

**Fig. 12: Identifying Panel Clearance**  
 Courtesy of SUZUKI OF AMERICA CORP.

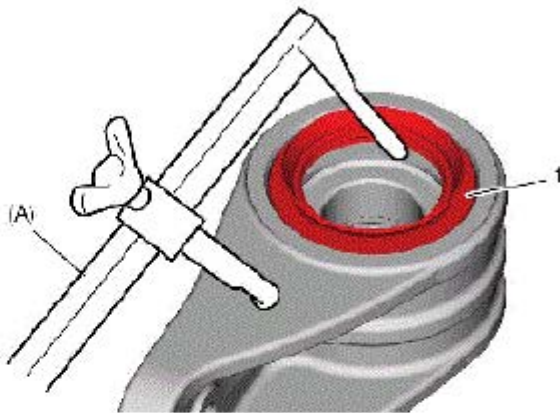
**PANEL TO PANEL DISTANCE**

a: 8.2 - 10.2 mm (0.323 - 0.401 in.)	j: 4.0 - 6.0 mm (0.158 - 0.236 in.)	s: 16.8 - 18.8 mm (0.662 - 0.740 in.)
b: 1.0 - 3.0 mm (0.040 - 0.118 in.)	k: 3.0 - 5.0 mm (0.119 - 0.196 in.)	aa: 4.0 - 6.0 mm (0.158 - 0.236 in.)
c: 1.8 - 3.8 mm (0.070 - 0.149 in.)	l: 3.0 - 5.0 mm (0.119 - 0.196 in.)	bb <sup>(1)</sup> 6.3 - 8.3 mm (0.249 - 0.327 in.)
d: 0.5 - 1.0 mm (0.020 - 0.039 in.)	m: 4.0 - 6.0 mm (0.158 - 0.236 in.)	bb <sup>(2)</sup> 6.4 - 8.4 mm (0.252 - 0.331 in.)
e: 7.0 - 9.0 mm (0.275 - 0.354 in.)	n: 3.3 - 5.3 mm (0.120 - 0.208 in.)	cc: 5.0 - 7.0 mm (0.197 - 0.275 in.)
f: 3.0 - 5.0 mm (0.119 - 0.196 in.)	o: 1.8 - 3.8 mm (0.071 - 0.149 in.)	dd: 6.2 - 8.2 mm (0.245 - 0.322 in.)
g: 4.0 - 6.0 mm (0.158 - 0.236 in.)	p: 0.5 - 1.0 mm (0.020 - 0.039 in.)	ee: 4.0 - 6.0 mm (0.158 - 0.236 in.)
h: 6.0 - 8.0 mm (0.237 - 0.314 in.)	q: 3.0 - 5.0 mm (0.119 - 0.196 in.)	ff: 1.0 - 3.0 mm (0.040 - 0.118 in.)

3. Remove dust seal (1) from center bearing support using special tool.

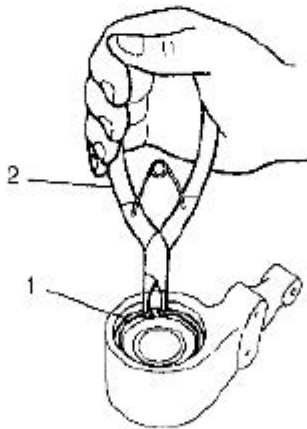
Special Tool

(A): 09913-50121



**Fig. 26: Removing Dust Seal**  
Courtesy of SUZUKI OF AMERICA CORP.

4. Remove snap ring (1) using snap ring pliers (2).



**Fig. 27: Removing Snap Ring**  
Courtesy of SUZUKI OF AMERICA CORP.

5. Using hydraulic press (2) and special tool, remove center bearing from center bearing support (1) by pushing the bearing from transaxle side.

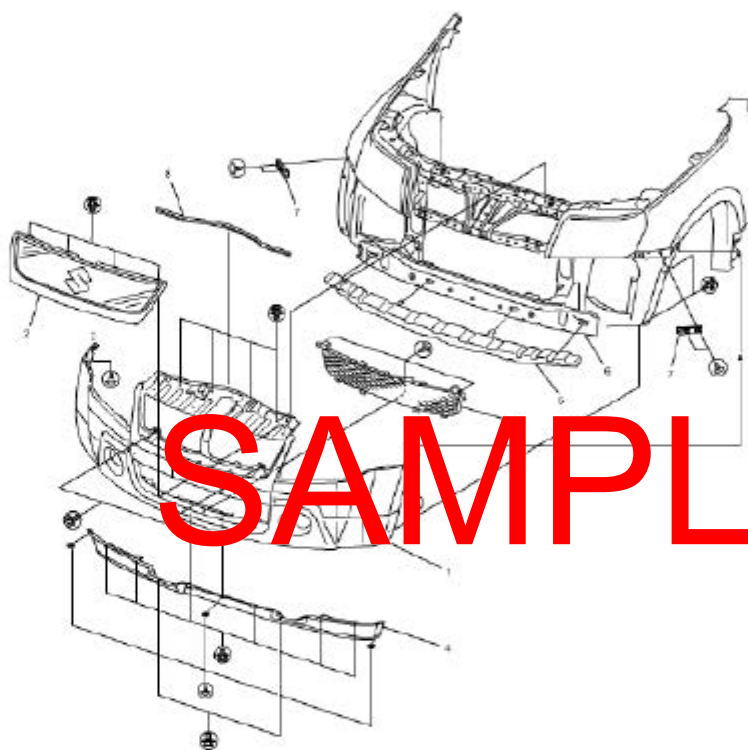
Special Tool

## ACCESSORIES AND BODY, CAB

### Body Structure - Grand Vitara

## REPAIR INSTRUCTIONS

### FRONT BUMPER COMPONENTS



1. Front bumper	3. Front bumper net	5. Front bumper absorber	7. Front bumper holder
2. Radiator grill	4. Front air dam skirt	6. Front bumper member	8. Seal

**Fig. 1: Identifying Front Bumper And Related Components**

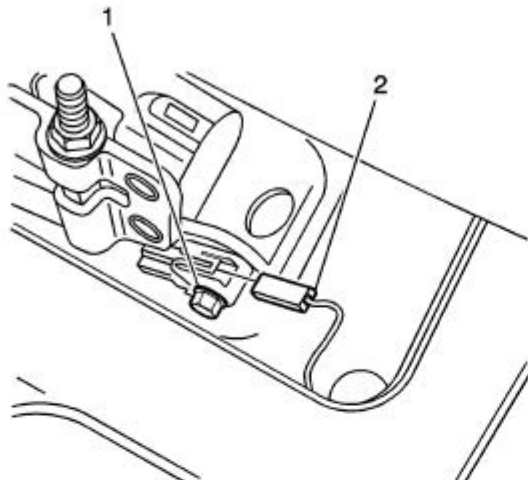
Courtesy of SUZUKI OF AMERICA CORP.

### REAR BUMPER COMPONENTS



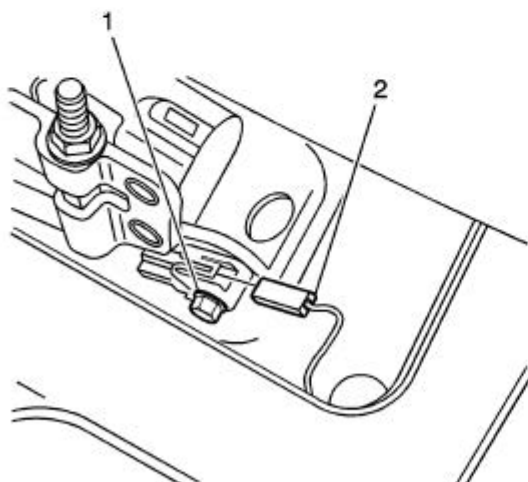
## Park Brake Warning Lamp Switch Replacement

### Removal Procedure



1. Disable the supplemental inflatable restraint (SIR) system. Refer to "SIR Disabling and Enabling: ".
2. Remove the front floor console. Refer to "Console Replacement: ".
3. Disconnect the warning lamp switch electrical connector (2).
4. Remove the warning lamp switch mounting screw (1).
5. Remove the switch from the park brake lever assembly.

### Installation Procedure



1. Align the park brake warning lamp switch locating tab to the locating hole on the park brake lever assembly.
2. Install the switch to the park brake lever.

### ⚠ CAUTION

Refer to "Fastener Notice: ".

3. Install the park brake warning lamp switch mounting screw (1).

#### Tightening torque

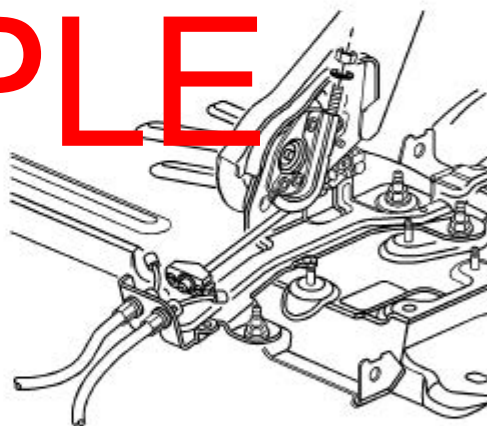
Tighten the screw to 4 N·m (35 lb in).

4. Connect the park brake warning lamp switch electrical connector (2).
5. Install the front floor console. Refer to "Console Replacement: ".
6. Enable the SIR system. Refer to "SIR Disabling and Enabling: ".
7. Verify correct park brake warning lamp operation.

## Parking Brake Front Cable Replacement

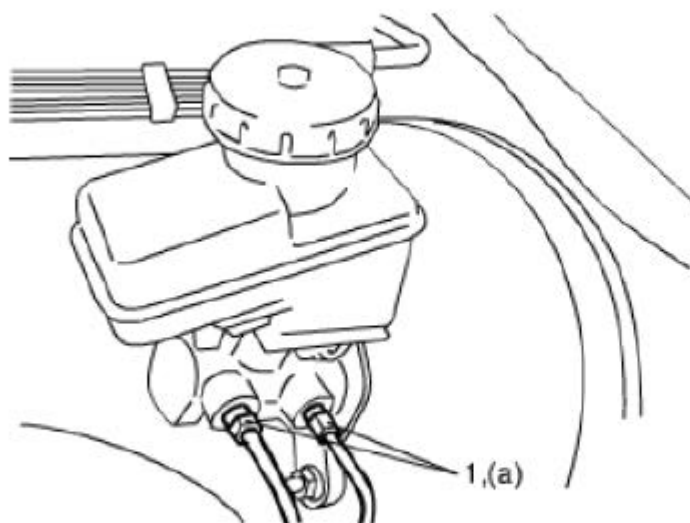
### Removal Procedure

1. Disable the supplemental inflatable restraint (SIR) system. Refer to "SIR Disabling and Enabling: ".
2. Remove the front floor console. Refer to "Console Replacement: ".



3. With park brake lever in the released position, using ONLY hand tools, remove the park brake cable adjusting nut and washer.
4. Release the rear park brake cable ends from the cable equalizer on the front cable.
5. Remove the front park brake cable from the park brake lever by pulling the cable rearward.

3



**Fig. 93: Measuring Resistance Between "L33-1" And "L33-2" Terminals (For DTC B1061)**

Substitute a known-good SDM and recheck.

circuit in floor harness. DTC B1065: Repair high resistance or open in "BRN/WHT" or "BRN" wire circuit in floor harness.

*Is resistance 5.5 ohms or less?*

# SAMPLE

4

1. With ignition switch OFF, disconnect special tools (B) and (C) then reconnect connector "L25" or "L30".
2. Disconnect side-air bag (inflator) module connector "Q06" or "Q07" from side-air bag (inflator) module.
3. Check proper connection to side-air bag (inflator) module at terminal in connector.
4. If OK, then connect special tools (A), (B) and (C) to side-air bag (inflator) connector.

#### Special Tool

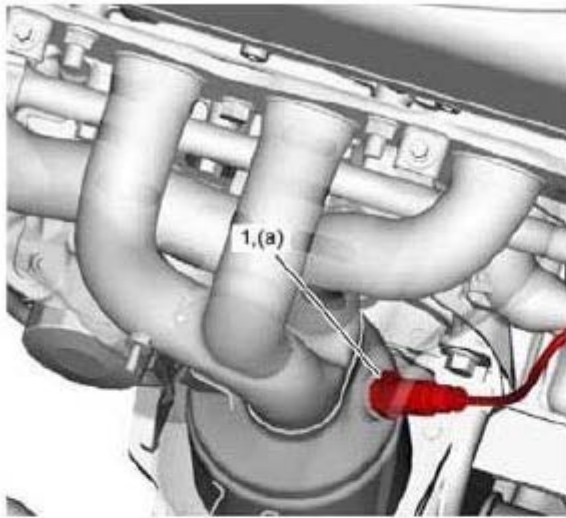
(A): 09932-76010

(B): 09932-75010

(D): 09932-78310

DTC B1061: Repair high resistance or open in "GRY/RED" or "GRY" wire circuit in seat harness. DTC B1065: Repair high resistance or

Replace side-air bag (inflator) module. Refer to Side-Air Bag (Inflator) Module Removal and



**Fig. 24: Identifying A/F Sensor**  
Courtesy of SUZUKI OF AMERICA CORP.

#### HEATED OXYGEN SENSOR (HO2S) HEATER ON-VEHICLE INSPECTION

1. Disconnect sensor connector.
2. Using ohmmeter, measure resistance of sensor heater between terminals "VB" and "GND" at sensor connector.

If found faulty, replace HO2S.

**NOTE:** Temperature of sensor affects resistance value largely. Make sure that sensor heater is at correct temperature.

**HO2S heater resistance**

5.0 - 6.4 ohms at 20 °C (68 °F)

**Viewed from terminal side**



**Fig. 25: Identifying HO2S Heater**  
Courtesy of SUZUKI OF AMERICA CORP.

Front Seat Belt Buckle Replacement



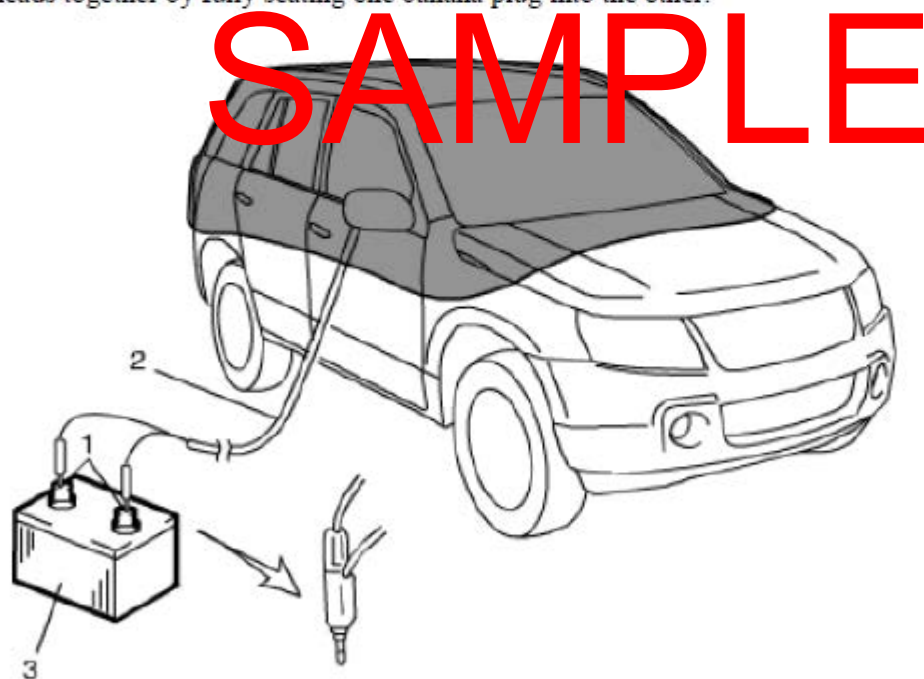
Callout	Component Name
1	<div>Front Seat Belt Buckle Bolt (Qty: 1)</div> <div><div><div>⚠ CAUTION</div><div>Refer to "Fastener Notice: ".</div></div></div> <div>Tightening torque 45 N·m (33 lb ft)</div>
2	<div>Front Seat Belt Buckle</div> <div>Tip:<div><div>1. Disconnect the electrical connector under the seat.</div><div>2. Slide the buckle assembly upwards and out from between the seat cushion and the seat cushion inner trim panel.</div></div></div>



**WARNING:** Failure to take proper precautions when handling a deployed air bag and/or activated seat belt pretensioner may result in a fire, personal injury or health problems.

- Do not place an activated air bag (inflator) module/seat belt pretensioner near any flammable objects because it is hot enough to start a fire.
- Do not pour water, oil, etc. over an air bag (inflator) module/seat belt pretensioner immediately after its activation.
- Wait for at least 30 minutes before touching any metal surface of an activated air bag (inflator) module/seat belt pretensioner.
- Be sure to follow all of the procedures described in this section.

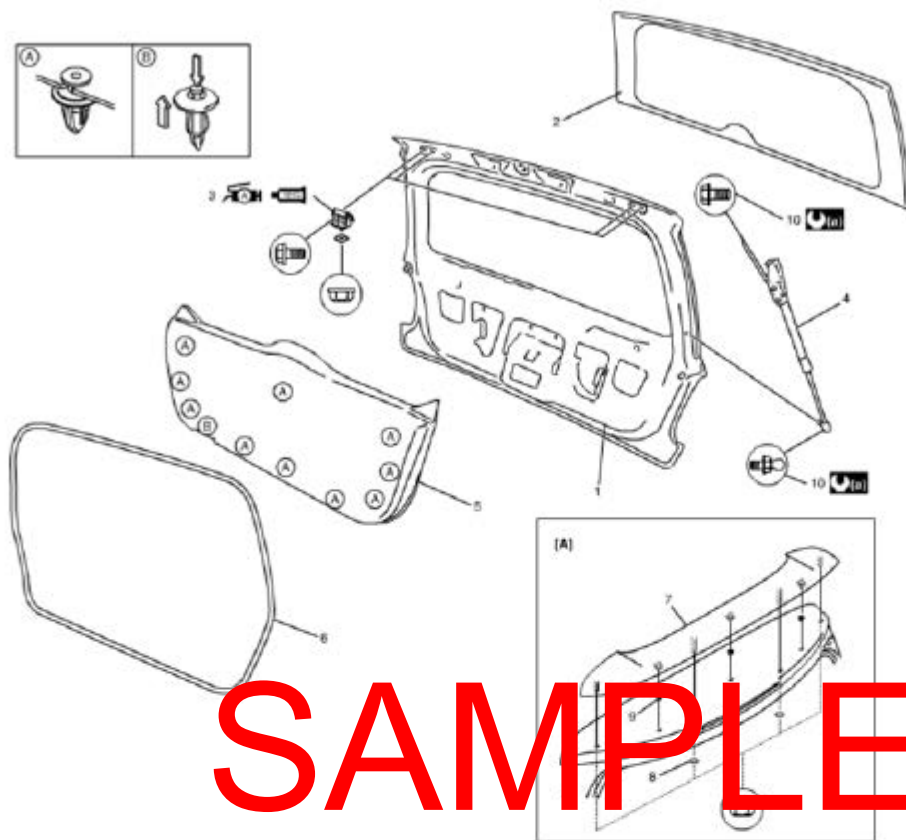
14. Separate two banana plugs (1) on deployment harness (2).
15. Connect deployment harness (2) to 12 volts vehicle battery (3). This will immediately deploy or activate air bag (inflator) module or seat belt pretensioners.
16. Disconnect deployment harness (2) from 12 volts vehicle battery (3) and short two deployment harness leads together by fully seating one banana plug into the other.



**Fig. 202: Connecting Deployment Harness To Vehicle Battery**  
Courtesy of SUZUKI OF AMERICA CORP.

17. Repeat Steps 3) through 16) to deploy/activate air bag (inflator) modules and seat belt pretensioners which has not been deployed/activated, if any.





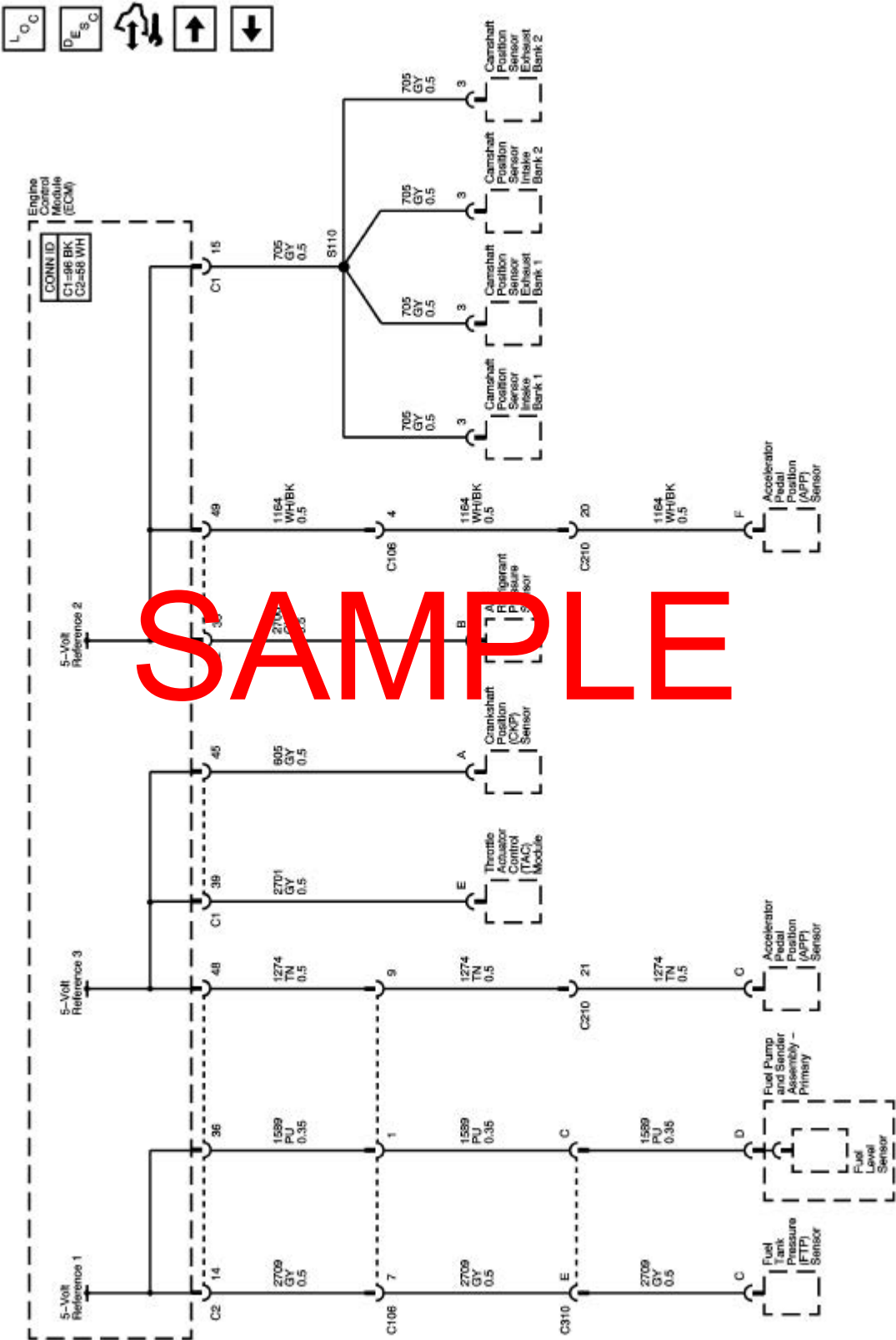
[A]: Rear end door spoiler installation position	6. Rear end door opening wether-strip
1. Rear end door panel assembly	7. Rear end door spoiler (if equipped)
2. Rear end door window glass	8. Cap
 3. Rear end door hinge : Apply lithium grease 99000-25011 to door hinge moving section. : Apply sealant 99000-31110 to contact face.	9. Clip
4. Rear end door balancer	10. Rear end door balancer bolt
5. Rear end door trim	 23 N·m (2.3 kgf-m, 17.0 lbf-ft)

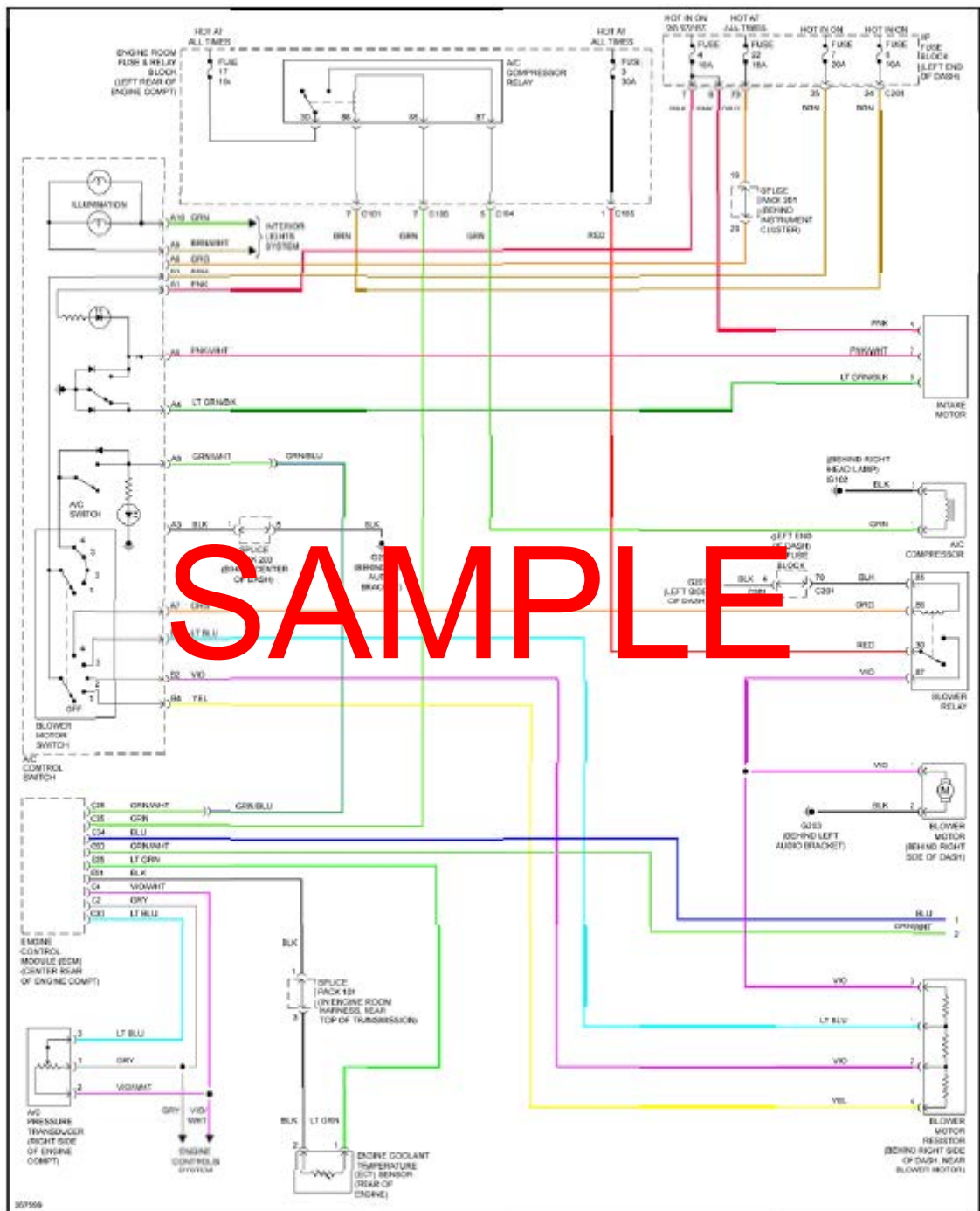
**Fig. 12: Identifying Rear End Door Assembly Components (Hatchback) With Torque Specifications**  
 Courtesy of SUZUKI OF AMERICA CORP.

## REAR END DOOR ASSEMBLY REMOVAL AND INSTALLATION (HATCHBACK)

**WARNING:** The rear end door is very heavy with the door balancers detached. The door can cause personal injury if you are not careful when handling it.

5-Volt Reference





**Fig. 1: Manual A/C Circuit (1 of 2)**