

# 1.GENERAL DESCRIPTION

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# General Description

## 1-1 General Description

### A: MODEL LINEUP

Body	Engine	Transmission
Sedan	2.5 L SOHC non-turbo	6MT/Lineartronic™
	2.5 L DOHC turbo	6MT
	3.6 L DOHC non-turbo	5AT
OUTBACK	2.5 L SOHC non-turbo	6MT/Lineartronic™
	3.6 L DOHC non-turbo	5AT

## General Description

### B: DESCRIPTION OF MODEL CLASSIFICATION CODE

#### 1. VIN

]4S3BMAA6XC1002001[

The starting and ending brackets ( ] [ ) are stop marks.

Digit	Code	Meaning	Details
1 — 3	4S3	Manufacturer of body area	4S3: All models except OUTBACK destined for the United States (C0) 4S4: All OUTBACK models destined for the United States (C0)
4	B	Car line	B: LEGACY/OUTBACK
5	M	Body type	M: Sedan R: Wagon
6	A	Displacement + Destination	A: 2.5 L non-turbo U4 B: 2.5 L non-turbo U5 C: 2.5 L non-turbo U6 D: 3.6 L non-turbo U5 E: 3.6 L non-turbo U6 F: 2.5 L turbo U4 G: 2.5 L non-turbo C0 H: 2.5 L non-turbo C5 J: 3.6 L non-turbo C0 K: 2.5 L turbo C0 L: 2.5 L non-turbo C6 M: 3.6 L non-turbo C6
7	A	Grade	A: Base B: Premium C: Premium + cold weather package D: Premium + harman/kardon® E: Premium + M/R F: Premium + harman/kardon® + cold weather package G: Premium + M/R + cold weather package H: Premium + M/R + cold weather package + harman/kardon® J: Limited + harman/kardon® K: Limited + harman/kardon® + M/R L: Limited + M/R + navigation M: Limited + M/R
8	6	Restraint system or GVWR class	6: Manual belt, dual airbag, side airbag (in seat back) + curtain airbag (in roof) (except for OUTBACK models) C: Manual belt, dual airbag, side airbag (in seat back) + curtain airbag (in roof), Class C (GVWR 4001 to 5000 lb) (OUTBACK models)
9	X	Check digit	X or 0 — 9
10	C	Model year	C: 2012MY
11	1	Transmission type	1: Full-time AWD 6MT 2: Full-time AWD 5AT 3: Full-time AWD Lineartronic™
12 — 17	002001	Serial number	Sedan: 002001 — 199999 Wagon: 200001 — 399999

## General Description

### 2. VEHICLE TYPE CODE

BM9CY4M

Digit	Code	Meaning	Details
1	B	Series name	B: LEGACY
2	M	Body type	M: Sedan R: Wagon
3	9	Engine and drive classification	9: 2.5 L AWD F: 3.6 L AWD
4	C	Model year revision classification	A: Start with A, followed by B, C and so forth
5	Y	Destination	Y: United States of America, Canada
6	4	Grade	4: 2.5 i 5: 2.5 i Premium 6: 2.5 i Limited C: 2.5 GT Premium D: 2.5 GT Limited F: 3.6 R G: 3.6 R Premium H: 3.6 R Limited K: OUTBACK 2.5 i L: OUTBACK 2.5 i Premium M: OUTBACK 2.5 i Limited S: OUTBACK 3.6 R T: OUTBACK 3.6 R Premium U: OUTBACK 3.6 R Limited
7	M	Transmission, fuel feed system	9: Lineartronic™ MFI SOHC non-turbo U: D-5AT MFI DOHC non-turbo M: 6MT MFI SOHC X: 6MT MFI DOHC turbo

## General Description

### 3. ENGINE TYPE CLASSIFICATION CODE

EJ253ADAFB

Digit	Code	Meaning	Details
1	E	Engine code	E: Engine
2	J	Engine type code	J: Horizontally opposed 4-cylinder, 16 valves Z: Horizontally opposed 6-cylinder, 24 valves
3 — 4	25	Displacement	25: 2.5 L 36: 3.6 L
5	3	Fuel feed system	3: SOHC EGI (MFI) non-turbo 5: DOHC EGI (MFI) turbo D: DOHC EGI (MFI) non-turbo 6-cylinder
6	A	Emission control	A: North America (FED) B: North America (FED, CAL) C: North America (CAL)
7	D	Mounted transmission	C: D-5AT (without ATF warmer) D: 6MT U: Lineartronic™
8	A	Model year revision, major change	A: Start with A, followed by B, C and so forth
9	F	Detailed specifications	F: SOHC variable adjustment valve L: DOHC direct type (with water-cooled oil cooler)
10	B	Detailed specifications	Specification difference over vehicle body

### 4. TRANSMISSION CLASSIFICATION CODE

1) MT

TY756VHCCA

Digit	Code	Meaning	Details
1	T	Transmission code	T: Transmission
2	Y	Standard transmission system	Y: Full-time AWD MT center differential
3 — 4	75	Distance between gear centers	75: From main shaft to drive pinion
5	6	Car line series	6: 6MT
6	V	Transmission specifications	V: Full-time AWD single range 6MT with viscous coupling center differential
7	H	Mounted engine	H: 2.5 L SOHC non-turbo L: 2.5 L DOHC turbo
8 — 10	CCA	Detailed specifications	Used when ordering parts. For details, refer to the parts catalog.

## General Description

2) AT  
TG5D8CJAAA

Digit	Code	Meaning	Details
1	T	Transmission code	T: Transmission
2	G	Standard transmission system	G: VTD type full-time AWD 5AT
3 — 4	5D	Transmission type series	5D: New E-5AT
5	8	Car line series	8: Small
6	C	Transmission specifications	C: Full-time AWD direct 5AT with VTD type center differential
7	J	Mounted engine	J: 3.6 L DOHC non-turbo
8 — 10	AAA	Detailed specifications	Used when ordering parts. For details, refer to the parts catalog.

3) Lineartronic™  
TR690JHBAA

Digit	Code	Meaning	Details
1	T	Transmission code	T: Transmission
2	R	Standard transmission system	R: Full-time AWD CVT
3 — 4	69	Distance between pulley centers	69: Lineartronic™ (distance between pulley centers: 169 mm)
5	0	Car line series	0: Lineartronic™
6	J	Transmission specifications	J: Active torque split type full-time AWD
7	H	Mounted engine	H: 2.5 L SOHC non-turbo
8 — 10	BAA	Detailed specifications	Used when ordering parts. For details, refer to the parts catalog.

### 5. REAR DIFFERENTIAL CLASSIFICATION CODE

Classification	Reduction gear ratio	LSD
B1	4.111	None
B2	3.900	None
T2	4.111	None
TP	4.444	None
XC	3.083	None
XD	3.700	None

### **1-2 Outline of Modification**

1. Routing of the PCV circuits of 2.5 L SOHC engine has been modified.
2. New type of driver's airbag module has been adopted.
3. 1CD player with a display has been adopted.

## Outline of Modification

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# 2.ENGINE

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# Engine Description

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## 2-1 Engine Description

### A: GENERAL DESCRIPTION

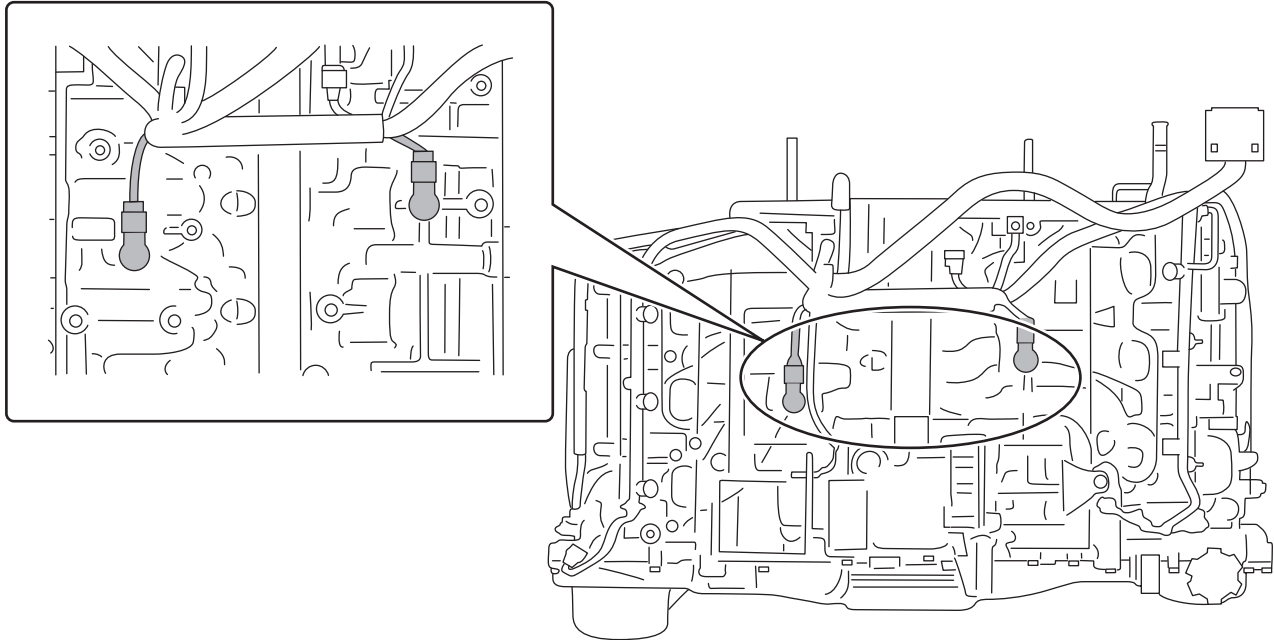
- The knock sensor used in Forester's FB engine has been also adopted on the 3.6 L DOHC engine.
- The resistance setting of the fuel level sensor has been modified.
- Routing of the PCV circuits has been modified, and the clamps have been added (2.5 L SOHC engine).
- Clamps have been added to the PCV circuits (2.5 L turbo, 3.6 L DOHC engine).

## 2-2 Fuel

### A: DETAILS OF CHANGES

#### 1. KNOCK SENSOR

- To improve productivity, the knock sensor used in the FB engine has been also adopted on the 3.6 L DOHC engine.
- This leads to modification of terminal specifications. Tin plating is used instead of gold plating for harness side terminals.

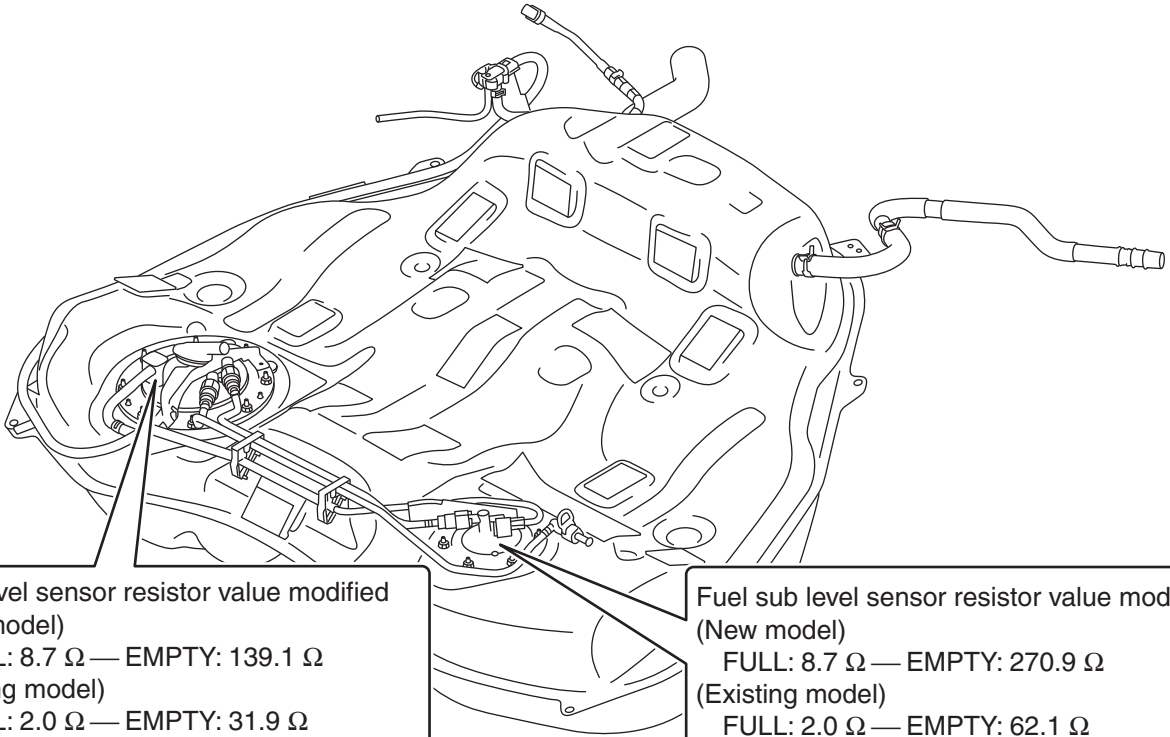


FU-06265

# Fuel

## 2. FUEL LEVEL SENSOR

- To improve productivity, anti-sulfidation process has been modified (elevated resistance).
- The resistance value of the fuel level sensor is changed accordingly.



Fuel level sensor resistor value modified  
(New model)  
FULL: 8.7  $\Omega$  — EMPTY: 139.1  $\Omega$   
(Existing model)  
FULL: 2.0  $\Omega$  — EMPTY: 31.9  $\Omega$

Fuel sub level sensor resistor value modified  
(New model)  
FULL: 8.7  $\Omega$  — EMPTY: 270.9  $\Omega$   
(Existing model)  
FULL: 2.0  $\Omega$  — EMPTY: 62.1  $\Omega$

FU-06671

## 2-3 Emission Control

### A: OUTLINE OF MODIFICATION

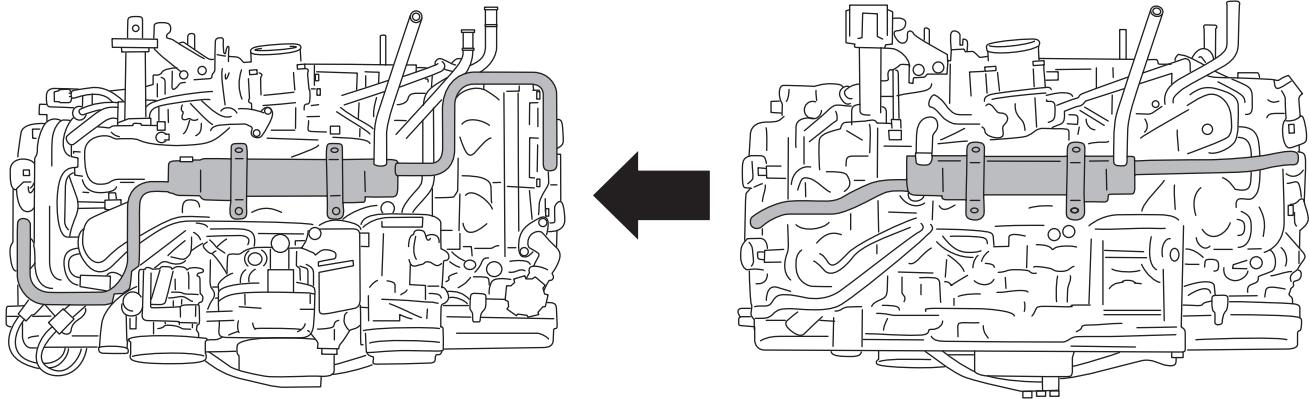
- Routing of the PCV circuits has been modified (2.5 L SOHC engine).
- Clamps have been added to all piping of the PCV circuits (All engines).

### B: DETAILS OF CHANGES

- Routing of the PCV circuits has been modified so that removal of the PCV circuits is not necessary when replacing the intake manifold (2.5 L SOHC engine).

New model

Existing model

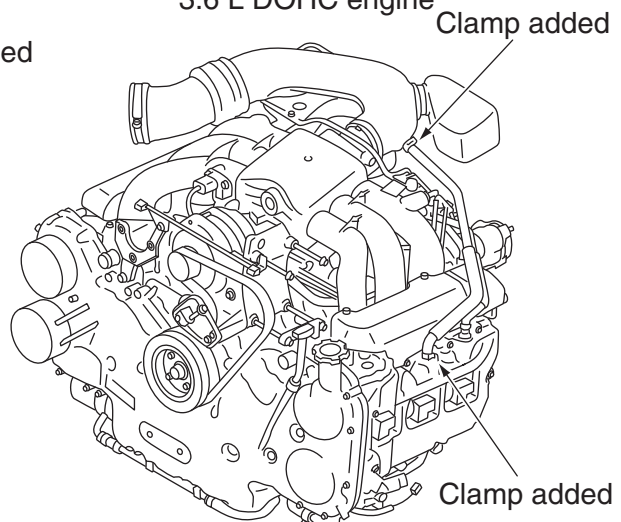
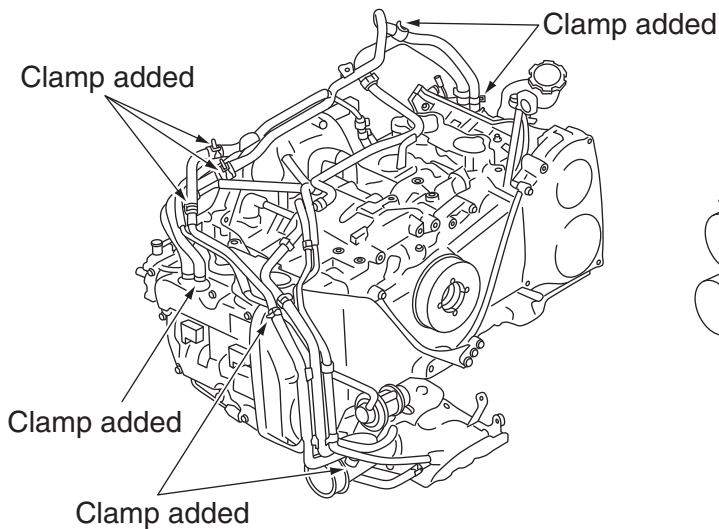


EC-02909

- The following clamps have been added to 2.5 L turbo and 3.6 L DOHC engine.

2.5 L turbo engine

3.6 L DOHC engine



EC-03055



# 3. CHASSIS

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# Suspension

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## **3-1 Suspension**

### **A: FRONT STABILIZER**

Characteristics of the front stabilizer bushing have been re-evaluated for better drivability and ride quality.

### **B: REAR LATERAL LINK**

#### **1. OUTLINE OF MODIFICATION**

Pillow ball bushing has been adopted on the outer side of the rear lateral link.

#### **2. DETAILS OF CHANGES**

Adoption of pillow ball bushing resulted in use of ball joints for connecting the right and left rear suspension arms, and links and housing. This design has improved stability with a higher rigidity and ride quality due to a reduction in friction of suspension.



# Brake

## 3-2 Brake

### A: VDCCM&H/U

Due to modification in software, hydraulic control unit classification ID has been changed.

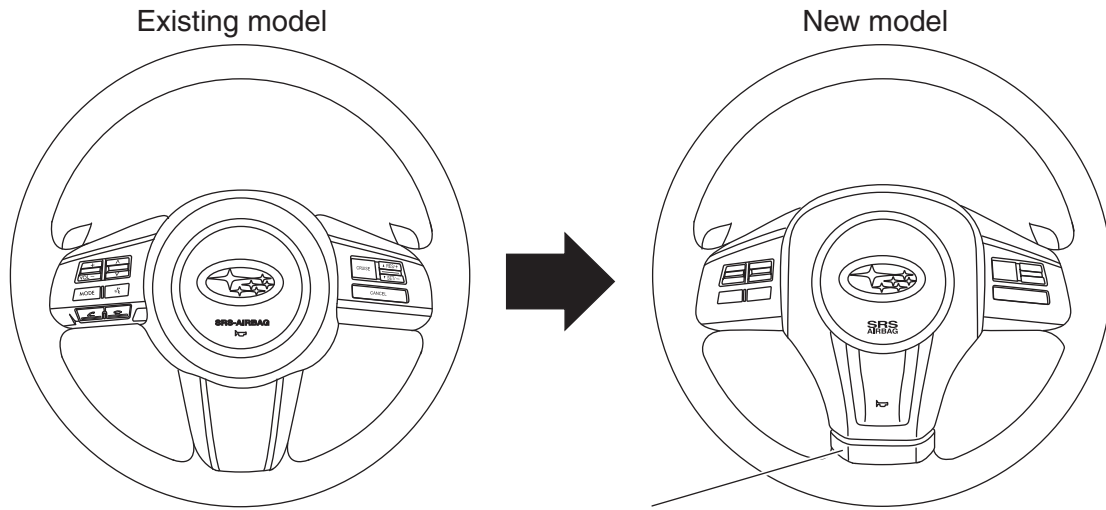
Hydraulic Control Unit Classification ID		Specifications
Existing model	New model	
V1	V4	VDC vehicle

## Power Assisted System (Power Steering)

### 3-3 Power Assisted System (Power Steering)

#### A: STEERING WHEEL

Due to modification in the airbag, the design of the steering wheel has been changed.



Only for leather-wound steering wheel  
2S decorative bezel is available

PS-01281

# 4. BODY

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# Airbag System

## 4-1 Airbag System

### A: DRIVER'S AIRBAG MODULE

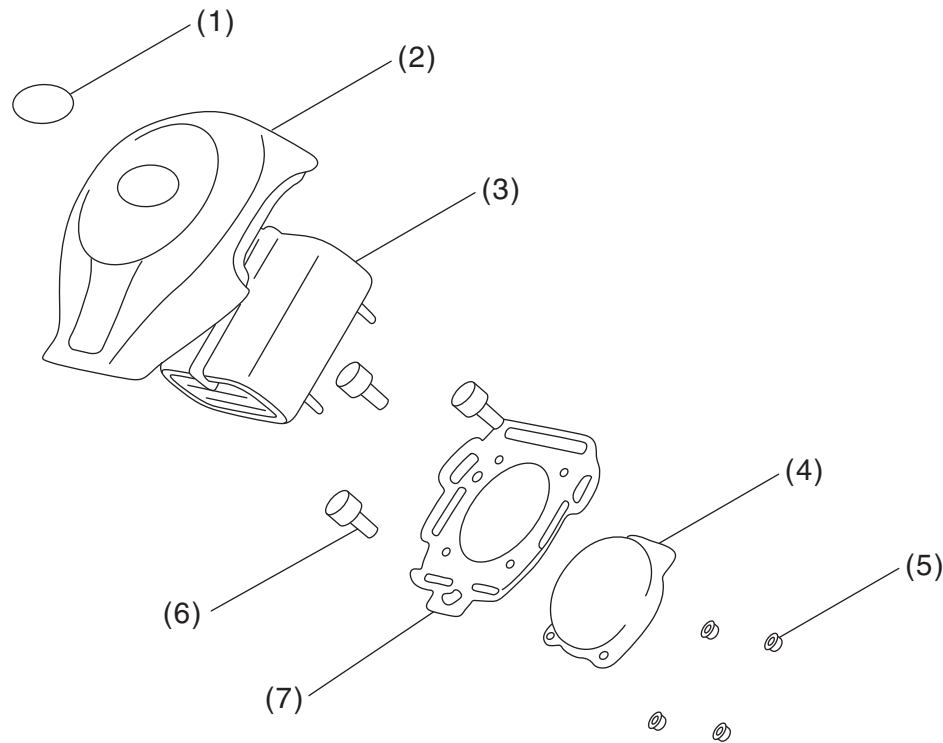
#### 1. OUTLINE OF MODIFICATION

To improve merchantability and passenger protection performance, the driver's airbag module has been modified.

#### 2. DETAILS OF CHANGES

- Pad: Changed to the next generation standard design.
- Installation to the steering wheel: Installation method has been changed from bolt-on type to quick attachment type.
- Airbag: Changed to a new type that improves passenger protection performance.

#### 3. STEERING COMPONENTS



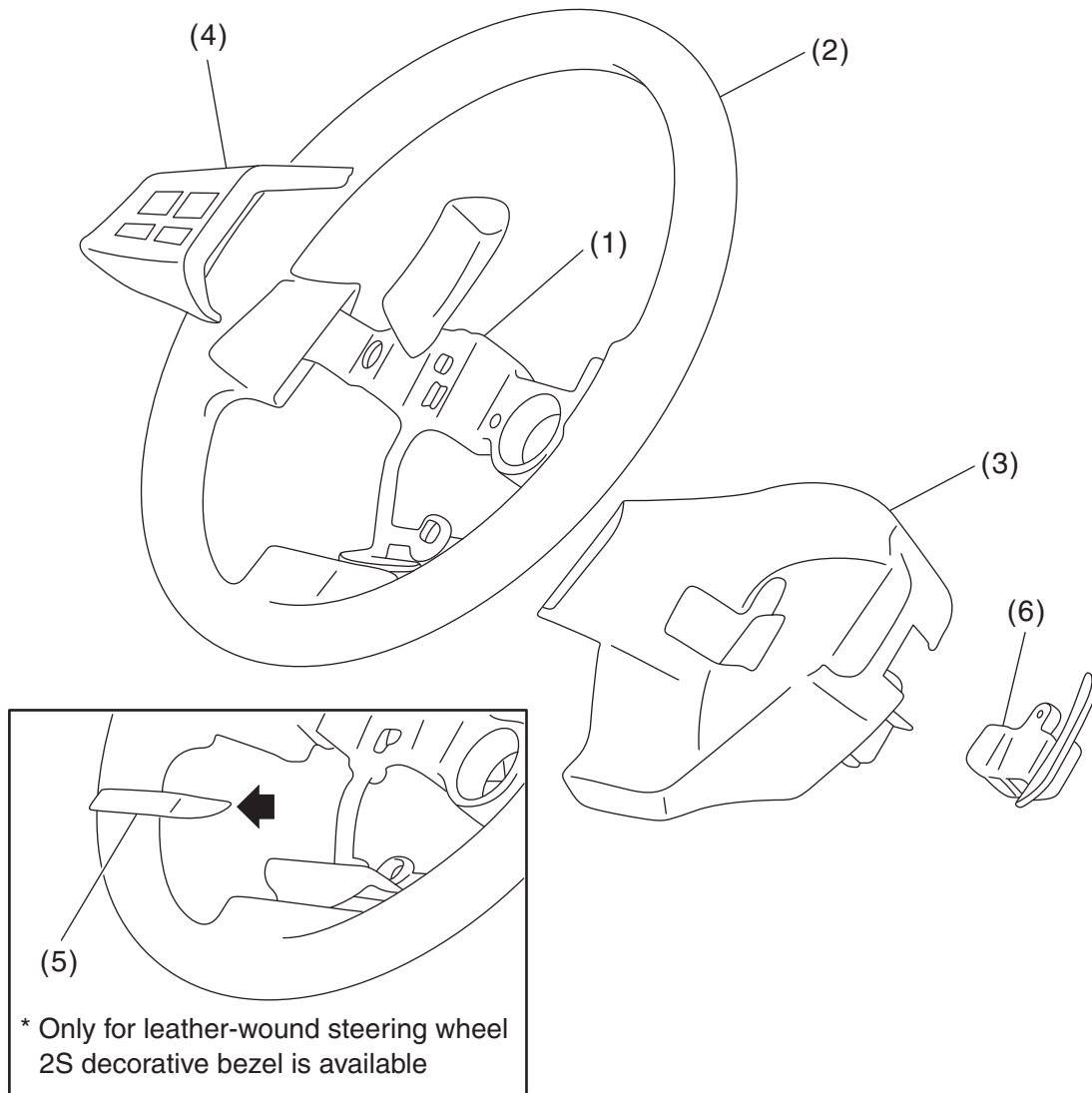
AB-02724

- (1) Mark
- (2) Pad cover
- (3) Bag sub-assembly

- (4) Inflator
- (5) Nut

- (6) Horn unit
- (7) Back holder

# Airbag System



AB-02725

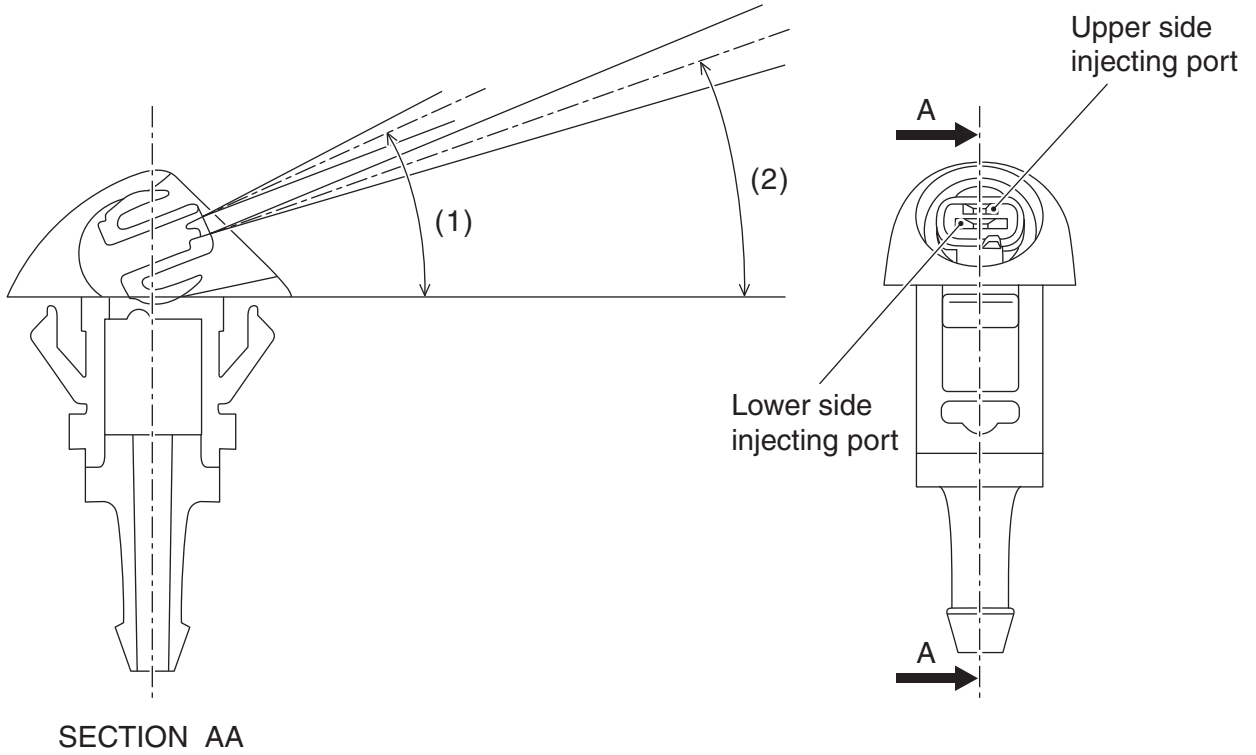
- |                         |                               |                  |
|-------------------------|-------------------------------|------------------|
| (1) Armature            | (3) Lower cover               | (5) 2S bezel     |
| (2) Steering wheel body | (4) Steering satellite switch | (6) Paddle shift |

# Wiper/Washer System

## 4-2 Wiper/Washer System

### A: FRONT WASHER NOZZLE

To clean off the upper part of the windshield properly, the front washer nozzle injecting angle has been modified.



WW-00793

	Existing model	New model
Upper side injecting angle (1)	25°	26°
Lower side injecting angle (2)	20°	21°

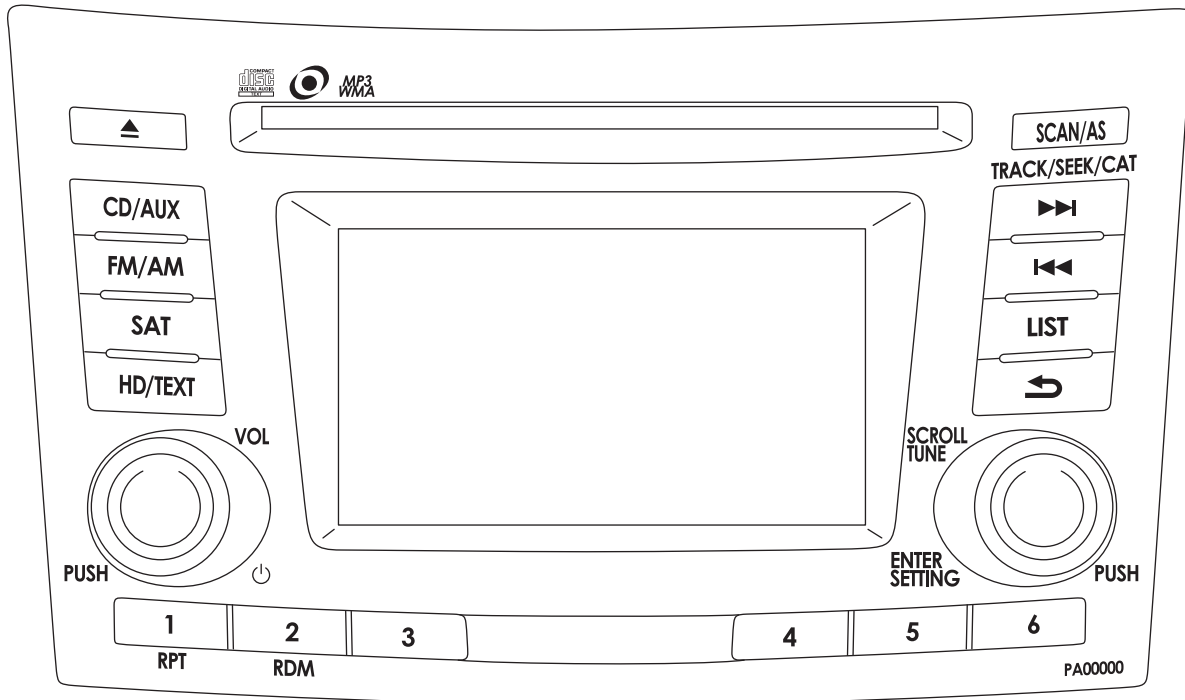
## 4-3 Entertainment

### A: AUDIO

#### 1. OUTLINE OF MODIFICATION

1CD player with a display and high-performance 1CD player have been provided additionally.

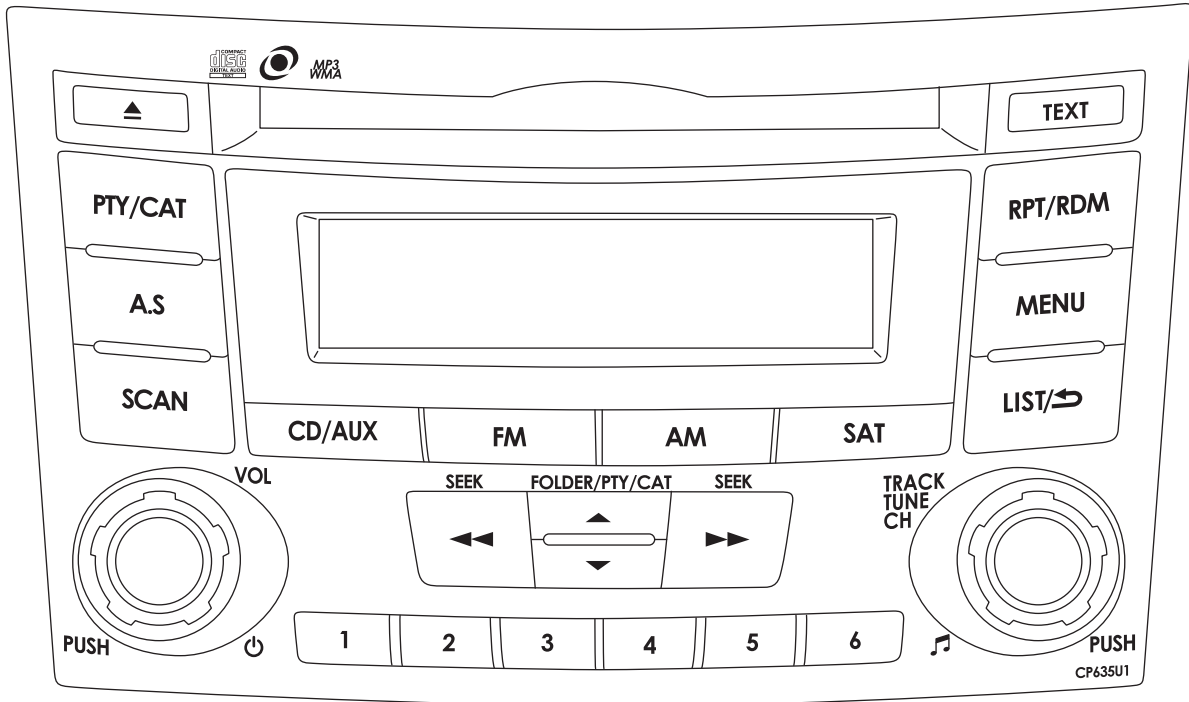
- 1CD player with a display



ET-00681

# Entertainment

- High-performance 1CD player



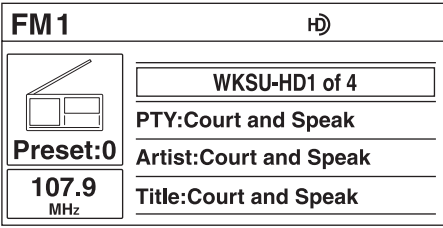
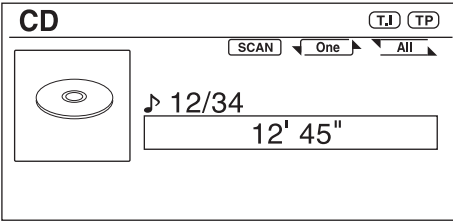
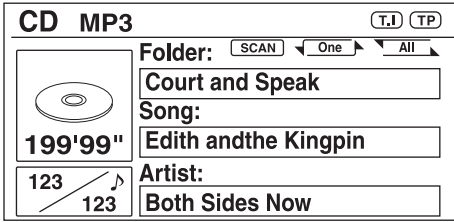
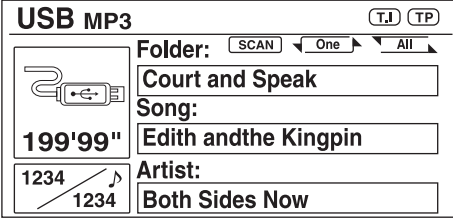
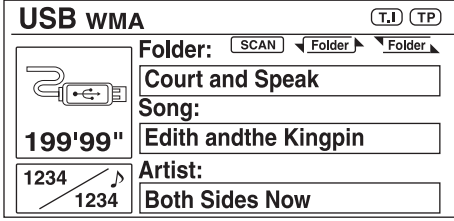
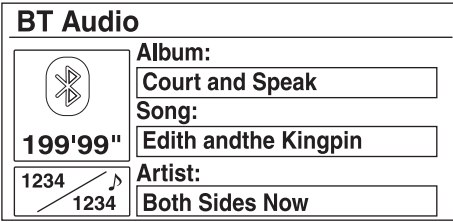
ET-00641



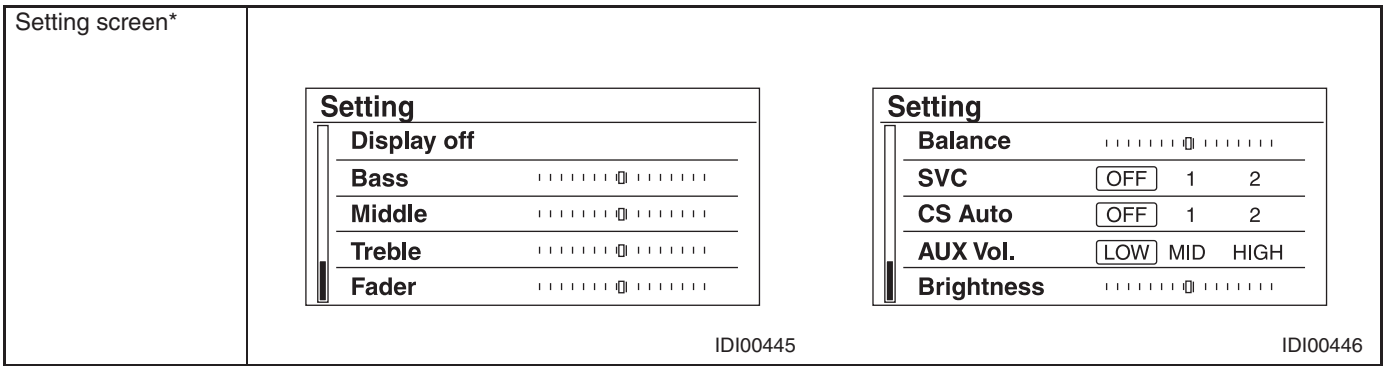
# Entertainment

## 2. DISPLAY SCREEN OF THE 1CD PLAYER WITH A DISPLAY

Samples of main display screens are as follows.

FM radio screen	 <p style="text-align: right;">IDI00457</p>
CD screen	<div style="display: flex; justify-content: space-around;"> <div data-bbox="422 690 872 909">  </div> <div data-bbox="985 690 1435 909">  </div> </div> <p style="text-align: center;">IDI00440</p> <p style="text-align: right;">IDI00441</p>
USB audio screen	<div style="display: flex; justify-content: space-around;"> <div data-bbox="422 1050 872 1268">  </div> <div data-bbox="985 1050 1435 1268">  </div> </div> <p style="text-align: center;">IDI00442</p> <p style="text-align: right;">IDI00443</p>
Bluetooth® audio screen	 <p style="text-align: center;">IDI00444</p>

# Entertainment



\*: Selecting the "SETTING" button displays the "SETTING" screen.

## 3. LIST OF FUNCTIONS

- Comparison of Audio Specifications

● : Changes

		Existing model		New model		
		6CD	1CD	New 1CD player with a display (no deployment for C0)	High-performance 1CD player	1CD (no change)
CD	6CD	○	—	—	—	—
	1CD	—	○	●	○	○
Radio	Analog	AM/FM	AM/FM	AM/FM	AM/FM	AM/FM
Digital radio	XM	○ (separate tuner)	DOP	● (functions built-in & Factory Activation)	DOP	DOP
	HD	—	—	● (functions built-in) Tagging not supported	—	—
Display	Available: 4.3 inch	—	—	●	—	—
	Not available	○	○	—	○	○
Rear view camera display	Available	—	—	— (due to rear view mirror display)	—	—
	Not available	○	○	○	○	○
Additional functions	Bluetooth® H/F	○	—	○	●	—
	Voice recognition	English Voice tag	—	English ● French Voice tag	English ● French Voice tag	—
	Bluetooth® Audio	—	—	●	●	—
	AUX input	○	○	○	○	○
	USB supported	DOP	DOP	●	●	DOP
	iPod control					
Audio security	—	—	—	—	—	
Speaker	7 (harman/kardon® audio)	4	7 (harman/kardon® audio)	● 6 (Tweeter has been added)	4	
Steering switch	for audio	—	○	—	—	○
	for audio and BT-H/F	○	—	○	●	—
Microphone (in overhead console)	○	—	○	●	—	
Console	AUX mini-pin jack	○	○	○	○	○
	USB jack	—	—	●	●	—

# Entertainment

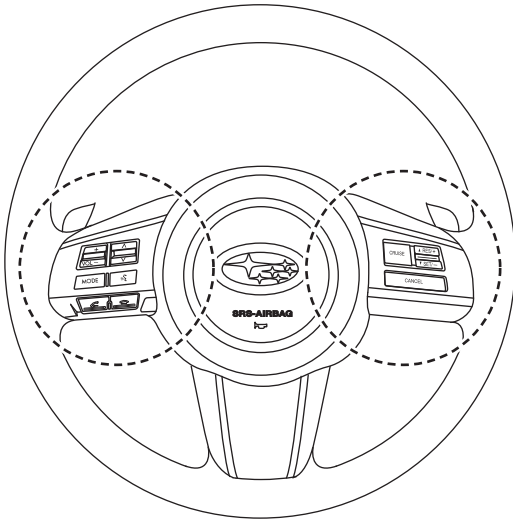
• High-performance 1CD player Specification Outline

Descriptions		Specifications	Remarks	
RADIO	BAND	AM/MW/FM		
	Frequency range	AM/MW: 530 - 1710 kHz FM: 87.75 - 107.9 MHz		
	STEP frequency (TUNE/SEEK)	AM/MW: 10 kHz/10 kHz FM: 200 kHz	AM, AM-AS	
	PRESET ch. number	AM: 6 × 2 ch FM: 6 × 3 ch	FM1, FM2, FM-AS	
	ANTENNA DIVERSITY	DIGITAL PHASE DIVERSITY		
DECK (1CD)	Supported media/format	CD-R, CD-RW (MP3, WMA, AAC)	DVD, DVD-R, DVD-RW: not supported	
	Display languages for CD TEXT	English		
	Display languages for FOLDER/FILE NAME	English		
	Max. number of FOLDERS/FILES	255/255		
	Shock-proof memory	Available		
USB	Supported format	MP3, WMA, AAC	USB 2.0	
	Display languages for FOLDER/FILE NAME	English		
	Max. number of FOLDERS/FILES	255/255		
iPod	iPod control	Available		
	Supported format	MP3, WMA, AAC	USB 2.0	
	Display languages for FOLDER/FILE NAME	English		
	Connectable devices	iPod	Available	Some of them may not be connectable
		iPhone	Available	
	Supported media	Music	Available	
		Podcast (with/without chapter)	Not available	
		Audiobook (with chapter)	Not available	
Displays jacket image of Music Files		Not available		
	Movie file play function	Not available		
Bluetooth®	Voice recognition	Handsfree call control	Available	With receive/transmit volume control function
		Audio control	Not available	
		Supported languages	English/French	Voice tag
		Bluetooth® Audio play function	Available	
AUX	Mini-pin jack	Available		
Other specifications	Maximum AMP output	140 W (35 W × 4 ch)		
	Speaker	Instrument panel tweeter × 2 Front door full range × 2 Rear door full range × 2		
	FIXED-EQ	5 Band		
	AUDIO SECURITY function	Not available		
Steering switch operation	RADIO	Available		
	CD	Available		
	USB	Available		
	iPod	Available		
	Bluetooth® Audio	Available		
	VOLUME control	Available		
	MUTE	Available		

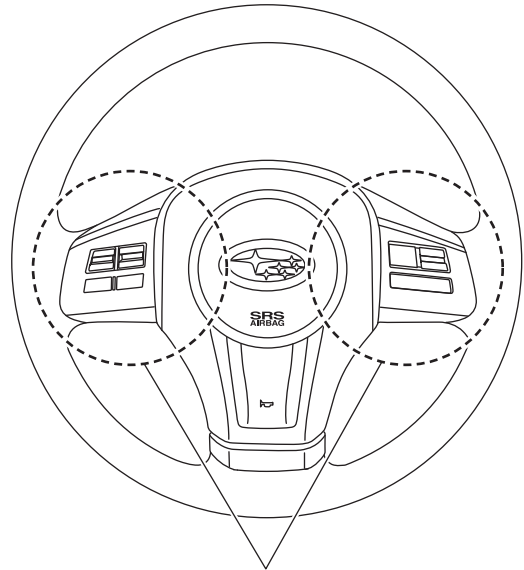
## B: STEERING SATELLITE SWITCH

Due to adoption of the newly designed steering wheel, the steering satellite switches have been modified.

Existing model



New model



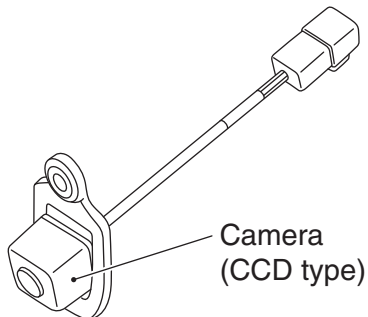
Switch cover:  
Silver used in existing model (button  
is black) is changed to black

ET-00639

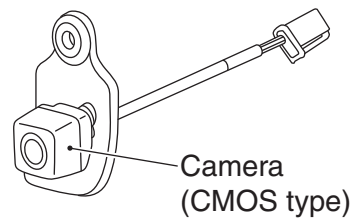
## C: REAR VIEW CAMERA SYSTEM

The CMOS type rear view cameras used in OUTBACK models have been adopted to the sedan models to provide brighter and more visible image quality (installed in models with the navigation system and rear view mirror (RCD)).

Existing model



New model



ET-00653

## **D: AUX INPUT TERMINAL**

### **1. OUTLINE OF MODIFICATION**

The USB port, that has been installed only to the vehicles with the navigation system, is now introduced to the vehicles equipped with High-performance 1CD player and 1CD player with a display as well.

### **2. DETAILS OF CHANGES**

Preparing USB ports allows users to connect their usual mobile audio devices and play audio files stored in them on the audio system installed on the vehicles.

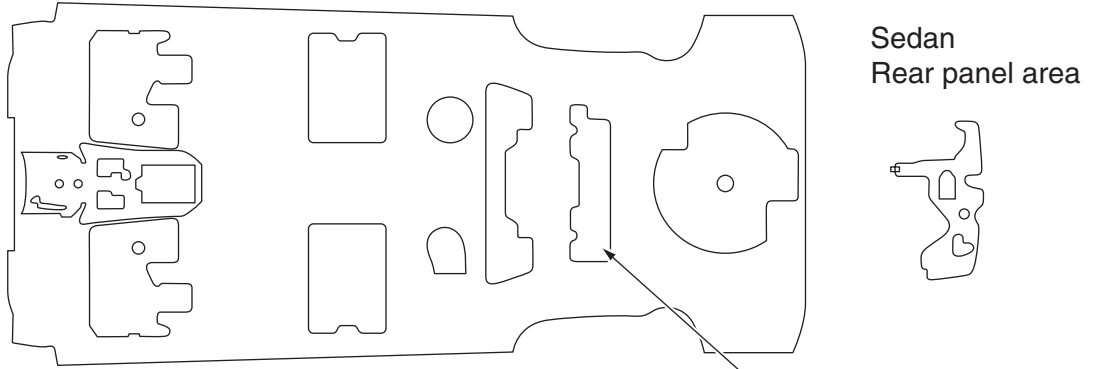
# Body Structure

## 4-4 Body Structure

To improve productivity, insulation coating is now used instead of sheet type insulator for soundproof. (Refer to the black colored areas in the illustration below.)

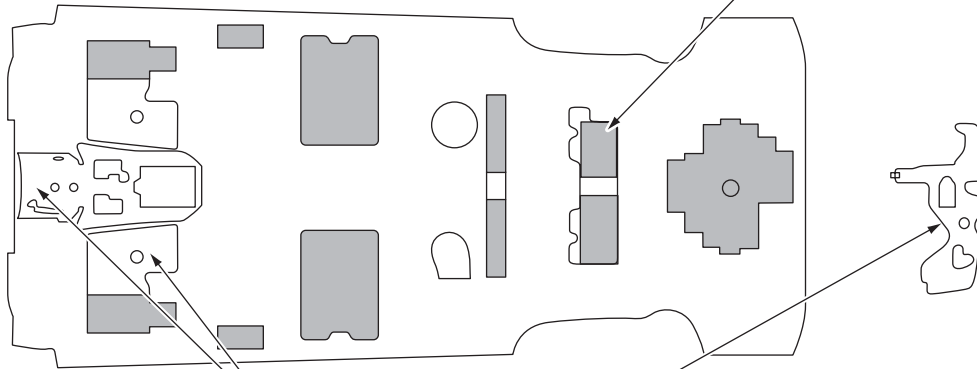
Existing model

Replaced but performance remains unchanged



Sheet type is continuously used for OUTBACK

New model



Sheet type is continuously used

BS-04764

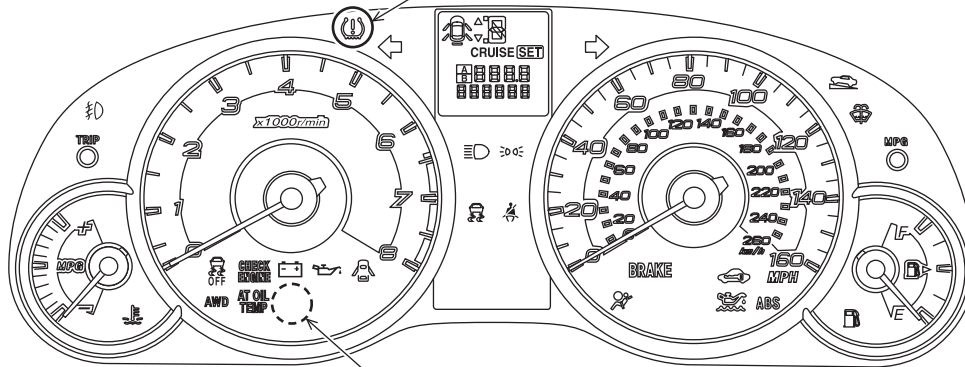
## 4-5 Instrumentation/Driver Info

### A: COMBINATION METER

#### 1. OUTLINE OF MODIFICATION

- The existing hard-wired driven CHECK ENGINE warning light has been modified to CAN driven.
- Positions of warning lights, such as the TPMS, have been changed.

New model: position of TPMS warning light has been changed



Existing model: setting position of TPMS warning light

ID100394

#### 2. DETAILS OF CHANGES

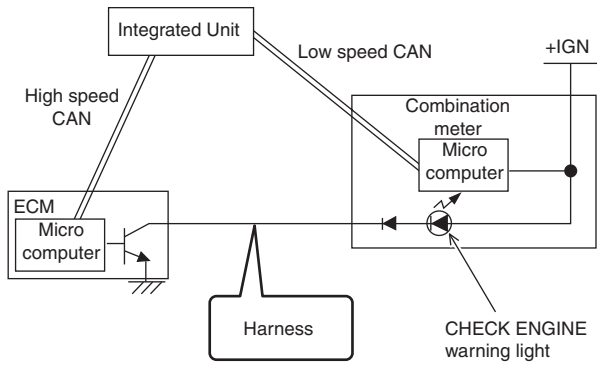
The details of the CHECK ENGINE warning light and its CAN-driven feature are described below.

Note that this CAN driven type CHECK ENGINE warning light is applied only to the vehicles destined for U4/ U5, and C0/C5. The existing hard-wired driven type is continually used on those destined for C6.

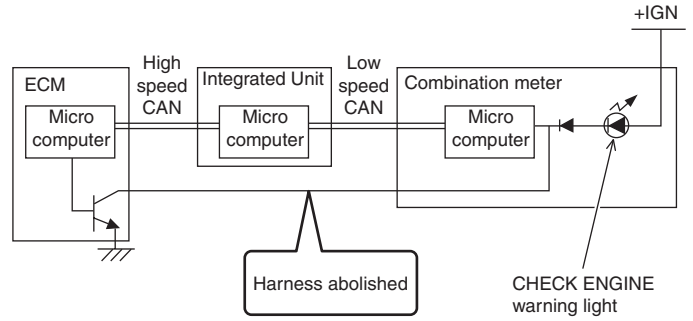
	Existing model	New model
Outline	<ul style="list-style-type: none"> <li>• The ECM and meter are connected via hard wires.</li> <li>• The CHECK ENGINE warning light inside the meter is driven according to the signal from the ECM.</li> </ul>	The CHECK ENGINE warning light inside the meter is now connected through the CAN.

# Instrumentation/Driver Info

## Details of Circuits



Existing model



New model

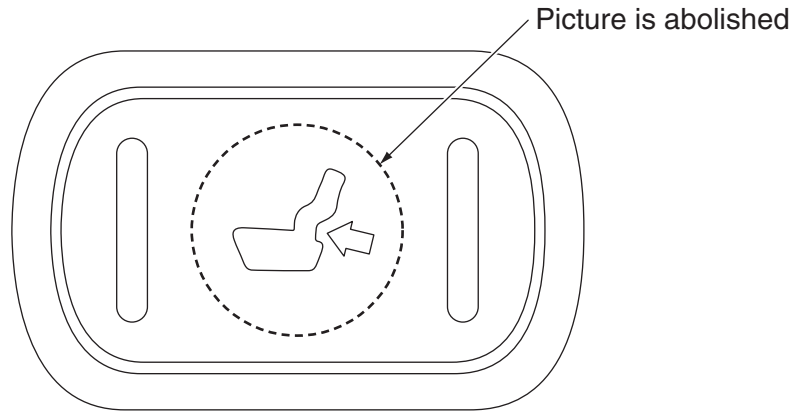
ID100418



## 4-6 Seat

### A: FRONT SEAT

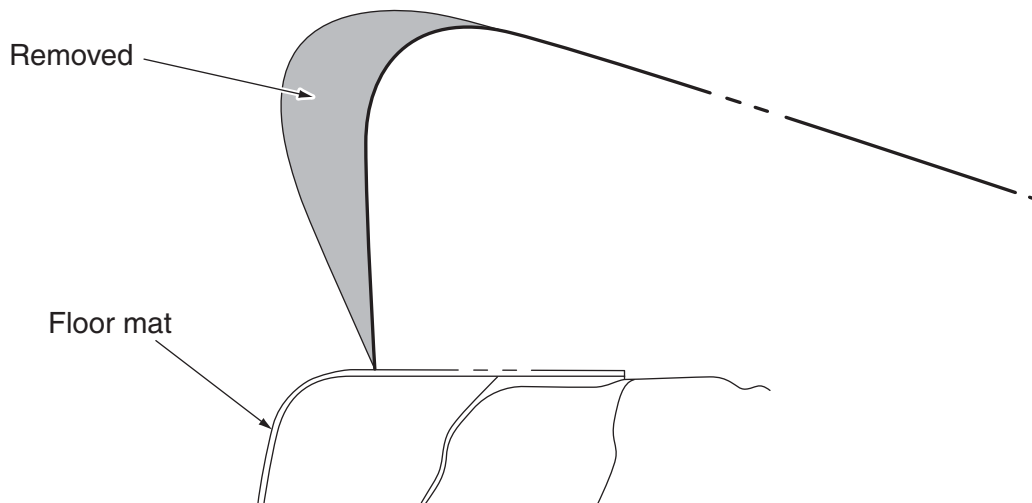
The picture on the lumbar switch assembly has been abolished.



SE-01272

### B: REAR SEAT (SEDAN MODEL)

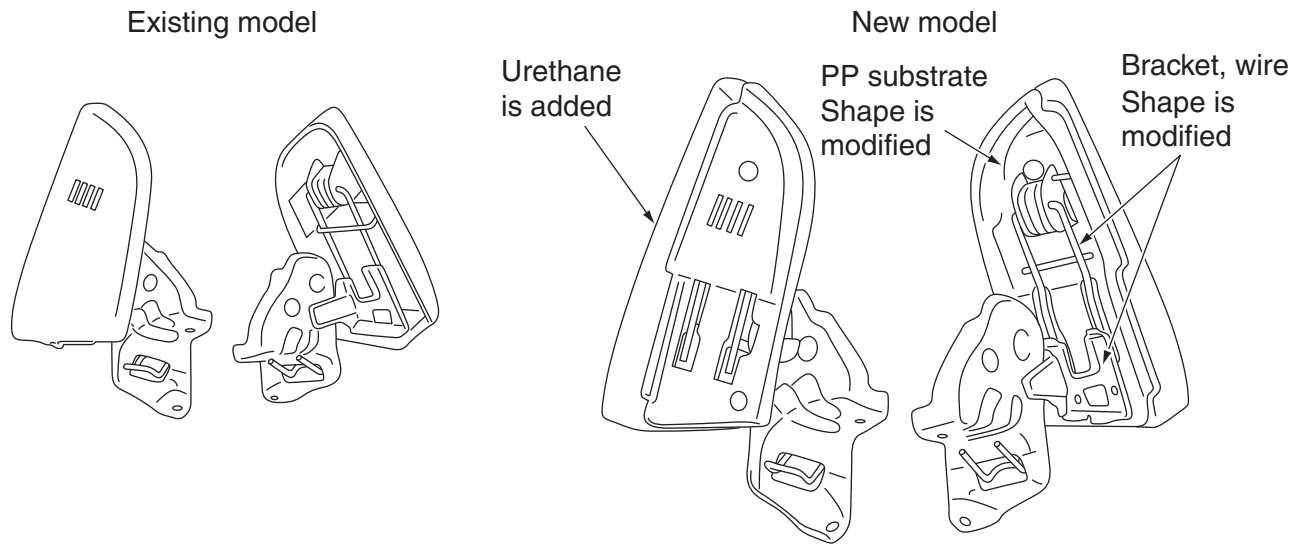
To improve passenger protection performance, the form of the seat cushion has been modified.



SE-01270

# Seat

Also, the structure of the back rest side pads has been modified as follows.



SE-01271

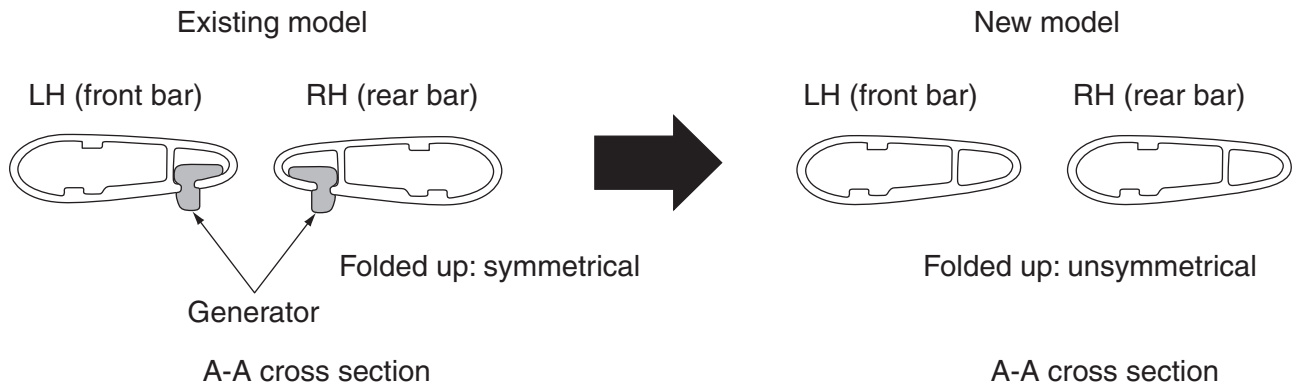
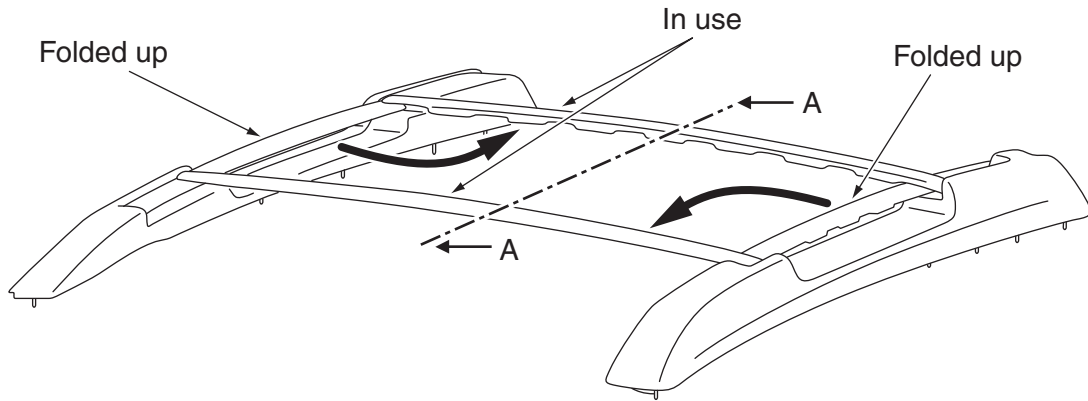
# Body Exterior

## 4-7 Body Exterior

### A: ROOF RAIL

The cross bar generators have been abolished to improve productivity.

This resulted in asymmetry cross section of the cross bars when they are folded up.

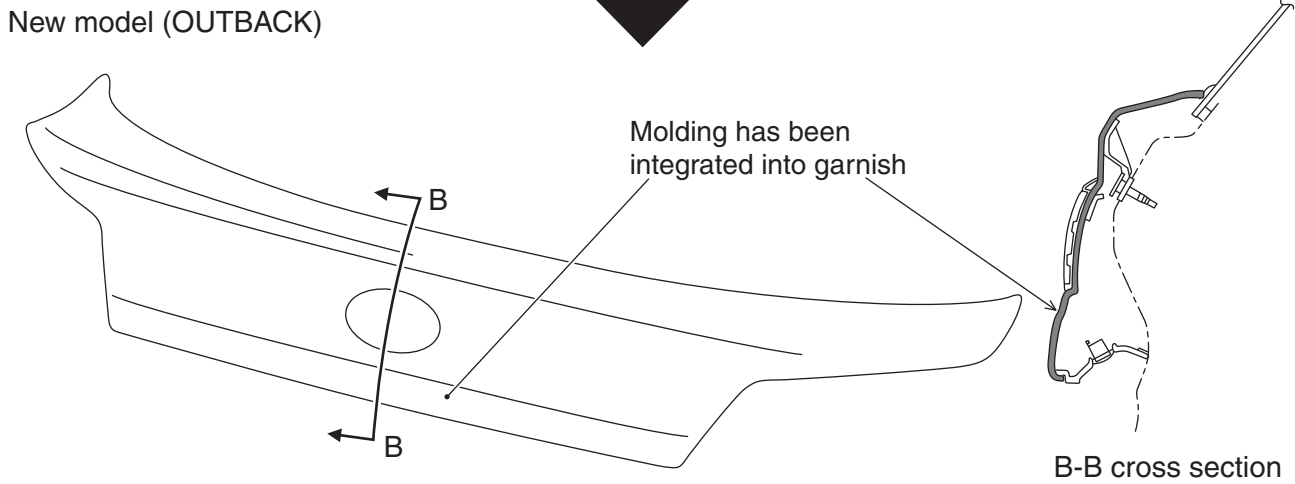
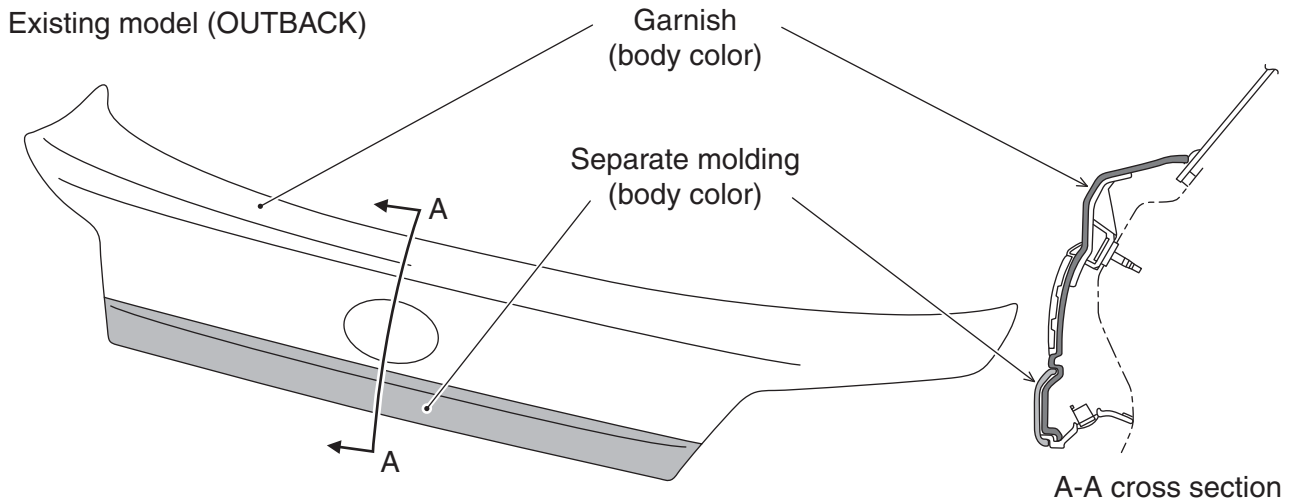


EI-03137

# Body Exterior

## B: REAR GATE GARNISH

To improve productivity, the existing separate molding has been integrated into the garnish.



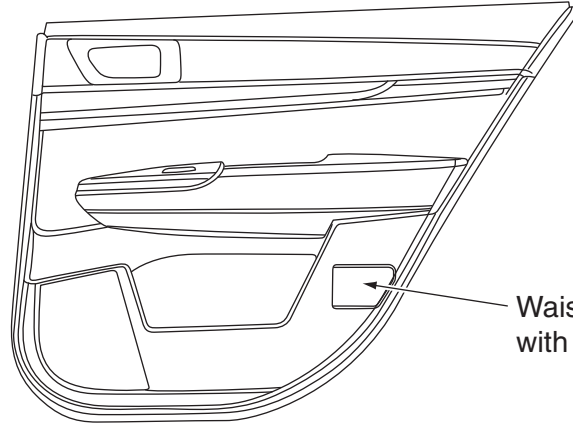
EI-03136

# Body Interior

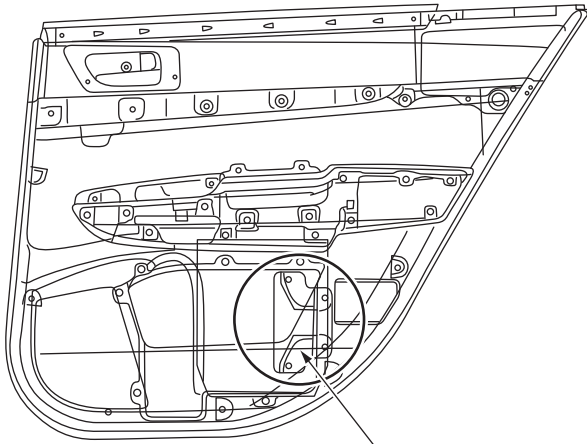
## 4-8 Body Interior

### A: DOOR TRIM

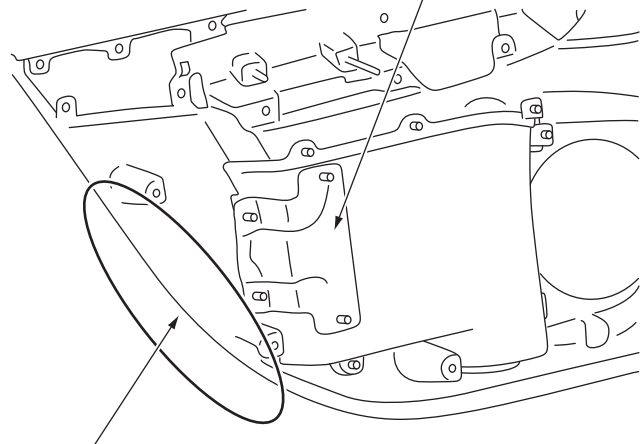
To improve passenger protection performance, the structure of the rear door trim has been modified.



Waist pad is changed to PE with expansion ratio of 60 times



Reinforcing bracket is added



Reinforcing bracket is added

Reduction of rigidity at rear edge (thinner wall)

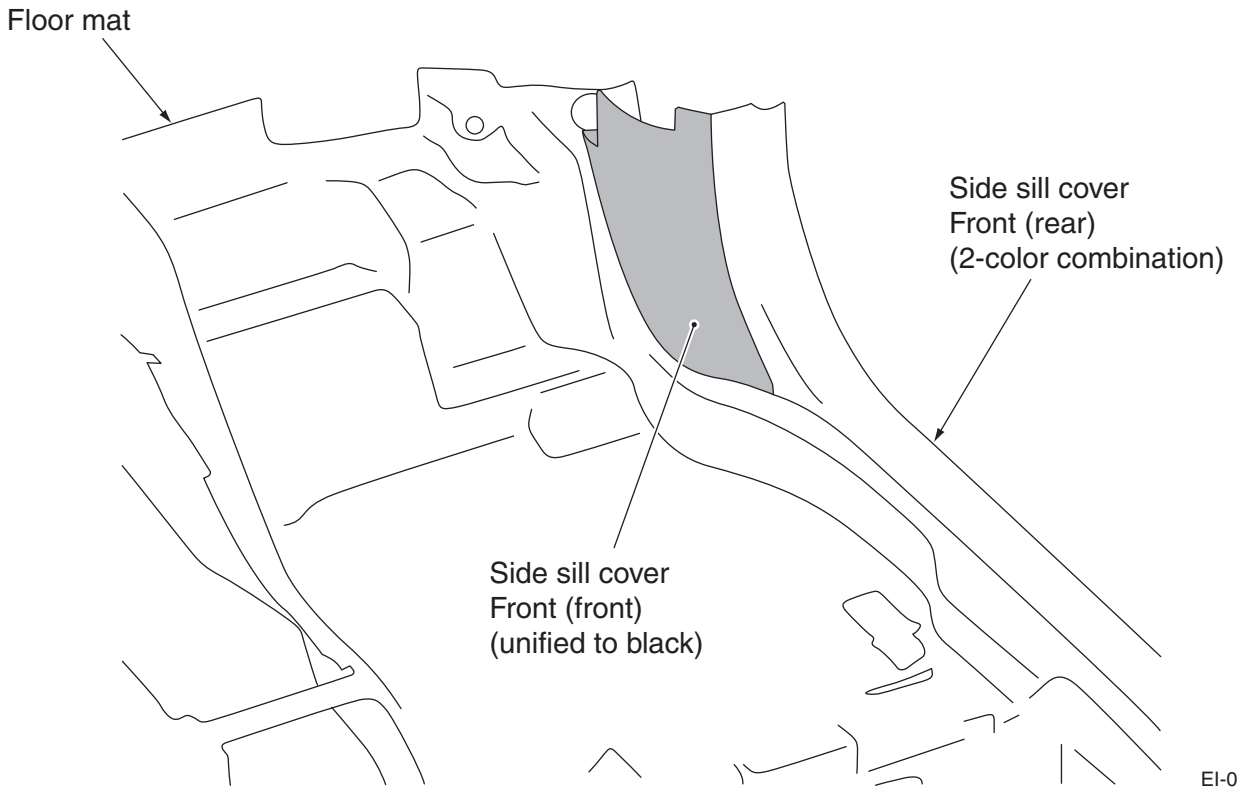
Back side view

EI-03138

# Body Interior

## B: SIDE SILL COVER

To increase productivity, the two color combination (ivory and black) of the front side sill cover (front) has been integrated to black.



## Body Integrated Unit

### 4-9 Body Integrated Unit

Due to change in resistance value of the fuel level sensor, the input values displayed in the SSM will change as shown in the table below.

Existing model		New model	
Display name	Display range	Display name	Display range
Fuel level resistance	0 — 102 $\Omega$	Fuel level resistance input value	0 — 500 $\Omega$
Fuel level resistance 2	0 — 100 $\Omega$	Fuel level resistance output value	0 — 102.3 $\Omega$

