, watchdog etc 	• SRSCM

INSPECTION PROCEDURE EC7B75FE

If the above mentioned DTC is confirmed it can't be cleared by Hi-Scan tool, the SRSCM should be replaced.

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اولین سامانه دیجیتال تعمیرکاران خودرو در ایران

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CRASH RECORDED - FRONTAL (REPLACE SRSCM)
CRASH RECORDED - DRIVER SIDE (REPLACE SRŚCM)
CRASH RECORDED - PASSENGER SIDE (REPLACE SRSCM)
INHIBITED (REPLACE SRSCM)
CRASH RECORDED - BELT PRETENSIONER ONLY
BELT PRETENSIONER 6 TIMES DEPLOYMENT
(REPLACE SRSCM)

DTC DESCRIPTION ECC9F31F

When a deployment of any restraint system for seat belt pretensioner and frontal and side air bags occurs, the crash output is activated. The purpose of this output is to signal the power window main switch module in the vehicle to unlock the vehicle doors. If a crash output is in progress, a second crash output signal will not be sent unless the first one is completed. The SRSCM doesn't perform diagnostics on the crash output function. After a frontal or side crash event is sensed and algorithm makes firing decision, above mentioned crash record is stored after squib deployment.

DTC DETECTING CONDITION E73A47D6

DTC	Condition	Probable cause
B1650 B1651 B1652 B1657 B1658	 Frontal crash Side crash Seat belt pretensioner only deployed 	 SRSCM Front Impact Sensor Side Impact Sensor Seat Belt Pretensioner

شرکت دیجیتال خودرو سامانه (مسئولیت محدود)

SCHEMATIC DIAGRAM E093E564



INSPECTION PROCEDURE EFDF2513

If the above mentioned DTC is confirmed it can't be cleared by Hi-Scan tool except for the B1657, and the SRSCM should be replaced. However, for the DTC B1657, Belt pretensioner only deployment, it can be erased for 5 times and the SRSCM can be reusable. If the deployment of Belt pretensioner reaches to 6 times, the SRSCM will set DTC B1658 and the SRSCM should be replaced accordingly.

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RESTRAINTS

DTC B1701 DRIVER BUCKLE PRETENSIONER RESISTANCE TOO HIGH DTC B1702 DRIVER BUCKLE PRETENSIONER RESISTANCE TOO LOW DTC B1706 PASSENGER BUCKLE PRETENSIONER RESISTANCE TOO HIGH DTC B1707 PASSENGER BUCKLE PRETENSIONER RESISTANCE TOO LOW

DTC DESCRIPTION E1A8A65E

The Buckle Pretensioner circuit consists of the SRSCM and two Buckle Pretensioners (BUPT). The SRSCM sets above DTC(s) if it detects that the resistance of BUPT squib is too high or low.

DTC DETECTING CONDITION E4C214AB

DTC	Condition	Probable cause
B1701 B1702 B1706 B1707	 Too high or low resistance between BUPT high(+) and BUPT low (-) Seat Buckle Pretensioner (BUPT) Malfunction SRSCM Malfunction 	 Open or short circuit on wiring harness Seat Buckle Pretensioner (BUPT) squib SRSCM

SCHEMATIC DIAGRAM EFECB569



SPECIFICATION E7FDDB5B

BUPT resistance : 1.905 ~ 2.769 (Driver), 1.912 ~ 2.776 (Passenger)

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TERMINAL & CONNECTOR INSPECTION EA5B7C9D

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

INSPECTION PROCEDURE E9EF03AF

- 1. PREPARATION Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)
- 2. CHECK BUPT RESISTANCE

Never attempt to measure the circuit resistance of the airbag module(squib) even if you are using the specified tester.

- Connect the Dummy and the Dummy Adapter on BUPT harness connector.

 Refer to "SPECIAL SERVICE TOOL" section in this SERVICE MANUAL for the SST No. of Dummy and Dummy Adapter.
- 2) Measure resistance between the terminal 16(13) and 15(14) of SRSCM harness connector.

BUPT resistance : 1.905 ~ 2.769Ω (Driver), 1.912 ~ 2.776Ω (Passenger)

3) Is the measured resistance within specification?



Replace the Buckle Pretensioner(BUPT) module.



- Check open circuit.
- 3. CHECK OPEN CIRCUIT
 - 1) Measure resistance between the terminal 1 of BUPT harness connector and the terminal 16(13) of SRSCM harness connector.
 - 2) Measure resistance between the terminal 2 of BUPT harness connector and the terminal 15(14) of SRSCM harness connector.

specification(resistance) : below 1 Ω

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RESTRAINTS



ERBF502M

3) Is the measured resistance within specification?



Check short circuit.



▶ Repair or replace the wiring harness between the BUPT and the SRSCM.

4. CHECK SHORT CIRCUIT

1) Measure resistance between the terminal 1 and 2 of BUPT harness connector.

specification(resistance) : infinite



ERBF502N

2) Is the measured resistance within specification?



Go to next step.



- ▶ Repair or replace the wiring harness between the BUPT and the SRSCM.
- 5. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

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DTC B1703 DRIVER BUCKLE PRETENSIONER SHORT TO GROUND DTC B1708 PASSENGER BUCKLE PRETENSIONER SHORT TO GROUND

DTC DESCRIPTION ED12DACF

The Buckle Pretensioner circuit consists of the SRSCM and two Buckle Pretensioners (BUPT). The SRSCM sets above DTC(s) if it detects short to ground on the BUPT circuit.

DTC DETECTING CONDITION E900CF7D

DTC	Condition	Probable cause
B1703 B1708	 Short to ground between BUPT and SRSCM Seat Buckle Pretensioner (BUPT) Malfunction SRSCM Malfunction 	 Short to ground circuit on wiring harness Seat Buckle Pretensioner (BUPT) squib SRSCM

SCHEMATIC DIAGRAM EB4F2DBB



TERMINAL & CONNECTOR INSPECTION ECB5FBBE

Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

INSPECTION PROCEDURE E5BBAA4D

1. PREPARATION

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RESTRAINTS

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Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

2. CHECK SHORT TO GROUND

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1) Measure resistance between the terminal 1 of BUPT harness connector and chassis ground.

specification(resistance) : infinite



ERBF005F

- 2) Is the measured resistance within specification?
- YES ► Check the BUPT Module.

Repair or replace the wiring harness between the BUPT and the SRSCM.

- 3. CHECK THE BUPT MODULE
 - Replace the Buckle Pretensioner(BUPT) with a new one.
 Refer to "Buckle Pretensioner(BUPT)" section in this SERVICE MANUAL.
 - 2) Install the DAB module and connect the DAB connector.
 - 3) Connect the connectors of the PAB, SAB, CAB, BPT, BUPT, FIS and SIS.
 - 4) Connect the SRSCM connector.
 - 5) Connect the battery negative cable to the battery.
 - 6) Connect a Hi-Scan(Pro) to the data link connector.
 - 7) Turn the ignition switch to ON and check the vehicle again. Does Hi-Scan (Pro) indicate any DTC related to Buckle Pretensioner(BUPT)?



Go to next step.



- ▶ Replace BUPT module.
- 4. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

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<u>R</u>T -143

DTC B1704 DRIVER BUCKLE PRETENSIONER SHORT TO BATTERY DTC B1709 PASSENGER BUCKLE PRETENSIONER SHORT TO BATTERY

DTC DESCRIPTION ED936DFD

The Buckle Pretensioner circuit consists of the SRSCM and two Buckle Pretensioners (BUPT). The SRSCM sets above DTC(s) if it detects short to battery on the BUPT circuit.

DTC DETECTING CONDITION E534BDF0

DTC	Condition	Probable cause
B1704 B1709	 Short to battery between BUPT and SRSCM Seat Buckle Pretensioner (BUPT) Malfunction SRSCM Malfunction 	 Short to battery line circuit on wiring harness Buckle Pretensioner(BUPT) squib SRSCM

SCHEMATIC DIAGRAM E70CD2D2



TERMINAL & CONNECTOR INSPECTION EBFB06FA

Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

INSPECTION PROCEDURE EOF6BAA8

1. PREPARATION

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

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RESTRAINTS

- 2. CHECK SHORT TO BATTERY LINE
 - 1) Connect the battery negative cable to the battery.
 - 2) Turn the ignition switch to ON.
 - 3) Measure voltage between the terminal 1 of BUPT harness connector and chassis ground.





- 3. CHECK THE BUPT MODULE
 - Replace the Buckle Pretensioner(BUPT) with a new one.
 Refer to "Buckle Pretensioner(BUPT)" section in this SERVICE MANUAL.
 - 2) Install the DAB module and connect the DAB connector.
 - 3) Connect the connectors of the PAB, SAB, CAB, BPT, BUPT, FIS and SIS.
 - 4) Connect the SRSCM connector.
 - 5) Connect the battery negative cable to the battery.
 - 6) Connect a Hi-Scan(Pro) to the data link connector.
 - Connect a Hi-Scan(Pro) to the data link connector.
 Does Hi-Scan (Pro) indicate any DTC related to Buckle Pretensioner(BUPT)?



▶ Go to next step.



▶ Replace BUPT module.

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TROUBLESHOOTING

4. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)



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RESTRAINTS

DTC B2500 SRS WARNING LAMP FAULT

DTC DESCRIPTION E94AAE61

The SRS warning lamp is located in the cluster. When the airbag system is normal, the SRS warning lamp turns on for approx. 6 seconds after the ignition switch is turned to ON, and then turns off automatically. If there is a malfunction in the airbag system, the SRS warning lamp lights up to inform the driver of the abnormality. The SRSCM shall measure the voltage at the SRS warning lamp output pin, both when the lamp is on and when the lamp is off, to detect whether the commanded state matches the actual state.

DTC DETECTING CONDITION EDEB4A4B

DTC	Condition	Probable cause				
B2500	 Airbag fuse Warning Lamp Bulb Open between warning lamp and SRSCM Short to ground or battery line between the warning lamp and SRSCM SRSCM Malfunction 	FuseWarning lamp bulbWiring HarnessSRSCM				

SCHEMATIC DIAGRAM E40E535F

Instrument Cluster	IG1		[Instrumen	t Clust	er]		C	Ľ			2
	ودرو سامانه	يجيئال حو	Terminal		Conn	ected	to		Fun	ction	
2			2			G1		В	attery	Volta	ge
ران جوجا و در ایران	تال تعميركا	امانه ديجيا	⊎Ú3-9	SRS	СМ Т	ermin	al 1(A	.) I	_amp	Cont	ol
(Bulb)		SRSCM									
	1(A)										
	•										
	L										
[HARNESS CONNECTOR]											
	6 5 4	3 2	10 9	8	7	6	5	4	3	2	1
8 * 6 5 4 3 2 1	12 11 10 18 17 16	9 8 7 15 14 13	20 19 30 29	18 28	17 27	16 26	15 25	14 24	13 23	12 22	11 21
16 15 14 * 12 * 10 9	16 17 16 24 23 22	15 14 13 21 20 19	40 39	38	37	36	25 35	24 34	33	32	31
	CONNECT	OR A			C	ONNE	CTOR E	3	Sh	orting E	ar
INSTRUMENT CLUSTER			SRSCM								
											ERBF201

TERMINAL & CONNECTOR INSPECTION E7B1FDA3

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

TROUBLESHOOTING

INSPECTION PROCEDURE EDF952B4

- 1. PREPARATION Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)
- 2. CHECK THE FUSE
 - 1) Remove the airbag fuse and the airbag warning lamp fuse from junction box.
 - 2) Inspect the fuses. Are the fuses normal?

YES

Check the warning lamp bulb.



- Repair or replace the fuses.
- 3. CHECK THE WARNING LAMP BULB
 - 1) Remove the bulb from the instrument cluster.



- 1) Connect the battery negative cable to the battery.
- 2) Turn the ignition switch to ON.
- 3) Measure voltage between the terminal 2 of the Instrument Cluster harness connector and chassis ground.

Specification (voltage) : 9 ~ 16.5 V



4) Is the measured voltage within specification?

LRJF201B

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RESTRAINTS

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YES

Check short to battery line.



- ▶ Repair or replace the wiring harness between ignition switch and the Warning Lamp.
- 5. CHECK SHORT TO BATTERY LINE
 - 1) Measure voltage between the terminal 3 of the Instrument Cluster harness connector and chassis ground.



- 6. CHECK SHORT OR SHORT TO GROUND
 - 1) Turn the ignition switch to LOCK.
 - 2) Disconnect the battery negative cable from the battery.
 - 3) Measure resistance between the terminal 3 of the Instrument Cluster harness connector and chassis ground.
 - 4) Measure resistance between the terminal 3 and 2 of the Instrument Cluster harness connector.

Specification (resistance) : infinite

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TROUBLESHOOTING



LRJF201D

5) Is the measured resistance within specification?



Check open circuit.



▶ Repair the short or short to ground circuit on wiring harness between the SRSCM and the Warning Lamp.

7. CHECK OPEN CIRCUIT

 Measure resistance between the terminal 3 of the Instrument Cluster connector and the terminal 1 of SRSCM harness connector(A).

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Specification (resistance) : below 1 \Omega
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LRJF201E

2) Is the measured resistance within specification?



▶ Go to next step.



- ▶ Repair the open circuit on wiring harness between the SRSCM and the Warning Lamp.
- 8. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)

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RT -150

RESTRAINTS

DTC B2505 PASSENGER AIRBAG DEACTIVATION LAMP FAULT

DTC DESCRIPTION EB37F5CA

The SRSCM shall detect and record the following situations. And a single fault code shall be assigned as PAD Lamp Fault for all PAD lamp fault conditions. This fault code shall be set whenever either of the fault conditions is detected. If both fault conditions are not detected, the fault code shall not be detected.

- 1. The bulb is short, or there is a short to battery condition on the PAD lamp input connection to the SRSCM. This condition is only detectable while the PAD lamp is commanded ON. If a short to battery condition is detected, the PAD lamp shall be commanded OFF for 15 seconds to protect the circuit.
- 2. The bulb is open, or there is a short to ground condition. This condition is only detectable while the PAD lamp is commanded OFF. If the PAD lamp is ON and a short to ground condition is present, the SRSCM shall command the PAD lamp OFF for a maximum of 1ms during each diagnostic cycle.

DTC DETECTING CONDITION EE99B95B

DTC	Condition	Probable cause
B2505	 PAD lamp bulb open or short Open between PAD lamp and SRSCM Short to ground or battery line between PAD lamp and SRSCM SRSCM malfunction 	FusePAD lamp bulbWiring HarnessSRSCM

SCHEMATIC DIAGRAM E4BC358D



ERBF500V

TROUBLESHOOTING

TERMINAL & CONNECTOR INSPECTION E11FDFA8

Refer to the DESCRIPTION in this TROUBLESHOOTING part. (See page RT - 42)

INSPECTION PROCEDURE E83DF308

- 1. PREPARATION Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)
- 2. CHECK THE FUSE
 - 1) Remove the airbag fuse and the PAD lamp fuse from junction box.
 - 2) Inspect the fuses. Are the fuses normal?



Check the PAD lamp bulb.



- Repair or replace the fuses.
- 3. CHECK THE PAD LAMP BULB
 - 1) Remove the bulb from the instrument cluster.
 - 2) Inspect the bulb. Is the bulb normal?

YES

- Check source voltage.
 - NO
 - Repair or replace the bulb.
- 4. CHECK SOURCE VOLTAGE
 - 1) Connect the battery negative cable to the battery.
 - 2) Turn the ignition switch to ON.
 - 3) Measure voltage between the terminal 5 of the Instrument Cluster harness connector and chassis ground.

Specification (voltage) : 9 ~ 16.5 V



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RESTRAINTS

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ON PAD Lamp IG1 23(A)O = SRSCM

ERBF510C

4) Is the measured voltage within specification?

YES

Check short to battery line.



Repair or replace the wiring harness between ignition switch and the PAD Lamp.

5. CHECK SHORT TO BATTERY LINE

1) Measure voltage between the terminal 15 of the Instrument Cluster harness connector and chassis ground.

Specification (voltage) : Approximately 0 V



ERBF510D

2) Is the measured voltage within specification?



Check short or short to ground.

NO

- ▶ Repair the short to battery line circuit on wiring harness between the SRSCM and the PAD Lamp.
- 6. CHECK SHORT OR SHORT TO GROUND
 - 1) Turn the ignition switch to LOCK.
 - 2) Disconnect the battery negative cable from the battery.

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TROUBLESHOOTING

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- 3) Measure resistance between the terminal 15 of the Instrument Cluster harness connector and chassis ground.
- 4) Measure resistance between the terminal 5 and 15 of the Instrument Cluster harness connector.

Specification (resistance) : infinite



ERBF510E

5) Is the measured resistance within specification?



7. CHECK OPEN CIRCUIT

 Measure resistance between the terminal 15 of the Instrument Cluster connector and the terminal 23 of SRSCM harness connector(A).

Specification (resistance) : below 1 Ω



ERBF510F

2) Is the measured resistance within specification?

YES

Go to next step.



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RESTRAINTS

- ▶ Repair the open circuit on wiring harness between the SRSCM and the PAD Lamp.
- 8. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 42)



AIR BAG MODULE DISPOSAL

AIR BAG MODULE DISPOSAL

AIRBAG DISPOSAL EB8D657D

SPECIAL TOOL REQUIRED

Deployment tool 0957A-34100A

Before scrapping any airbags or side airbags (including those in a whole vehicle to be scrapped), the airbags or side airbags must be deployed. If the vehicle is still within the warranty period, before deploying the airbags or side airbags, the Technical Manager must give approval and/or special instruction. Only after the airbags or side airbags have been deployed (as the result of vehicle collision, for example), can they be scrapped.

If the airbags or side airbags appear intact (not deployed), treat them with extreme caution. Follow this procedure.

DEPLOYING AIRBAGS IN THE VEHICLE

If an SRS equipped vehicle is to be entirely scrapped, its airbags or side airbags should be deployed while still in the vehicle. The airbags or side airbags should not be considered as salvageable parts and should never be installed in another vehicle.

- 1. Turn the ignition switch OFF, and disconnect the battery negative cable and wait at least three minutes.
- 2. Confirm that each airbag or side airbag is securely mounted.
- 3. Confirm that the special tool is functioning properly by following the check procedure.

DRIVER'S AIRBAG :

- 1. Remove the driver's airbag and install the SST(0957A-38500).
- 2. Install the driver's airbag on the steering wheel.

FRONT PASSENGER'S AIRBAG :

- 1. Remove the glove box, then disconnect the 2P connector between the front passenger's airbag and SRS main harness.
- 2. Install the SST(0957A-38500).

SIDE AIRBAG :

- 1. Disconnect the 2P connector between the side airbag and side wire harness.
- 2. Install the SST (0957A-3F100).

CURTAIN AIRBAG :

- 1. Disconnect the 2P connector between the curtain airbag and wire harness.
- 2. Install the SST(0957A-38500).

SEAT BELT BUCKLE PRETENSIONER :

- 1. Disconnected thd 6p connector between the buckle pretensioner and buckle pretensioner wire harness.
- 2. Install the SST(0957A-2E210).

SEAT BELT PRETENSIONER :

- 1. Disconnect the 2P connector from the seat belt pretensioner.
- 2. Install the SST(0957A-38500).
- 3. Place the deployment tool at least thirty feet (10 meters) away from the airbag.
- 4. Connect a 12 volt battery to the tool.
- 5. Push the tool's deployment switch. The airbag should deploy (deployment is both highly audible and visible: a loud noise and rapid inflation of the bag, followed by slow deflection)
- 6. Dispose of the complete airbag. No part of it can be reused. Place it in a sturdy plastic bag and seal it securely.



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RESTRAINTS

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DEPLOYING THE AIRBAG OUT OF THE VEHICLE

If an intact airbag has been removed from a scrapped vehicle, or has been found defective or damage during transit, storage or service, it should be deployed as follows :

- 1. Confirm that the special is functioning properly by following the check procedure on this page.
- 2. Position the airbag face up, outdoors on flat ground at least thirty feet (10meters) from any obstacles or people.

DISPOSAL OF DAMAGED AIRBAG

- 1. If installed in a vehicle, follow the removal procedure of driver's airbag front passenger's and side airbag.
- 2. In all cases, make a short circuit by twisting together the two airbag inflator wires.
- 3. Package the airbag in exactly the same packing that the new replacement part come in.



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