Restraints

GENERAL

GENERAL E53BEEC8

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 driver and passenger seat contain the folded cushion and an inflator unit.
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.

1. 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.

4. 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)

5. 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 blink 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 the fault clearing should not happen.

7. 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.

9. 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.

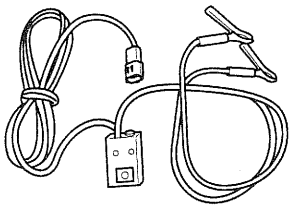
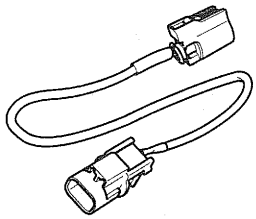
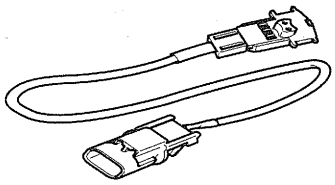
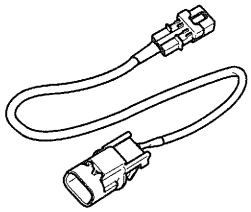
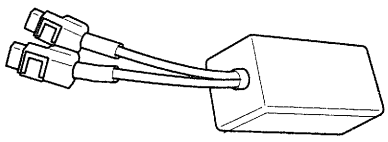
SPECIFICATION ED1EE56F

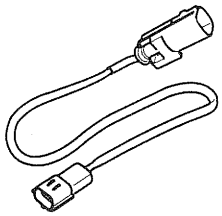
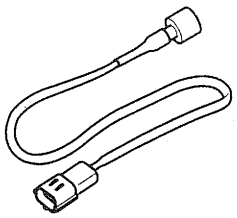
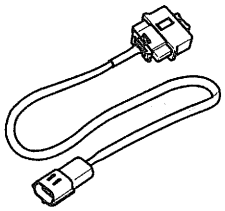
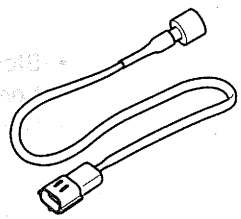
Item	Resistance (Ω)
Driver Airbag (DAB)	1.6 ~ 6.1
Passenger Airbag (PAB)	1.6 ~ 6.1
Side Airbag (SAB)	1.6 ~ 6.1
Seat Belt Pretensioner (BPT)	1.6 ~ 6.1

TIGHTENING TORQUES E3E794CE

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 : 0.8 ~ 0.9 Nut : 0.1 ~ 0.2	8.0 ~ 9.1 1.2 ~ 1.8	5.9 ~ 6.7 0.9 ~ 1.3
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	0.8 ~ 1.0	7.9 ~ 9.8	5.8 ~ 7.2
Side Impact Sensor (SIS) Mounting Bolt	0.8 ~ 1.0	7.9 ~ 9.8	5.8 ~ 7.2

SPECIAL SERVICE TOOLS E1FD4ED4

Tool(Number and Name)	Illustration	Use
Deployment tool 0957A-34100A	 ARIE500A	Airbag deployment tool
Deployment adapter 0957A-3F100	 ERKD001F	Use with deployment tool. (SAB)
Deployment adapter 0957A-38500	 ARIE500C	Use with deployment tool. (DAB, BPT)
Deployment adapter 0957A-38100	 ARIE500B	Use with deployment tool. (PAB)
Dummy 0957A-38200	 ARIE500D	Simulator to check the resistance of each wiring harness

Tool(Number and Name)	Illustration	Use
Dummy adapter 0957A-3F000	 ERKD001G	Use with dummy (SAB)
Dummy adapter 0957A-1C000	 ARIE500F	Use with dummy (DAB)
Dummy adapter 0957A-38300	 ARIE500E	Use with dummy (PAB)
Dummy adapter 0957A-38400	 ARIE500F	Use with dummy (BPT)

DAB : Driver Airbag
PAB : Passenger Airbag
SAB : Side Airbag
BPT : Belt Pretensioner

PRECAUTIONS E49A2A46

GENERAL PRECAUTIONS

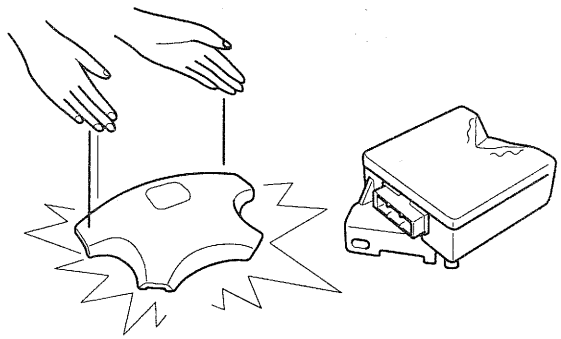
Please read the following precautions carefully before performing the airbag system service. Observe the instructions described in this manual, or the airbags could accidentally deploy and cause damage or injuries.

- 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.



ERKD002V

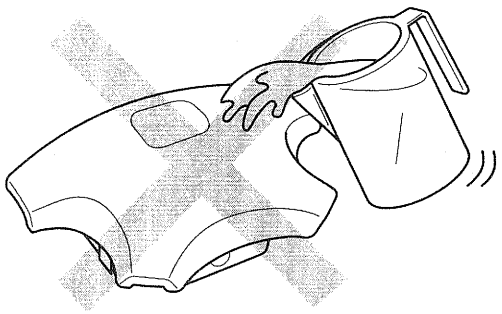
- Before removing any of the SRS parts (including the disconnection of the connectors), always disconnect the SRS connector.

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.



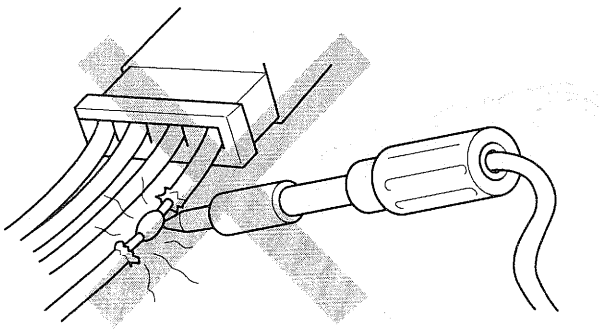
ERKD002Z

- 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

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.

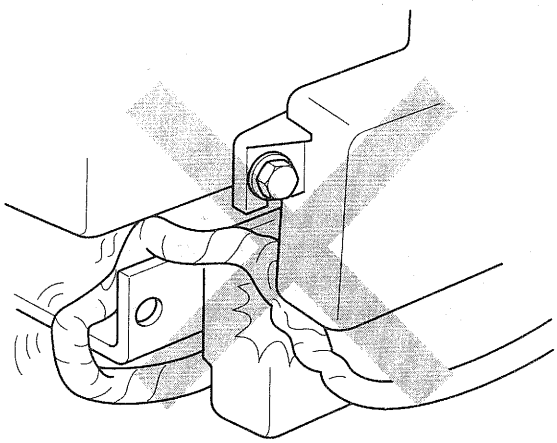
WIRING PRECAUTIONS

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.



ERKD002Y

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

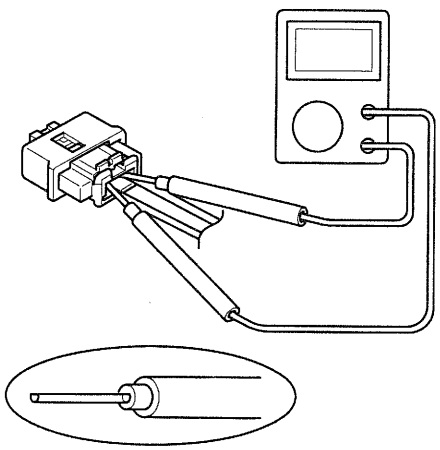


ERKD002X

- Make sure all SRS ground locations are clean, and grounds are securely fastened for optimum metal-to-metal 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.



ERKD002W

- Use a u-shaped probe. Do not insert the probe forcibly.

- Use specificed service connectors for troubleshooting.
  Using improper tools could cause an error in inspection due to poor metal contact.

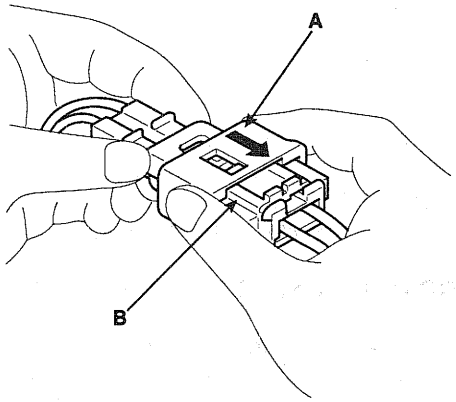
SPRING-LOADED LOCK CONNECTOR

Some SRS system connectors have a spring-loaded lock.

AIRBAG CONNECTOR(I)

DISCONNECTING

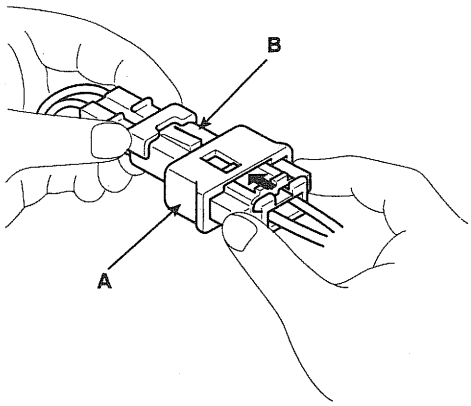
To release the lock, pull the spring-loaded sleeve (A) toward the stop (B) while holding the opposite half of the connector. Then pull the connector halves apart. Be sure to pull on the sleeve and not on the connector half.



ERKD511A

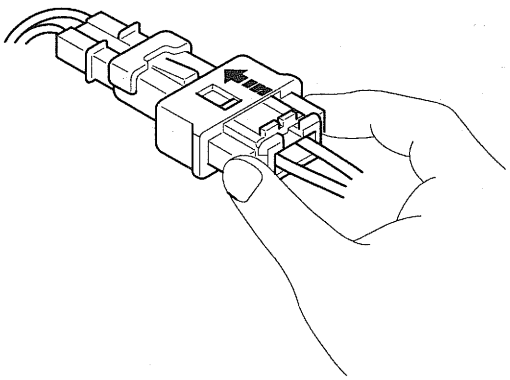
CONNECTING

1. 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.



ERRF501P

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

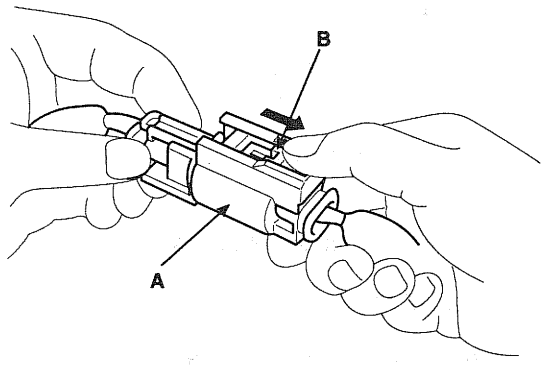


ERKD511C

AIRBAG CONNECTOR(II)

DISCONNECTING

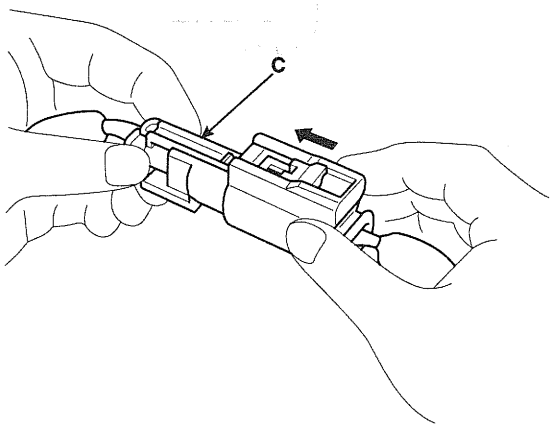
To release the lock, pull the spring-loaded sleeve (A) and the slider (B), while holding the opposite half of the connector. Pull the connector halves apart. Be sure to pull on the sleeve and not on the connector half.



ERKD511D

CONNECTING

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



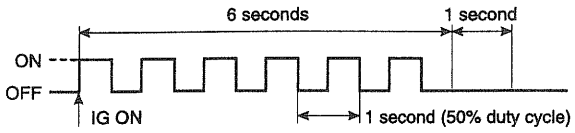
ERKD511E

WARNING LAMP ACTIVATION ED503A8B

WARNING LAMP OPERATION DURING PROVE-OUT PHASE

(CASE 1) POWER-UP OPERATION WITH NO CURRENT FAULTS OR HISTORICAL FAULTS OR STORED CRASH RECORDS

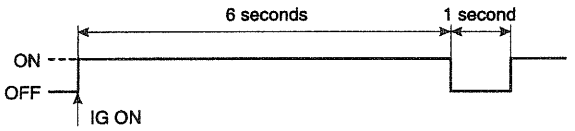
The SRSCM shall perform a warning lamp bulb check. The lamp shall blink for 6 seconds (±10%), at 1Hz (± 10%), 50% duty cycle (± 10%), during the module power-on prove-out phase and be turned off afterwards.



LRGE001K

(CASE 2) POWER-UP OPERATION WITH RECORDED CRASH FROM PRIOR IGNITION CYCLE, AN ACTIVE FAULT OR AT LEAST 10 DIFFERENT FAULT QUALIFICATIONS

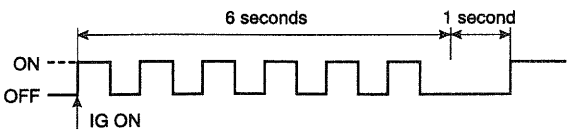
The SRSCM shall perform a warning lamp check for 1 second after the initial 6 second prove-out period. If a recorded crash or an active fault is present at power-up or at least 10 different fault qualifications have been recorded, the airbag warning lamp output will be activated ON immediately after the 1 second lamp check.



LRGE001L

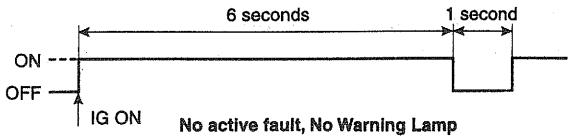
(CASE 3) POWER-UP OPERATION WITH CURRENT FAULT DETECTED AND QUALIFIED DURING PROVE-OUT (NO RECORDED CRASH OR HISTORICAL FAULTS DETECTED)

When a current fault is detected at power-up, the lamp will not be affected until the end of prove-out. The lamp will blink normally at the rate defined in Case #1 above.



LRGE001M

(CASE 4) POWER-UP OPERATION WITH LESS THAN 10 HISTORICAL FAULTS RECORDED AND NO FAULTS AT BEGINNING OF THE PROVE-OUT PHASE AND NO CURRENT FAULTS QUALIFIED DURING PROVE-OUT

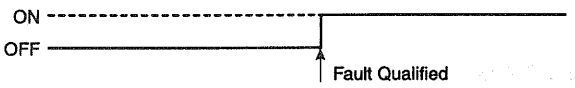


LRGE001N

NORMAL WARNING LAMP OPERATION AFTER PROVE-OUT PHASE

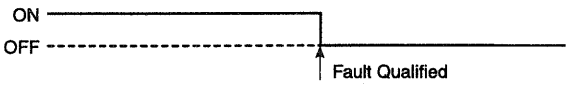
The airbag warning lamp shall be activated "ON" continuously during the following conditions:

1. A current fault condition is present after prove-out phase
2. Loss of internal operating voltage (Vdd)
3. During SRSCM reset
4. Hi-Scan (Pro) communication is active, the SRSCM resets at the end of communication.



LRGE001O

The airbag warning lamp shall be deactivated (OFF), after a fault is dequalified.



LRGE001P

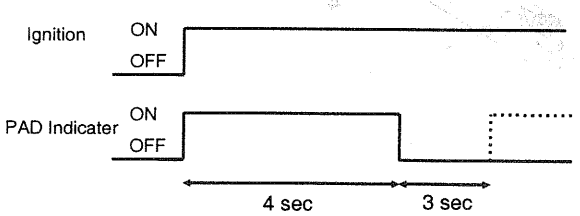
SRSCM INDEPENDENT WARNING LAMP ACTIVATION

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:

1. Loss of battery supply to the SRSCM : warning lamp turned on continuously.
2. Loss of internal operating voltage : warning lamp turned on continuously.
3. Loss of microcomputer operation : warning lamp turned on continuously.
4. SRSCM not connected : warning lamp turned on continuously through the shorting bar.

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.



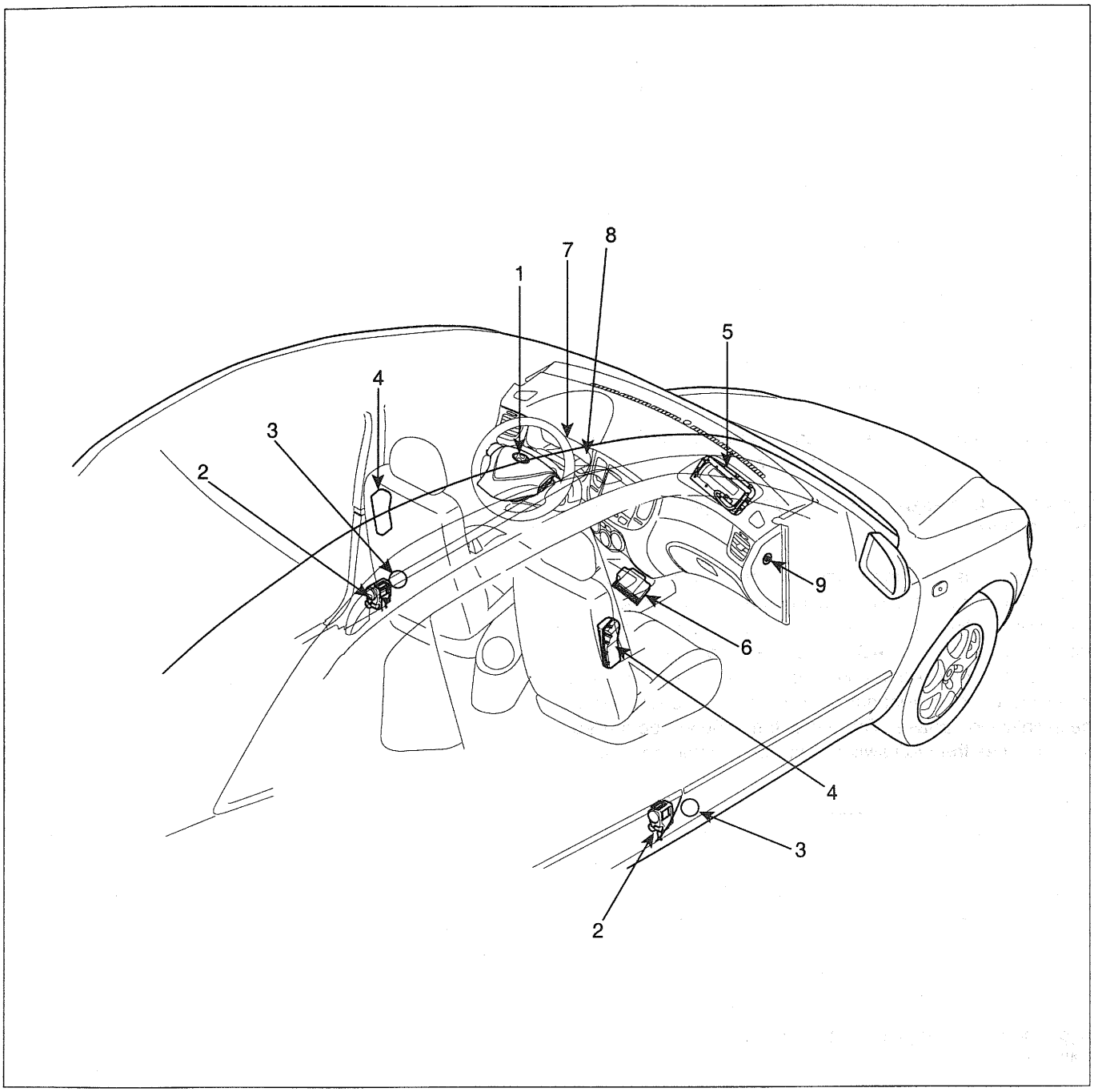
ERRF501U

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	PAB
Phase-up	ON → OFF	Default
Enabled position	OFF	Enable
Disabled position	ON	Disable
Fault	OFF	Default

COMPONENTS E63D1ECA

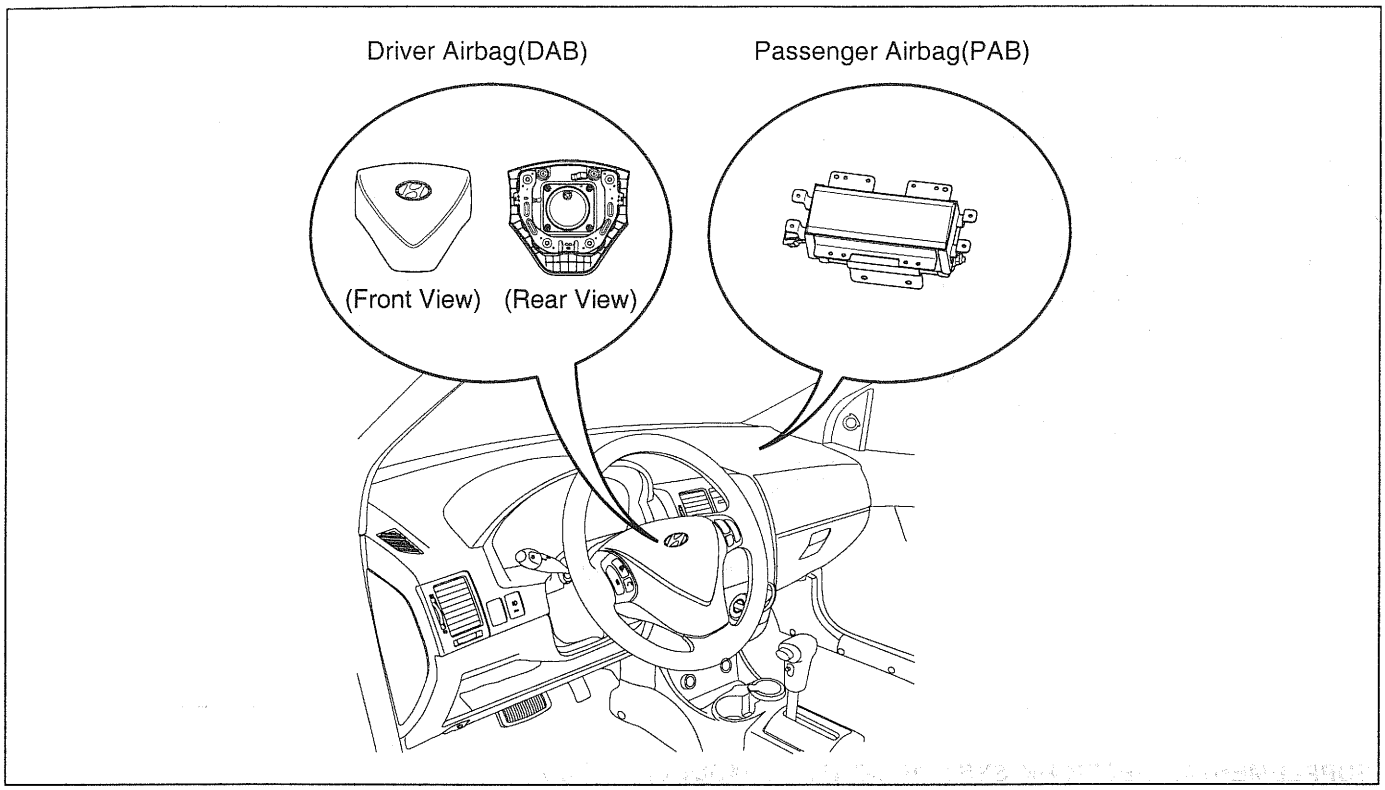


1. Driver Airbag (DAB)
2. Seat Belt Pretensioner (BPT)
3. Side Impact Sensor (SIS)
4. Side Airbag (SAB)
5. Passenger Airbag (PAB)
6. Supplemental Restraint System Control Module(SRSCM)
7. Airbag Warning Lamp
8. Passenger Airbag Deactivation (PAD) Lamp
9. PAD Switch

ERPG500A

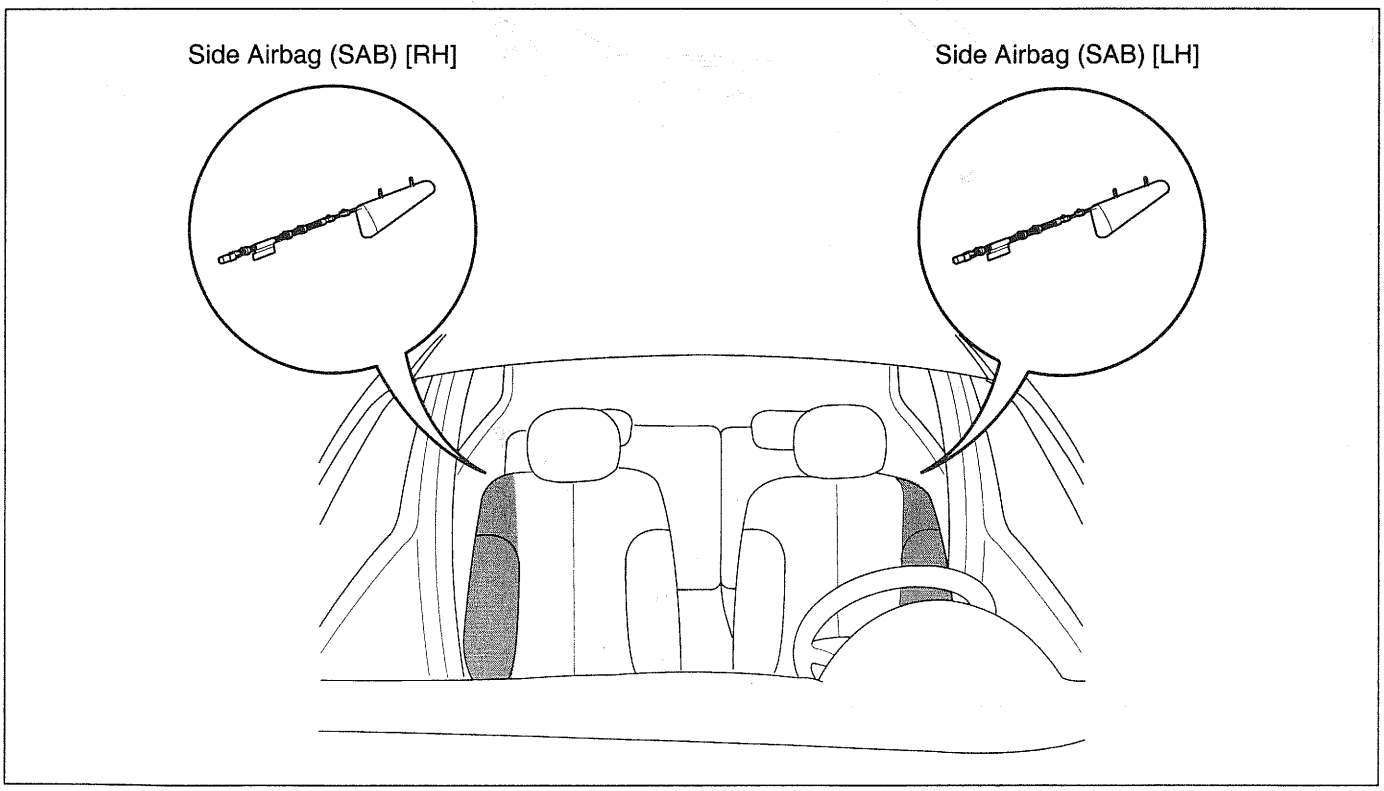
COMPONENTS LOCATION

DRIVER AIRBAG(DAB) / PASSENGER AIRBAG(PAB)



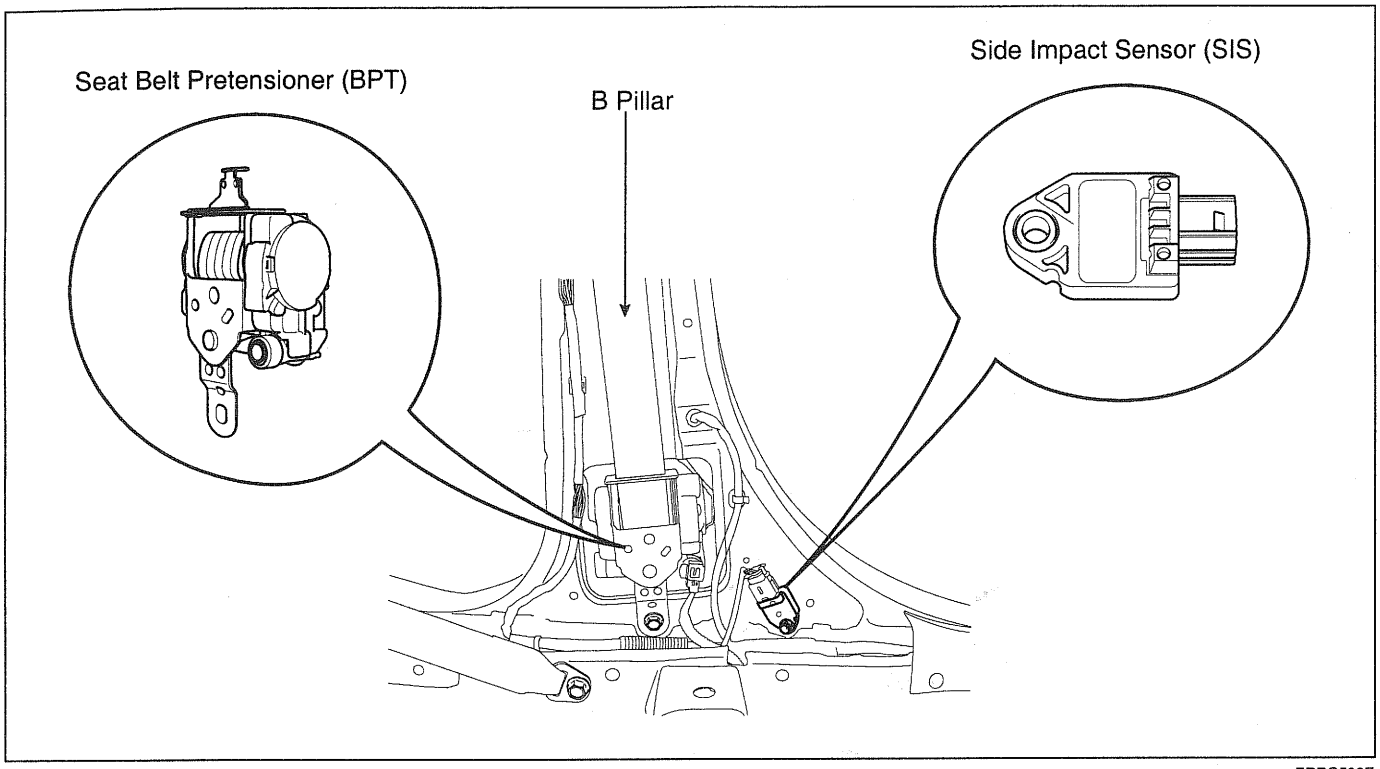
ERPG500B

SIDE AIRBAG (SAB)



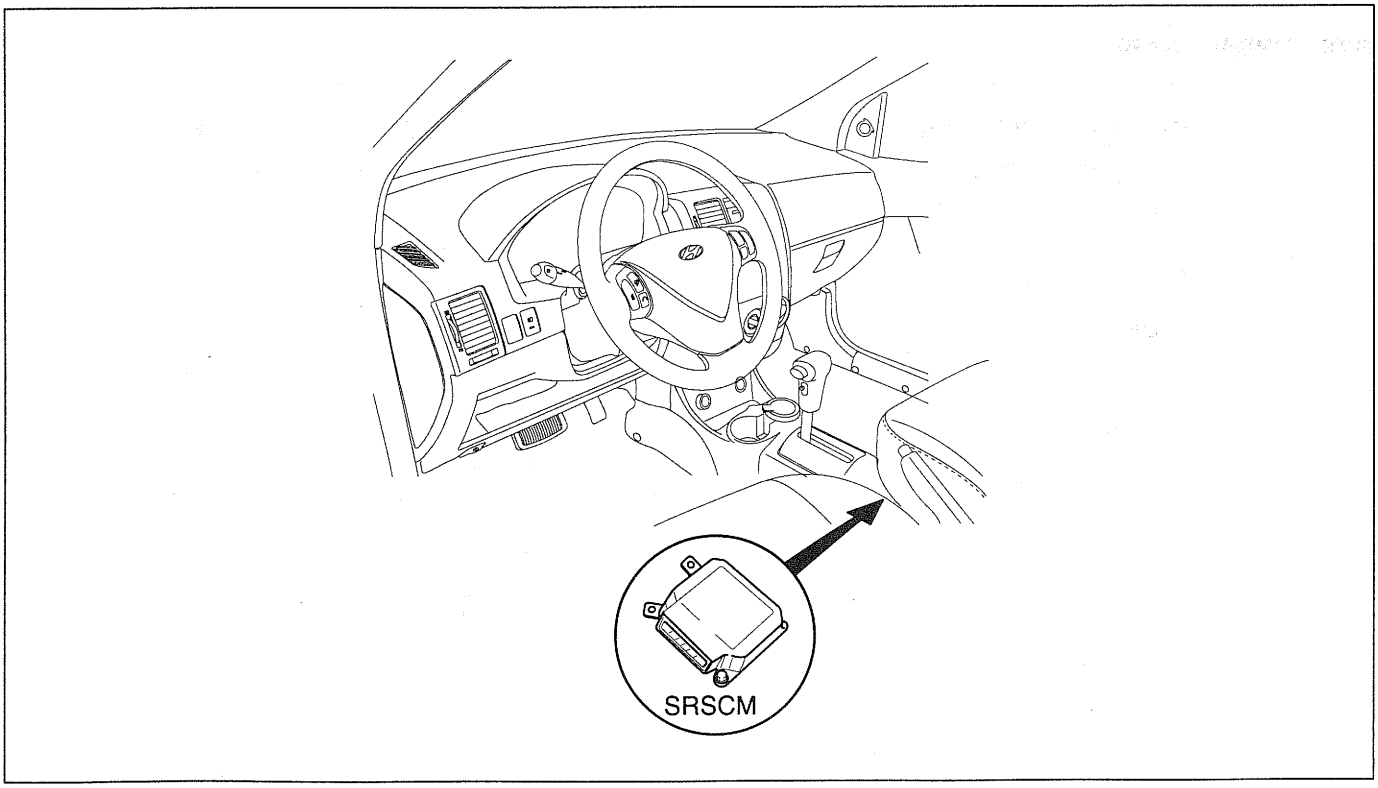
ERPG500C

SEAT BELT PRETENSIONER(BPT) / SIDE IMPACT SENSOR(SIS)



ERPG500E

SUPPLEMENTAL RESTRAIN SYSTEM CONTROL MODULE(SRSCM)



ERPG500W

COMPONENT REPLACEMENT AFTER DEPLOYMENT

> **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)
- 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)
- SRS wiring harnesses

When the side 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 blink for about 6 seconds and then go off.

SUPPLEMENTAL RESTRAINTS SYSTEM CONTROL MODULE(SRSCM)

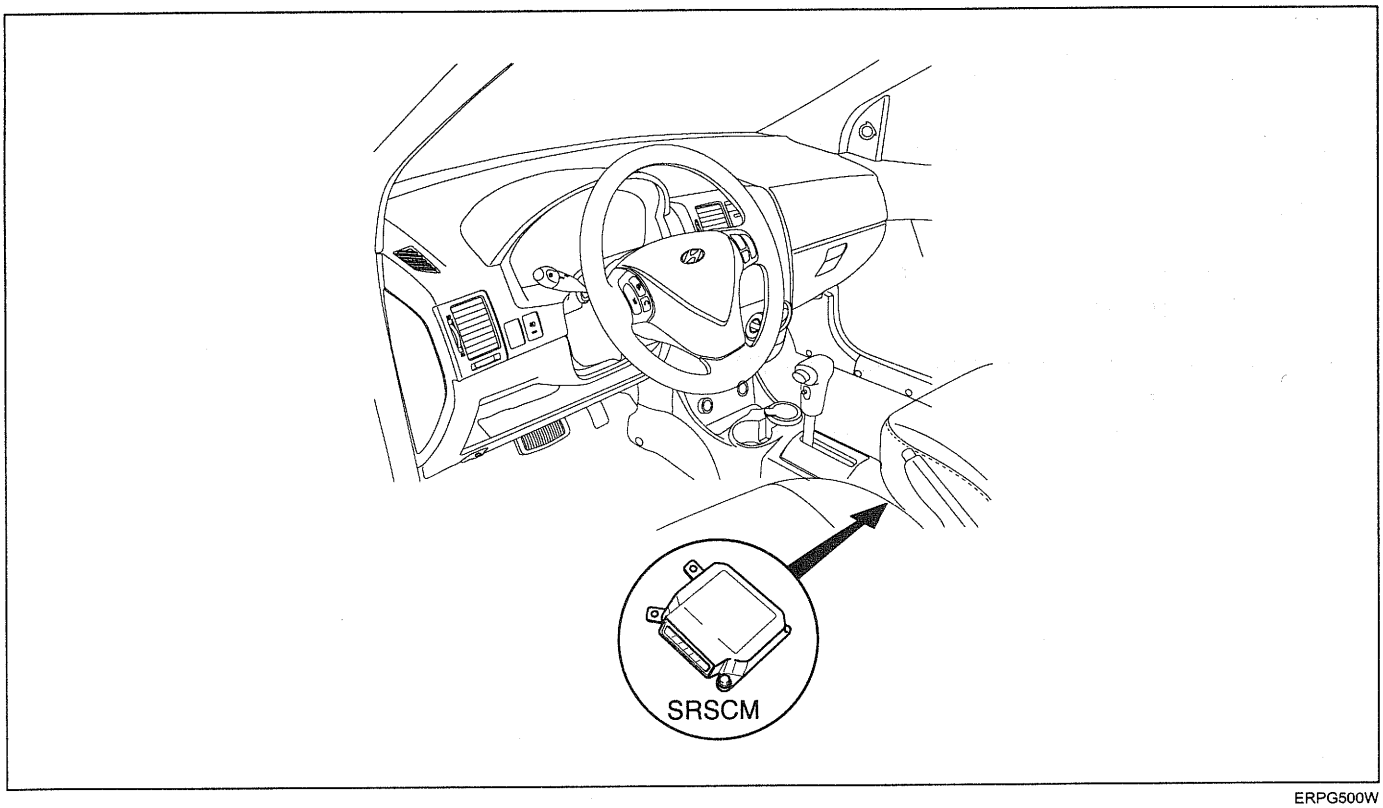
SRS CONTROL MODULE

DESCRIPTION EADBFC43

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.

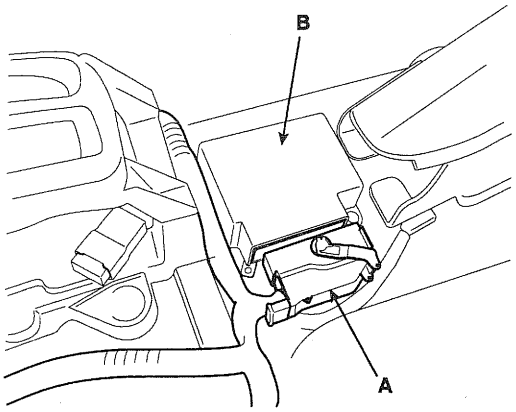
COMPONENTS EAF3C3C7



ERPG500W

REMOVAL E1DA6328

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



ERPG101G

6. Remove the SRSCM mounting bolts from the SRSCM, then remove the SRSCM.

INSTALLATION EAE7ED57

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

Tightening Torque (SRSCM Mounting Bolt)
: 0.8 ~ 1.0 kgf.m (7.9 ~ 9.8 Nm, 5.8 ~ 7.2 lb.ft)

4. Connect the SRSCM harness connector.
5. Install the floor console. (Refer to BD group)
6. Connect the DAB, PAB, SAB and BPT 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 blink for about six seconds and then go off.

AIR BAG MODULE (DRIVE SIDE)

AIR BAG MODULE AND CLOCK SPRING

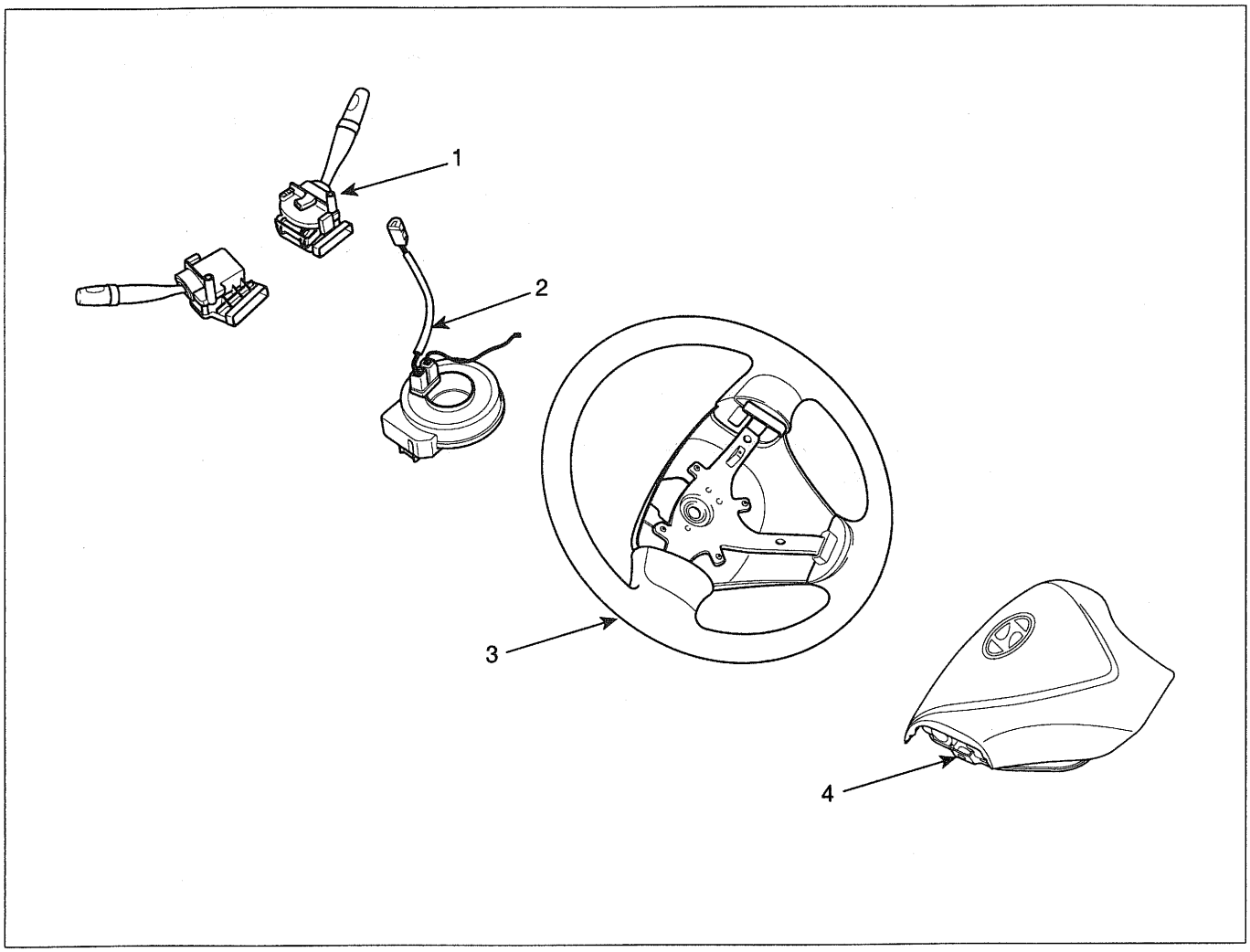
DESCRIPTION E8E2BE76

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).

⚠ ***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 EEB9DC7E

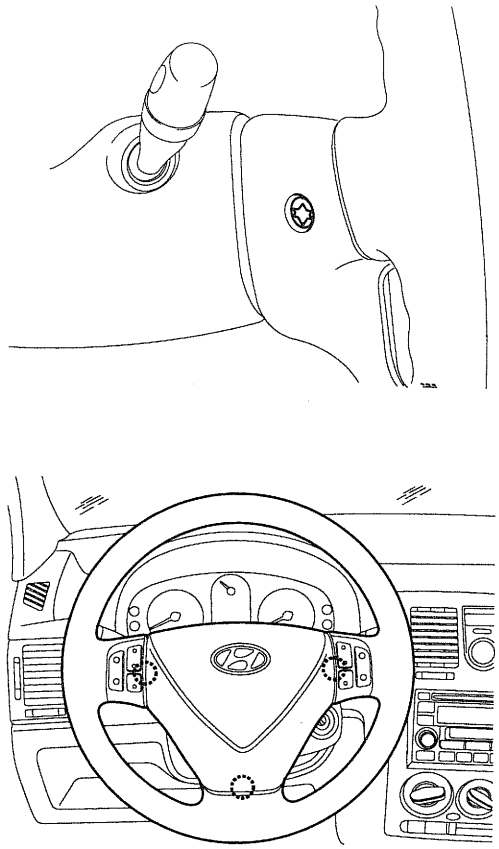


1. Multi-Function Switch
2. Clock Spring
3. Steering Wheel
4. Driver Airbag (DAB)

ERPG500F

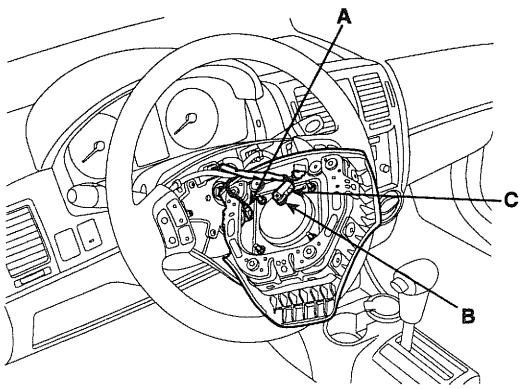
REMOVAL EAAD3AFB

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



ERPG102B

3. Disconnect the horn connector(A).



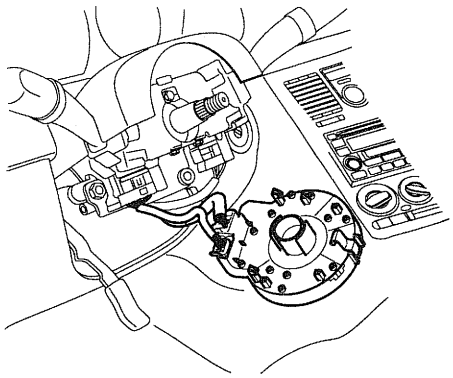
ERPG102C

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

⚠ ***CAUTION***

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 in the Workshop Manual).
6. Disconnect the clock spring and horn connector, then remove the clock spring.



ERPG102F

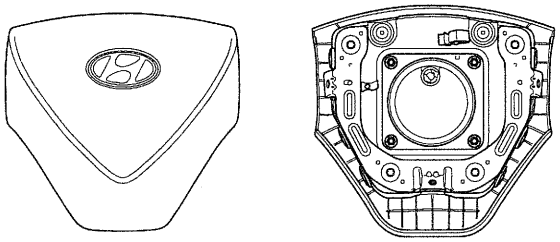
INSPECTION E19BBC8A

DRIVER AIRBAG (DAB)

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

> ⚠ *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.***

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.



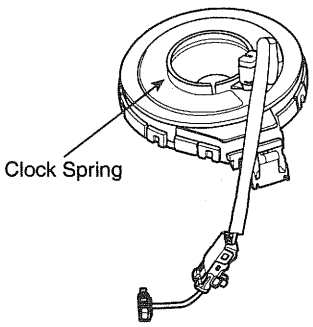
(Front View) (Rear View)

ERPG400X

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

CLOCKSPRING

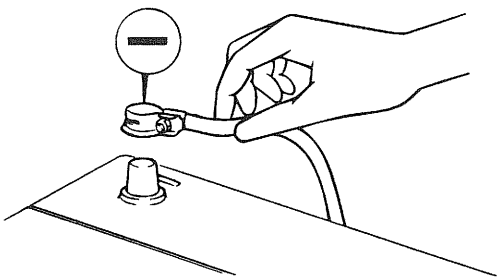
1. If, as a result of the following checks, even one abnormal point is discovered, replace the clock spring with a new one.
2. Check connectors and protective tube for damage, and terminals for deformities.



LRJF500J

INSTALLATION E8EC387B

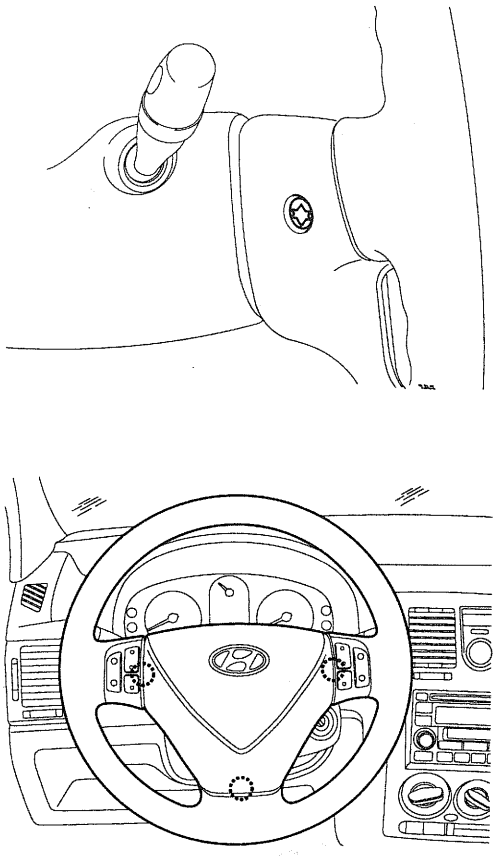
1. Disconnect the negative (-) cable from battery and wait for at least three minutes.



ARCD512A

2. Remove ignition key from the vehicle.
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)
6. 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)



ERPG102B

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 blink for about six seconds and then go off.
   - Make sure horn button works.

AIR BAG MODULE (PASSENGER SIDE)

AIR BAG MODULE

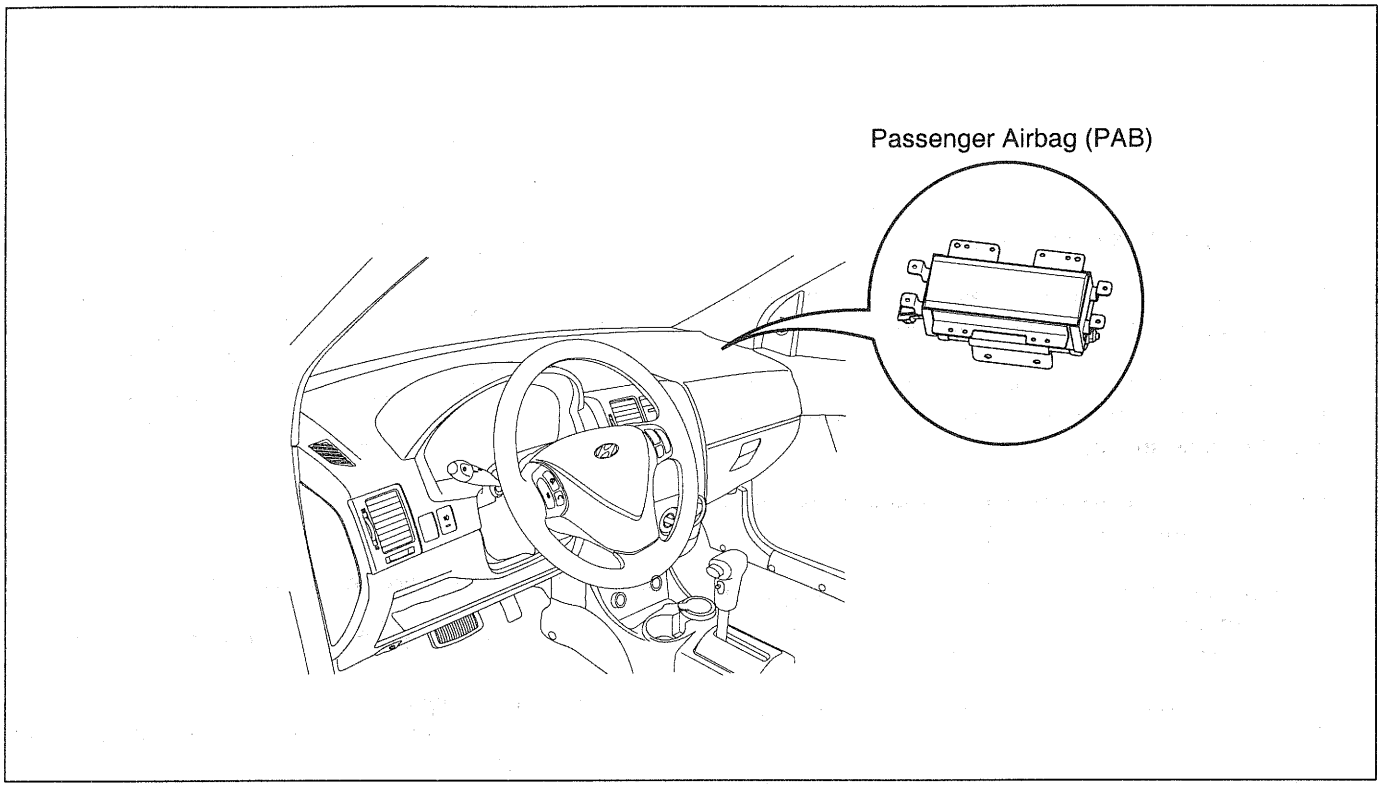
DESCRIPTION EB10F6ED

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.

⚠ *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 ECB38876



ERPG500G

REMOVAL ECBAEDE2

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 bolts. (Refer to BD group)
4. Remove the crash pad. (Refer to BD group)

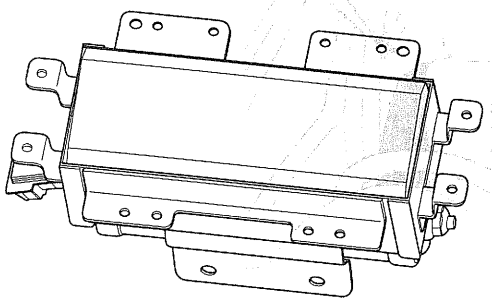
NOTE

Replace the crash pad which is damaged while PAB is deployed.

5. Remove the mounting nuts from the crash pad. Then remove the passenger airbag.

CAUTION

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



ERPG510B

INSTALLATION E268A93D

1. Disconnect the negative (-) cable from battery and wait for at least three minutes.
2. Remove 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
: 0.1 ~ 0.2 kgf.m (1.2 ~ 1.8 N.m, 0.9 ~ 1.3 lb.ft)

4. Install the crash pad. (Refer to BD group)
5. Tighten the PAB mounting bolts.

Tightening Torque
: 0.8 ~ 0.9 kgf.m (8.0 ~ 9.1 N.m, 5.9 ~ 6.7 lb.ft)

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

AIR BAG MODULE (SIDE AIR BAG)

AIR BAG MODULE

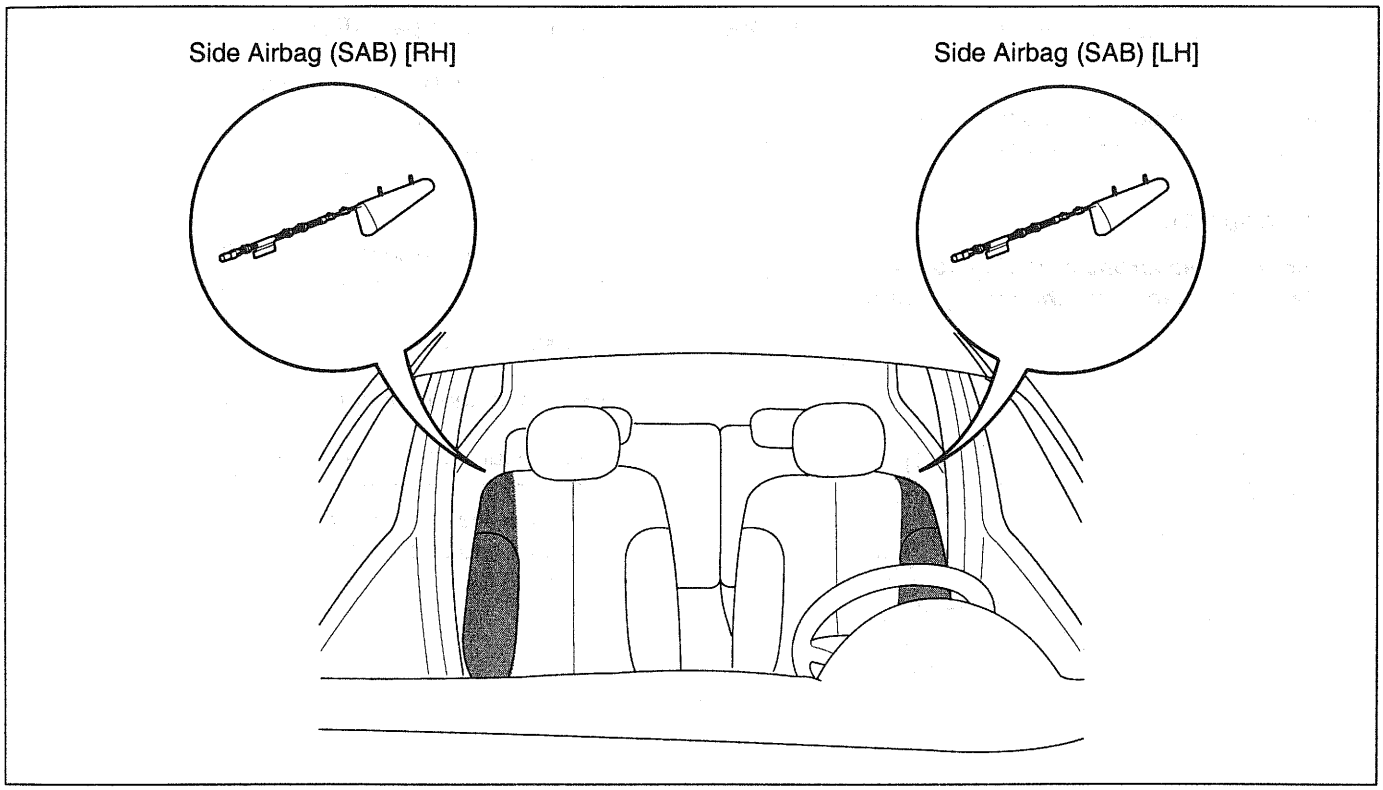
DESCRIPTION EBC04CAB

The two Side Airbags (SAB) are installed inside the driver and passenger seat and protects 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.

⚠ ***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 EC8FBBFE



ERPG500C

REMOVAL EC1A53CE

1. Disconnect the battery negative cable and wait at least 3 minutes before beginning work.
2. Remove the front seat assambly.(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.

CAUTION

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

INSTALLATION E50BC442

CAUTION

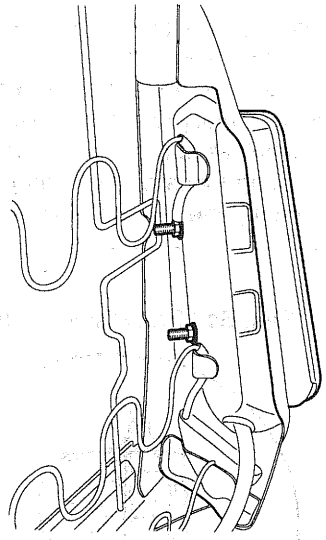
Be sure to install the harness wires not to be pinched or interfered with other parts.

NOTE

- *Do not open the lid of the side airbag cover.*
- *Use a new mounting nuts when you replace a side airbag.*
- *Make sure that the seat-back 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 ignition key from the vehicle.
3. Place a Side Airbag (SAB) on the seat-back frame and tighten the side airbag mounting nuts.

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



ERPG104B

4. Install the new seat-back cover.(Refer to BD group)
5. Install the 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 or 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 blink for about six seconds and then go off.

SEAT BELT PRETENSIONER

SEAT BELT PRETENSIONER

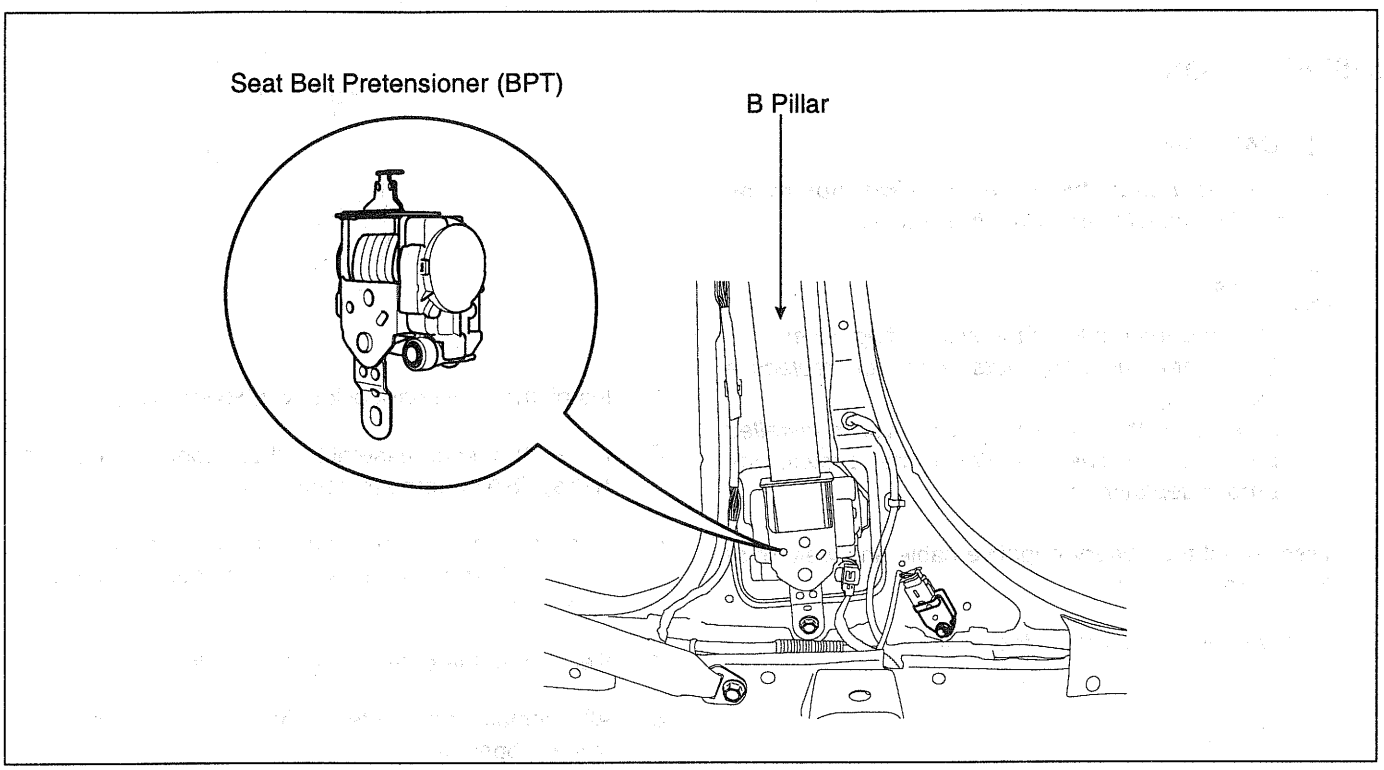
DESCRIPTION E9BFB4FB

The Seat Belt Pretensioners (BPT) are installed inside B-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.

⚠ *CAUTION*

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.

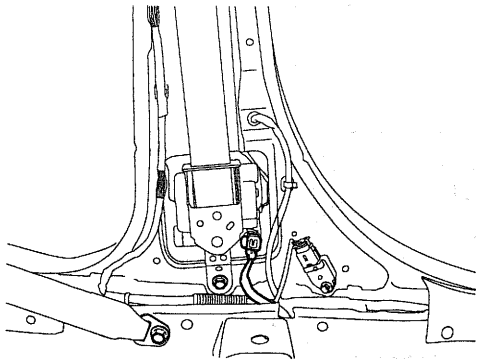
COMPONENTS EB2108B9



ERPG500H

REMOVAL EFEDACFF

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. Disconnect the Seat Belt Pretensioner connector.



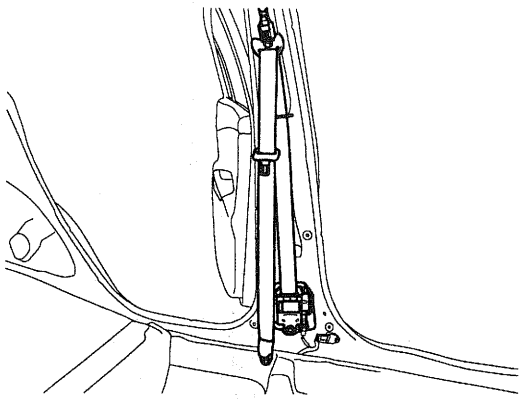
ERPG106B

5. Remove the lower anchor bolt.
6. Remove the upper anchor bolt.
7. Loosen the Seat Belt Pretensioner mounting bolt and remove the Seat Belt Pretensioner.

INSTALLATION E0640377

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



ARJF106C

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

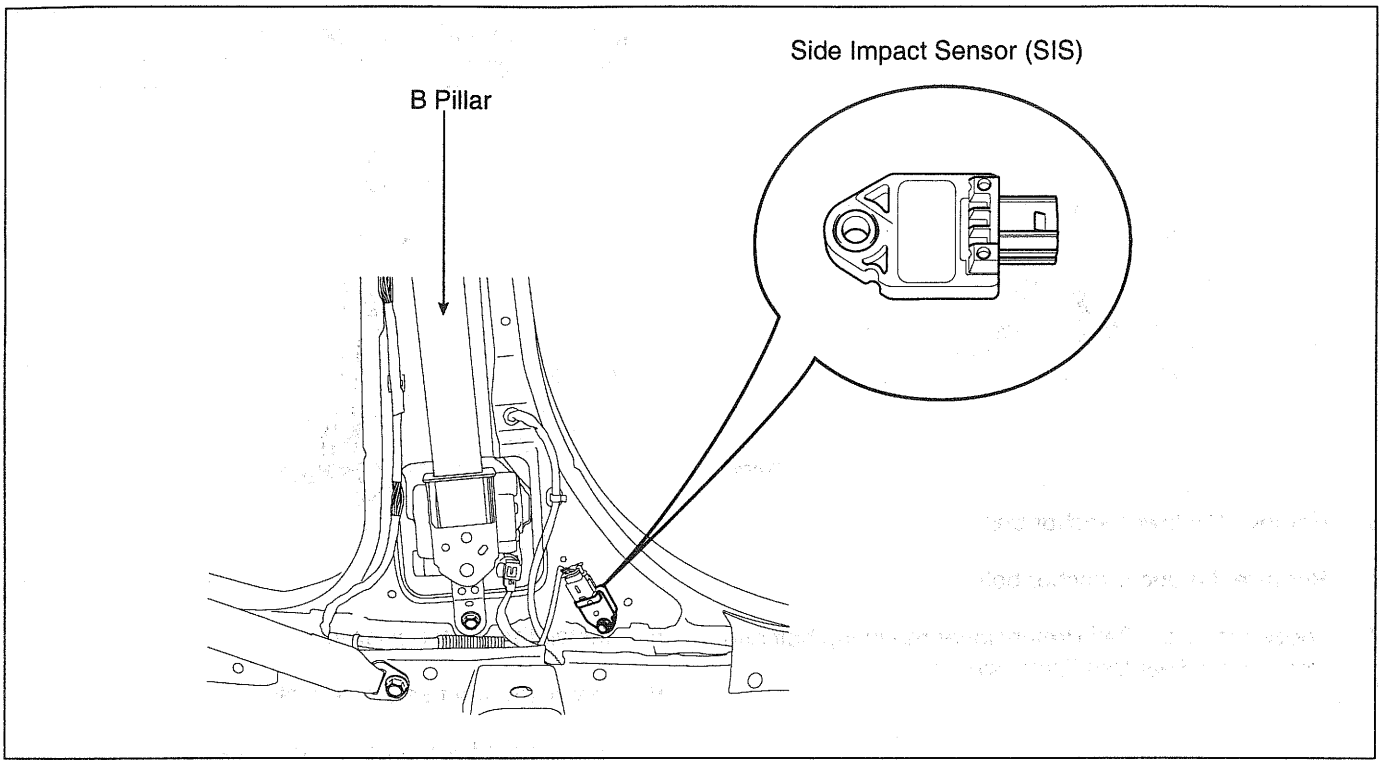
SRS CONTROL SYSTEM

SIDE IMPACT SENSOR (SIS)

DESCRIPTION EC7C4226

The Side Impact Sensor (SIS) system consists of two front SIS which are installed inside the B-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 E048D4F5



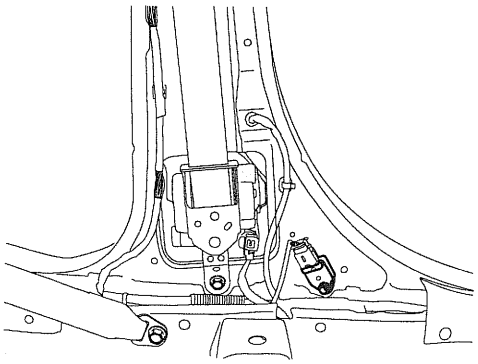
ERPG500I

REMOVAL EB7BBEF1

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.***

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. Disconnect the Side Impact Sensor connector.
5. Remove the SIS mounting bolt then remove the Side Impact Sensor.



ERPG108B

INSTALLATION EE61AA3F

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
0.8 ~ 1.0 kgf.m (7.9 ~ 9.8 Nm, 5.8 ~ 7.2 lb.ft)

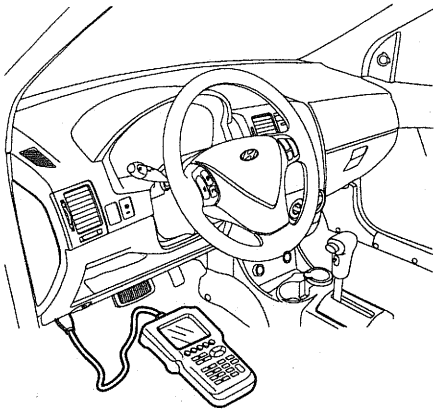
2. Install the center piller trim. (Refer to BD group)
3. Install the front seat assembly. (Refer to BD group)
4. Reconnect the negative battery cable.
5. After installing the Side Impact Sensor, confirm proper system operation: Turn the ignition switch ON, the SRS indicator light should blink for about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

TROUBLESHOOTING

DESCRIPTION EDEDCF3A

HI-SCAN CHECK

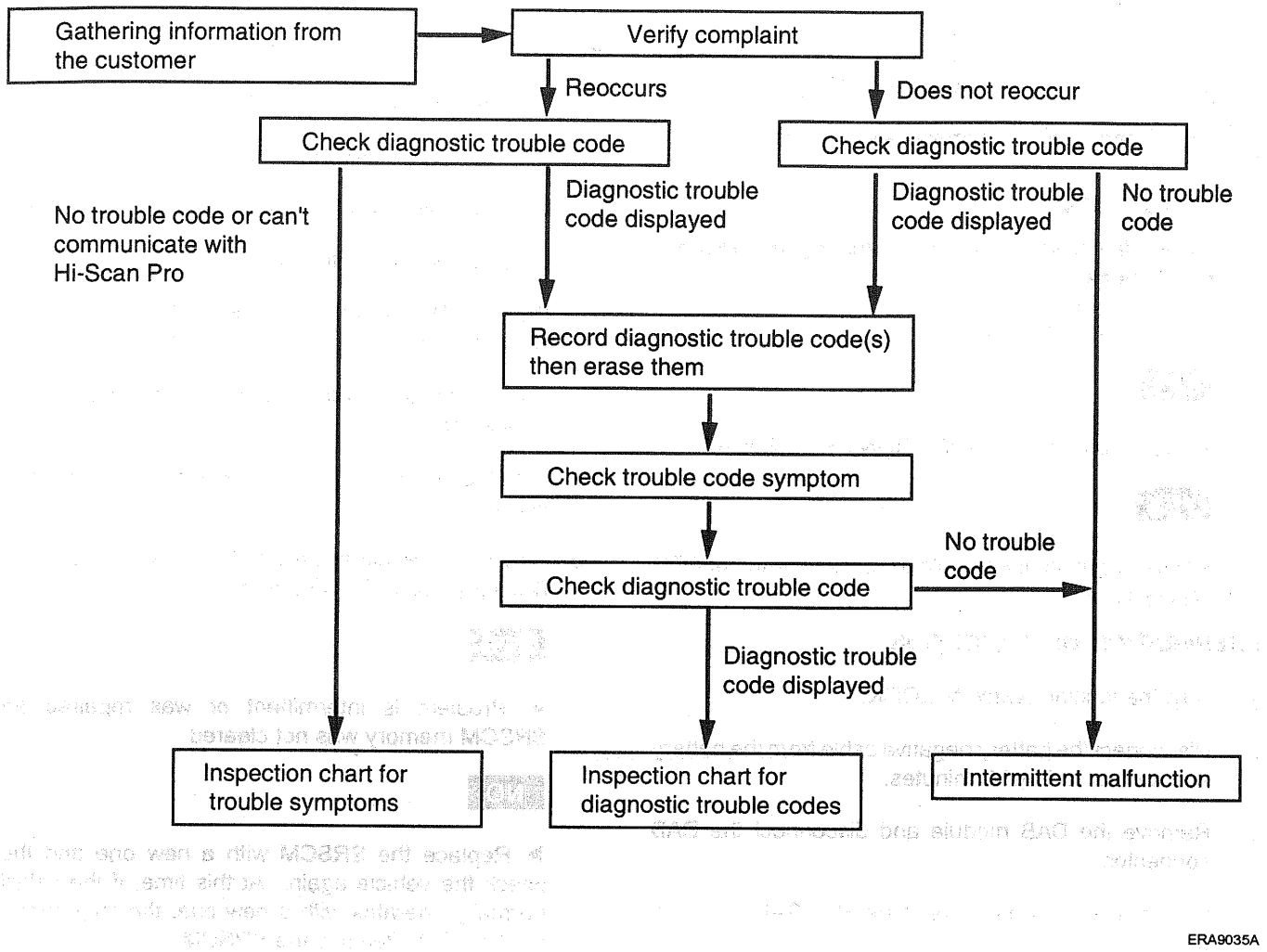
1. Turn the ignition switch off.
2. Connect the Hi-Scan Pro connector to the data link connector located under the crash pad.



ERPG200A

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.

DIAGNOSTIC TROUBLESHOOTING FLOW



TERMINAL & CONNECTOR INSPECTION

Be sure to perform "TERMINAL & CONNECTOR INSPECTION" 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.

   ⚠ ***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, BPT 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, BPT 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?

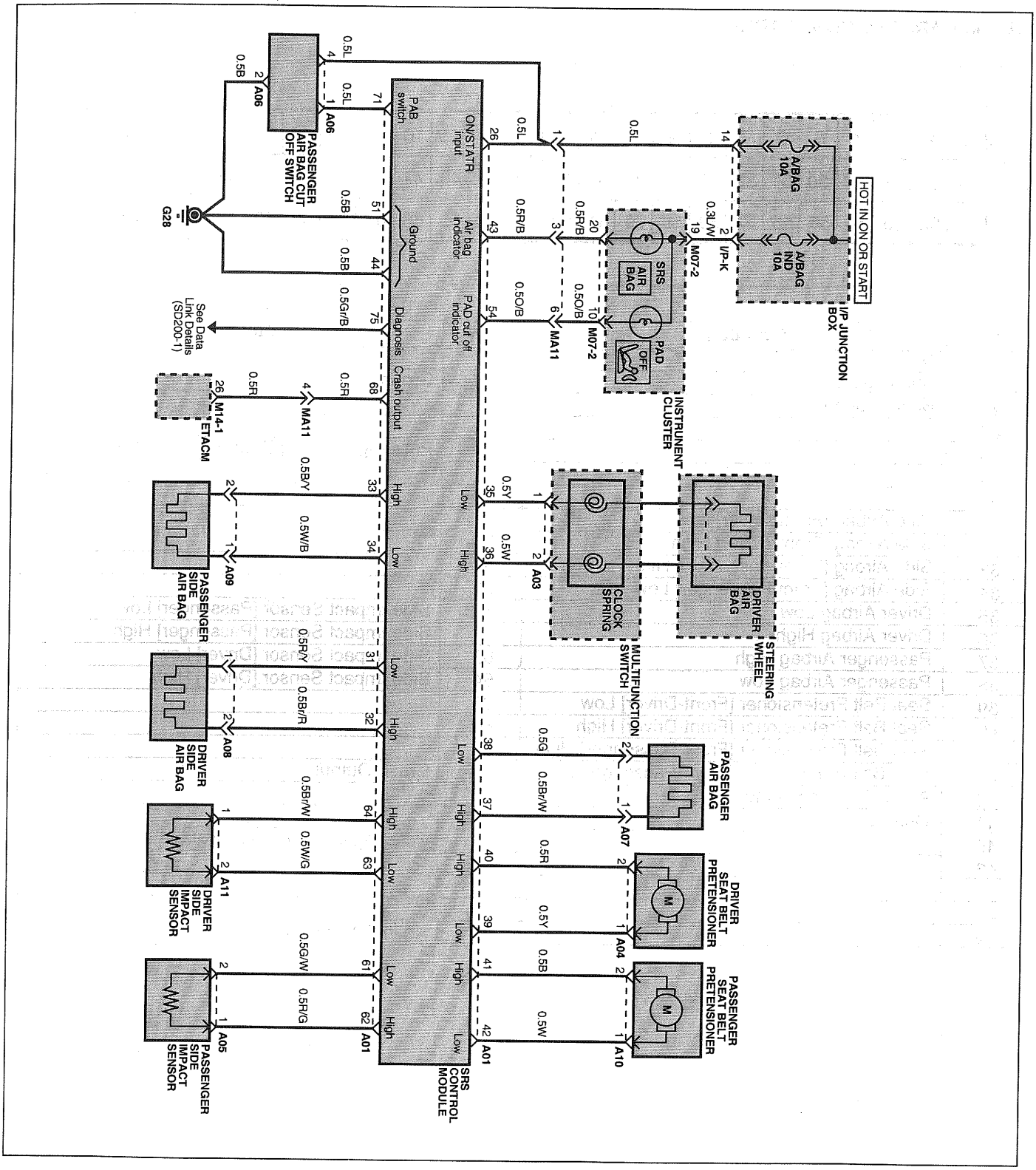
    YES

    ▶ 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.

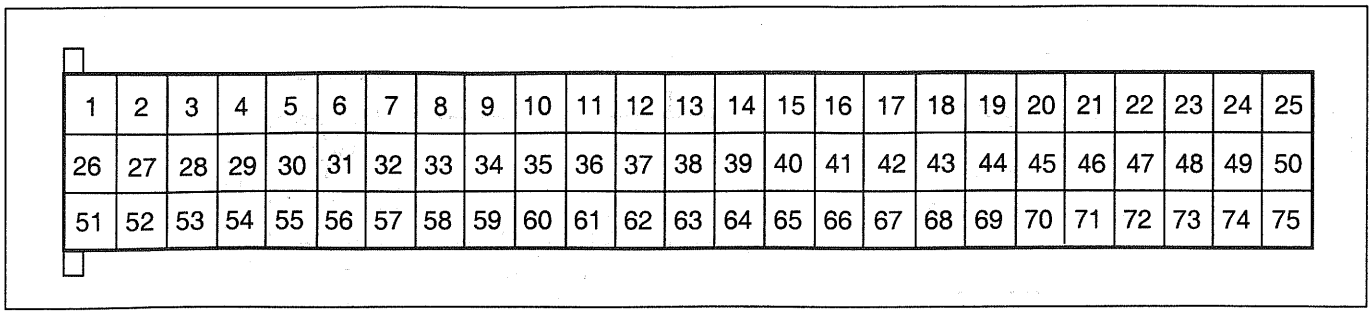
CIRCUIT DIAGRAM(1) E1DDE25B



ERPG500K

SRSCM CONNECTOR TERMINAL E1553F87

SRSCM HARNESS CONNECTOR



Pin	Function	Pin	Function
1	No Pin	50	
2 ~ 25	Shorting Bar	51	Ground
26	Battery Supply	52	
27		53	
28		54	Passenger Airbag Deactivation Lamp
29		55	
30		56	
31	Side Airbag [Front-Driver] Low	57	
32	Side Airbag [Front-Driver] High	58	
33	Side Airbag [Front-Passenger] High	59	
34	Side Airbag [Front-Passenger] Low	60	
35	Driver Airbag Low	61	Side Impact Sensor [Passenger] Low
36	Driver Airbag High	62	Side Impact Sensor [Passenger] High
37	Passenger Airbag High	63	Side Impact Sensor [Driver] Low
38	Passenger Airbag Low	64	Side Impact Sensor [Driver] High
39	Seat Belt Pretensioner [Front-Driver] Low	65	
40	Seat Belt Pretensioner [Front-Driver] High	66	
41	Seat Belt Pretensioner [Front-Passenger] High	67	
42	Seat Belt Pretensioner [Front-Passenger] Low	68	Crash Output
43	Airbag Warning Lamp	69	
44	Ground	70	
45		71	Passenger Airbag Deactivation Switch
46		72	
47		73	
48		74	
49		75	K-Line Diagnostic

ERPG500M

DIAGNOSTIC TROUBLE CODES (DTC)

DTC	FAULT DESCRIPTION	PAGE
B1657	Crash Recorded - Belt Pretensioner Only	RT - 86
B1658	Belt Pretensioner 6 times Deployment (Replace SRSCM)	RT - 86
B2503	SRS Warning Lamp Open or Short to Ground	RT - 88
B2504	SRS Warning Lamp Short or Short to Battery	RT - 88
B2505	Passenger Airbag Deactivation Lamp Fault	RT - 92

DTC B1111 BATTERY VOLTAGE TOO HIGH
DTC B1112 BATTERY VOLTAGE TOO LOW

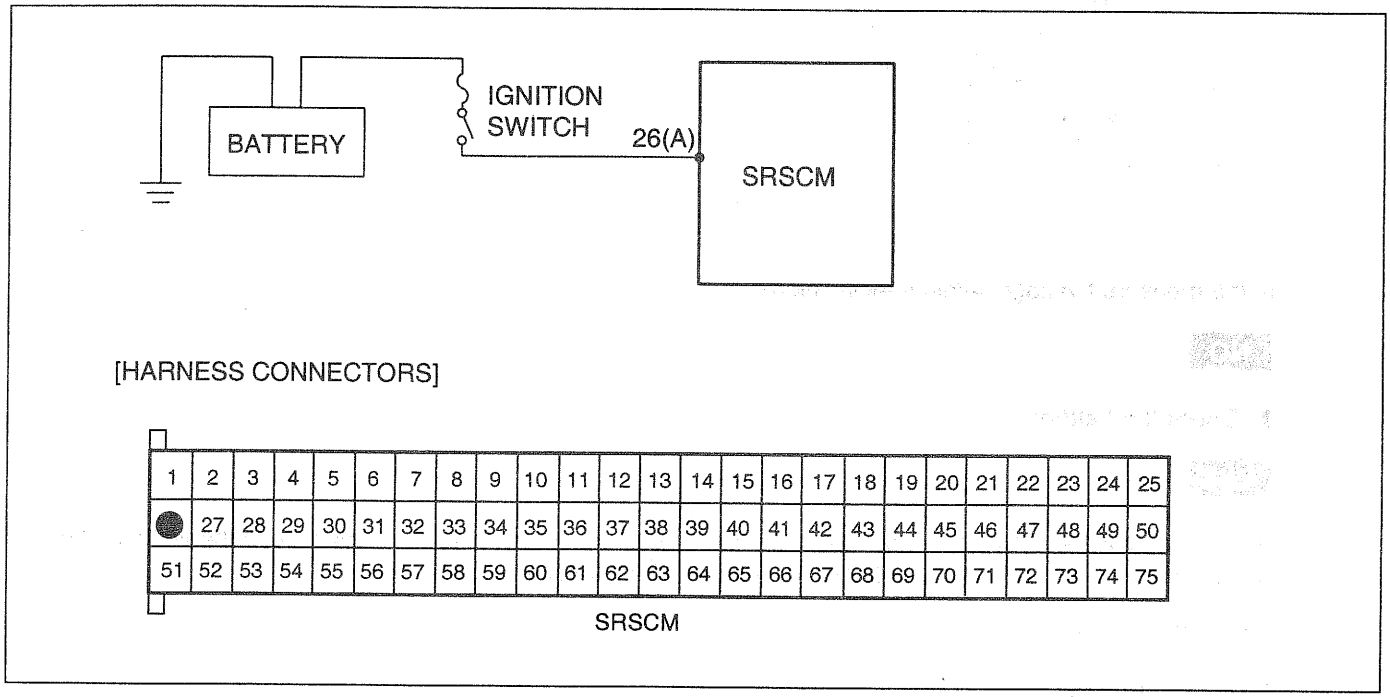
DTC DESCRIPTION E11B0B13

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 ECA9AB36

DTC	Condition	Probable cause
B1111	Battery Voltage > 16.0 V for 4 seconds after IG ON	• Battery • Alternator • Wiring Harness • SRSCM
B1112	Battery Voltage < 9.0 V for 4 seconds after IG ON	

SCHEMATIC DIAGRAM EE3735A9



ERPG500N

SPECIFICATION E8DF0ACF

Voltage : 9.0 ~ 16.0 V

TERMINAL & CONNECTOR INSPECTION E9F46BD0

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

INSPECTION PROCEDURE EFC197F8

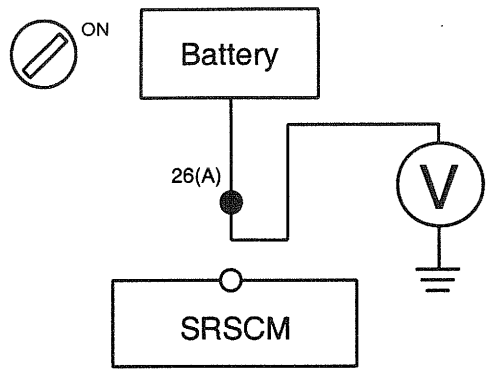
1. PREPARATION
   Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

2. CHECK SOURCE VOLTAGE

   1) Turn the ignition switch to ON.

   2) Measure voltage between the terminal 26 of SRSCM harness connector and chassis ground.

Specification (voltage) : 9.0 ~ 16.0 V



ERPG500Q

   3) Is the measured voltage within specification?

NO

▶ Check the battery.

YES

▶ 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

   1) Check the battery.
   ● Refer to "EE" group in this SERVICE MANUAL.
   Is the battery normal?

YES

▶ Check the alternator.

NO

▶ Repair or replace the battery.(Refer to "EE" group in the SERVICE MANUAL)

4. CHECK ALTERNATOR

1) Check the altenator.
● Refer to "EE" group in the SERVICE MANUAL.
Is the alternator normal?

YES

▶ Check wiring harness.

NO

▶ Repair or replace the alternator.(Refer to "EE" group in the 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.

NO

▶ 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.

⚠ ***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, BPT 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.

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

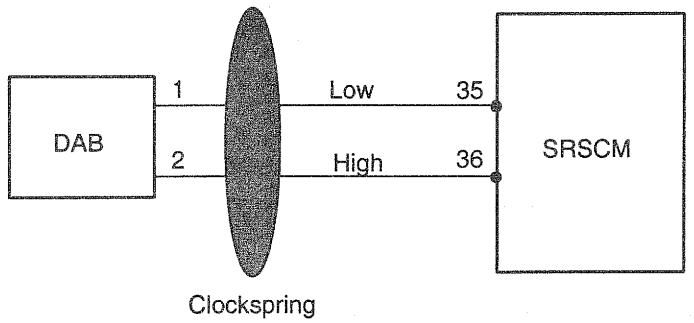
DTC DESCRIPTION E53CBAFE

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 EEB1B377

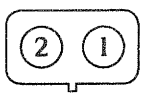
DTC	Condition	Probable cause
B1346 B1347	• Too high or low resistance between DAB high(+) and DAB low (-) • Driver Airbag (DAB) Malfunction • Clockspring Malfunction • SRSCM Malfunction	• Open or short circuit on wiring harness • Driver Airbag (DAB) squib • Clockspring • SRSCM

SCHEMATIC DIAGRAM EA47D9A6



Terminal	Connected to	Function
1	SRSCM Terminal 35	DAB Low
2	SRSCM Terminal 36	DAB High

[HARNESS CONNECTOR]



DAB

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	31	32	33	34	●	●	37	38	39	40	41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75

SRSCM

ERPG200B

SPECIFICATION E85E8D8F

DAB resistance : 1.6 ~ 6.1 Ω

TERMINAL & CONNECTOR INSPECTION E109985D

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

INSPECTION PROCEDURE E9FC50CC

1. PREPARATION
   Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

2. CHECK DAB RESISTANCE

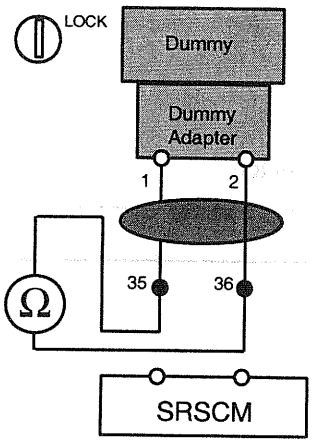
   ⚠ ***CAUTION***

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

   1) 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 35 and 36 of SRSCM harness connector.

Specification (resistance) : 1.6 ~ 6.1 Ω



ERPG500T

   3) Is the measured resistance within specification?

NO

▶ Check open circuit.

YES

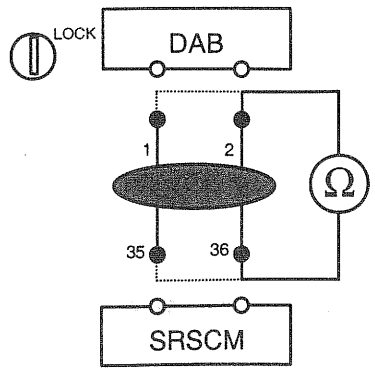
▶ Replace the Driver Airbag(DAB) module.

3. CHECK OPEN CIRCUIT

   1) Measure resistance between the terminal 2 of DAB harness connector and the terminal 36 of SRSCM harness connector.

   2) Measure resistance between the terminal 1 of DAB harness connector and the terminal 35 of SRSCM harness connector.

Specification (resistance) : below 1 Ω



ERPG501X

3) Is the measured resistance within specification?

YES

▶ Check short circuit.

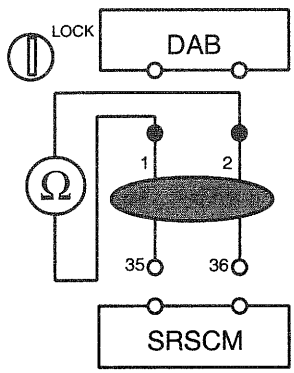
NO

▶ 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.

Specification (resistance) : ∞ Ω



ERPG501Y

2) Is the measured resistance within specification?

YES

▶ Go to next step.

NO

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

5. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN
Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

DTC B1348 DRIVER AIRBAG CIRCUIT SHORT TO GROUND

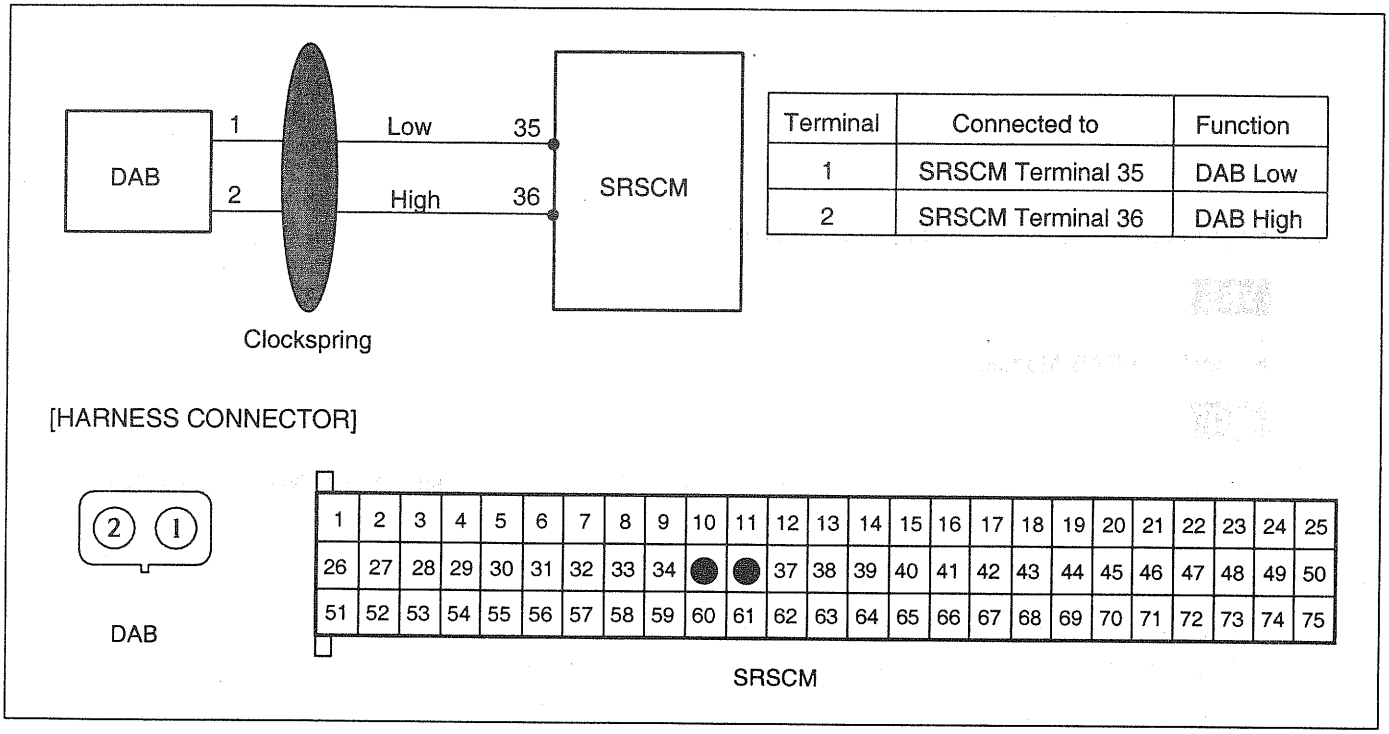
DTC DESCRIPTION EAAEA68D

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 ECC9FE0D

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 EC580F7F



Terminal	Connected to	Function
1	SRSCM Terminal 35	DAB Low
2	SRSCM Terminal 36	DAB High

ERPG200B

TERMINAL & CONNECTOR INSPECTION E640CFDF

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

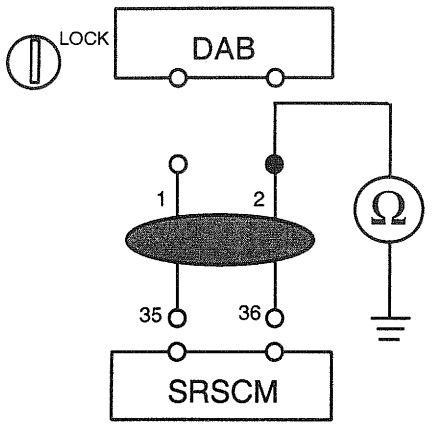
INSPECTION PROCEDURE E1CBBDED

1. PREPARATION
   Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

2. CHECK SHORT TO GROUND

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

Specification (resistance) : infinite



ERPG501B

   2) Is the measured resistance within specification?

YES

▶ Check the DAB Module.

NO

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

3. CHECK THE DAB MODULE

   1) 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, BPT 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).

4. CHECK THE CLOCKSPRING

1) Check the clockspring.
Is the clockspring normal?

YES

▶ Go to next step.

NO

▶ Replace the clockspring.

5. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN
Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

DTC B1349 DRIVER AIRBAG CIRCUIT SHORT TO BATTERY

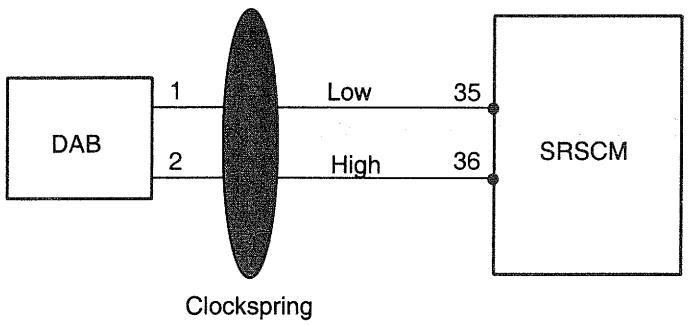
DTC DESCRIPTION E770EB29

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 E02DDDDC

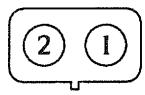
DTC	Condition	Probable cause
B1349	• Short to battery line between DAB and clockspring • Short to battery line between clockspring and SRSCM • Driver Airbag (DAB) Malfunction • Clockspring Malfunction • SRSCM Malfunction	• Short to battery line on wiring harness • Driver Airbag (DAB) squib • Clockspring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

SCHEMATIC DIAGRAM EC17426D



Terminal	Connected to	Function
1	SRSCM Terminal 35	DAB Low
2	SRSCM Terminal 36	DAB High

[HARNESS CONNECTOR]



DAB

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	31	32	33	34	●	●	37	38	39	40	41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75

SRSCM

ERPG200B

TERMINAL & CONNECTOR INSPECTION E523B3A8

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

INSPECTION PROCEDURE E80054DD

1. PREPARATION
   Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

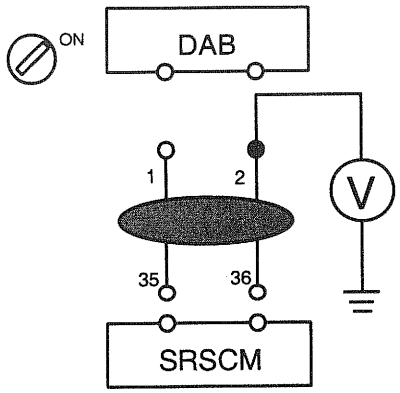
2. CHECK SHORT TO BATTERY LINE

   1) Connect the battery negative cable to the battery.

   2) Turn the ignition switch to ON.

   3) Measure voltage between the terminal 1 of DAB harness connector and chassis ground.

Specification (voltage) : Approximately 0 V



ERPG501C

   4) Is the measured voltage within specification?

YES

▶ Check the DAB module.

NO

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

3. CHECK THE DAB MODULE

   1) 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, BPT 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).

4. CHECK THE CLOCKSPRING

1) Check the clockspring.
Is the clockspring normal?

YES

▶ Go to next step.

NO

▶ Replace the clockspring.

5. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN
Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

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

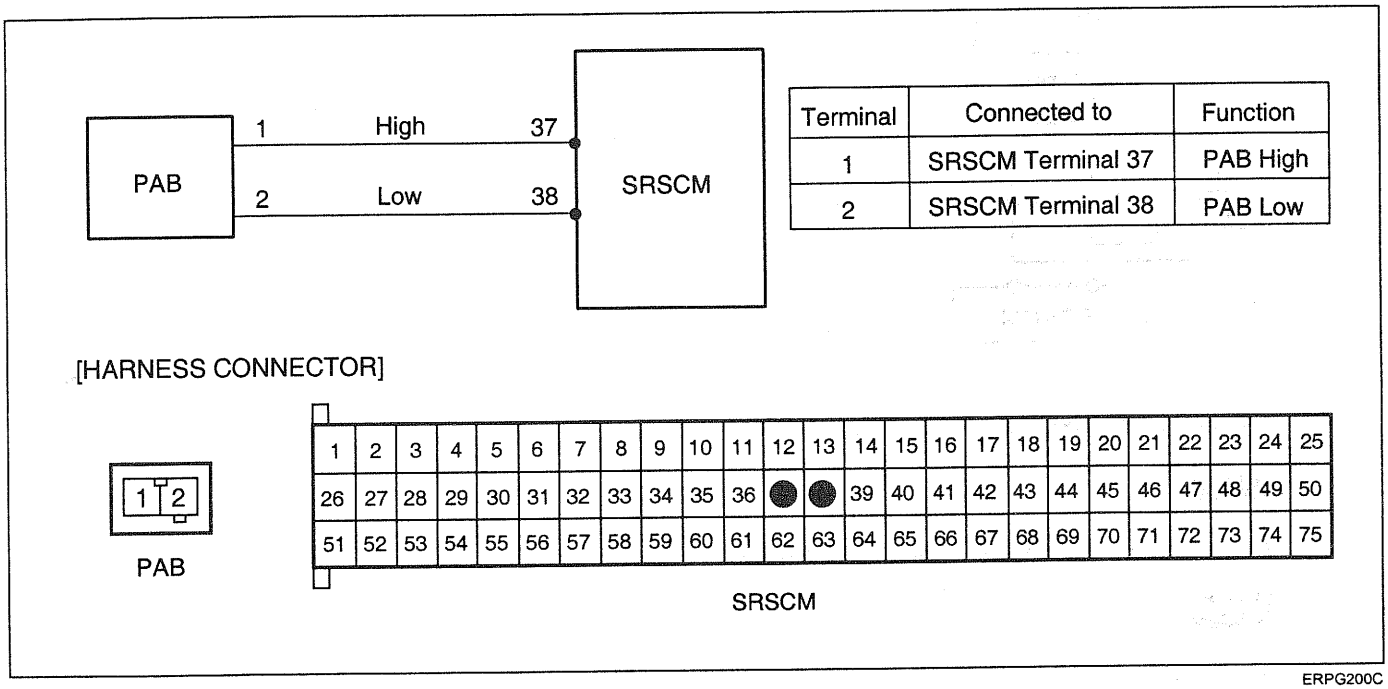
DTC DESCRIPTION E7DE543A

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 E7CB128C

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

SCHEMATIC DIAGRAM ED6CEB3F



Terminal	Connected to	Function
1	SRSCM Terminal 37	PAB High
2	SRSCM Terminal 38	PAB Low

ERPG200C

SPECIFICATION EA9034CC

PAB resistance : 1.6 ~ 6.1 Ω

TERMINAL & CONNECTOR INSPECTION E64ECFBA

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

INSPECTION PROCEDURE E08F5EE1

1. PREPARATION
   Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

2. CHECK PAB RESISTANCE

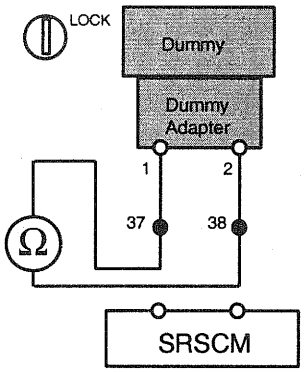
   ⚠ ***CAUTION***

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

   1) 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 37 and 38 of SRSCM harness connector.

Specification (resistance) : 1.6 ~ 6.1 Ω



ERPG200D

   3) Is the measured resistance within specification?

   YES

   ▶ Replace the Passenger Airbag(PAB) module.

   NO

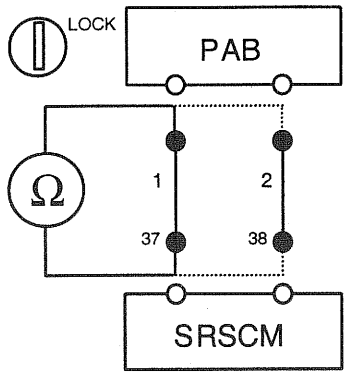
   ▶ Check open circuit.

3. CHECK OPEN CIRCUIT

   1) Measure resistance between the terminal 1 of PAB harness connector and the terminal 37 of SRSCM harness connector.

   2) Measure resistance between the terminal 2 of PAB harness connector and the terminal 38 of SRSCM harness connector.

Specification (resistance) : below 1 Ω



ERPG200E

3) Is the measured resistance within specification?

YES

▶ Check short circuit.

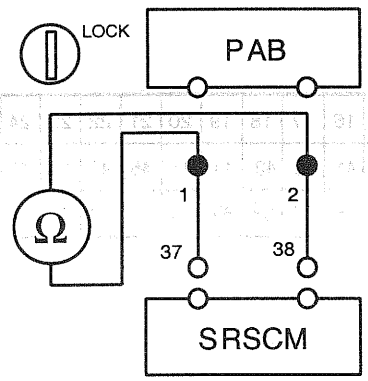
NO

▶ 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



ERPG200F

2) Is the measured resistance within specification?

YES

▶ Go to next step.

NO

▶ 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 - 32)

DTC B1354 PASSENGER AIRBAG CIRCUIT SHORT TO GROUND

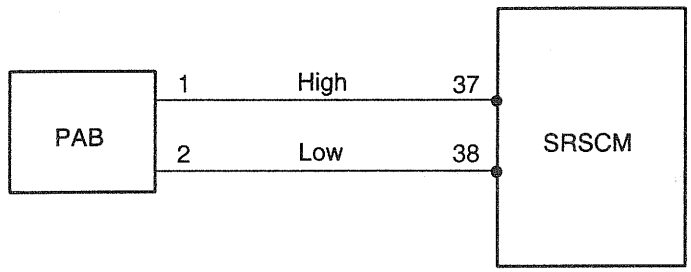
DTC DESCRIPTION E4CBE723

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 EA43FC76

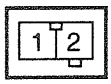
DTC	Condition	Probable cause
B1354	• Short to ground between PAB module and SRSCM • Passenger Airbag (PAB) Malfunction • SRSCM Malfunction	• Short to ground on wiring harness • Passenger Airbag (PAB) squib • SRSCM

SCHEMATIC DIAGRAM EF715DEC



Terminal	Connected to	Function
1	SRSCM Terminal 37	PAB High
2	SRSCM Terminal 38	PAB Low

[HARNESS CONNECTOR]



PAB

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	31	32	33	34	35	36	●	●	39	40	41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75

SRSCM

ERPG200C

TERMINAL & CONNECTOR INSPECTION E3F3ACD1

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

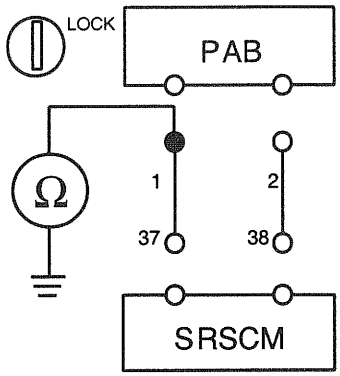
INSPECTION PROCEDURE E9C649D2

1. PREPARATION
   Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

2. CHECK SHORT TO GROUND

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

Specification (resistance) : infinite



ERPG500O

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

1) 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, BPT 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?

YES

▶ Go to next step.

NO

▶ Replace PAB module.

4. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN
Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

DTC B1355 PASSENGER AIRBAG CIRCUIT SHORT TO BATTERY

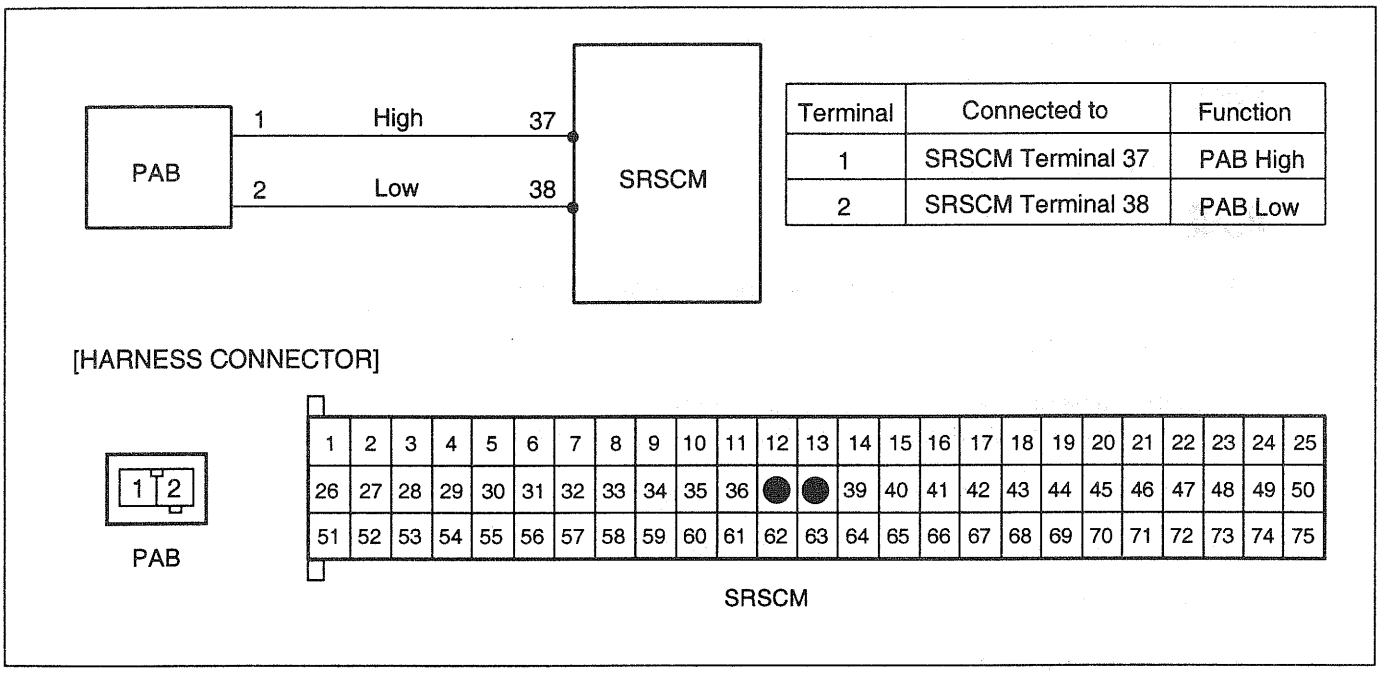
DTC DESCRIPTION EE4D5EB7

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 E6D3E83D

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 E0EC5BD9



Terminal	Connected to	Function
1	SRSCM Terminal 37	PAB High
2	SRSCM Terminal 38	PAB Low

ERPG200C

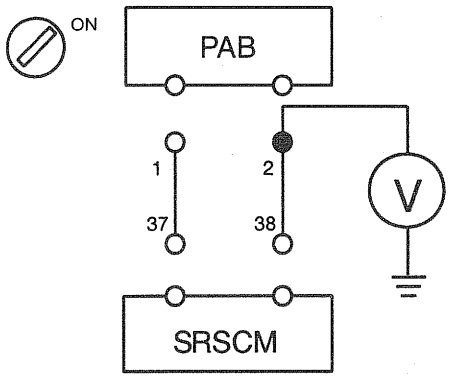
TERMINAL & CONNECTOR INSPECTION ED5B87B1

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

INSPECTION PROCEDURE EB9DF988

1. PREPARATION
   Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)
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 PAB harness connector and chassis ground.

Specification (voltage) : Approximately 0 V



ERPG500P

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

1) 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, BPT 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?

YES

▶ Go to next step.

NO

▶ Replace PAB module.

4. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN
Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

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

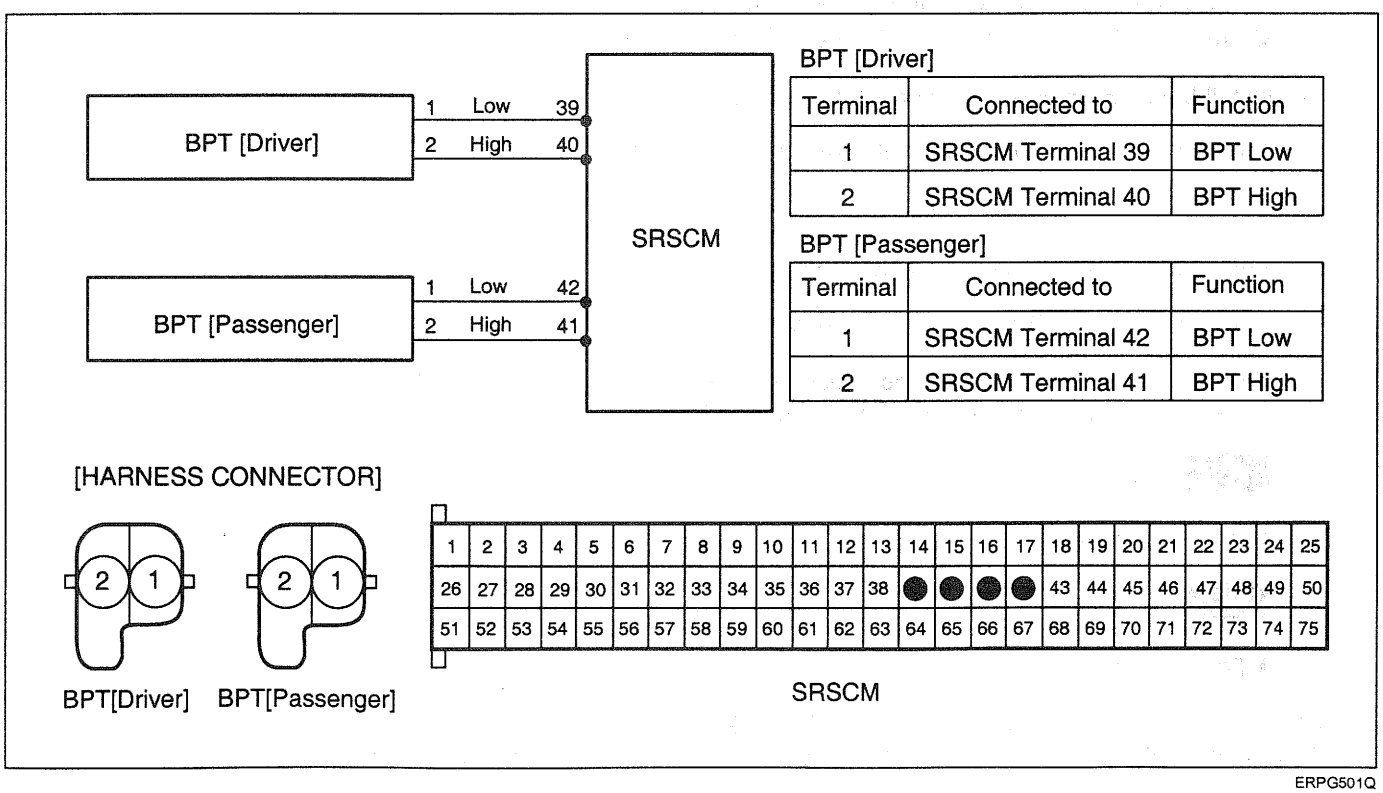
DTC DESCRIPTION E971A9E1

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 EE1BFD2A

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 EA96DC50



BPT [Driver]

Terminal	Connected to	Function
1	SRSCM Terminal 39	BPT Low
2	SRSCM Terminal 40	BPT High

BPT [Passenger]

Terminal	Connected to	Function
1	SRSCM Terminal 42	BPT Low
2	SRSCM Terminal 41	BPT High

ERPG501Q

SPECIFICATION EFB7D75C

BPT resistance : 1.6 ~ 6.1 Ω

TERMINAL & CONNECTOR INSPECTION EDFD317A

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

INSPECTION PROCEDURE E487FB3C

1. PREPARATION
   Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

2. CHECK BPT RESISTANCE

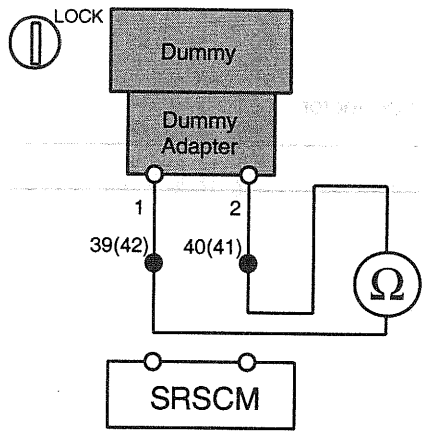
   ⚠ ***CAUTION***

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

   1) 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 39(42) and 40(41) of SRSCM harness connector.

Specifiation (resistance) : 1.6 ~ 6.1 Ω



ERPG500X

   3) Is the measured resistance within specification?

YES

▶ Replace the Seat Belt Pretensioner(BPT) module.

NO

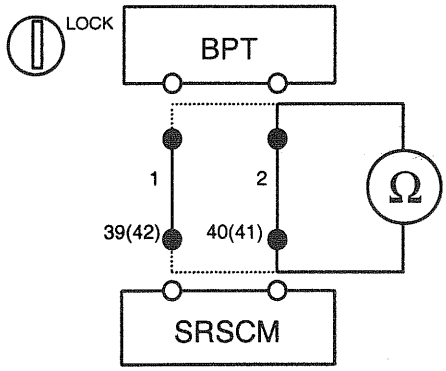
▶ Check open circuit.

3. CHECK OPEN CIRCUIT

   1) Measure resistance between the terminal 2 of BPT harness connector and the terminal 40(41) of SRSCM harness connector.

   2) Measure resistance between the terminal 1 of BPT harness connector and the terminal 39(42) of SRSCM harness connector.

Specification (resistance) : below 1 Ω



ERPG500R

3) Is the measured resistance within specification?

YES

▶ Check short circuit.

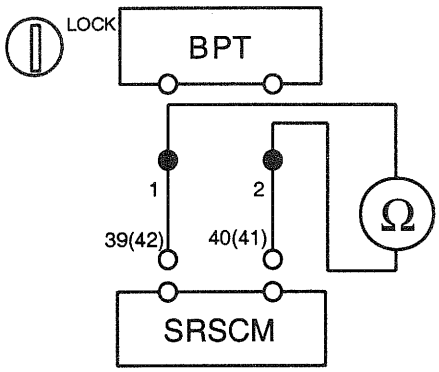
NO

▶ 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



ERPG501M

2) Is the measured resistance within specification?

YES

▶ Go to next step.

NO

▶ 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 - 32)

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

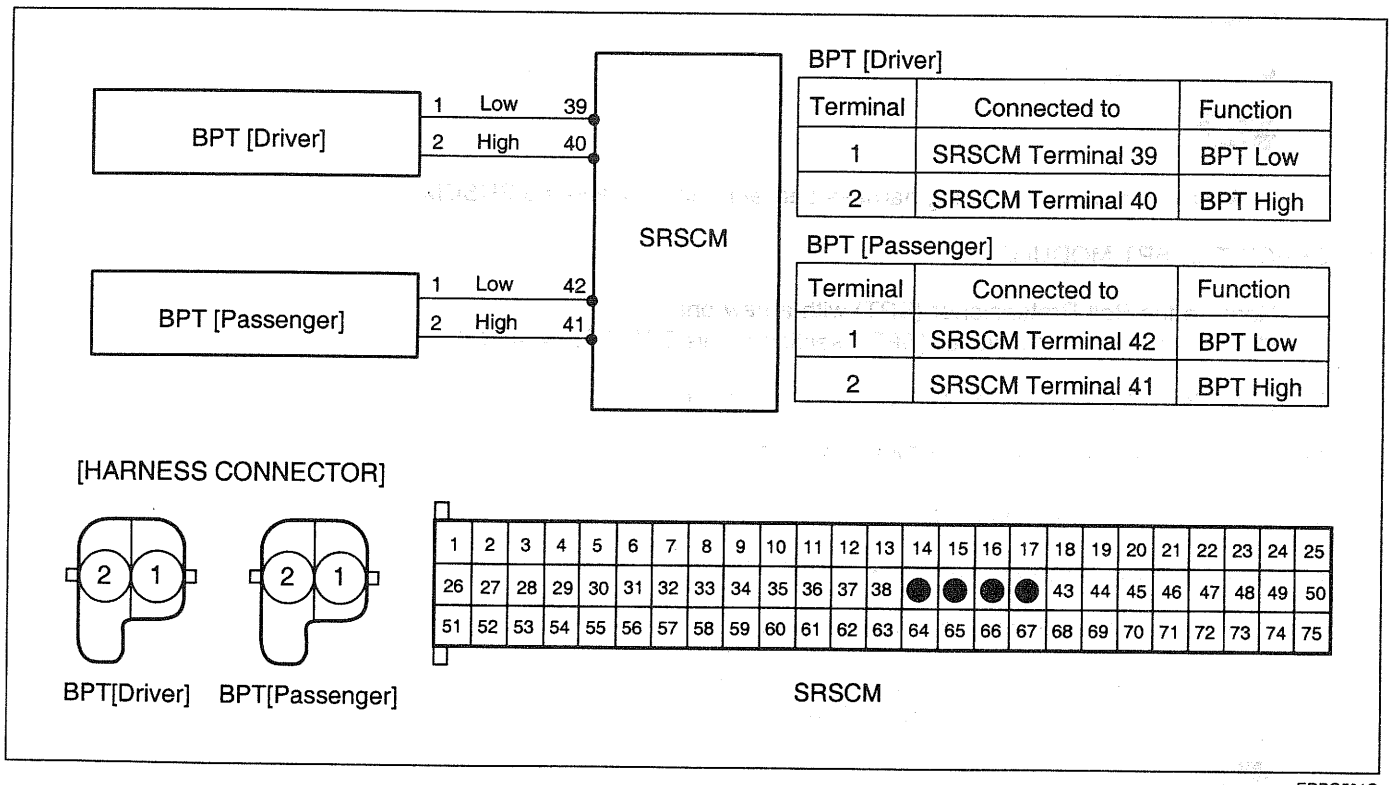
DTC DESCRIPTION EC7BCFB6

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 ED4C2AEE

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 E15DDE9C



BPT [Driver]

Terminal	Connected to	Function
1	SRSCM Terminal 39	BPT Low
2	SRSCM Terminal 40	BPT High

BPT [Passenger]

Terminal	Connected to	Function
1	SRSCM Terminal 42	BPT Low
2	SRSCM Terminal 41	BPT High

ERPG501Q

TERMINAL & CONNECTOR INSPECTION EABFBC8F

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

INSPECTION PROCEDURE E028D08E

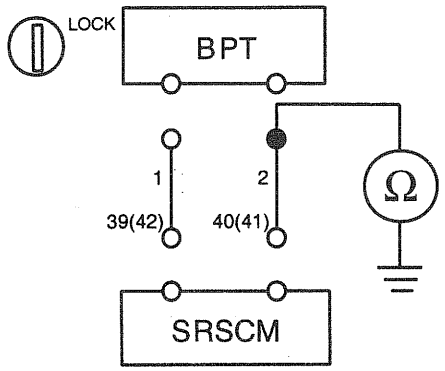
1. PREPARATION

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

2. CHECK SHORT TO GROUND

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

Specification (resistance) : infinite



ERPG501N

2) Is the measured resistance within specification?

YES

▶ Check the BPT Module.

NO

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

3. CHECK THE BPT MODULE

1) 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, BPT 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 Belt Pretensioner (BPT)?

YES

▶ Go to next step.

NO

▶ Replace BPT module.

4. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN
Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

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

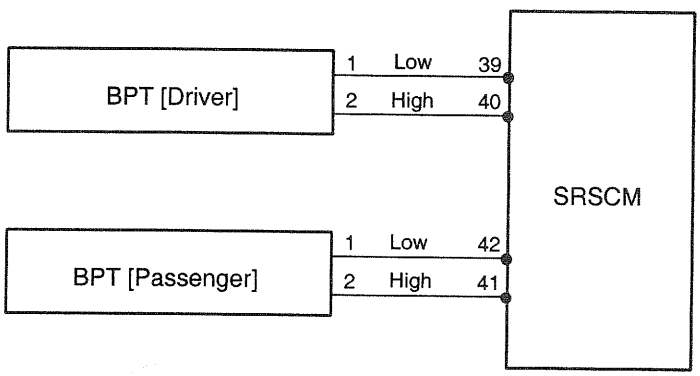
DTC DESCRIPTION E7B3F58C

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 E2FB51D9

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 EFFAE0D1



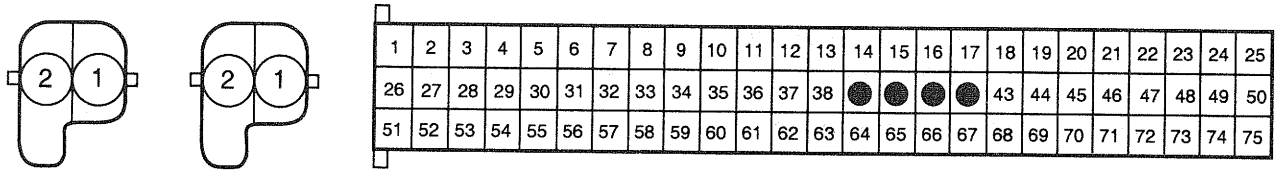
BPT [Driver]

Terminal	Connected to	Function
1	SRSCM Terminal 39	BPT Low
2	SRSCM Terminal 40	BPT High

BPT [Passenger]

Terminal	Connected to	Function
1	SRSCM Terminal 42	BPT Low
2	SRSCM Terminal 41	BPT High

[HARNESS CONNECTOR]



BPT[Driver] BPT[Passenger] SRSCM

ERPG501Q

TERMINAL & CONNECTOR INSPECTION E5D56C81

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

INSPECTION PROCEDURE E2E40A22

1. PREPARATION
   Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

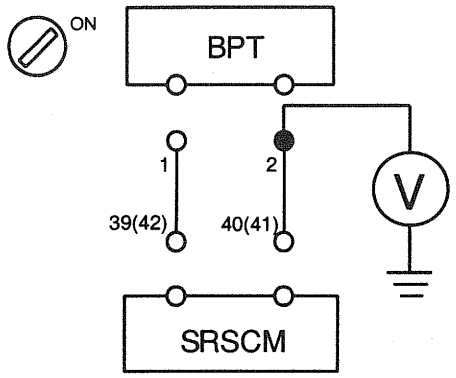
2. CHECK SHORT TO BATTERY LINE

   1) Connect the battery negative cable to the battery.

   2) Turn the ignition switch to ON.

   3) Measure voltage between the terminal 1 of BPT harness connector and chassis ground.

Specification (voltage) : Approximately 0 V



ERPG501O

   4) Is the measured voltage within specification?

   YES

   ▶ Check the BPT Module.

   NO

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

3. CHECK THE BPT MODULE

   1) 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, BPT 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 Belt Pretensioner (BPT)?

YES

▶ Go to next step.

NO

▶ Replace BPT module.

4. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN
Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

DTC B1378 SIDE AIRBAG [FRONT-DRIVER] RESISTANCE TOO HIGH
DTC B1379 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

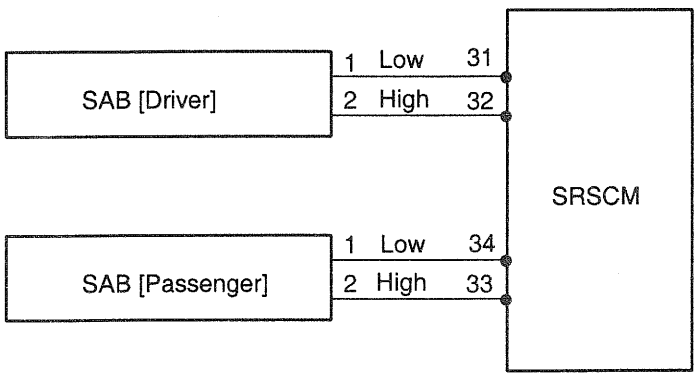
DTC DESCRIPTION EE647F4E

The Side Airbag circuit consists of the SRSCM and two 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 E6FA7F4E

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 E5A494A5



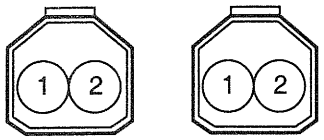
SAB [Driver]

Terminal	Connected to	Function
1	SRSCM Terminal 31	SAB Low
2	SRSCM Terminal 32	SAB High

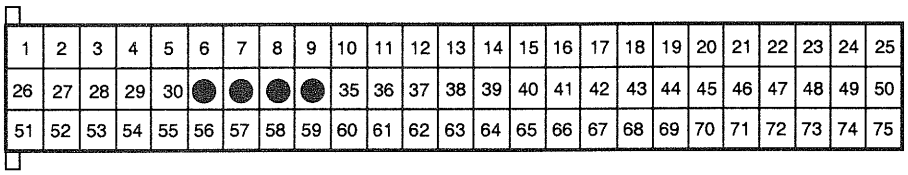
SAB [Passenger]

Terminal	Connected to	Function
1	SRSCM Terminal 34	SAB Low
2	SRSCM Terminal 33	SAB High

[HARNESS CONNECTOR]



BPT[Driver] BPT[Passenger]



SRSCM

ERPG500S

SPECIFICATION ED1CF1A5

SAB resistance : 1.6 ~ 6.1 Ω

TERMINAL & CONNECTOR INSPECTION EC34040C

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

INSPECTION PROCEDURE EA4C5A6D

1. PREPARATION
   Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

2. CHECK SAB RESISTANCE

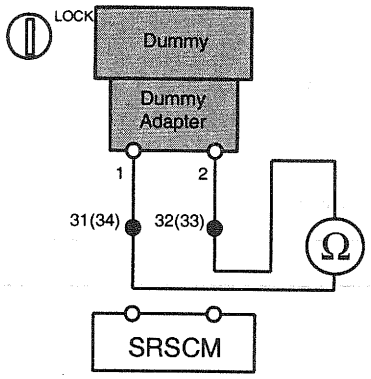
   ⚠ ***CAUTION***

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

   1) 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 32(33) and 31(34) of SRSCM harness connector.

Specification (resistance) : 1.6 ~ 6.1 Ω



ERPG500Y

   3) Is the measured resistance within specification?

   YES

   ▶ Replace the Side Airbag(SAB) module.

   NO

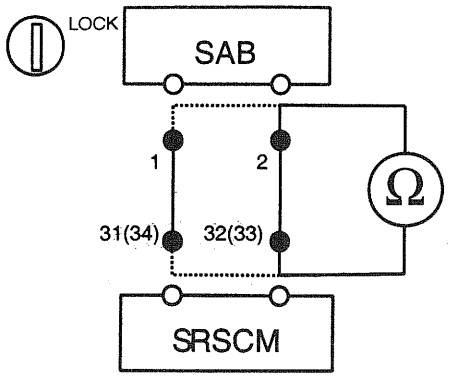
   ▶ Check open circuit.

3. CHECK OPEN CIRCUIT

   1) Measure resistance between the terminal 2 of SAB harness connector and the terminal 32(33) of SRSCM harness connector.

   2) Measure resistance between the terminal 1 of SAB harness connector and the terminal 31(34) of SRSCM harness connector.

Specification (resistance) : below 1 Ω



ERPG200H

3) Is the measured resistance within specification?

YES

▶ Check short circuit.

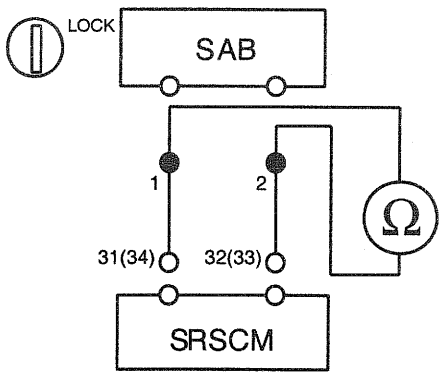
NO

▶ 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



ERPG200I

2) Is the measured resistance within specification?

YES

▶ Go to next step.

NO

▶ 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 - 32)

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

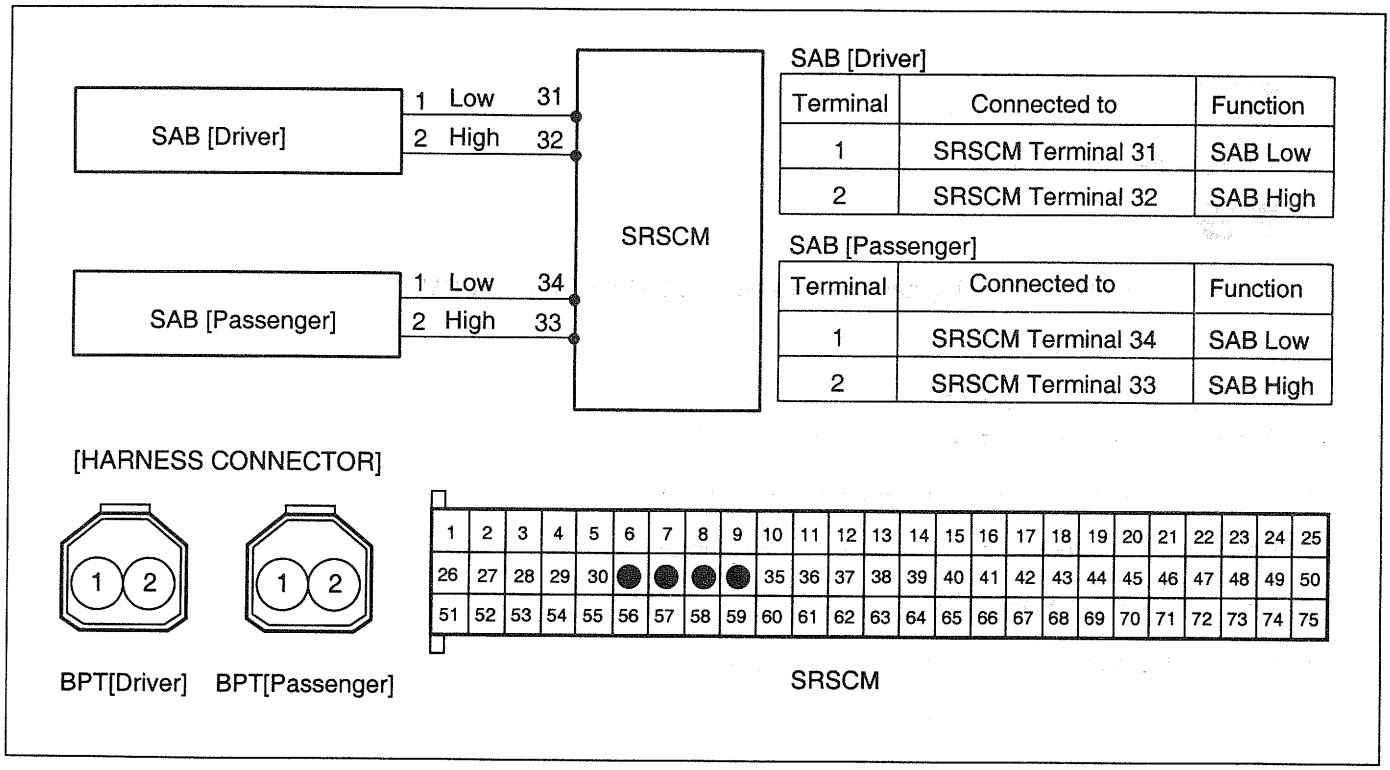
DTC DESCRIPTION E88141AF

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

DTC DETECTING CONDITION EFA4FD7F

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 E807CC89



SAB [Driver]

Terminal	Connected to	Function
1	SRSCM Terminal 31	SAB Low
2	SRSCM Terminal 32	SAB High

SAB [Passenger]

Terminal	Connected to	Function
1	SRSCM Terminal 34	SAB Low
2	SRSCM Terminal 33	SAB High

ERPG500S

TERMINAL & CONNECTOR INSPECTION E327299F

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

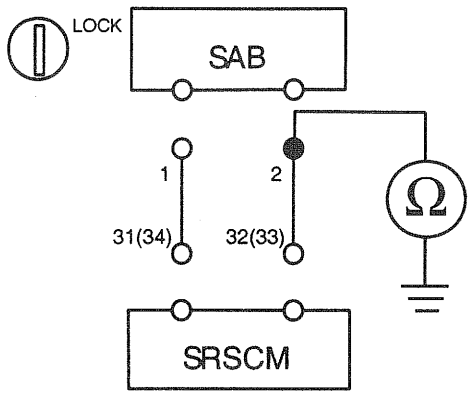
INSPECTION PROCEDURE EAE7FB7B

1. PREPARATION
   Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

2. CHECK SHORT TO GROUND

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

Specification (resistance) : infinite



ERPG200J

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

1) 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, BPT 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)?

YES

▶ Go to next step.

NO

▶ Replace SAB module.

4. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN
Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

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

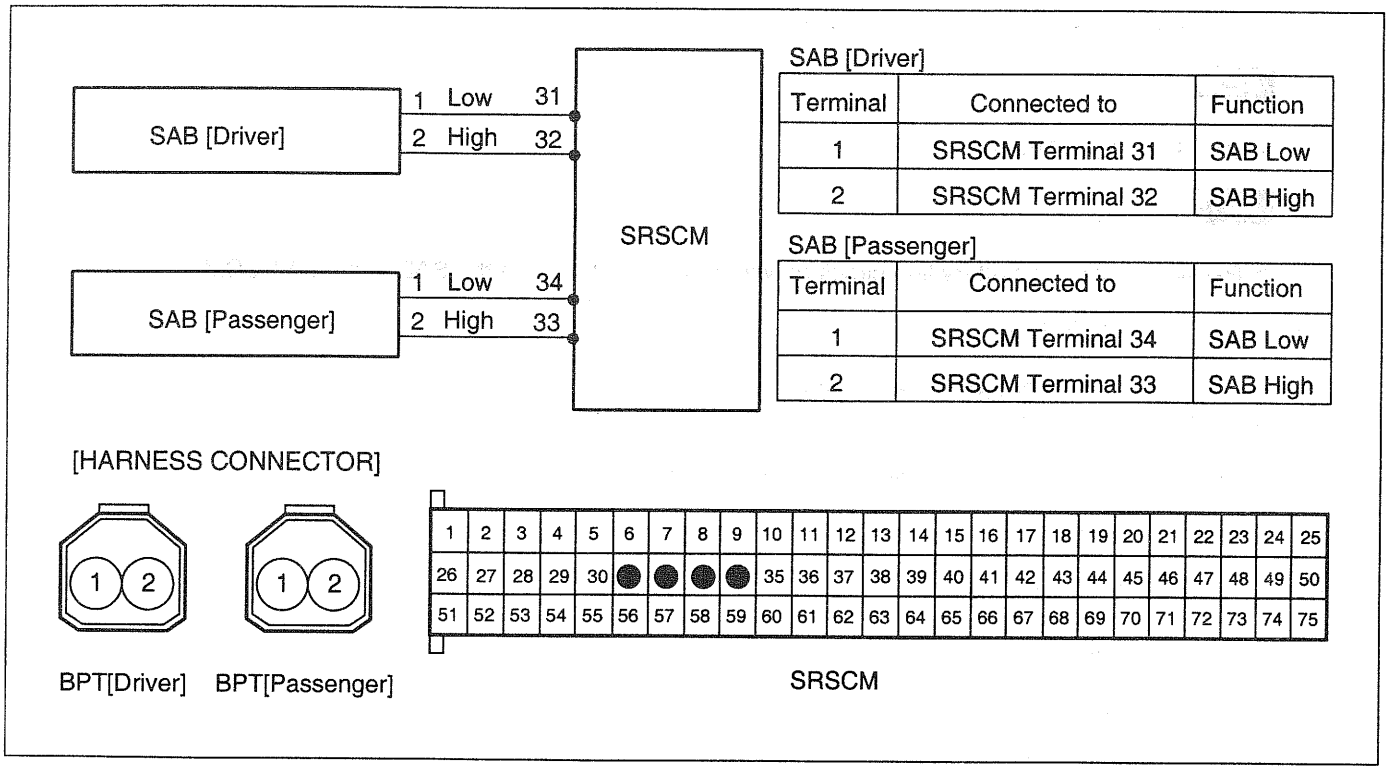
DTC DESCRIPTION ECA4DEDF

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

DTC DETECTING CONDITION EF8A2476

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 E226ACCE



SAB [Driver]

Terminal	Connected to	Function
1	SRSCM Terminal 31	SAB Low
2	SRSCM Terminal 32	SAB High

SAB [Passenger]

Terminal	Connected to	Function
1	SRSCM Terminal 34	SAB Low
2	SRSCM Terminal 33	SAB High

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	●	●	●	●	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75

ERPG500S

TERMINAL & CONNECTOR INSPECTION EF42294A

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

INSPECTION PROCEDURE E7B23CFB

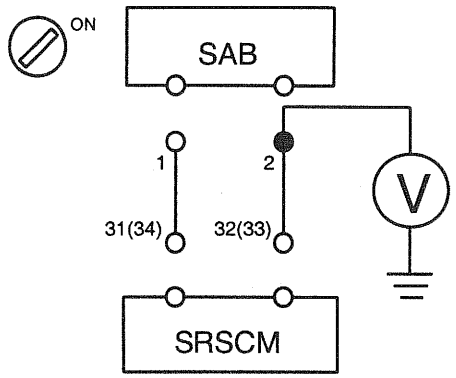
1. PREPARATION
   Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)
2. CHECK SHORT TO BATTERY LINE

1) Connect the battery negative cable to the battery.

2) Turn the ignition switch to ON.

3) Measure voltage between the terminal 2 of SAB harness connector and chassis ground.

Specification (voltage) : Approximately 0 V



ERPG200K

4) Is the measured voltage within specification?

YES

▶ Check the SAB Module.

NO

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

3. CHECK THE SAB MODULE

1) 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, BPT 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)?

YES

▶ Go to next step.

NO

▶ Replace SAB module.

4. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN
Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

DTC B1400 SIDE IMPACT SENSOR [FRONT-DRIVER] DEFECT
DTC B1403 SIDE IMPACT SENSOR [FRONT-PASSENGER] DEFECT
DTC B1409 SIDE IMPACT SENSOR [FRONT-DRIVER] COMMUNICATION ERROR
DTC B1410 SIDE IMPACT SENSOR [FRONT-PASSENGER] COMMUNICATION ERROR

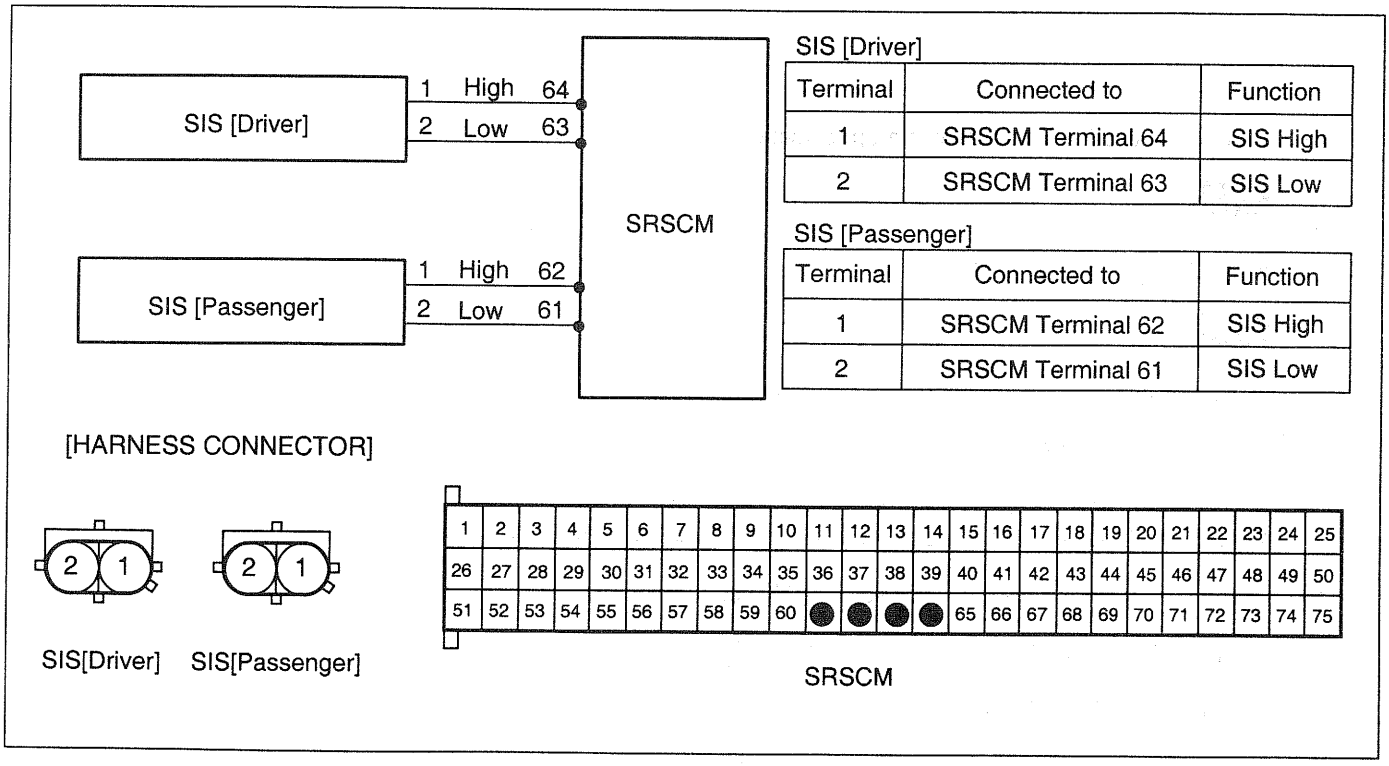
DTC DESCRIPTION E35E24D4

The detecting system for side crash consists of the SRSCM and two 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 EF2B3EA5

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

SCHEMATIC DIAGRAM E8E1ACCE



SIS [Driver]

Terminal	Connected to	Function
1	SRSCM Terminal 64	SIS High
2	SRSCM Terminal 63	SIS Low

SIS [Passenger]

Terminal	Connected to	Function
1	SRSCM Terminal 62	SIS High
2	SRSCM Terminal 61	SIS Low

ERPG200L

TERMINAL & CONNECTOR INSPECTION ECF29AD1

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

INSPECTION PROCEDURE E2C29796

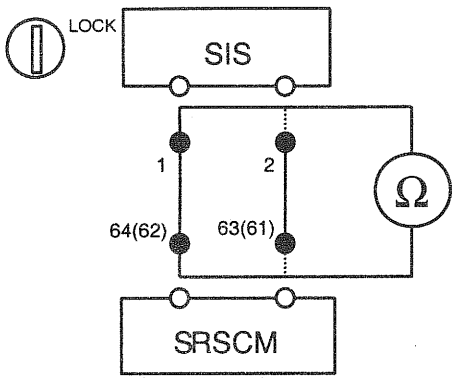
1. PREPARATION
   Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

2. CHECK SIS CIRCUIT

   1) Measure resistance between the terminal 1 of SIS harness connector and the terminal 64(62) of SRSCM harness connector.

   2) Measure resistance between the terminal 2 of SIS harness connector and the terminal 63(61) of SRSCM harness connector.

Specification (resistance) : below 1 Ω



ERPG502E

   3) Is the measured resistance within specification?

   YES

   ▶ Check Side Impact Sensor.

   NO

   ▶ 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.

   2) Install the DAB module and connect the DAB connector.

   3) Connect the connectors of the PAB, SAB, BPT 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)?

YES

▶ Go to next step.

NO

▶ Replace SIS.

4. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN
Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

DTC B1527 PASSENGER AIRBAG DEACTIVATION SWITCH OPEN OR SHORT TO BATTERY

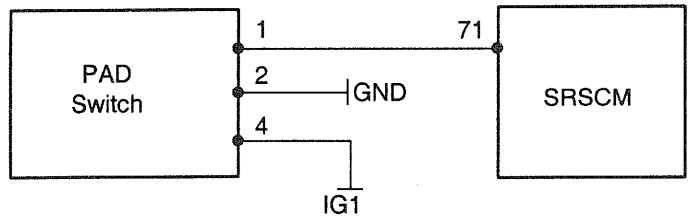
DTC DESCRIPTION ED2E5FCD

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

DTC DETECTING CONDITION E3D5FDF7

DTC	Condition	Probable cause
B1527	• Short to battery line between PAD switch and SRSCM • SRSCM malfunction • PAD switch malfunction	• PAD switch • Wiring harness • SRSCM

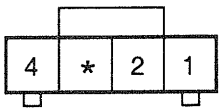
SCHEMATIC DIAGRAM EE75164C



[PAD Switch]

Terminal	Connected to	Function
1	SRSCM Terminal 71	PAD Switch
2	Ground	
4	IG1	Battery Voltage

[HARNESS CONNECTOR]



PAD SWITCH

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	●	72	73	74	75

SRSCM

ERPG501T

SPECIFICATION E1CD108D

PAD Switch Status	Current (mA)	Related DTC
Open or Short to Battery	< 2.71	B1527
PAB Enabled Position	2.96 ~ 5.01	
Defect	5.46 ~ 6.68	B1529
PAB Disabled Position	7.28 ~ 12.73	
Short or Short to Ground	> 13.87	B1528

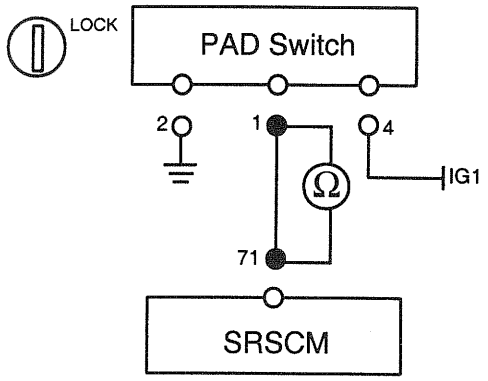
TERMINAL & CONNECTOR INSPECTION E3C3B5DC

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

INSPECTION PROCEDURE EAB163DE

1. PREPARATION
   Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)
2. CHECK OPEN CIRCUIT
   1) Disconnect the connector of the PAD switch.
   2) Measure resistance between the terminal 71 of the SRSCM harness connector and 1 of PAD switch connector.

Specification (resistance) : below 1 Ω



ERPG500Z

   3) Is the measured resistance within specification?

YES

▶ Check short to battery line.

NO

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

3. CHECK SHORT TO BATTERY LINE

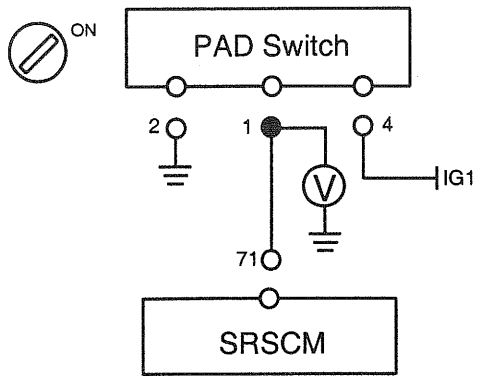
1) Connect the battery negative cable to the battery.

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



ERPG501A

5) Is the measured voltage within specification?

YES

▶ 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.

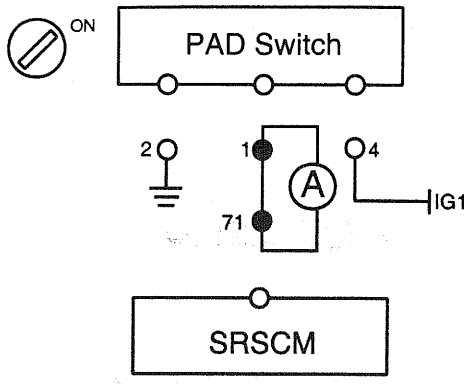
2) Connect the PAD switch.

3) Connect the battery negative cable to the battery.

4) Turn the ignition switch to ON.

5) Measure current between the terminal 71 of the SRSCM harness connector and 1 of PAD switch connector.

Specification (current) :
PAD switch (Enabled position) : 2.96 ~ 5.01 mA
PAD switch (Disabled position) : 7.28 ~ 12.73 mA



ERPG502B

6) Is the measured current within specification?

YES

▶ Go to next step.

NO

▶ Replace the PAD switch.

5. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN
Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

DTC B1528 PASSENGER AIRBAG DEACTIVATION SWITCH SHORT OR SHORT TO GROUND

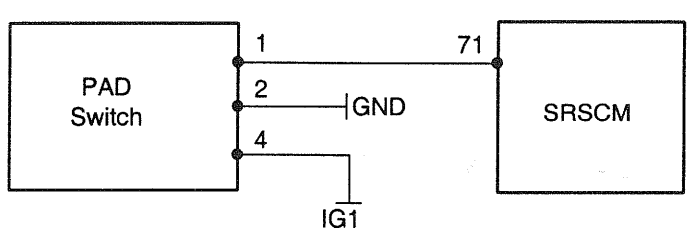
DTC DESCRIPTION EFB413DF

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

DTC DETECTING CONDITION E4A96CCA

DTC	Condition	Probable cause
B1528	• Short to ground between PAD switch and SRSCM • PAD switch malfunction • SRSCM malfunction	• PAD switch • Wiring harness • SRSCM

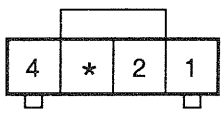
SCHEMATIC DIAGRAM E7A2A1B2



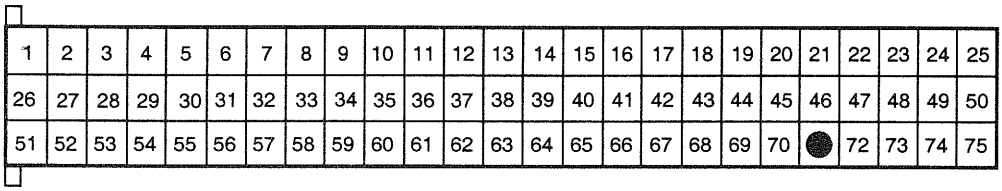
[PAD Switch]

Terminal	Connected to	Function
1	SRSCM Terminal 71	PAD Switch
2	Ground	
4	IG1	Battery Voltage

[HARNESS CONNECTOR]



PAD SWITCH



SRSCM

ERPG501T

SPECIFICATION E97717F7

PAD Switch Status	Current (mA)	Related DTC
Open or Short to Battery	< 2.71	B1527
PAB Enabled Position	2.96 ~ 5.01	
Defect	5.46 ~ 6.68	B1529
PAB Disabled Position	7.28 ~ 12.73	
Short or Short to Ground	> 13.87	B1528

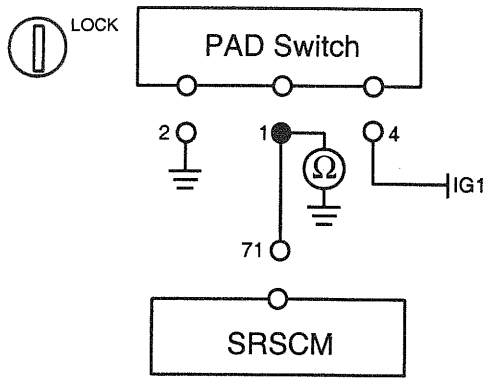
TERMINAL & CONNECTOR INSPECTION EE2CD656

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

INSPECTION PROCEDURE E4D4D55D

1. PREPARATION
   Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)
2. CHECK SHORT TO GROUND
   1) Disconnect the connector of the PAD switch.
   2) Measure resistance between the terminal 1 of PAD switch connector and chassis ground.

Specification (resistance) : infinite



ERPG502C

   3) Is the measured resistance within specification?

YES

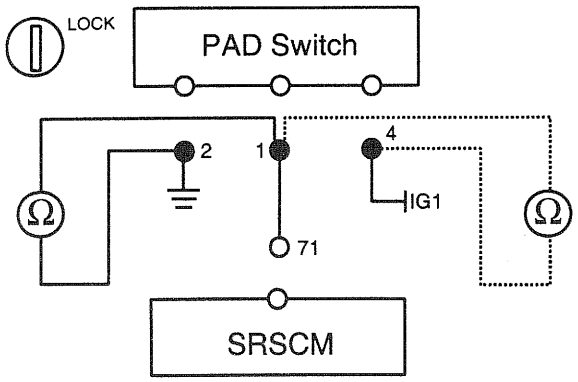
▶ Check short circuit.

NO

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

3. CHECK SHORT CIRCUIT
   1) Measure resistance between 1 and 2 of PAD switch connector.
   2) Measure resistance between 1 and 4 of PAD switch connector.

Specification (resistance) : infinite



ERPG501D

3) Is the measured resistance within specification?

YES

▶ 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.

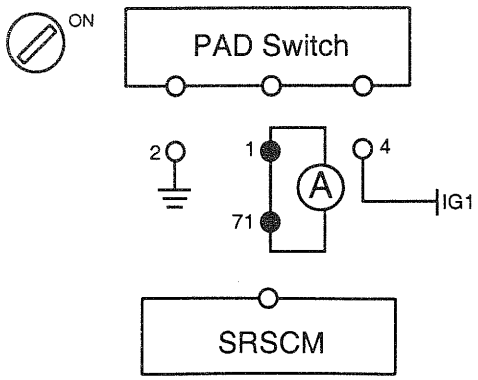
2) Connect the PAD switch.

3) Connect the battery negative cable to the battery.

4) Turn the ignition switch to ON.

5) Measure current between the terminal 71 of the SRSCM harness connector and 1 of PAD switch connector.

Specification (current) :
PAD switch (Enabled positon) : 2.96 ~ 5.01 mA
PAD switch (Disabled positon) : 7.28 ~ 12.73 mA



ERPG501E

6) Is the measured current within specification?

YES

▶ Go to next step.

NO

▶ Replace the PAD switch.

5. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN
Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

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

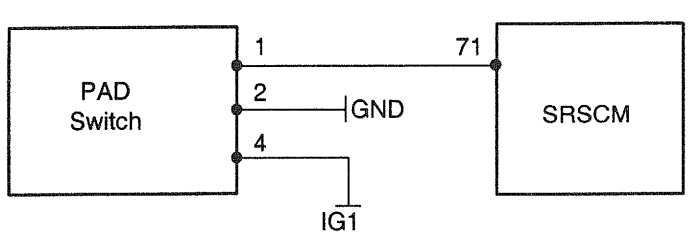
DTC DESCRIPTION EFDD4BE9

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

DTC DETECTING CONDITION E9090BE4

DTC	Condition	Probable cause
B1529 B1530	• PAD switch malfunction • SRSCM malfunction	• PAD switch • Wiring harness • SRSCM

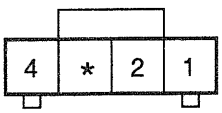
SCHEMATIC DIAGRAM EC8F4FA0



[PAD Switch]

Terminal	Connected to	Function
1	SRSCM Terminal 71	PAD Switch
2	Ground	
4	IG1	Battery Voltage

[HARNESS CONNECTOR]



PAD SWITCH

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	●	72	73	74	75

SRSCM

ERPG501T

SPECIFICATION EE50F982

PAD Switch Status	Current (mA)	Related DTC
Open or Short to Battery	< 2.71	B1527
PAB Enabled Position	2.96 ~ 5.01	
Defect	5.46 ~ 6.68	B1529
PAB Disabled Position	7.28 ~ 12.73	
Short or Short to Ground	> 13.87	B1528

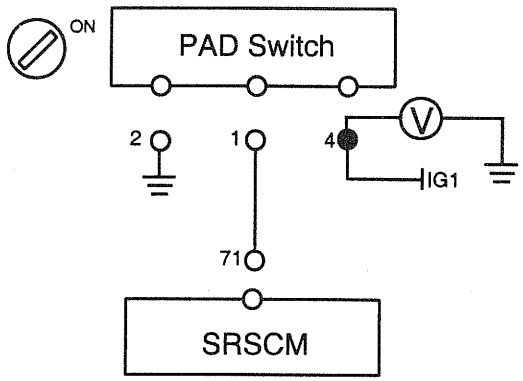
TERMINAL & CONNECTOR INSPECTION E10BC487

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

INSPECTION PROCEDURE EEB70A3B

1. PREPARATION
   Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)
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 4 of PAD switch connector and chassis ground.

Specification (voltage) : 9 ~ 16 V



ERPG501F

   4) Is the measured voltage within specification?

YES

▶ Check ground circuit.

NO

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

3. CHECK GROUND CIRCUIT

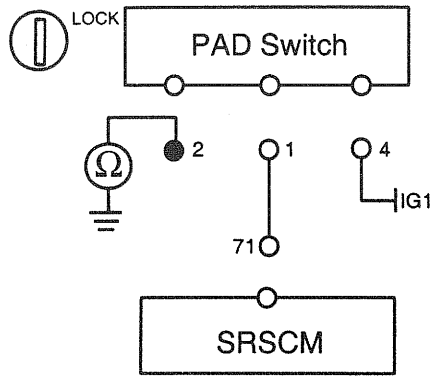
1) Turn the ignition switch to OFF.

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 connector and chassis ground.

Specification (resistance) : 0 Ω



ERPG501G

5) Is the measured resistance within specification?

YES

▶ Go to next step.

NO

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

4. CHECK THE PAD SWITCH

1) Connect the SRSCM connector.

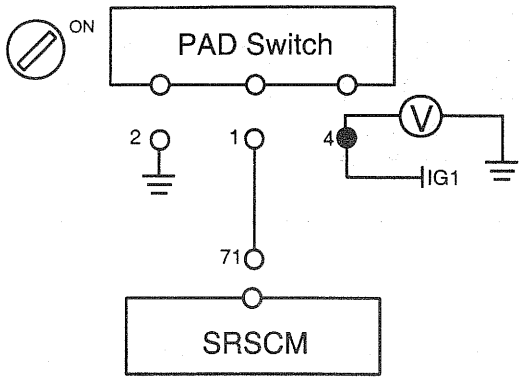
2) Connect the PAD switch.

3) Connect the battery negative cable to the battery.

4) Turn the ignition switch to ON.

5) Measure current between the terminal 71 of the SRSCM harness connector and 1 of PAD switch connector.

Specification (current) :
PAD switch (Enabled positon) : 2.96 ~ 5.01 mA
PAD switch (Disabled positon) : 7.28 ~ 12.73 mA



ERPG501F

6) Is the measured current within specification?

YES

▶ Go to next step.

NO

▶ Replace the PAD switch.

5. CLEAR THE DTC AND CHECK THE VEHICLE AGAIN
Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

DTC B1650 CRASH RECORDED - FRONTAL (REPLACE SRSCM)
DTC B1651 CRASH RECORDED - DRIVER SIDE (REPLACE SRSCM)
DTC B1652 CRASH RECORDED - PASSENGER SIDE (REPLACE SRSCM)
DTC B1657 CRASH RECORDED - BELT PRETENSIONER ONLY
DTC B1658 BELT PRETENSIONER 6 TIMES DEPLOYMENT (REPLACE SRSCM)

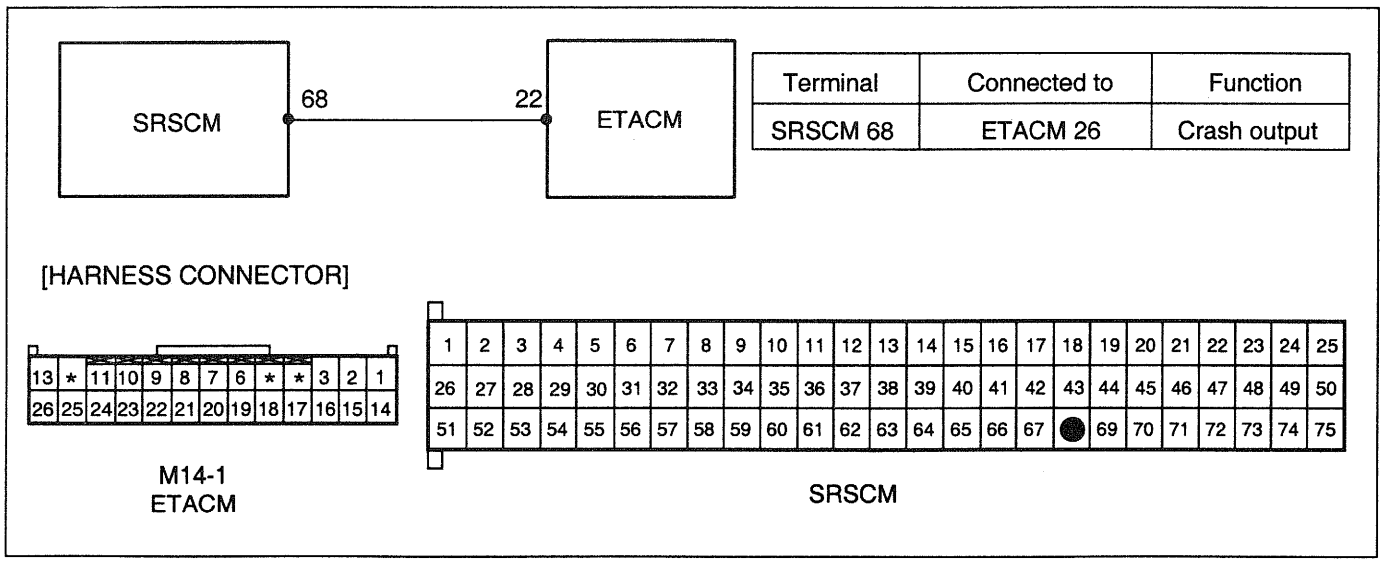
DTC DESCRIPTION E9D0B6D7

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 ETACM 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 EC23DE10

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

SCHEMATIC DIAGRAM ECCBBF56



Terminal	Connected to	Function
SRSCM 68	ETACM 26	Crash output

ERPG500U

INSPECTION PROCEDURE EACB0C4A

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.

DTC B2503 SRS WARNING LAMP OPEN OR SHORT TO GROUND
DTC B2504 SRS WARNING LAMP SHORT OR SHORT TO BATTERY

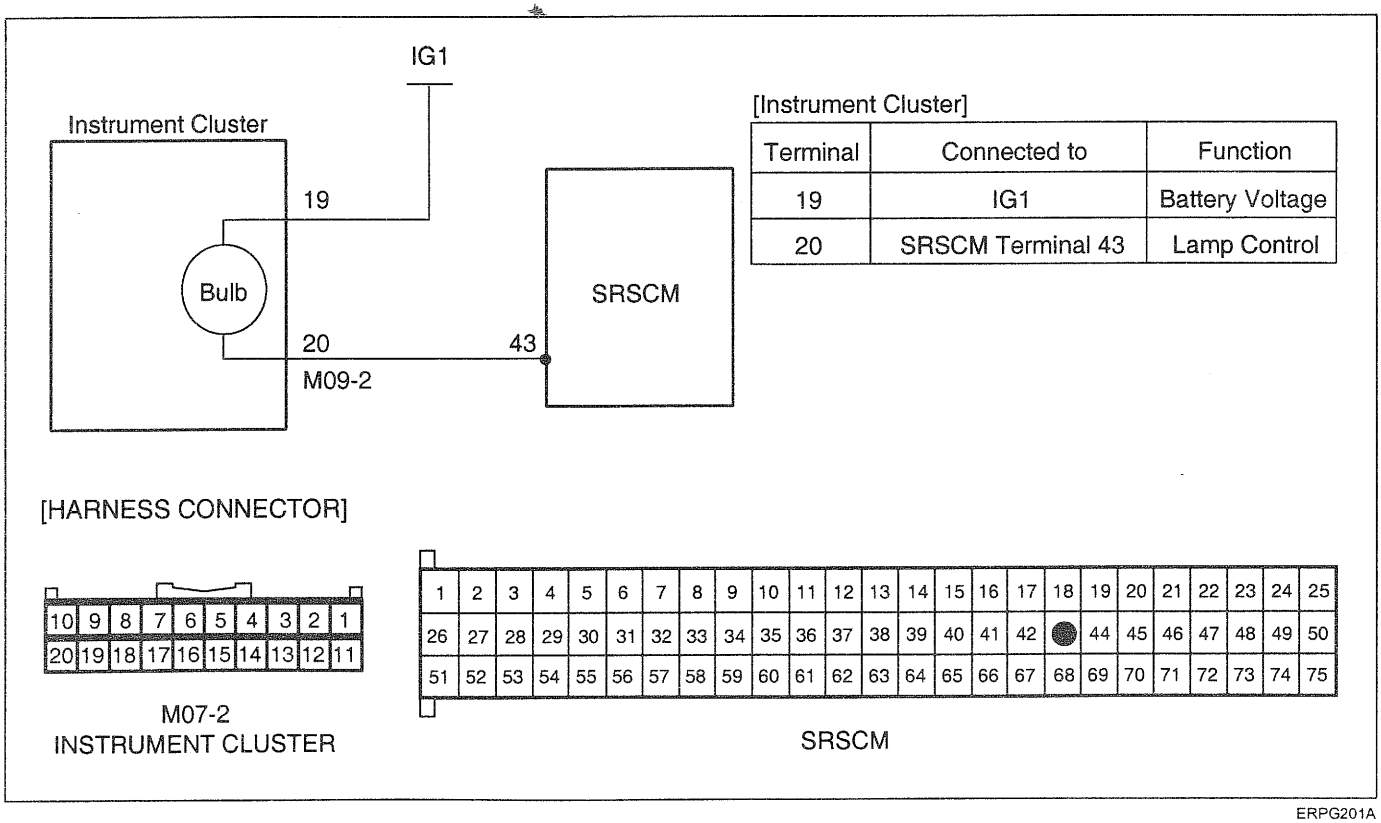
DTC DESCRIPTION E9AF10CB

The SRS warning lamp is located in the cluster. When the airbag system is normal, the SRS warning lamp flashes 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 E62A81F0

DTC	Condition	Probable cause
B2503 B2504	• 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	• Fuse • Warning lamp bulb • Wiring Harness • SRSCM

SCHEMATIC DIAGRAM E1097168



ERPG201A

TERMINAL & CONNECTOR INSPECTION E2E88F03

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

INSPECTION PROCEDURE EB82BCF6

1. PREPARATION
   Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

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.

   NO

   ▶ Repair or replace the fuses.

3. CHECK THE WARNING 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.

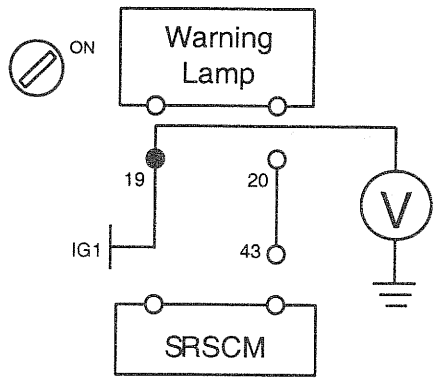
4. CHECK SOURCE VOLTAGE

   1) Connect the battery negative cable to the battery.

   2) Turn the ignition switch to ON.

   3) Measure voltage between the terminal 19 of the Instrument Cluster harness connector and chassis ground.

Specification (voltage) : 9 ~ 16 V



ERPG201B

4) Is the measured voltage within specification?

YES

▶ Check short to battery line.

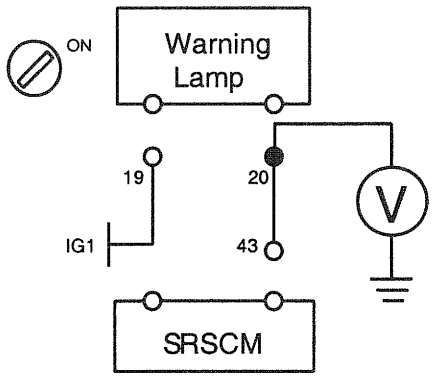
NO

▶ 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 20 of the Instrument Cluster harness connector and chassis ground.

Specification (voltage) : Approximately 0 V



ERPG201C

2) Is the measured voltage within specification?

YES

▶ Check short or short to ground.

NO

▶ Repair the short to battery line circuit on wiring harness between the SRSCM and the Warning Lamp.

6. CHECK SHORT OR SHORT TO GROUND

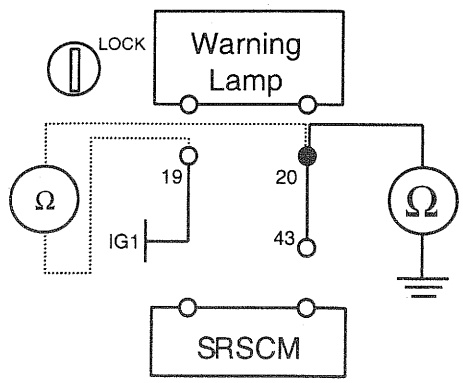
1) Turn the ignition switch to LOCK.

2) Disconnect the battery negative cable from the battery.

3) Measure resistance between the terminal 20 of the Instrument Cluster harness connector and chassis ground.

4) Measure resistance between the terminal 20 and 19 of the Instrument Cluster harness connector.

Specification (resistance) : infinite



ERPG201D

5) Is the measured resistance within specification?

YES

▶ Check open circuit.

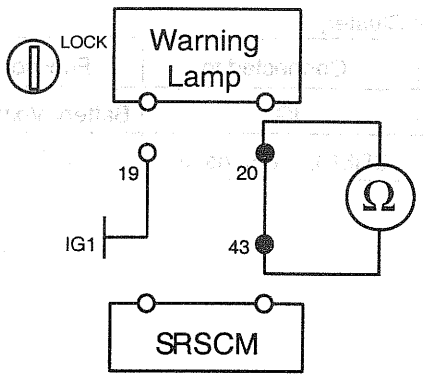
NO

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

7. CHECK OPEN CIRCUIT

1) Measure resistance between the terminal 20 of the Instrument Cluster connector and the terminal 43 of SRSCM harness connector.

Specification (resistance) : below 1 Ω



ERPG201E

2) Is the measured resistance within specification?

YES

▶ Go to next step.

NO

▶ 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 - 32)

DTC B2505 PASSENGER AIRBAG DEACTIVATION LAMP FAULT

DTC DESCRIPTION EBB8D5C6

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.

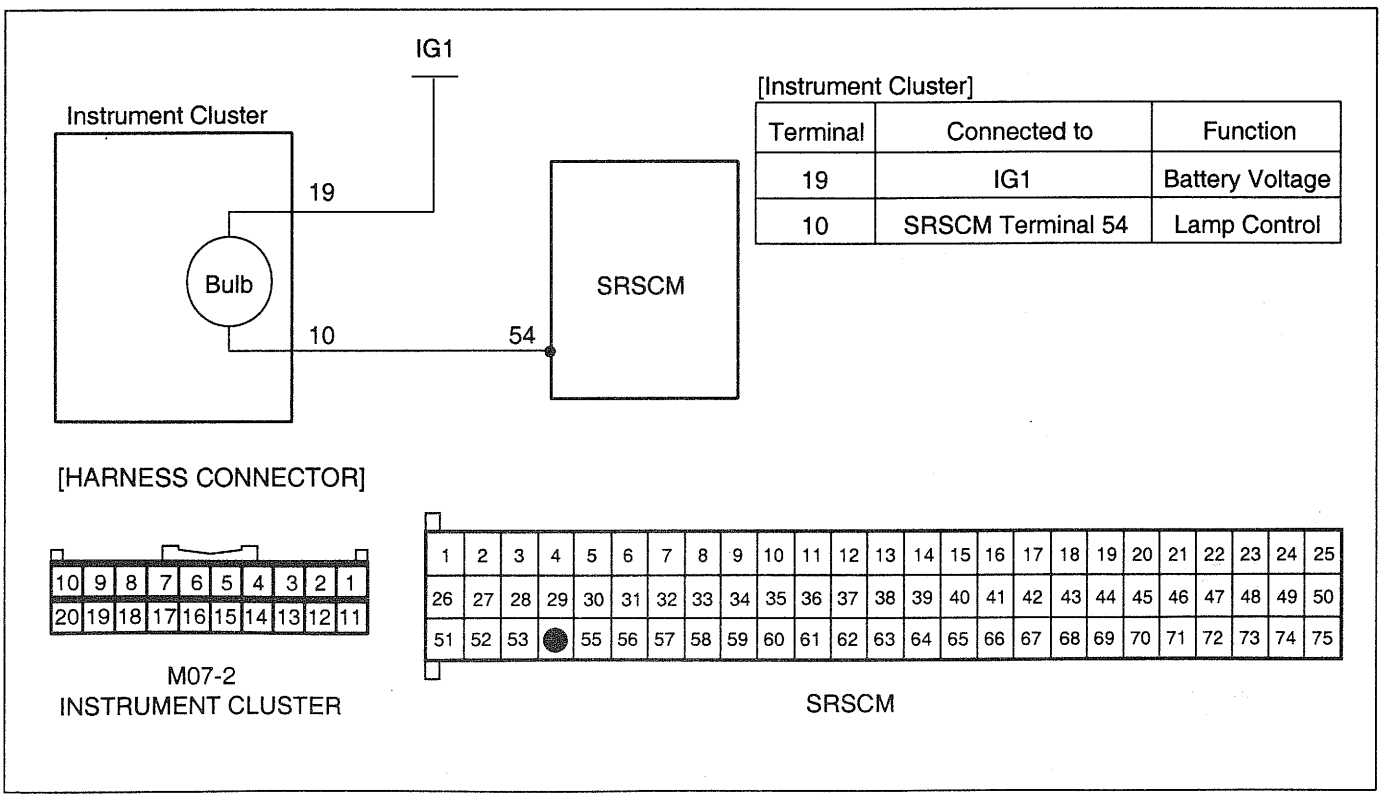
1. The bulb is short, or there is a short to battery condition on the PAD lamp input connection to the SRSCM. This condition is only detectable while the PAD lamp is commanded ON. If a short to battery condition is detected, the PAD lamp shall be commanded OFF for 15 seconds to protect the circuit.

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 E35CF223

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	• Fuse • PAD lamp bulb • Wiring Harness • SRSCM

SCHEMATIC DIAGRAM E1DFFCFA



ERPG500V

TERMINAL & CONNECTOR INSPECTION EE3938E0

Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)

INSPECTION PROCEDURE EADBBA20

1. PREPARATION
   Refer to the DESCRIPTION in this TROUBLESHOOTING part.(See page RT - 32)
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?

   YES

   ▶ Check the PAD lamp bulb.

   NO

   ▶ 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?

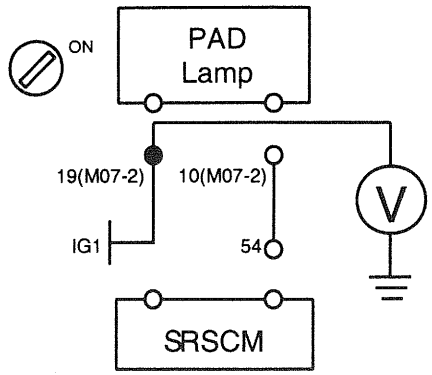
   YES

   ▶ 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 19 of the Instrument Cluster(M07-2) harness connector and chassis ground.

Specification (voltage) : 9 ~ 16 V



ERPG510C

4) Is the measured voltage within specification?

YES

▶ Check short to battery line.

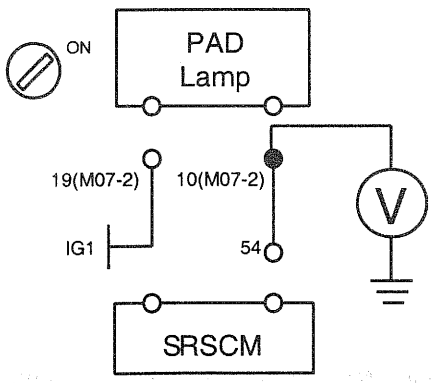
NO

▶ 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 10 of the Instrument Cluster(M07-2) harness connector and chassis ground.

Specification (voltage) : Approximately 0 V



ERPG510D

2) Is the measured voltage within specification?

YES

▶ 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

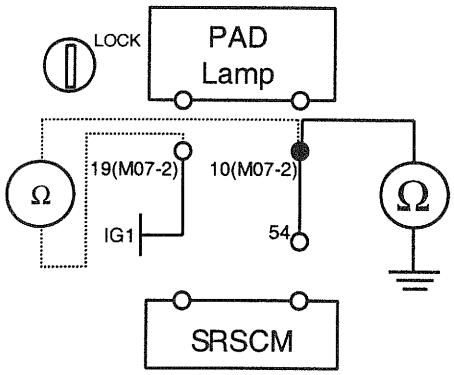
1) Turn the ignition switch to LOCK.

2) Disconnect the battery negative cable from the battery.

3) Measure resistance between the terminal 10 of the Instrument Cluster(M07-2) harness connector and chassis ground.

4) Measure resistance between the terminal 19(M07-2) and 10(M07-2) of the Instrument Cluster harness connector.

Specification (resistance) : infinite



ERPG510E

5) Is the measured resistance within specification?

YES

▶ Check open circuit.

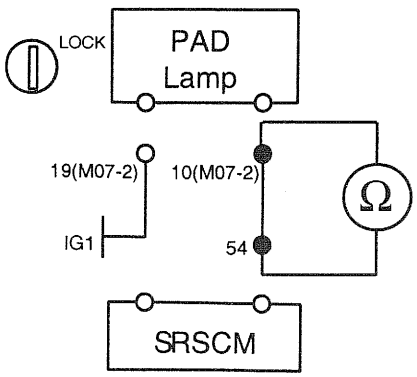
NO

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

7. CHECK OPEN CIRCUIT

1) Measure resistance between the terminal 10 of the Instrument Cluster(M07-2) connector and the terminal 54 of SRSCM harness connector.

Specification (resistance) : below 1 Ω



ERPG510F

2) Is the measured resistance within specification?

YES

▶ Go to next step.

NO

▶ 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 - 32)

AIR BAG MODULE DISPOSAL

AIRBAG DISPOSAL E45A3823

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 :

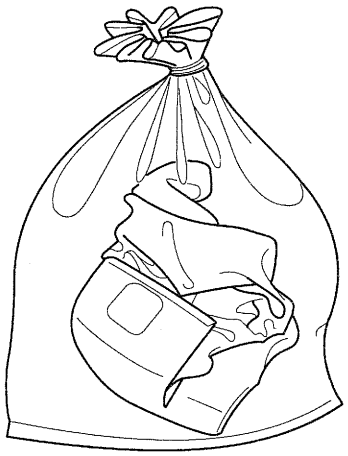
1. Remove the glove box, then disconnect the 2P connector between the front passenger's airbag and SRS main harness.
2. Install the SST(0957A-38100).

SIDE AIRBAG :

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

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.



ERKD002U

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.