

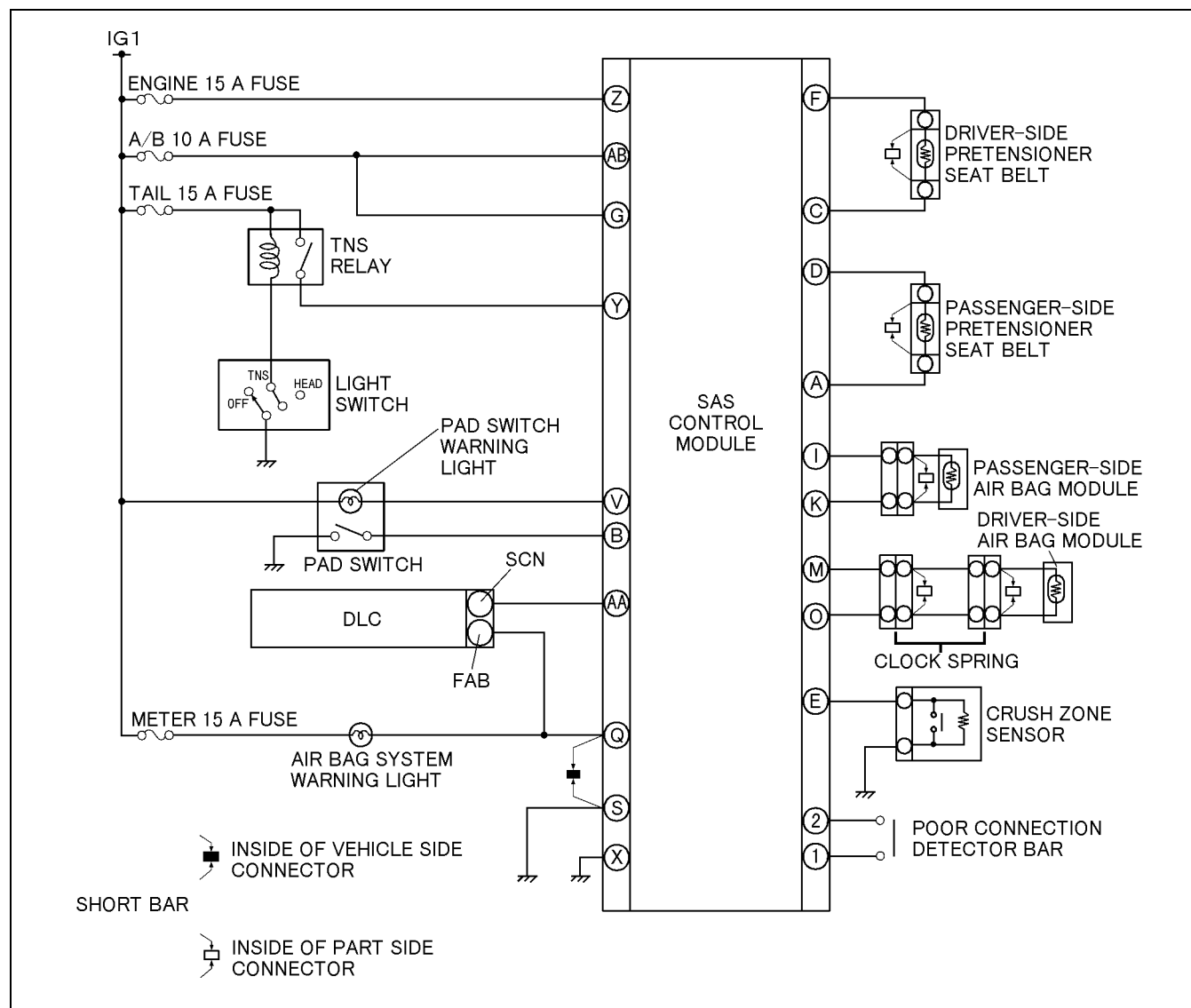
# 08-03 SYMPTOM TROUBLESHOOTING

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## AIR BAG SYSTEM WIRING DIAGRAM

A5U080301046W01



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Z5U0802W010

## FOREWORD

A5U080301046W02

- Refer to section 00 and thoroughly read and understand the basic flow of troubleshooting in order to properly perform the procedures.
- For the steps that have an asterisk (\*), inspect the connector/terminal connection for continuity and damage. If the connection is poor, reconnect it, or repair or replace the appropriate parts if necessary.

# SYMPTOM TROUBLESHOOTING

## TROUBLESHOOTING INDEX

A5U080301046W03

- To diagnose the appropriate area, use the chart below to verify the symptoms.

No.	TROUBLESHOOTING ITEM	DESCRIPTION	PAGE
1	Air bag system warning light does not illuminate.	<ul style="list-style-type: none"> <li>Malfunction in air bag system warning circuit (open circuit or short to power supply).</li> </ul>	(See 08-03-2 NO.1 AIR BAG SYSTEM WARNING LIGHT DOES NOT ILLUMINATE)
2	Air bag system warning light is illuminated all the time.	<ul style="list-style-type: none"> <li>Malfunction in air bag system warning circuit (short to ground).</li> </ul>	(See 08-03-4 NO.2 AIR BAG SYSTEM WARNING LIGHT IS ILLUMINATED ALL THE TIME)
3	Passenger air bag deactivation indicator does not illuminate.	<ul style="list-style-type: none"> <li>Malfunction in passenger air bag deactivation switch circuit (open circuit).</li> </ul>	(See 08-03-6 NO.3 PASSENGER AIR BAG DEACTIVATION INDICATOR DOES NOT ILLUMINATE)
4	Passenger air bag deactivation indicator is illuminated all the time.	<ul style="list-style-type: none"> <li>Malfunction in passenger air bag deactivation switch circuit (short to ground).</li> </ul>	(See 08-03-8 NO.4 PASSENGER AIR BAG DEACTIVATION INDICATOR IS ILLUMINATED ALL THE TIME)
5	Passenger air bag deactivation indicator does not dim.	<ul style="list-style-type: none"> <li>Malfunction in TNS relay circuit (open circuit).</li> </ul>	(See 08-03-9 NO.5 PASSENGER AIR BAG DEACTIVATION INDICATOR DOES NOT DIM)
6	Passenger air bag deactivation switch illumination does not illuminate.	<ul style="list-style-type: none"> <li>Malfunction in passenger air bag deactivation switch illumination circuit (open circuit).</li> </ul>	(See 08-03-11 NO.6 PASSENGER AIR BAG DEACTIVATION SWITCH ILLUMINATION DOES NOT ILLUMINATE)

## NO.1 AIR BAG SYSTEM WARNING LIGHT DOES NOT ILLUMINATE

A5U080301046W04

- When performing an asterisked (\*) troubleshooting inspection, shake the wiring harness and connectors while doing the inspection to discover whether poor contact points are the cause of any intermittent malfunctions. If there is a problem, check to make sure connectors, terminals and wiring harness are connected correctly and undamaged.

1	Air bag system warning light does not illuminate.
DESCRIPTION	<ul style="list-style-type: none"> <li>Malfunction in air bag system warning circuit (open circuit or short to power supply).</li> </ul>
POSSIBLE CAUSE	<p><b>Note</b></p> <ul style="list-style-type: none"> <li>The following may be the cause of trouble if the symptom does not go away after the symptom troubleshooting steps are followed.</li> <li>Poor contact at terminal D of short connector (6-pin) between instrument cluster and SAS control module.</li> <li>Simultaneous poor contact at terminals A and F of short connector (6-pin) between A/B 10 A fuse and the SAS control module, ENGINE 15 A fuse and the SAS control module.</li> <li>Simultaneous poor contact at terminals S and X of SAS control module connector (21 -pin).</li> <li>Simultaneous poor contact at terminals AB and Z of SAS control module connector(21-pin).</li> <li>Simultaneous poor contact in wiring harness between terminal S of SAS control module connector (21-pin) and ground, terminal X of SAS control module connector (21-pin) and ground.</li> <li>Simultaneous poor contact in wiring harness between A/B 10 A fuse and the SAS control module, ENGINE 15 A fuse and the SAS control module.</li> <li>Malfunction in SAS control module power supply/ground circuit               <ul style="list-style-type: none"> <li>a. Air bag system warning light does not illuminate                   <ul style="list-style-type: none"> <li>— SAS control module malfunction</li> <li>— Instrument cluster (print plate) malfunction</li> <li>— Terminal 1C of instrument cluster connector (16-pin) malfunction</li> <li>— Terminal 3D of instrument cluster connector (10-pin) malfunction</li> <li>— Terminal Q of SAS control module connector (21-pin) malfunction</li> <li>— Air bag system warning light bulb malfunction</li> <li>— Poor installation of air bag system warning light bulb</li> <li>— Poor connection at terminal 1C of instrument cluster connector (16-pin)</li> <li>— Poor connection at terminal 3D of instrument cluster connector (10-pin)</li> <li>— Poor connection at terminal Q of SAS control module connector (21-pin)</li> <li>— Poor contact in instrument cluster connector (10, 16-pin)</li> <li>— Malfunction in wiring harness between instrument cluster and SAS control module</li> </ul> </li> </ul> </li> </ul>

# SYMPTOM TROUBLESHOOTING

## Diagnostic Procedure

STEP	INSPECTION	ACTION	
1	<b>VERIFY THAT INSTRUMENT CLUSTER IS PROPERLY CONNECTED</b> <ul style="list-style-type: none"><li>Is instrument cluster connector (10, 16-pin) securely connected?</li></ul>	Yes	Go to next step.
		No	Reconnect connector properly, then go to Step 10.
2	<b>INSPECT AIR BAG SYSTEM WARNING LIGHT BULB INSTALLATION</b> <ul style="list-style-type: none"><li>Is air bag system warning light bulb securely installed?</li></ul>	Yes	Go to next step.
		No	Reinstall properly, then go to Step 10.
3	<b>INSPECT AIR BAG SYSTEM WARNING LIGHT BULB</b> <ul style="list-style-type: none"><li>Is air bag system warning light bulb functional?</li></ul>	Yes	Reinstall properly, then go to next step.
		No	Replace bulb, then go to Step 10.
4	<b>VERIFY THAT INSTRUMENT CLUSTER CONNECTOR TERMINALS 1C AND 3D ARE CONNECTED</b> <ul style="list-style-type: none"><li>Are terminal 1C of instrument cluster connector (16-pin) and terminal 3D of instrument cluster connector (10-pin) securely connected?</li></ul>	Yes	Go to next step.
		No	Reconnect properly, then go to Step 10.
5	<b>INSPECT INSTRUMENT CLUSTER CONNECTOR TERMINALS 1C AND 3D</b> <ul style="list-style-type: none"><li>Are terminal 1C of instrument cluster connector (16-pin) and terminal 3D of instrument cluster connector (10-pin) damaged?</li></ul>	Yes	Repair or replace terminal, then go to Step 10.
		No	Go to next step.
6	<b>INSPECT INSTRUMENT CLUSTER PRINT PLATE</b> <ul style="list-style-type: none"><li>Is there continuity between print plate of instrument cluster terminals 1C and 3D?</li></ul>	Yes	Go to next step.
		No	Replace print plate, then go to Step 10.
7	<b>VERIFY THAT SAS CONTROL MODULE CONNECTOR TERMINAL Q IS CONNECTED</b>  <b>Warning</b> <ul style="list-style-type: none"><li><b>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)</b></li><li>Turn ignition switch to LOCK position.</li><li>Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li><li>Remove driver- and passenger-side quarter trims.</li><li>Disconnect driver- and passenger-side pre-tensioner seat belt connectors.</li><li>Remove dashboard. (See 09–17–2 DASHBOARD REMOVAL/ INSTALLATION)</li><li>Disconnect SAS control module connector (21-pin).</li><li>Is terminal Q of SAS control module connector (21-pin) securely connected?</li></ul>	Yes	Go to next step.
		No	Reconnect properly, then go to Step 10.
8	<b>INSPECT SAS CONTROL MODULE CONNECTOR TERMINAL Q</b> <ul style="list-style-type: none"><li>Is terminal Q of SAS control module connector (21-pin) damaged?</li></ul>	Yes	Replace air bag harness, then go to Step 10.
		No	Go to next step.

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## SYMPTOM TROUBLESHOOTING

STEP	INSPECTION	ACTION
*9	<b>CHECK TO SEE WHETHER MALFUNCTION (LACK OF CONTINUITY) IS IN SAS CONTROL MODULE OR WIRING HARNESS (BETWEEN INSTRUMENT CLUSTER AND SAS CONTROL MODULE)</b> <ul style="list-style-type: none"> <li>Disconnect SAS control module connector (21-pin) and instrument cluster connector (10-pin).</li> <li>Is there continuity between terminal Q of SAS control module connector (21-pin) and terminal 3D of instrument cluster connector (10-pin)?</li> </ul>	Yes Replace SAS control module, then go to next step. (See 08–10–10 SAS CONTROL MODULE REMOVAL/ INSTALLATION)
		No Replace wiring harness between instrument cluster and SAS control module, then go to next step.
10	<b>CONFIRM THAT MALFUNCTION SYMPTOMS DO NOT REOCCUR AFTER REPAIR</b> <ul style="list-style-type: none"> <li>Connect SAS control module connector (21-pin).</li> <li>Install driver-side air bag module.</li> <li>Install passenger-side air bag module.</li> <li>Connect driver-and passenger-side pre-tensioner seat belt connectors/</li> <li>Connect driver- and passenger-side pre-tensioner seat belt connectors.</li> <li>Connect instrument cluster connector.</li> <li>Connect negative battery cable.</li> <li>When turning ignition switch to ON position, does air bag system warning light operate properly?</li> </ul>	Yes Troubleshooting completed. Explain repairs to customer.
		No Reinspect malfunction symptoms, then repeat from Step 1 if malfunction reoccurs.

### NO.2 AIR BAG SYSTEM WARNING LIGHT IS ILLUMINATED ALL THE TIME

A5U080301046W05

2	Air bag system warning light is illuminated all the time.
DESCRIPTION	<ul style="list-style-type: none"> <li>Malfunction in air bag system warning circuit (short to ground).</li> </ul>
POSSIBLE CAUSE	<ul style="list-style-type: none"> <li>Malfunction in air bag system warning light circuit               <ul style="list-style-type: none"> <li>a. Air bag system warning light remains illuminated                   <ul style="list-style-type: none"> <li>— SAS control module malfunction</li> <li>— Malfunction of short bar between terminals Q and S of SAS control module connector (21-pin)</li> <li>— Poor connection in SAS control module connector (21-pin)</li> <li>— Short circuit in wiring harness between instrument cluster and SAS control module</li> </ul> </li> </ul> </li> </ul>

# SYMPTOM TROUBLESHOOTING

## Diagnostic Procedure

STEP	INSPECTION	ACTION
1	<b>VERIFY THAT SAS CONTROL MODULE IS CONNECTED</b>  <b>Warning</b> <ul style="list-style-type: none"> <li>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)</li> </ul> <ul style="list-style-type: none"> <li>Turn ignition switch to LOCK position.</li> <li>Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>Remove driver- and passenger-side quarter trims.</li> <li>Disconnect driver- and passenger-side pre-tensioner seat belt connectors.</li> <li>Remove dashboard. (See 09-17-2 DASHBOARD REMOVAL/ INSTALLATION)</li> <li>Disconnect SAS control module connector (21-pin).</li> <li>Is SAS control module connector (21-pin) securely connected?</li> </ul>	Yes Go to next step.
		No Reconnect properly, then go to Step 5.
2	<b>INSPECT SAS CONTROL MODULE CONNECTOR TERMINAL Q AND S</b> <ul style="list-style-type: none"> <li>Is short bar between terminals Q and S of SAS control module connector (21-pin) bent?</li> </ul>	Yes Replace air bag harness, then go to Step 5.
		No Go to next step.
3	<b>INSPECT SAS CONTROL MODULE SHORT BAR HOOK</b> <ul style="list-style-type: none"> <li>Is SAS control module short bar hook okay?</li> </ul>	Yes Go to next step.
		No Replace SAS control module, then go to Step 5. (See 08-10-10 SAS CONTROL MODULE REMOVAL/ INSTALLATION)
*4	<b>INSPECT WIRING HARNESS BETWEEN SAS CONTROL MODULE AND INSTRUMENT CLUSTER FOR SHORT TO GROUND</b> <ul style="list-style-type: none"> <li>Disconnect instrument cluster connector (10-pin).</li> <li>Insert insulating material between terminals Q and S of SAS control module connector (21-pin) so short bar cannot function.</li> <li>Is there continuity between terminal Q of SAS control module connector (21-pin) and ground?</li> </ul>	Yes Replace wiring harness between instrument cluster and SAS control module, then go to next step.
		No Replace SAS control module, then go to next step. (See 08-10-10 SAS CONTROL MODULE REMOVAL/ INSTALLATION)
5	<b>CONFIRM THAT MALFUNCTION SYMPTOMS DO NOT REOCCUR AFTER REPAIR</b> <ul style="list-style-type: none"> <li>Connect SAS control module connector (21-pin).</li> <li>Install driver-side air bag module.</li> <li>Install passenger-side air bag module.</li> <li>Connect driver- and passenger-side pre-tensioner seat belt connectors.</li> <li>Connect instrument cluster connector.</li> <li>Connect negative battery cable.</li> <li>When turning ignition switch to ON position, does air bag system warning light operate properly?</li> </ul>	Yes Troubleshooting completed. Explain repairs to customer.
		No Reinspect malfunction symptoms, then repeat from Step 1 if malfunction reoccurs.

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## SYMPTOM TROUBLESHOOTING

### NO.3 PASSENGER AIR BAG DEACTIVATION INDICATOR DOES NOT ILLUMINATE

A5U080301046W06

- When performing an asterisked (\*) troubleshooting inspection, shake the wiring harness and connectors while doing the inspection to discover whether poor contact points are the cause of any intermittent malfunctions. If there is a problem, check to make sure connectors, terminals and wiring harness are connected correctly and undamaged

3	Passenger air bag deactivation indicator does not illuminate.
<b>DESCRIPTION</b>	<ul style="list-style-type: none"> <li>Malfunction in passenger air bag deactivation switch circuit (open circuit).</li> </ul>
<b>POSSIBLE CAUSE</b>	<ul style="list-style-type: none"> <li>Malfunction in passenger air bag deactivation switch signal circuit                             <ul style="list-style-type: none"> <li>Passenger air bag deactivation indicator does not illuminate                                     <ul style="list-style-type: none"> <li>SAS control module malfunction</li> <li>Passenger air bag deactivation switch malfunction</li> <li>Terminal D or E of passenger air bag deactivation switch connector malfunction</li> <li>Terminal B of SAS control module connector (21-pin) malfunction</li> <li>Terminal D or E of poor connection at passenger air bag deactivation switch connector</li> <li>Poor connection at terminal B of SAS control module connector (21-pin)</li> <li>Open circuit in wiring harness between passenger air bag deactivation switch and ground</li> <li>Open circuit in wiring harness between passenger air bag deactivation switch and SAS control module</li> </ul> </li> </ul> </li> </ul>

#### Diagnostic Procedure

STEP	INSPECTION	ACTION
1	<b>VERIFY THAT PASSENGER AIR BAG DEACTIVATION SWITCH CAN BE SET TO OFF POSITION</b> <ul style="list-style-type: none"> <li>When key is inserted into passenger air bag deactivation switch key cylinder, can it be set to the OFF position?</li> </ul>	Yes Go to next step.
		No Replace passenger air bag deactivation switch, then go to Step 9. (See 08-10-9 PASSENGER AIR BAG DEACTIVATION (PAD) SWITCH REMOVAL/INSTALLATION)
2	<b>INSPECT PASSENGER AIR BAG DEACTIVATION SWITCH TERMINALS D AND E</b> <ul style="list-style-type: none"> <li>Turn ignition switch to LOCK position.</li> <li>Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>Disconnect passenger air bag deactivation switch connector.</li> <li>Is terminal D or E of passenger air bag deactivation switch damaged?</li> </ul>	Yes Replace passenger air bag deactivation switch, then go to Step 9. (See 08-10-9 PASSENGER AIR BAG DEACTIVATION (PAD) SWITCH REMOVAL/INSTALLATION)
		No Go to next step.
3	<b>INSPECT PASSENGER AIR BAG DEACTIVATION SWITCH CONNECTOR TERMINALS D AND E</b> <ul style="list-style-type: none"> <li>Is terminal D or E of passenger air bag deactivation switch connector damaged?</li> </ul>	Yes Replace air bag harness, then go to Step 9.
		No Go to next step.
4	<b>CHECK FOR CONTINUITY BETWEEN PASSENGER AIR BAG DEACTIVATION SWITCH TERMINALS D AND E</b> <ul style="list-style-type: none"> <li>Turn passenger air bag deactivation switch key to OFF.</li> <li>Is there continuity between terminals D and E of passenger air bag deactivation switch?</li> </ul>	Yes Go to next step.
		No Replace passenger air bag deactivation switch, then go to Step 9. (See 08-10-9 PASSENGER AIR BAG DEACTIVATION (PAD) SWITCH REMOVAL/INSTALLATION)
*5	<b>CHECK WIRING HARNESS FOR CONTINUITY BETWEEN PASSENGER AIR BAG DEACTIVATION SWITCH AND GROUND</b> <ul style="list-style-type: none"> <li>Is there continuity between terminal E of passenger air bag deactivation switch connector and ground?</li> </ul>	Yes Go to next step.
		No Replace wiring harness between passenger air bag deactivation switch and ground, then go to Step 9.

# SYMPTOM TROUBLESHOOTING

STEP	INSPECTION	ACTION	
6	<b>VERIFY THAT SAS CONTROL MODULE TERMINAL B IS NOT DAMAGED</b>  <b>Warning</b> <ul style="list-style-type: none"> <li>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)</li> </ul> <ul style="list-style-type: none"> <li>Remove driver- and passenger-side quarter trims.</li> <li>Disconnect driver- and passenger-side pre-tensioner seat belt connectors.</li> <li>Remove dashboard. (See 09-17-2 DASHBOARD REMOVAL/ INSTALLATION)</li> <li>Disconnect SAS control module connector (21-pin).</li> <li>Is terminal B of SAS control module (21-pin) damaged?</li> </ul>	Yes	Replace SAS control module, then go to Step 9. (See 08-10-10 SAS CONTROL MODULE REMOVAL/ INSTALLATION)
		No	Go to next step.
7	<b>VERIFY THAT SAS CONTROL MODULE CONNECTOR TERMINAL B IS NOT DAMAGED</b> <ul style="list-style-type: none"> <li>Is terminal B of SAS control module connector (21-pin) damaged?</li> </ul>	Yes	Replace air bag harness, then go to Step 9.
		No	Go to next step.
*8	<b>CHECK TO SEE WHETHER MALFUNCTION (LACK OF CONTINUITY) IS IN SAS CONTROL MODULE OR WIRING HARNESS (BETWEEN SAS CONTROL MODULE AND PASSENGER AIR BAG DEACTIVATION SWITCH)</b> <ul style="list-style-type: none"> <li>Is there continuity between terminal B of SAS control module connector (21-pin) and terminal D of passenger air bag deactivation switch connector?</li> </ul>	Yes	Replace SAS control module, then go to next step. (See 08-10-10 SAS CONTROL MODULE REMOVAL/ INSTALLATION)
		No	Replace wiring harness between SAS control module and passenger air bag deactivation switch, then go to next step.
9	<b>CONFIRM THAT MALFUNCTION SYMPTOMS DO NOT REOCCUR AFTER REPAIR</b> <ul style="list-style-type: none"> <li>Connect SAS control module connector (21-pin).</li> <li>Install driver-side air bag module.</li> <li>Install passenger-side air bag module.</li> <li>Connect driver- and passenger- side pre-tensioner seat belt connectors.</li> <li>Connect passenger air bag deactivation switch connector.</li> <li>Turn passenger air bag deactivation switch to OFF.</li> <li>Remove the key.</li> <li>Connect negative battery cable.</li> <li>When turning ignition switch to ON position, does passenger air bag deactivation indicator illuminate?</li> </ul>	Yes	Troubleshooting completed. Explain repairs to customer.
		No	Reinspect malfunction symptoms, then repeat from Step 1 if malfunction reoccurs.

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## SYMPTOM TROUBLESHOOTING

### NO.4 PASSENGER AIR BAG DEACTIVATION INDICATOR IS ILLUMINATED ALL THE TIME

A5U080301046W07

- When performing an asterisked (\*) troubleshooting inspection, shake the wiring harness and connectors while doing the inspection to discover whether poor contact points are the cause of any intermittent malfunctions. If there is a problem, check to make sure connectors, terminals and wiring harness are connected correctly and undamaged.

<b>4</b>	Passenger air bag deactivation indicator is illuminated all the time.
<b>DESCRIPTION</b>	<ul style="list-style-type: none"> <li>• Malfunction in passenger air bag deactivation switch circuit (short to ground).</li> </ul>
<b>POSSIBLE CAUSE</b>	<ul style="list-style-type: none"> <li>• Malfunction in passenger air bag deactivation switch signal circuit                             <ul style="list-style-type: none"> <li>a. Passenger air bag deactivation indicator does not go out                                     <ul style="list-style-type: none"> <li>— SAS control module malfunction</li> <li>— Passenger air bag deactivation switch malfunction</li> <li>— Terminal D or E of passenger air bag deactivation switch connector malfunction</li> <li>— Short circuit in wiring harness between passenger air bag deactivation switch and SAS control module</li> </ul> </li> </ul> </li> </ul>

#### Diagnostic Procedure

STEP	INSPECTION	ACTION
1	<b>VERIFY THAT PASSENGER AIR BAG DEACTIVATION SWITCH CAN BE SET TO ON POSITION</b> <ul style="list-style-type: none"> <li>• When key is inserted into passenger air bag deactivation switch key cylinder, can it be set to the ON position?</li> </ul>	Yes Go to next step.
		No Replace passenger air bag deactivation switch, then go to Step 6. (See 08–10–9 PASSENGER AIR BAG DEACTIVATION (PAD) SWITCH REMOVAL/INSTALLATION)
2	<b>INSPECT PASSENGER AIR BAG DEACTIVATION SWITCH TERMINALS D AND E</b> <ul style="list-style-type: none"> <li>• Turn ignition switch to LOCK position.</li> <li>• Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>• Disconnect passenger air bag deactivation switch connector.</li> <li>• Is terminal D or E of passenger air bag deactivation switch damaged?</li> </ul>	Yes Replace passenger air bag deactivation switch, then go to Step 6. (See 08–10–9 PASSENGER AIR BAG DEACTIVATION (PAD) SWITCH REMOVAL/INSTALLATION)
		No Go to next step.
3	<b>INSPECT PASSENGER AIR BAG DEACTIVATION SWITCH CONNECTOR TERMINALS D AND E</b> <ul style="list-style-type: none"> <li>• Is terminal D or E of passenger air bag deactivation switch connector damaged?</li> </ul>	Yes Replace air bag harness, then go to Step 6.
		No Go to next step.
4	<b>CHECK BETWEEN PASSENGER AIR BAG DEACTIVATION SWITCH TERMINALS D AND E FOR SHORT TO BETWEEN TERMINALS D AND E</b> <ul style="list-style-type: none"> <li>• Turn passenger air bag deactivation switch to ON.</li> <li>• Is there continuity between terminals D and E of passenger air bag deactivation switch?</li> </ul>	Yes Replace passenger air bag deactivation switch, then go to Step 6. (See 08–10–9 PASSENGER AIR BAG DEACTIVATION (PAD) SWITCH REMOVAL/INSTALLATION)
		No Go to next step.

# SYMPTOM TROUBLESHOOTING

STEP	INSPECTION	ACTION	
*5	<p><b>CHECK TO SEE WHETHER MALFUNCTION (SHORT TO GROUND) IS IN SAS CONTROL MODULE OR WIRING HARNESS (BETWEEN SAS CONTROL MODULE AND PASSENGER AIR BAG DEACTIVATION SWITCH)</b></p> <p><b>Warning</b></p> <ul style="list-style-type: none"><li>• <b>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)</b></li></ul> <ul style="list-style-type: none"><li>• Remove driver- and passenger-side quarter trims.</li><li>• Disconnect driver- and passenger-side pre-tensioner seat belt connectors.</li><li>• Remove dashboard. (See 09–17–2 DASHBOARD REMOVAL/ INSTALLATION)</li><li>• Disconnect SAS control module connector (21-pin).</li><li>• Is there continuity between terminal D of passenger air bag deactivation switch connector and ground?</li></ul>	Yes	Replace wiring harness between SAS control module and passenger air bag deactivation switch, then go to next step.
		No	Replace SAS control module, then go to next step. (See 08–10–10 SAS CONTROL MODULE REMOVAL/ INSTALLATION)
6	<p><b>CONFIRM THAT MALFUNCTION SYMPTOMS DO NOT REOCCUR AFTER REPAIR</b></p> <ul style="list-style-type: none"><li>• Connect SAS control module connector (21-pin).</li><li>• Install driver-side air bag module.</li><li>• Install passenger-side air bag module.</li><li>• Connect driver- and passenger-side pre-tensioner seat belt connectors.</li><li>• Connect passenger air bag deactivation switch connector.</li><li>• Turn passenger air bag deactivation switch to ON.</li><li>• Remove the key.</li><li>• Connect negative battery cable.</li><li>• When turning ignition switch to ON position, does passenger air bag deactivation indicator illuminate for <b>approximately 6 seconds</b> and then go out?</li></ul>	Yes	Troubleshooting completed. Explain repairs to customer.
		No	Reinspect malfunction symptoms, then repeat from Step 1 if malfunction reoccurs.

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## NO.5 PASSENGER AIR BAG DEACTIVATION INDICATOR DOES NOT DIM

A5U080301046W08

- When performing an asterisked (\*) troubleshooting inspection, shake the wiring harness and connectors while doing the inspection to discover whether poor contact points are the cause of any intermittent malfunctions. If there is a problem, check to make sure connectors, terminals and wiring harness are connected correctly and undamaged.

<b>5</b>	Passenger air bag deactivation indicator does not dim.
<b>DESCRIPTION</b>	<ul style="list-style-type: none"> <li>Malfunction in TNS relay circuit (open circuit).</li> </ul>
<b>POSSIBLE CAUSE</b>	<ul style="list-style-type: none"> <li>Malfunction in TNS signal circuit               <ul style="list-style-type: none"> <li>Passenger air bag deactivation indicator does not dim                   <ul style="list-style-type: none"> <li>SAS control module malfunction</li> <li>TNS signal circuit malfunction</li> <li>Terminal Y of SAS control module connector (21-pin) malfunction</li> <li>Poor connection at terminal Y of SAS control module connector (21-pin)</li> <li>Malfunction in wiring harness between TNS relay and SAS control module</li> </ul> </li> </ul> </li> </ul>

# SYMPTOM TROUBLESHOOTING

## Diagnostic Procedure

STEP	INSPECTION	ACTION	
1	<b>CHECK TO SEE WHETHER MALFUNCTION IS IN TNS SIGNAL CIRCUIT OR ELSEWHERE</b> <ul style="list-style-type: none"> <li>Does parking light illuminate when headlight switch is turned on?</li> </ul>	Yes	Go to next step.
		No	Inspect TNS signal circuit, then go to Step 5.
2	<b>INSPECT SAS CONTROL MODULE TERMINAL Y</b> <p><b>Warning</b></p> <ul style="list-style-type: none"> <li>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)</li> </ul> <ul style="list-style-type: none"> <li>Turn ignition switch to LOCK position.</li> <li>Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>Remove driver- and passenger-side quarter trims.</li> <li>Disconnect driver- and passenger-side pre-tensioner seat belt connectors.</li> <li>Remove dashboard. (See 09–17–2 DASHBOARD REMOVAL/ INSTALLATION)</li> <li>Disconnect SAS control module connector (21-pin).</li> <li>Is terminal Y of SAS control module (21-pin) damaged?</li> </ul>	Yes	Replace SAS control module, then go to Step 5. (See 08–10–10 SAS CONTROL MODULE REMOVAL/ INSTALLATION)
		No	Go to next step.
3	<b>INSPECT SAS CONTROL MODULE CONNECTOR TERMINAL Y</b> <ul style="list-style-type: none"> <li>Is terminal Y of SAS control module connector (21-pin) damaged?</li> </ul>	Yes	Replace air bag harness, then go to Step 5.
		No	Go to next step.
*4	<b>CHECK TO SEE WHETHER MALFUNCTION (LACK OF CONTINUITY) IS IN SAS CONTROL MODULE OR WIRING HARNESS (BETWEEN SAS CONTROL MODULE AND TNS RELAY)</b> <ul style="list-style-type: none"> <li>Disconnect TNS relay connector.</li> <li>Is there continuity between terminal Y of SAS control module connector (21-pin) and terminal D of TNS relay connector?</li> </ul>	Yes	Replace SAS control module, then go to next step. (See 08–10–10 SAS CONTROL MODULE REMOVAL/ INSTALLATION)
		No	Replace wiring harness between SAS control module and TNS relay, then go to next step.
5	<b>CONFIRM THAT MALFUNCTION SYMPTOMS DO NOT REOCCUR AFTER REPAIR</b> <ul style="list-style-type: none"> <li>Connect SAS control module connector (21-pin).</li> <li>Install driver-side air bag module.</li> <li>Install passenger-side air bag module.</li> <li>Connect driver- and passenger-side pre-tensioner seat belt connectors.</li> <li>Connect passenger air bag deactivation switch connector.</li> <li>Connect negative battery cable.</li> <li>When ignition switch is turned to ON position and headlight switch is turned on, does passenger air bag deactivation indicator illuminate for <b>approximately 6 seconds</b> and then dim?</li> </ul>	Yes	Troubleshooting completed. Explain repairs to customer.
		No	Reinspect malfunction symptoms, then repeat from Step 1 if malfunction reoccurs.

# SYMPTOM TROUBLESHOOTING

## NO.6 PASSENGER AIR BAG DEACTIVATION SWITCH ILLUMINATION DOES NOT ILLUMINATE

A5U080301046W09

<b>6</b>	Passenger air bag deactivation switch illumination does not illuminate.
<b>DESCRIPTION</b>	<ul style="list-style-type: none"> <li>• Malfunction in passenger air bag deactivation switch illumination circuit (open circuit).</li> </ul>
<b>POSSIBLE CAUSE</b>	<ul style="list-style-type: none"> <li>• Malfunction in passenger air bag deactivation switch illumination signal circuit               <ul style="list-style-type: none"> <li>a. Passenger air bag deactivation switch illumination does not illuminate                   <ul style="list-style-type: none"> <li>— Passenger air bag deactivation switch malfunction</li> <li>— TNS relay signal circuit malfunction</li> <li>— Panel light control switch signal circuit malfunction</li> <li>— Terminal B or G of passenger air bag deactivation switch connector malfunction</li> <li>— Passenger air bag deactivation switch illumination bulb malfunction</li> <li>— Poor installation of passenger air bag deactivation switch illumination bulb</li> <li>— Terminal B or G of poor connection at passenger air bag deactivation switch connector</li> <li>— Malfunction in wiring harness between TNS relay and passenger air bag deactivation switch</li> <li>— Malfunction in wiring harness between passenger air bag deactivation switch and panel light control switch</li> </ul> </li> </ul> </li> </ul>

### Diagnostic Procedure

STEP	INSPECTION	ACTION	
1	<b>CHECK TO SEE WHETHER MALFUNCTION IS IN TNS SIGNAL CIRCUIT OR ELSEWHERE</b> <ul style="list-style-type: none"> <li>• Does parking light illuminate when headlight switch is turned on?</li> </ul>	Yes	Go to next step.
		No	Inspect TNS signal circuit, then go to Step 9.
2	<b>CHECK TO SEE WHETHER MALFUNCTION IS IN PANEL LIGHT CONTROL SWITCH SIGNAL CIRCUIT OR ELSEWHERE</b> <ul style="list-style-type: none"> <li>• Does panel light control switch operate correctly?</li> </ul>	Yes	Go to next step.
		No	Inspect panel light control switch signal circuit, then go to Step 9.
3	<b>INSPECT PASSENGER AIR BAG DEACTIVATION SWITCH TERMINALS B AND G</b> <ul style="list-style-type: none"> <li>• Turn ignition switch to LOCK position.</li> <li>• Disconnect negative battery cable and wait for <b>more than 1 minute</b>.</li> <li>• Disconnect passenger air bag deactivation switch connector.</li> <li>• Is terminal B or G of passenger air bag deactivation switch damaged?</li> </ul>	Yes	Replace passenger air bag deactivation switch, then go to Step 9. (See 08-10-9 PASSENGER AIR BAG DEACTIVATION (PAD) SWITCH REMOVAL/INSTALLATION)
		No	Go to next step.
4	<b>INSPECT PASSENGER AIR BAG DEACTIVATION SWITCH CONNECTOR TERMINALS B AND G</b> <ul style="list-style-type: none"> <li>• Is terminal B or G of passenger air bag deactivation switch connector damaged?</li> </ul>	Yes	Repair wiring harness of damaged terminal, then go to Step 9.
		No	Go to next step.
5	<b>INSPECT INSTALLATION OF ILLUMINATION BULB IN PASSENGER AIR BAG DEACTIVATION SWITCH</b> <ul style="list-style-type: none"> <li>• Is passenger air bag deactivation switch illumination bulb securely installed?</li> </ul>	Yes	Go to next step.
		No	Reinstall properly, then go to Step 9.
6	<b>INSPECT ILLUMINATION BULB IN PASSENGER AIR BAG DEACTIVATION SWITCH</b> <ul style="list-style-type: none"> <li>• Is passenger air bag deactivation switch illumination bulb functional?</li> </ul>	Yes	Reinstall properly, then go to next step.
		No	Replace bulb, then go to Step 9.
7	<b>CHECK WIRING BETWEEN PASSENGER AIR BAG DEACTIVATION SWITCH TERMINALS B AND G FOR CONTINUITY</b> <ul style="list-style-type: none"> <li>• Is there continuity between terminals B and G of passenger air bag deactivation switch?</li> </ul>	Yes	Go to next step.
		No	Replace passenger air bag deactivation switch, then go to Step 9. (See 08-10-9 PASSENGER AIR BAG DEACTIVATION (PAD) SWITCH REMOVAL/INSTALLATION)

08-03

## SYMPTOM TROUBLESHOOTING

STEP	INSPECTION	ACTION
8	<b>CHECK TO SEE WHETHER MALFUNCTION (LACK OF CONTINUITY) IS IN WIRING HARNESS (BETWEEN TNS RELAY AND PASSENGER AIR BAG DEACTIVATION SWITCH) OR WIRING HARNESS (BETWEEN PASSENGER AIR BAG DEACTIVATION SWITCH AND PANEL LIGHT CONTROL SWITCH)</b> <ul style="list-style-type: none"> <li>• Disconnect TNS relay connector.</li> <li>• Is there continuity between terminal D of TNS relay connector and terminal B of passenger air bag deactivation switch connector?</li> </ul>	Yes Inspect wiring harness between passenger air bag deactivation switch and panel light control switch, then go to next step.
		No Repair wiring harness between TNS relay and passenger air bag deactivation switch, then go to next step.
9	<b>CONFIRM THAT MALFUNCTION SYMPTOMS DO NOT REOCCUR AFTER REPAIR</b> <ul style="list-style-type: none"> <li>• Connect passenger air bag deactivation switch connector.</li> <li>• Connect negative battery cable.</li> <li>• When headlight switch is turned on, does passenger air bag deactivation switch illumination illuminate?</li> </ul>	Yes Troubleshooting completed. Explain repairs to customer.
		No Reinspect malfunction symptoms, then repeat from Step 1 if malfunction reoccurs.