RESTRAINTS



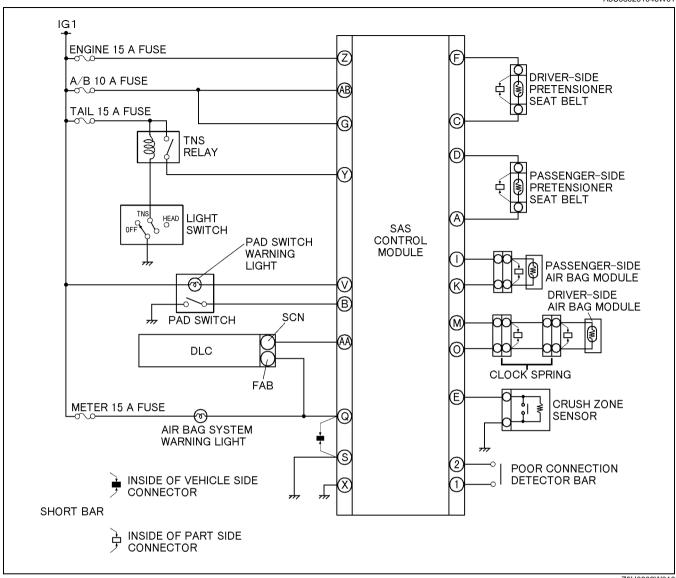
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08-02 ON-BOARD DIAGNOSTIC			•

AIR BAG SYSTEM WIRING DIAGRAM. 08–02–2 DTC 06. 08–02–8 FOREWORD. 08–02–2 DTC 07. 08–02–11 Flowchart 08–02–2 DTC 11. 08–02–12 Post-repair Operation 08–02–4 DTC 12. 08–02–14 DTC TABLE 08–02–5 DTC 49. 08–02–15 DTC 01. 08–02–6 DTC 61. 08–02–16 DTC 02. 08–02–6 DTC 91. 08–02–18 DTC 03. 08–02–7

08-02

AIR BAG SYSTEM WIRING DIAGRAM

A5U080201046W01



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A5U080201046W02

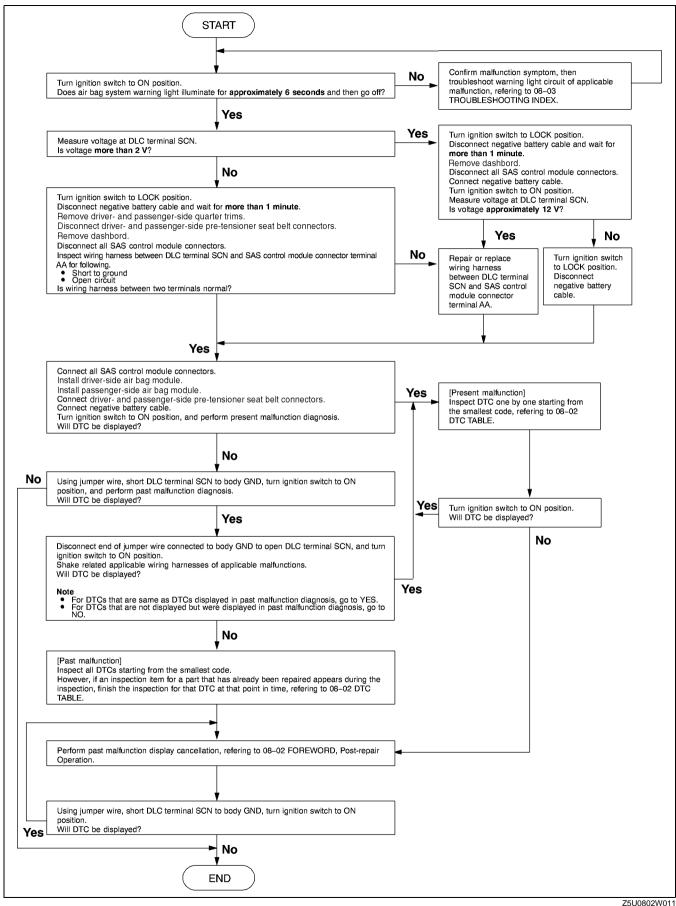
FOREWORD

• Use the following flowchart to verify the cause of the trouble.

Flowchart

Note

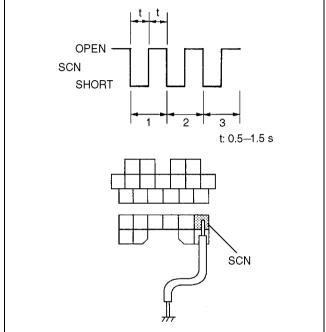
- While performing the inspection of the past malfunction code, the applicable DTCs may be added to memory by removing or disconnecting the related parts. Inspect only the DTCs that were indicated before inspecting.
- When DTCs of present malfunction are no longer output after present and/or past malfunctions have been repaired, be sure to perform past malfunction display cancellation to prevent repair of malfunctions that have already been repaired.



Post-repair Operation Past malfunction code display cancellation

Caution

- Connecting the wrong DLC terminal may possibly cause a malfunction. Carefully connect the specified terminal only.
- 1. Turn the ignition switch to the ON position.
- 2. Wait until the air bag system warning light illuminates approximately 6 seconds and goes off.
- 3. Perform both the following steps alternately **three times** each at **0.5—1.5 seconds** intervals.
 - (1) Use a jumper wire to short the DLC terminal SCN to body GND.
 - (2) Disconnect the jumper wire from body GND.
- 4. If the DTCs are displayed, wait until they disappear.
- 5. Using a jumper wire, short the DLC terminal SCN to body GND to verify that the DTCs of the past malfunction are not displayed.
 - If the DTCs are still displayed, perform the past malfunction display cancellation again.
- 6. Turn the ignition switch to the LOCK position.
- 7. Disconnect the jumper wire from the DLC.



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A5U080201046W03

DTC TABLE

• DTCs are common for present and past malfunction diagnosis.

Note

- When DTCs not shown in the DTC table are displayed, replace the SAS control module.
- After a new SAS control module is installed, the air bag system warning light continuously flashes when
 the ignition switch is turned to the ON position. This is the deployment authorization standby code output
 by the SAS control module. Perform the deployment authorization and restore the system to an
 operational state.
- If the air bag system warning light does not illuminate or remains illuminated when the ignition switch is turned to the ON position, inspect and repair the air bag system warning light circuitry and then confirm that the air bag system warning light is operational.

DTC	Output signal	Malfunction location	Page
01		SAS control module connector poor connection	(See 08-02-6 DTC 01)
02		SAS control module	(See 08–02–6 DTC 02)
03		Power supply of SAS control module	(See 08-02-7 DTC 03)
06		Driver-side air bag module system	(See 08-02-8 DTC 06)
07		Passenger-side air bag module system	(See 08-02-11 DTC 07)
11		Driver-side pre-tensioner seat belt system	(See 08–02–12 DTC 11)
12		Passenger-side pre- tensioner seat belt system	(See 08–02–14 DTC 12)
49		Passenger air bag deactivation system	(See 08–02–15 DTC 49)
61		Crush zone sensor system	(See 08–02–16 DTC 61)
91		Air bag system warning light circuit	(See 08–02–18 DTC 91)
_	Continuously flashes	Deployment authorization standby code	_

08-02

DTC 01

A5U080201046W04

DTC 01	SAS control module connector poor connection			
DETECTION CONDITION	Warning Detection conditions are for understanding DTC outline before performing inspection. Performing inspection with only detection conditions may cause injury due to operating error or damage the system. When performing inspection, always follow inspection procedure. There is no continuity between poor connection detector bar terminals of SAS CM.			
POSSIBLE CAUSE	Poor connection of any SAS CM connector Malfunction of SAS CM connector			
	SAS CONTROL MODULE CONNECTOR			
	AA Y W U S Q O M K I G E C A			
	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$			
HARNESS SIDE CONNECTOR (VIEW FROM HARNESS SIDE)				

Diagnostic procedure

STEP	INSPECTION		ACTION
1	VERIFY SAS CM CONNECTOR IS	Yes	Go to next step.
	CONNECTED WITH SAS CM	No	Reconnect connector properly.
	Warning Handling air bag system components improperly can accidentally deploy air bag modules and pre-tensioner seat belt, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08–10–3 AIR BAG SYSTEM SERVICE WARNINGS)		
	 Turn ignition switch to LOCK position. Disconnect negative battery cable and wait for more than 1 minute. Remove dashboard. (See 09–17–2 DASHBOARD REMOVAL/INSTALLATION.) Is SAS CM connector securely connected? 		
2	INSPECT SAS CM CONNECTOR	Yes	Present malfunction diagnosis:
	 Remove driver- and passenger-side quarter trims. Disconnect driver- and passenger-side pre-tensioner seat belt connectors. Disconnect SAS CM connector. Inspect poor connection detector bar. 		Replace SAS CM. (See 08–10–10 SAS CONTROL MODULE REMOVAL/INSTALLATION) Past malfunction diagnosis: Troubleshooting completed.
	Is SAS CM connector okay?	No	Replace wiring harnesses.

DTC 02

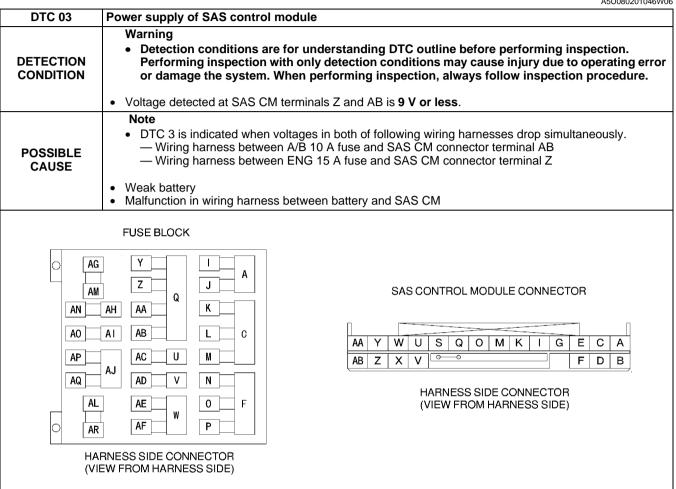
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DTC 02	SAS control module
DETECTION CONDITION	Warning • Detection conditions are for understanding DTC outline before performing inspection. Performing inspection with only detection conditions may cause injury due to operating error or damage the system. When performing inspection, always follow inspection procedure.
	Malfunction in SAS CM inner circuit.
POSSIBLE CAUSE	SAS CM malfunction

Diagnostic procedure

ACTION Replace SAS CM. (See 08–10–10 SAS CONTROL MODULE REMOVAL/INSTALLATION)

DTC 03



STEP	INSPECTION		ACTION
1	INSPECT BATTERY	Yes	Go to next step.
	Measure voltage of battery.Is voltage more than 9 V?	No	Battery is weak. Inspect charge/discharge system. (See 01–17–2 BATTERY INSPECTION)
2	INSPECT WIRING HARNESS BETWEEN	Yes	Go to next step.
	 BATTERY AND FUSE BLOCK Remove fuse block without disconnecting connectors. Turn ignition switch to ON position. Measure voltage at terminals Y and AB of fuse block. Is voltage of at least either terminal more than 9 V? 	No	Repair wiring harnesses.

STEP	INSPECTION		ACTION
3	INSPECT WIRING HARNESS BETWEEN FUSE BLOCK AND SAS CM Warning • Handling air bag system components improperly can accidentally deploy air	Yes	Present malfunction diagnosis: Replace SAS CM. (See 08–10–10 SAS CONTROL MODULE REMOVAL/INSTALLATION) Past malfunction diagnosis: Troubleshooting completed.
	bag modules, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08–10–3 AIR BAG SYSTEM SERVICE WARNINGS)	No	Replace wiring harnesses.
	 Turn ignition switch to LOCK position. Disconnect negative battery cable and wait for more than 1 minute. Remove driver- and passenger-side quarter trims. Disconnect driver- and passenger-side pre-tensioner seat belt connectors. Remove dashboard. (See 09–17–2 DASHBOARD REMOVAL/INSTALLATION.) Disconnect SAS CM connector. Connect negative battery cable. Turn ignition switch to ON position. Measure voltage at SAS CM connector terminals Z and AB. Is voltage of at least either terminal more than 9 V? 		

DTC 06

A5U080201046W07

DTC 06	Driver-side air bag module system					
DETECTION CONDITION	 Warning Detection conditions are for understanding DTC outline before performing inspection. Performing inspection with only detection conditions may cause injury due to operating error or damage the system. When performing inspection, always follow inspection procedure. Abnormal resistance (other than 1.85—3.46 ohm) detected in driver-side air bag module circuit Short circuit in wiring harness related SAS CM terminal M or O 					
POSSIBLE CAUSE	 Driver-side air bag module malfun Clock spring malfunction Malfunction of connectors betwee Open or short circuit in wiring harr 					
CLOCK SPRII	NG CLOCK SPRING CONNECTOR	SAS CONTROL MODULE CONNECTOR				
COMPONENT CONNECTOR (VIEW FROM TERMINAL SIE	CONNECTOR (VIEW FROM	AA Y W U S Q O M K I G E C A AB Z X V F D B HARNESS SIDE CONNECTOR (VIEW FROM HARNESS SIDE)				

<u>_</u>	stic procedure		ACTICAL
STEP	INSPECTION		ACTION
1	Warning • Handling air bag system components improperly can accidentally deploy air bag modules and pre-tensioner seat belt, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08–10–3 AIR BAG SYSTEM SERVICE WARNINGS)	Yes No	Present malfunction diagnosis: Go to next step. Past malfunction diagnosis: Go to Step 6. Replace clock spring. (See 08–10–8 CLOCK SPRING REMOVAL/INSTALLATION)
	 Turn ignition switch to LOCK position. Disconnect negative battery cable and wait for more than 1 minute. Remove driver-side air bag module. (See 08–10–5 DRIVER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION) Is separator* of clock spring okay? *: Consists of two parts of female connector that separate short bar from terminal when connected to male connector. 		
2	VERIFY WHETHER MALFUNCTION IS IN	Yes	Go to next step.
	 DRIVER-SIDE AIR BAG MODULE OR OTHER PARTS Connect leads of SST (Fuel And Thermometer checker) or apply 2 ohms resistor to clock spring terminals 3A and 3B. Set resistance of SST (Fuel And Thermometer checker) to 2 ohms. Connect negative battery cable. Turn ignition switch to ON position. Is DTC 06 indicated? 	No	Replace driver-side air bag module. (See 08–10–5 DRIVER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION)
3	INSPECT SEPARATOR* OF CLOCK SPRING	Yes	Go to next step.
	 CONNECTOR Turn ignition switch to LOCK position. Disconnect negative battery cable and wait for more than 1 minute. Remove column cover. Disconnect clock spring connector. Is separator* of clock spring connector okay? *: Consists of two parts of female connector that separate short bar from terminal when connected to male connector. 	No	Replace wiring harness.
4	VERIFY WHETHER MALFUNCTION IS IN	Yes	Go to next step.
	 CLOCK SPRING OR OTHER PARTS Connect leads of SST (Fuel And Thermometer checker) or apply 2 ohms resistor to clock spring connector terminals A and B. Set resistance of SST (Fuel And Thermometer checker) to 2 ohms. Connect negative battery cable. Turn ignition switch to ON position. Is DTC 06 indicated? 	No	Replace clock spring. (See 08–10–8 CLOCK SPRING REMOVAL/ INSTALLATION)

OTED	INCRECTION		ACTION
STEP	INSPECTION		ACTION
5	INSPECT WIRING HARNESS BETWEEN CLOCK SPRING AND SAS CM Turn ignition switch to LOCK position.	Yes	Replace SAS CM. (See 08-10-10 SAS CONTROL MODULE REMOVAL/ INSTALLATION)
	 Disconnect negative battery cable and wait for more than 1 minute. Remove driver- and passenger-side quarter trims. Disconnect driver- and passenger-side pre-tensioner seat belt connectors. Remove dashboard. (See 09–17–2 DASHBOARD REMOVAL/INSTALLATION.) Disconnect SAS CM connector. 	No	Replace wiring harnesses.
	 Inspect following wiring harness between SAS CM and clock spring terminals (harness side) for short to ground, short to power supply, and open circuit: M and A O and B Are wiring harnesses okay? 		
6	INSPECT SEPARATOR* OF CLOCK SPRING	Yes	Go to next step.
	CONNECTOR Remove column cover. Disconnect clock spring connector. Is separator* of clock spring connector okay? Consists of two parts of female connector that separate short bar from terminal when connected to male connector.	No	Replace wiring harness.
7	INSPECT CLOCK SPRING	Yes	Go to next step.
	Remove clock spring. (See 08–10–8 CLOCK SPRING REMOVAL/INSTALLATION) Inspect clock spring. (See 08–10–8 CLOCK SPRING INSPECTION) Is clock spring okay?	No	Replace clock spring. (See 08–10–8 CLOCK SPRING REMOVAL/ INSTALLATION)
8	INSPECT WIRING HARNESS BETWEEN CLOCK SPRING AND SAS CM Remove driver- and passenger-side quarter	Yes	Replace driver-side air bag module. (See 08–10–5 DRIVER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION
	trims. Disconnect driver- and passenger-side pre-tensioner seat belt connectors. Remove dashboard. (See 09–17–2 DASHBOARD REMOVAL/INSTALLATION.) Disconnect SAS CM connector. Inspect following wiring harness between SAS CM and clock spring terminals (harness side) for short to ground, short to power supply, and open circuit: M and A O and B Are wiring harnesses okay?	No	Replace wiring harnesses.

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DTC 07

DTC 07 Passenger-side air bag module system Warning Detection conditions are for understanding DTC outline before performing inspection. Performing inspection with only detection conditions may cause injury due to operating error **DETECTION** or damage the system. When performing inspection, always follow inspection procedure. CONDITION Abnormal resistance (other than 1.63—2.71 ohm) detected in passenger-side air bag module circuit. Short circuit in wiring harness related SAS CM terminal I or K. Passenger-side air bag module malfunction **POSSIBLE** Malfunction of connector between passenger-side air bag module and SAS CM **CAUSE** Open or short circuit in wiring harness between passenger-side air bag module and SAS CM SAS CONTROL MODULE CONNECTOR PASSENGER-SIDE AIR BAG MODULE CONNECTOR W U S 0 М Κ G Ε С Α AA Υ Q 1 Α В Θ AΒ Z Х V F D В HARNESS SIDE CONNECTOR (VIEW FROM TERMINAL SIDE) HARNESS SIDE CONNECTOR

(VIEW FROM HARNESS SIDE)

Diagnostic procedure

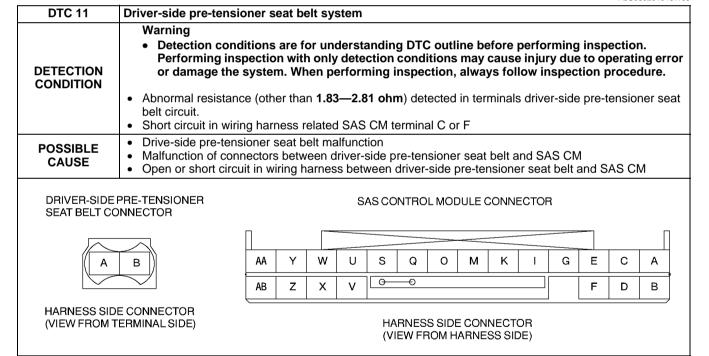
STEP	INSPECTION		ACTION
1	INSPECT SEPARATOR* OF PASSENGER-SIDE AIR BAG MODULE CONNECTOR	Yes	Present malfunction diagnosis: • Go to next step. Past malfunction diagnosis:
	Warning • Handling air bag system components improperly can accidentally deploy air bag modules and pre-tensioner seat belt, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08–10–3 AIR BAG SYSTEM SERVICE WARNINGS)	No	Go to Step 3. Replace wiring harness.
	 Turn ignition switch to LOCK position. Disconnect negative battery cable and wait for more than 1 minute. Remove glove compartment. Disconnect passenger-side air bag module connector. Is separator* of passenger-side air bag module connector okay? *: Consists of two parts of female connector that separate short bar from terminal when connected to male connector. 		
2	VERIFY WHETHER MALFUNCTION IS IN	Yes	Go to next step.
	PASSENGER-SIDE AIR BAG MODULE OR OTHER PARTS • Connect leads of SST (Fuel And Thermometer checker) or apply 2 ohms resistor to passenger-side air bag module connector terminals A and B. • Set resistance of SST (Fuel And Thermometer checker) to 2 ohms. • Connect negative battery cable. • Turn ignition switch to ON position. • Is DTC 07 indicated?	No	Replace passenger-side air bag module. (See 08–10–6 PASSENGER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION)

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STEP	INSPECTION		ACTION
3	INSPECT WIRING HARNESS BETWEEN PASSENGER-SIDE AIR BAG MODULE AND SAS CM Turn ignition switch to LOCK position. Disconnect negative battery cable and wait for more than 1 minute. Remove driver- and passenger-side quarter trims. Disconnect driver- and passenger-side pre-tensioner seat belt connectors. Remove dashboard. (See 09–17–2 DASHBOARD REMOVAL/INSTALLATION.) Disconnect SAS CM connector. Inspect following wiring harness between SAS CM and passenger-side air bag module terminals (harness side) for short to ground, short to power supply, and open circuit: — I and A — K and B Are wiring harnesses okay?	Yes No	Present malfunction diagnosis: Replace SAS CM. (See 08–10–10 SAS CONTROL MODULE REMOVAL/INSTALLATION) Past malfunction diagnosis: Replace passenger-side air bag module. (See 08–10–6 PASSENGER-SIDE AIR BAG MODULE REMOVAL/INSTALLATION) Replace wiring harnesses.

DTC 11

A5U080201046W09



	stic procedure		
STEP	INSPECTION		ACTION
1	INSPECT OF DRIVER-SIDE PRE-TENSIONER	Yes	Replace wiring harness.
	SEAT BELT CONNECTOR	No	Present malfunction diagnosis:
	NAT		Go to next step.
	Warning		Past malfunction diagnosis:
	 Handling air bag system components improperly can accidentally deploy air 		Go to Step 3.
	bag modules and pre-tensioner seat		
	belts, which may seriously injure you.		
	Read AIR BAG SYSTEM SERVICE		
	WARNINGS before handling air bag		
	system components.		
	(See 08-10-3 AIR BAG SYSTEM		
	SERVICE WARNINGS)		
	Turn ignition switch to LOCK position.		
	 Disconnect negative battery cable and wait 		
	for more than 1 minute.		
	Remove driver-side quarter trim.		
	 Disconnect driver-side pre-tensioner seat 		
	belt connector.		
	Is there cracking or chipping in driver-side		
	pre-tensioner seat belt connector?	\ <u>'</u>	On the month of the
2	VERIFY WHETHER MALFUNCTION IS IN DRIVER-SIDE PRE-TENSIONER SEAT BELT	Yes	Go to next step.
	OR OTHER PARTS	No	Replace driver-side pre-tensioner seat belt. (See 08–11–1 SEAT BELT REMOVAL/INSTALLATION)
	Connect leads of SST (Fuel And		(See 00-11-1 SEAT BELT REMOVAL/INSTALLATION)
	Thermometer checker) or apply 2 ohms		
	resistor to terminals A and B of driver-side		
	pre-tensioner seat belt connector.		
	Set resistance of SST (Fuel And		
	Thermometer checker) to 2 ohms .		
	Connect negative battery cable.Turn ignition switch to ON position.		
	Is DTC 11 indicated?		
3	INSPECT WIRING HARNESS BETWEEN	Yes	Present malfunction diagnosis:
	DRIVER-SIDE PRE-TENSIONER SEAT BELT	100	Replace SAS CM.
	ANS SAS CM		(See 08-10-10 SAS CONTROL MODULE REMOVAL/
	Turn ignition switch to LOCK position.		INSTALLATION)
	Disconnect negative battery cable and wait		Past malfunction diagnosis:
	for more than 1 minute.		Replace passenger-side pre-tensioner seat belt.
	Remove passenger-side quarter trim.		(See 08-11-1 SEAT BELT REMOVAL/
	Disconnect passenger-side pre-tensioner and helt connector.		INSTALLATION)
	seat belt connector. Remove dashboard.	No	Replace wiring harness.
	(See 09–17–2 DASHBOARD REMOVAL/		
	INSTALLATION.)		
	 Disconnect SAS CM connector. 		
	Inspect wiring harness between terminal F of		
	SAS CM connector and terminal A of driver-		
	side pre-tensioner seat belt connector, and		
	between terminal C of SAS CM connector and terminal B of driver-side pre-tensioner		
	seat belt connector for following.		
	— Short to ground		
	— Short to power supply		
	— Open circuit		
	 Are wiring harnesses okay? 		

DTC 12

A5U080201046W10

DTC 12	Passenger-side pre-tensioner seat belt system														
DETECTION CONDITION	Warning Detection conc Performing ins or damage the	pectio systei	n witl m. Wh	n only nen p	dete erforr	ction ning i	condi nspec	itions ction,	may alwa	cause ys fol	e inju Iow ii	ry due	to o	perati proce	ng erro dure.
	 Abnormal resistance (other than 1.83—2.81 ohm) detected in terminals passenger-side pre-tensioner seat belt circuit. Short circuit in wiring harness related SAS CM terminal D or A 														
POSSIBLE CAUSE	 Drive-side pre-tensioner seat belt malfunction Malfunction of connectors between passenger-side pre-tensioner seat belt and SAS CM Open or short circuit in wiring harness between passenger-side pre-tensioner seat belt and SAS CM 														
PRE-TENSION	PASSENGER-SIDE AIR BAG PRE-TENSIONER SEAT BELT CONNECTOR														
														T	
(A	В)	AA	Υ	W	U	S	Q	0	М	K	I	G	E	С	Α
			Z	Х	V	Θ-	—€						F	D	В
HARNESS SIDE CONNECTOR (VIEW FROM TERMINAL SIDE) HARNESS SIDE CONNECTOR (VIEW FROM HARNESS SIDE)															

STEP	INSPECTION		ACTION
1	INSPECT OF PASSENGER-SIDE PRE-	Yes	Replace wiring harness.
	Warning • Handling air bag system components improperly can accidentally deploy air bag modules and pre-tensioner seat belts, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08–10–3 AIR BAG SYSTEM SERVICE WARNINGS)	No	Present malfunction diagnosis: Go to next step. Past malfunction diagnosis: Go to Step 3.
	 Turn ignition switch to LOCK position. Disconnect negative battery cable and wait for more than 1 minute. Remove passenger-side quarter trim. Disconnect passenger-side pre-tensioner seat belt connector. Is there cracking or chipping in passenger-side pre-tensioner seat belt connector? 		
2	VERIFY WHETHER MALFUNCTION IS IN	Yes	Go to next step.
	DRIVER-SIDE PRE-TENSIONER SEAT BELT OR OTHER PARTS Connect leads of SST (Fuel And Thermometer checker) or apply 2 ohms resistor to terminals A and B of driver-side pre-tensioner seat belt connector. Set resistance of SST (Fuel And Thermometer checker) to 2 ohms. Connect negative battery cable. Turn ignition switch to ON position. Is DTC 12 indicated?	No	Replace driver-side pre-tensioner seat belt. (See 08–11–1 SEAT BELT REMOVAL/INSTALLATION)

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STEP	INSPECTION		ACTION
	INSPECT WIRING HARNESS BETWEEN DRIVER-SIDE PRE-TENSIONER SEAT BELT ANS SAS CM Turn ignition switch to LOCK position. Disconnect negative battery cable and wait for more than 1 minute. Remove passenger-side quarter trim. Disconnect passenger-side pre-tensioner seat belt connector. Remove dashboard. (See 09–17–2 DASHBOARD REMOVAL/INSTALLATION.) Disconnect SAS CM connector. Inspect wiring harness between terminal D of SAS CM connector and terminal A of passenger-side pre-tensioner seat belt connector, and between terminal A of SAS CM connector and terminal B of passenger-side pre-tensioner seat belt connector for following. — Short to ground — Short to power supply — Open circuit Are wiring harnesses okay?	No	Present malfunction diagnosis: Replace SAS CM. (See 08–10–10 SAS CONTROL MODULE REMOVAL/INSTALLATION) Past malfunction diagnosis: Replace passenger-side pre-tensioner seat belt. (See 08–11–1 SEAT BELT REMOVAL/INSTALLATION) Replace wiring harness.

DTC 49

	A5U080201046W1						
DTC 49	Passenger air bag deactivation system						
DETECTION	No voltage detected at terminal V of SAS CM Tarminal C of SAS CM is not compacted to ground.						
CONDITION	Terminal G of SAS CM is not connected to ground						
POSSIBLE CAUSE	 Passenger air bag deactivation switch malfunction SAS CM malfunction Malfunction in wiring harness between METER 15 A fuse and passenger air bag deactivation switch Malfunction in wiring harness between SAS CM and ground Malfunction in wiring harness between SAS CM and passenger air bag deactivation switch 						
	SSENGER AIR BAG SAS CONTROL MODULE CONNECTOR TION SWITCH CONNECTOR						
G	E A Y W U S Q O M K I G E C A						
Н	D B AB Z X V F D B						
	HARNESS SIDE CONNECTOR (VIEW FROM HARNESS SIDE) (VIEW FROM TERMINAL SIDE)						

STEP	INSPECTION		ACTION
1	1 INSPECT WIRING HARNESS BETWEEN	Yes	Go to next step.
	BATTERY AND PASSENGER AIR BAG DEACTIVATION SWITCH Disconnect negative battery cable. Remove center panel. Connect negative battery cable. Measure voltage at terminal A of passenger air bag deactivation switch connector. Is voltage more than 9 V?	No	Replace wiring harness.
2	INSPECT PASSENGER AIR BAG	Yes	Go to next step.
	DEACTIVATION SWITCH Inspect passenger air bag deactivation switch. (See 08–10–9 PASSENGER AIR BAG DEACTIVATION (PAD) SWITCH INSPECTION) Is switch okay?	No	Replace passenger-side air bag cut-off switch. (See 08–10–9 PASSENGER AIR BAG DEACTIVATION (PAD) SWITCH REMOVAL/INSTALLATION)

STEP	INSPECTION		ACTION
3	INSPECT WIRING HARNESS BETWEEN	Yes	Go to next step.
	PASSENGER AIR BAG DEACTIVATION SWITCH AND SAS CM	No	Replace wiring harness.
	Warning • Handling air bag system components improperly can accidentally deploy air bag modules and pre-tensioner seat belt, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08–10–3 AIR BAG SYSTEM SERVICE WARNINGS)		
	 Turn ignition switch to LOCK position. Disconnect negative battery cable and wait for more than 1 minute. Remove driver- and passenger-side quarter trim. Disconnect driver- and passenger-side pre-tensioner seat belt connectors. Remove dashboard. (See 09–17–2 DASHBOARD REMOVAL/INSTALLATION) Disconnect SAS CM connector. Measure voltage at terminal V of SAS control module connector? Is voltage more than 9 V? 		
4	Is there continuity between terminal G of SAS CM and ground?	Yes	Replace SAS CM. (See 08-10-10 SAS CONTROL MODULE REMOVAL/ INSTALLATION)
		No	Replace wiring harness.

DTC 61

A5U080201046W12

DTC 61	Crush zone sensor system						
Warning DETECTION CONDITION Or damage the system. When performing inspection, always follow inspection procedure Short circuit in wiring harness related SAS CM terminal E.							
	Malfunction in crush zone sensor inner circuit.						
POSSIBLE CAUSE	 Crush zone sensor malfunction Malfunction of connectors between crush zone sensor and SAS CM Open or short circuit in wiring harness between crush zone sensor and SAS CM Open or short circuit in wiring harness between crush zone sensor and ground 						
	SAS CONTROL MODULE CONNECTOR CRUSH ZONE SENSOR CONNECTOR						
В	AA Y W U S Q O M K I G E C A						
	AB Z X V G F D B						
	HARNESS SIDE CONNECTOR (VIEW FROM HARNESS SIDE)						

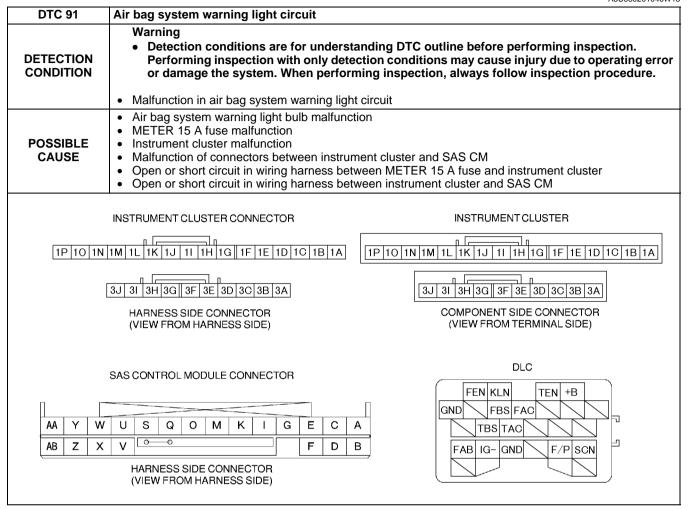
08-02

ON-BOARD DIAGNOSTIC

	stic procedure		ACTION		
STEP	INSPECTION	T	ACTION		
1	INSPECT WIRING HARNESS BETWEEN	Yes	Go to next step.		
1	Warning Handling air bag system components improperly can accidentally deploy air bag modules and pre-tensioner seat belt, which may seriously injure you. Read AIR BAG SYSTEM SERVICE WARNINGS before handling air bag system components. (See 08–10–3 AIR BAG SYSTEM SERVICE WARNINGS) Turn ignition switch to LOCK position.	No No	Replace wiring harness.		
	 Disconnect negative battery cable and wait for more than 1 minute. Remove driver- and passenger-side quarter trims. Disconnect driver- and passenger-side pretensioner seat belt connectors. Remove dashboard. (See 09–17–2 DASHBOARD REMOVAL/INSTALLATION.) Disconnect SAS CM connector. Inspect wiring harness between terminal E of SAS CM connector and terminal A of crush zone sensor connector, and between terminal B of crush zone sensor connector and ground for following. Short to ground Short to power supply Open circuit Are wiring harnesses okay? 				
2	INSPECT CRUSH ZONE SENSOR Measure resistance between crush zone sensor terminals A and B.	Yes	Replace SAS CM. (See 08-10-10 SAS CONTROL MODULE REMOVAL/ INSTALLATION.)		
	• Is resistance approximately 820 Ω?	No	Replace crush zone sensor. (See 08–10–11 CRUSH ZONE SENSOR REMOVAL/ INSTALLATION.)		

DTC 91

A5U080201046W13



STEP	INSPECTION		ACTION
1	Is this present malfunction diagnosis?	Yes	Replace SAS CM. (See 08–10–10 SAS CONTROL MODULE REMOVAL/ INSTALLATION)
		No	Go to next step.
2	INSPECT METER 15 A FUSE	Yes	Reinstall METER 15 A fuse, then go to next step.
	 Turn ignition switch to LOCK position. Disconnect negative battery cable. Remove METER 15 A fuse. Is fuse okay? 	No	Replace METER 15 A fuse.
3	INSPECT AIR BAG SYSTEM WARNING LIGHT BULB	Yes	Reinstall air bag system warning light bulb, then go to next step.
	 Remove instrument cluster. (See 09–22–3 INSTRUMENT CLUSTER REMOVAL/INSTALLATION) Remove air bag system warning light bulb. Is bulb okay? 	No	Replace air bag system warning light bulb.
4	INSPECT INSTRUMENT CLUSTER	Yes	Go to next step.
	 Is there continuity between instrument cluster terminals 1C and 3D? 	No	Replace instrument cluster. (See 09–22–3 INSTRUMENT CLUSTER REMOVAL/ INSTALLATION)

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ON-BOARD DIAGNOSTIC

STEP	INSPECTION		ACTION
5	INSPECT FOR CONTINUITY BETWEEN	Yes	Go to next step.
	METER 15 A FUSE AND INSTRUMENT	No	Repair wiring harness.
	CLUSTER		1
	Connect negative battery cable.		
	Turn ignition switch to ON position.		
	Measure voltage at instrument cluster		
	connector terminal 1C.		
	Is voltage more than 9 V? NOTE OF THE PROPERTY PROPERTY		0 - 1 1 - 1
6	INSPECT WIRING HARNESS BETWEEN	Yes	Go to next step.
	INSTRUMENT CLUSTER AND SAS CM	No	Replace wiring harness.
	Warning		
	Handling air bag system components		
	improperly can accidentally deploy air		
	bag modules and pre-tensioner seat		
	belt, which may seriously injure you.		
	Read AIR BAG SYSTEM SERVICE		
	WARNINGS before handling air bag		
	system components. (See 08–10–3 AIR BAG SYSTEM		
	SERVICE WARNINGS)		
	,		
	 Turn ignition switch to LOCK position. 		
	Disconnect negative battery cable and wait		
	for more than 1 minute.		
	 Remove driver- and passenger-side quarter trims. 		
	Disconnect driver- and passenger-side		
	pre-tensioner seat belt connectors.		
	Remove dashboard.		
	(See 09-17-2 DASHBOARD REMOVAL/		
	INSTALLATION.)		
	Disconnect SAS CM connector. Inappet wiring barness between instrument.		
	 Inspect wiring harness between instrument cluster connector terminal 3D and SAS CM 		
	connector terminal Q for following.		
	— Short to ground		
	 Short to power supply 		
	— Open circuit		
	Is wiring harness okay?		
7	INSPECT WIRING HARNESS BETWEEN DLC	Yes	Troubleshooting completed.
	AND SAS CM	No	Replace wiring harness.
	Inspect wiring harness between DLC terminal FAB and SAS CM connector		
	terminal Q for following.		
	— Short to ground		
	— Short to gower supply		
	Is wiring harness okay?		