

**EXTERIOR APPEARANCE**

01MIN01Y



01MIN02Y

**MODEL CODE**

**ACA33 L - A N P X K A**

**1****2****3****4****5****6****7****8**

<b>1</b>	<b>BASIC MODEL CODE</b>		
	CODE	DRIVE TYPE	ENGINE
	ACA33	4WD	2AZ-FE
	ACA38	2WD	
	GSA33	4WD	2GR-FE
	GSA38	2WD	

<b>2</b>	<b>STEERING WHEEL POSITION</b>
	L: Left-hand Drive

<b>3</b>	<b>MODEL NAME</b>
	A: RAV4

<b>4</b>	<b>BODY TYPE</b>
	N: 5-door Wagon

<b>5</b>	<b>GEAR SHIFT TYPE</b>
	P: 4-speed Automatic, Floor A: 5-speed Automatic, Floor

<b>6</b>	<b>GRADE</b>
	X: — (Standard) G: Limited S: Sport

<b>7</b>	<b>ENGINE SPECIFICATION</b>
	K: DOHC and SFI

<b>8</b>	<b>DESTINATION</b>
	A: U.S.A. K: Canada

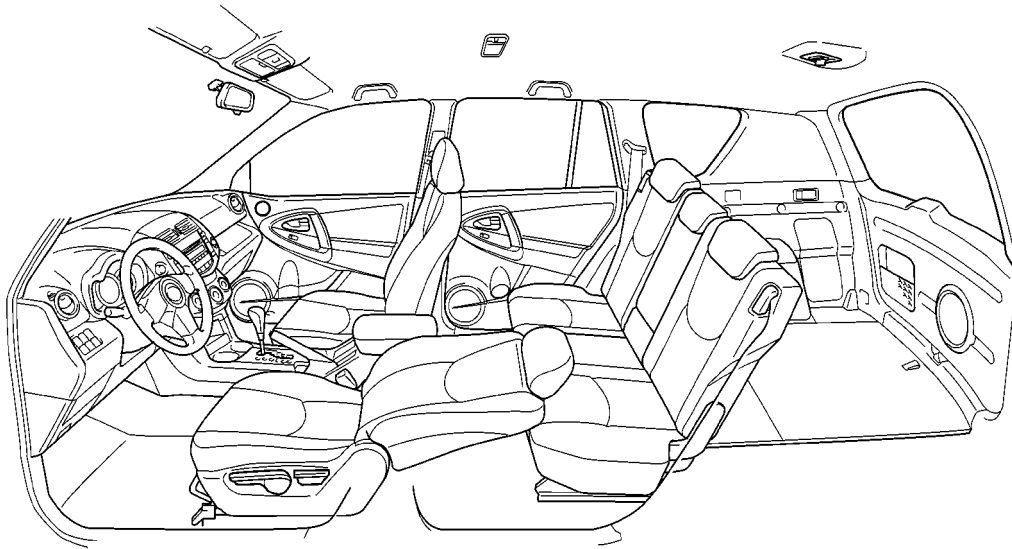
**MODEL LINE-UP**

DESTI- NATION	ENGINE	BODY TYPE	GRADE	TRANSAXLE			
				4-speed Automatic		5-speed Automatic	
				2WD	4WD	2WD	4WD
				U241E	U140F	U151E	U151F
U. S. A.	2AZ-FE	5-door Wagon	—	ACA38L- ANPXKA	ACA33L- ANPXKA	—	—
			Limited	ACA38L- ANPGKA	ACA33L- ANPGKA	—	—
			Sport	ACA38L- ANPSKA	ACA33L- ANPSKA	—	—
	2GR-FE		—	—	—	GSA38L- ANAXKA	GSA33L- ANAXKA
			Limited	—	—	GSA38L- ANAGKA	GSA33L- ANAGKA
			Sport	—	—	GSA38L- ANASKA	GSA33L- ANASKA
Canada	2AZ-FE		—	—	ACA33L- ANPXKK	—	—
			Limited	—	ACA33L- ANPGKK	—	—
			Sport	—	ACA33L- ANPSKK	—	—
	2GR-FE		—	—	—	—	GSA33L- ANAXKK
			Limited	—	—	—	GSA33L- ANAGKK
			Sport	—	—	—	GSA33L- ANASKK

# **INTERIOR**

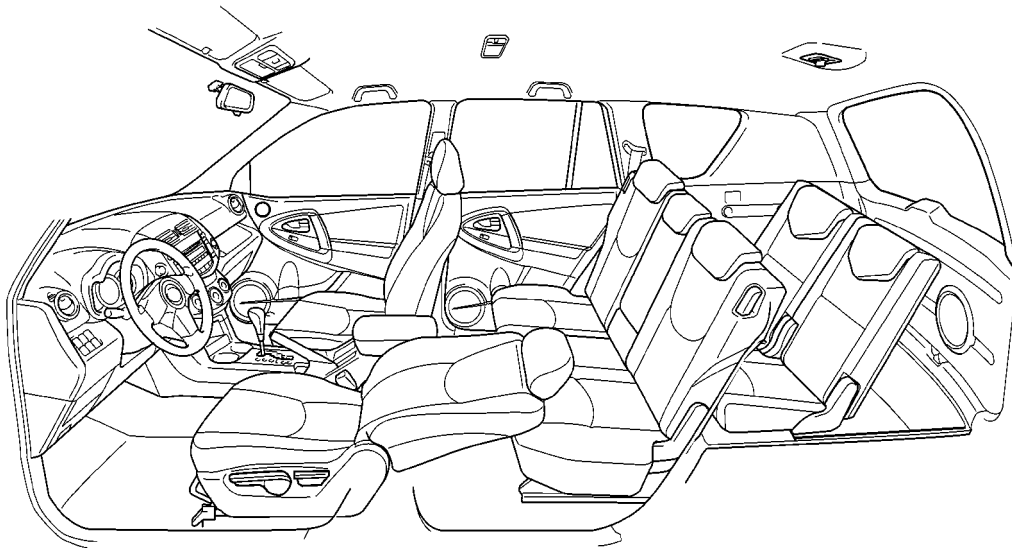
## **Interior Design**

- The vehicle interior uses roundish, slim-shaped seats to make the interior more spacious, realizing an expansive and roomy space.
- A unique, boomerang-shaped ornament is placed on each door trim to express a sporty image.



01MMO10Y

**Standard Model**

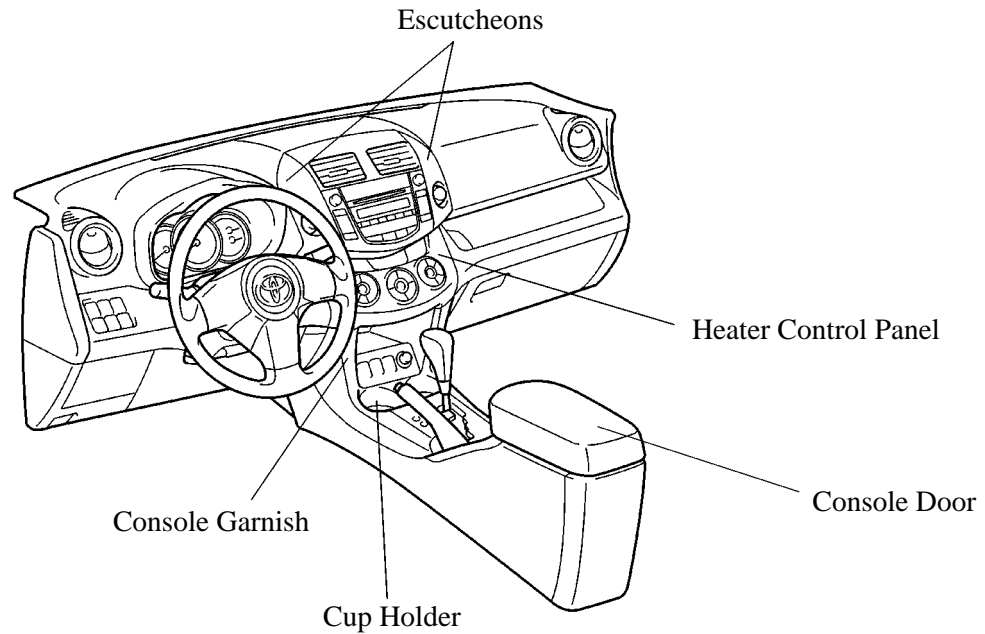


01MMO11Y

**With Rear No. 2 Seat Model**

### **Instrument Panel**

- The instrument panel blends an arrangement that emphasizes a horizontal spaciousness with a vertical flow along its center area, in order to portray a sporty image.
- Metallic paint and hairline grain have been applied to the escutcheon, console garnish, and heater control panel in order to express a premium image.
- Shut-fin type side registers are used. Their surface becomes flush when they are closed, thus achieving a simple and streamlined design.
- An illumination is provided for the cup holder in the center console.
- The console door in the center console is covered with the urethane form in order to achieve a soft touch.

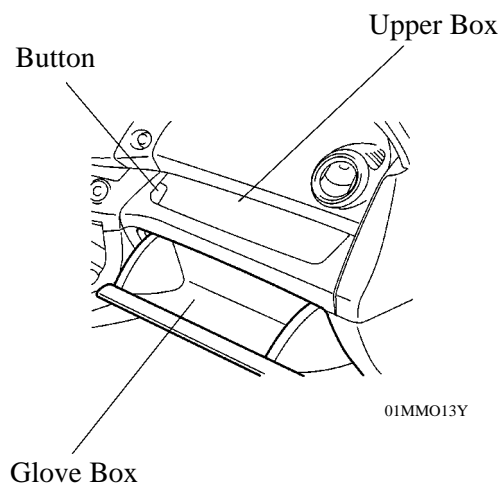


01MMO12Y

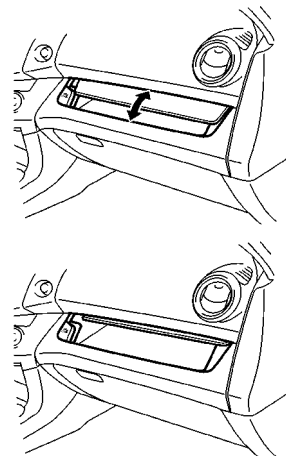
### **Storage Space**

#### **Instrument Panel**

- A glove box that uses an air damper is provided on the front passenger side.
- An upper box, which has a door that can be opened and closed by pushing a button located above the glove box, is provided.

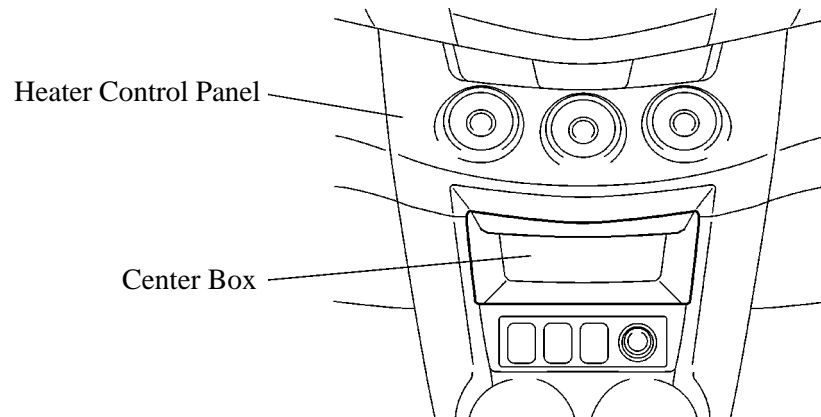


01MMO13Y



01NMO19Y

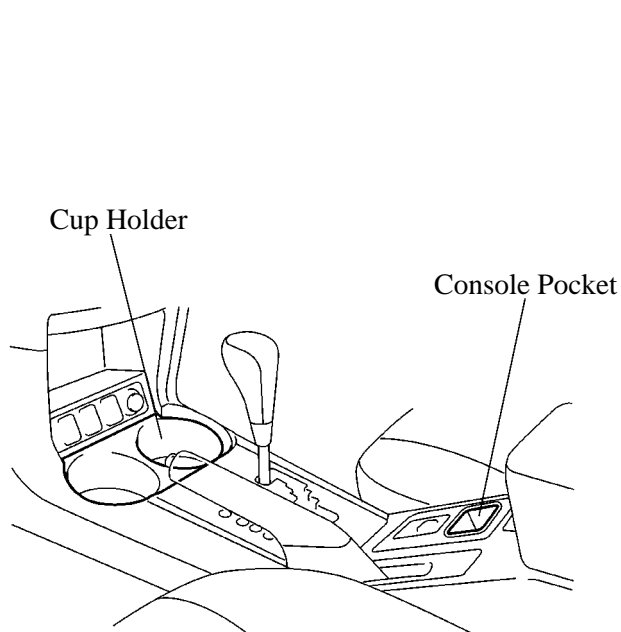
- A center box is provided below the heater control panel.



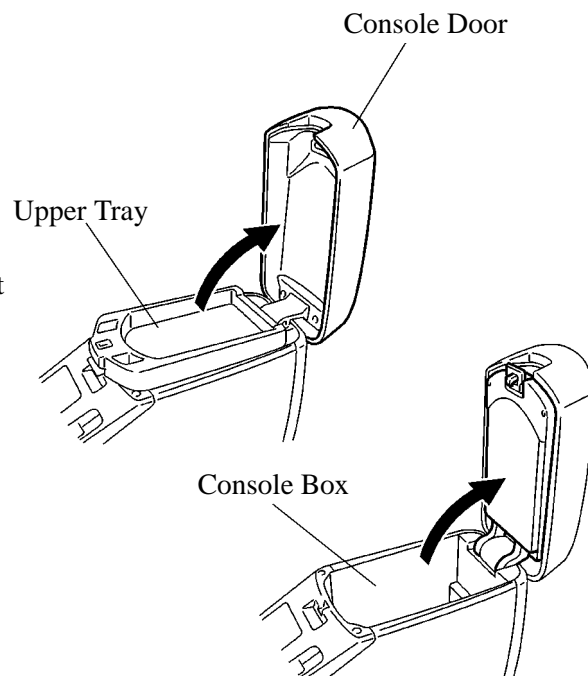
01NMO20Y

### **Center Console**

- A console pocket, cup holder and console box are provided in the center console.
- The console has dual doors to provide storage space.



01NMO21Y

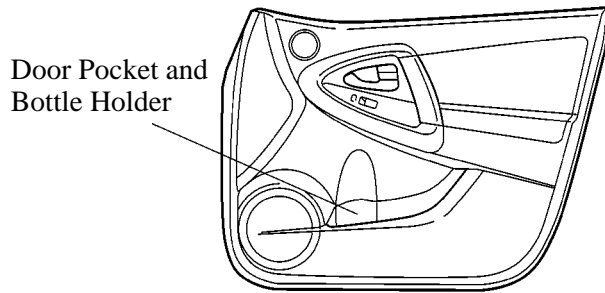
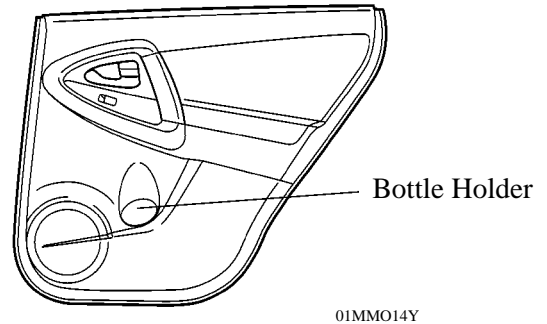


01NMO22Y

### **Console Box**

**Door Trim**

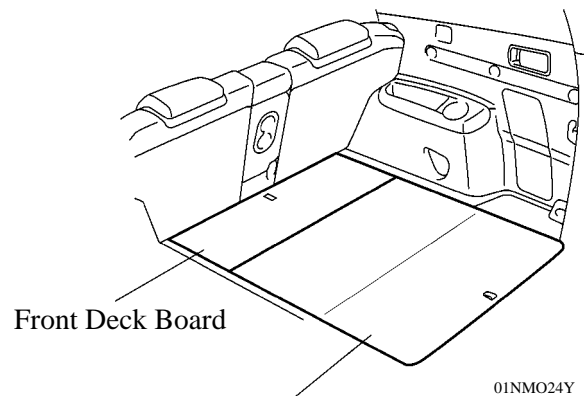
- A door pocket and bottle holder is provided in the front door trim.
- A bottle holder is provided in the rear door trim.

**Front Door Trim**

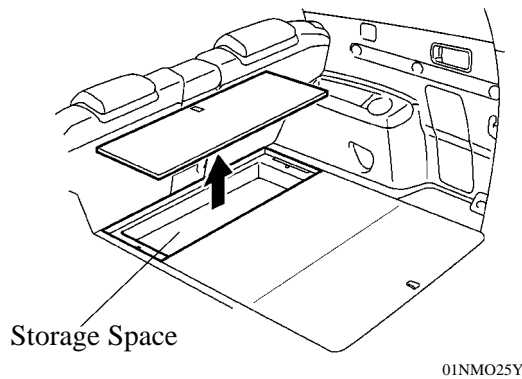
01MMO14Y

**Rear Door Trim****Luggage Space**

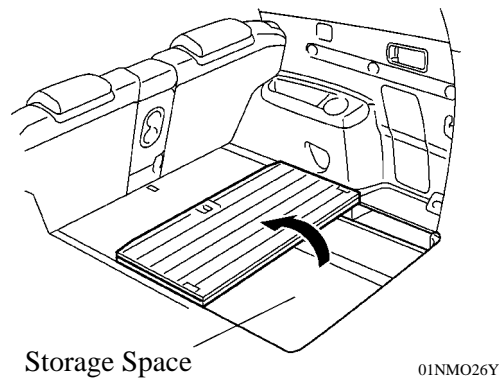
- Front and rear deck boards covered with water-repellent skin have been provided on the models without the rear No. 2 seat.
- The front deck board is a removable type, and a storage space is provided below it.
- The rear deck board is a type that folds in two, for ease of operation and the in-and-out access of cargo under the floor.



01NMO24Y

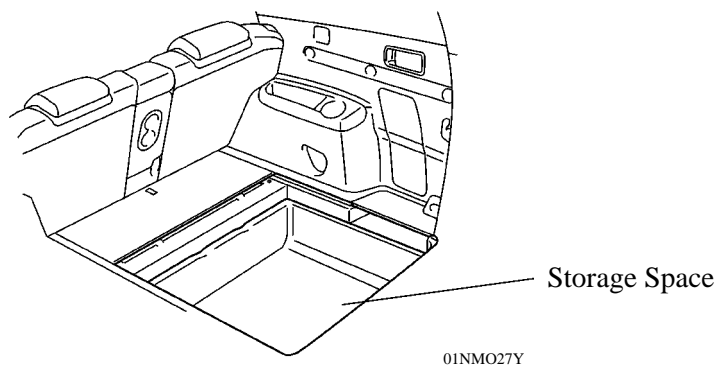
**Rear Deck Board****► Deck Board Arrangement ◀**

01NMO25Y

**Storage Below Front Deck Board**

01NMO26Y

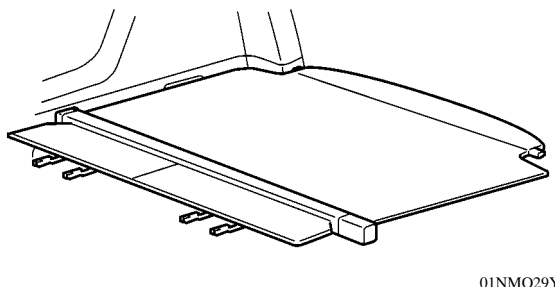
**Semi-open Rear Deck Board**



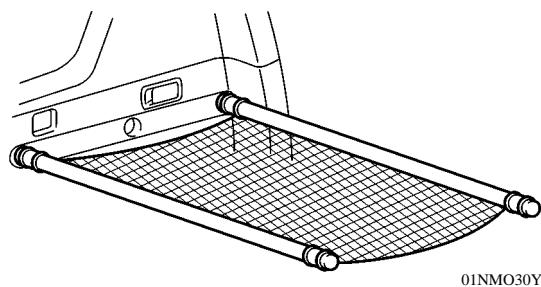
**Fully Open Rear Deck Board**

### **Tonneau Cover and Utility Pipes with Net**

A tonneau cover to block the view of the cargo area from the outside of the vehicle, and utility pipes with a net, which can be arranged in various ways, are standard equipment on the Limited grade. They are available as optional equipment on the Standard and Sport grades.

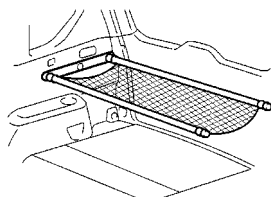


**Tonneau Cover**

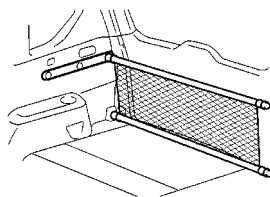


**Utility Pipes with Net**

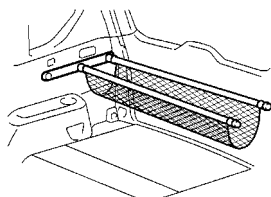
### **► Utility Pipes with Net Arrangement ◀**



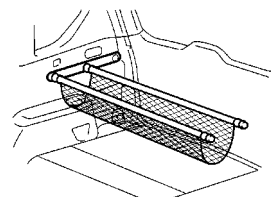
**Partition**



**Prevent items from  
falling out**



**Hammock A**

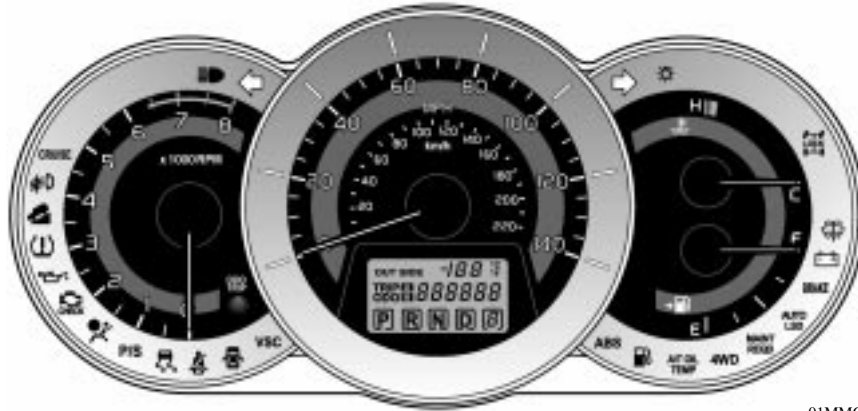


**Hammock B**



## **Combination Meter**

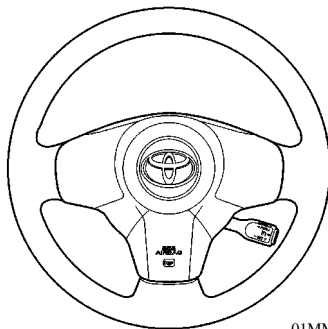
An analog triple-dial type Optitron meter is provided in the combination meter as standard equipment on all models.



01MMO15Y

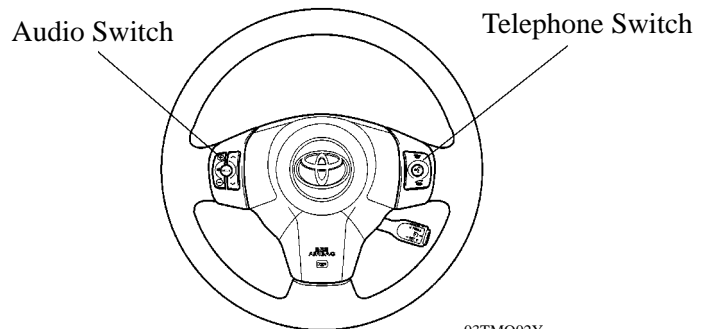
## **Steering Wheel**

- A 3-spoke urethane steering wheel is provided as standard equipment on the Standard and Sport grades.
- A 3-spoke urethane steering wheel with steering pad switch (audio and telephone) is available as optional equipment on the Sport grade.
- A 3-spoke leather steering wheel with steering pad switch (audio) is provided as standard equipment on the Limited grade.
- A 3-spoke leather steering wheel with steering pad switch (audio and telephone) is available as optional equipment on the Limited grade.



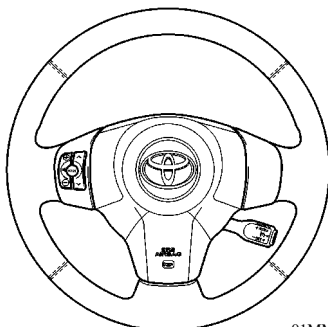
01MMO45Y

**3-spoke Urethane Type**



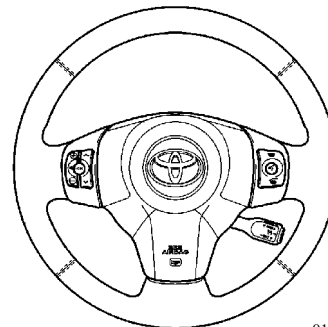
03TMO02Y

**3-spoke Urethane Type with  
Audio and Telephone Switch**



01MMO16Y

**3-spoke Leather Type with  
Audio Switch**

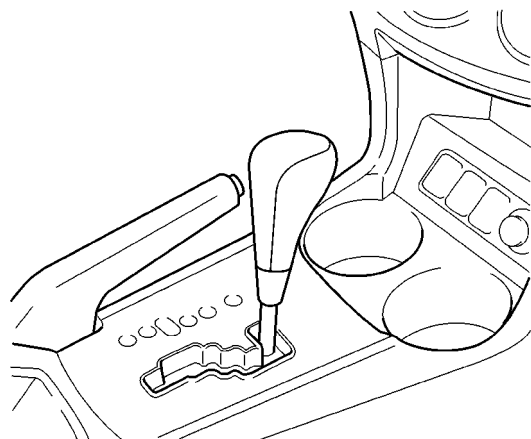


01NMO37Y

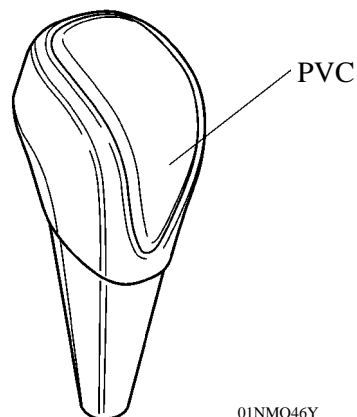
**3-spoke Leather Type with  
Audio and Telephone Switch**

## **Shift Lever**

- A PVC (Polyvinyl Chloride) shift lever knob is provided as standard equipment on the Standard and Sport grades.
- A leather shift lever knob is provided as standard equipment on the Limited grade.
- A gate type shift lever is used for luxuriousness.

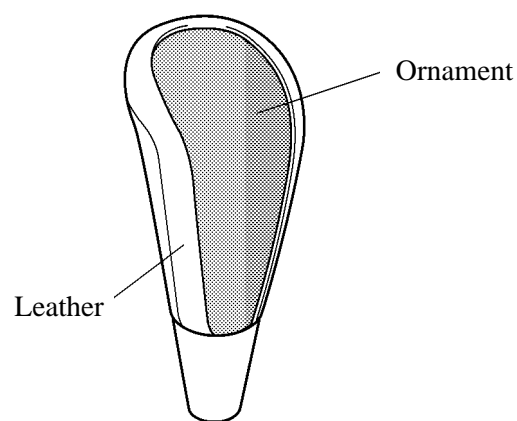


01NMO44Y



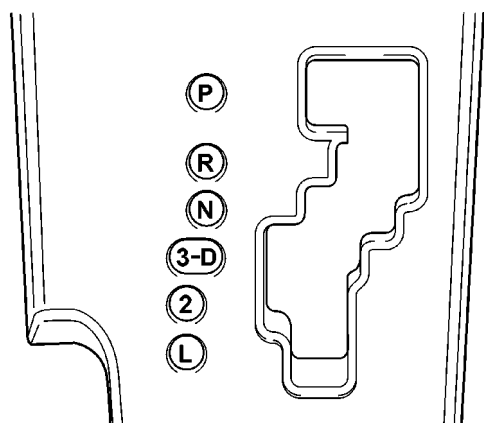
01NMO46Y

**For Standard and Sport Grades**



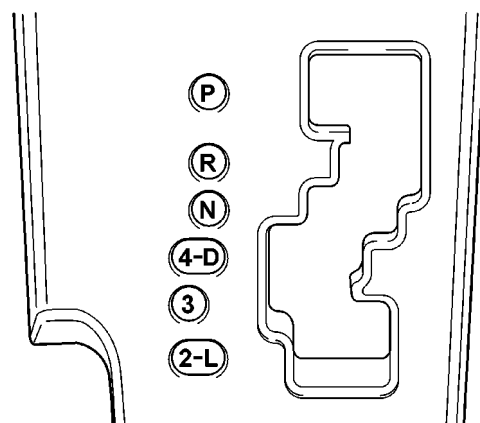
01NMO47Y

**For Limited Grade**



01NMO45Y

**For 4-speed Automatic Transaxle**



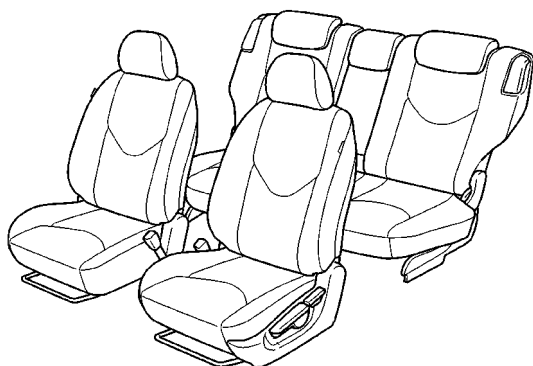
01MMO17Y

**For 5-speed Automatic Transaxle**

## Seat

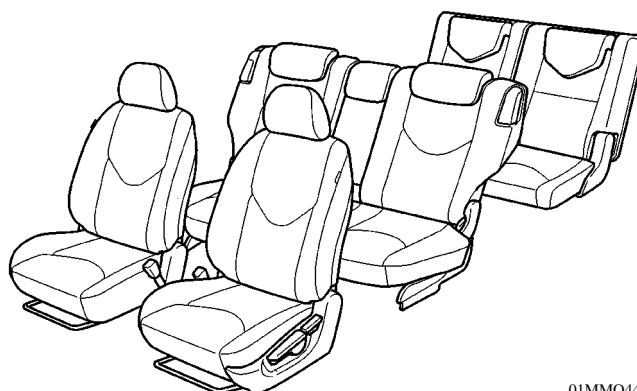
- Manual type front seats and 60/40 split retractable type rear seats are provided as standard equipment on the Standard and Sport grades.
- Power type front seats are provided as standard equipment on the Limited grade.
- A rear No. 2 seat is available as optional equipment on the Standard and Limited grades.
- Fabric seat covers are provided as standard equipment on all the models, and leather seat covers are available as optional equipment on the Limited grade\*.

\*: Except Models with Rear No. 2 Seat



01NMO48Y

**Standard Seat**



01MMO44Y

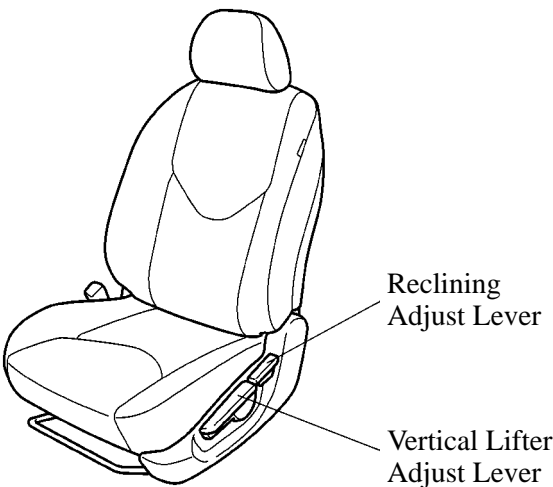
**With Rear No. 2 Seat**

## Front Seat

- A 6-way manual seat is provided for the driver seat, and a 4-way manual seat is provided for the front passenger seat as standard equipment on the Standard and Sport grades.
- An 8-way power seat is provided for the driver seat as standard equipment on the Limited grade.
- On both the driver and front passenger seats, seat back pockets are provided as standard equipment on the Standard grade, and net type seat back pockets are provided as standard equipment on the Limited and Sport grades.

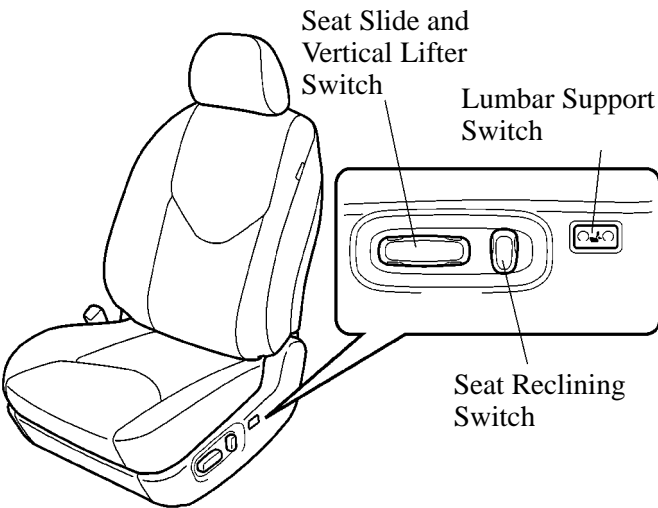
Model Item	'07 Model		'05 Model	
	Driver Seat	Front Passenger Seat	Driver Seat	Front Passenger Seat
Seat Slide	240 mm (9.4 in.) 15 mm (0.6 in.) x 16 Step		240 mm (9.4 in.) 15 mm (0.6 in.) x 16 Step	
Seat Reclining	82■(2■x 41 Step), 78■		76■(2■x 38 Step)	
Vertical Lifter	45 mm (1.8 in.)	—	45 mm (1.8 in.)	—
Front Vertical*	10■	—	—	—
Front Tilt*	26 mm (1.0 in.)	—	—	—

\*: Power Seat Only



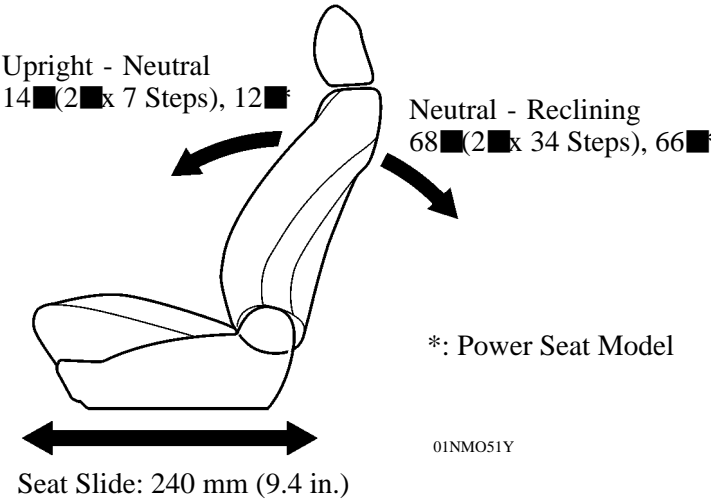
01NMO49Y

Manual Seat



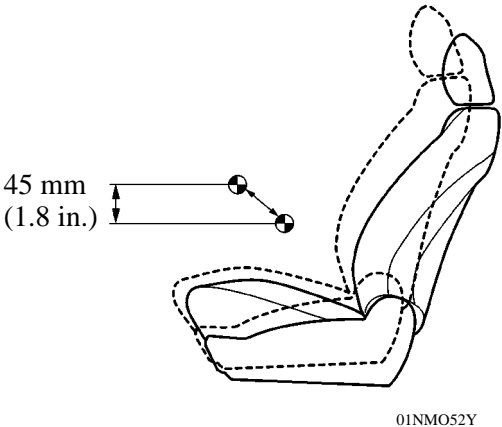
01NMO50Y

Power Seat



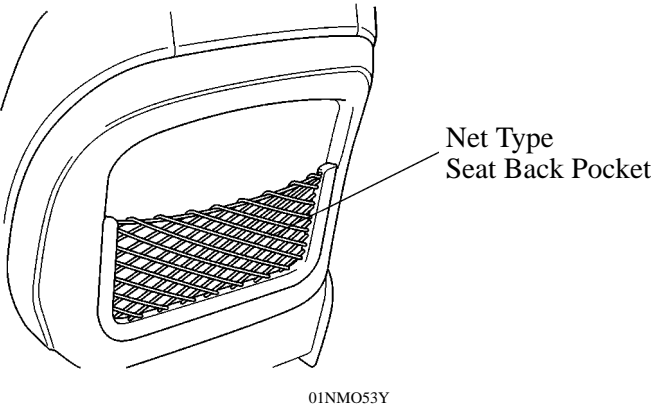
01NMO51Y

Seat Slide and Reclining



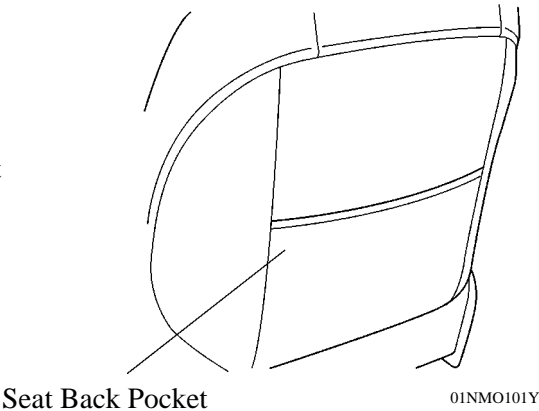
01NMO52Y

Vertical Lifter



01NMO53Y

For Limited and Sport Grades



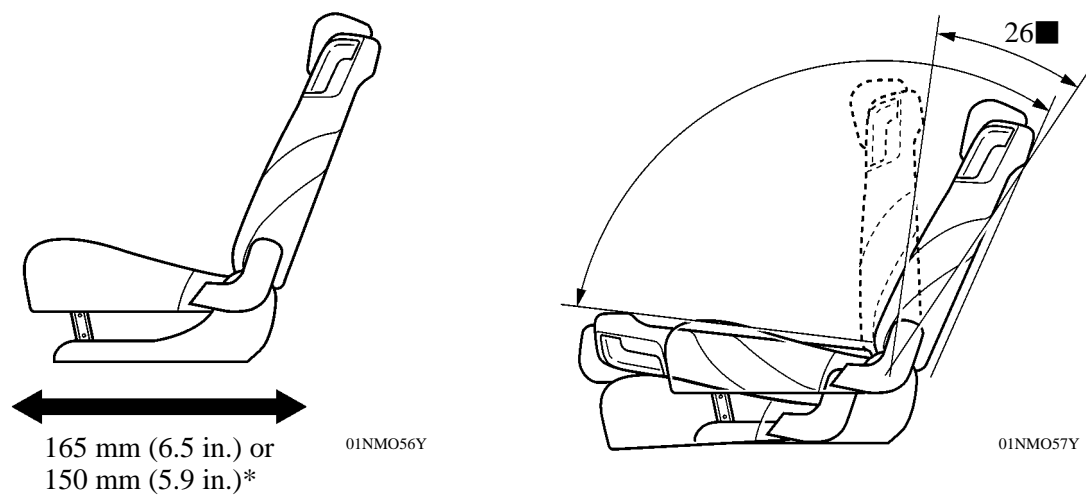
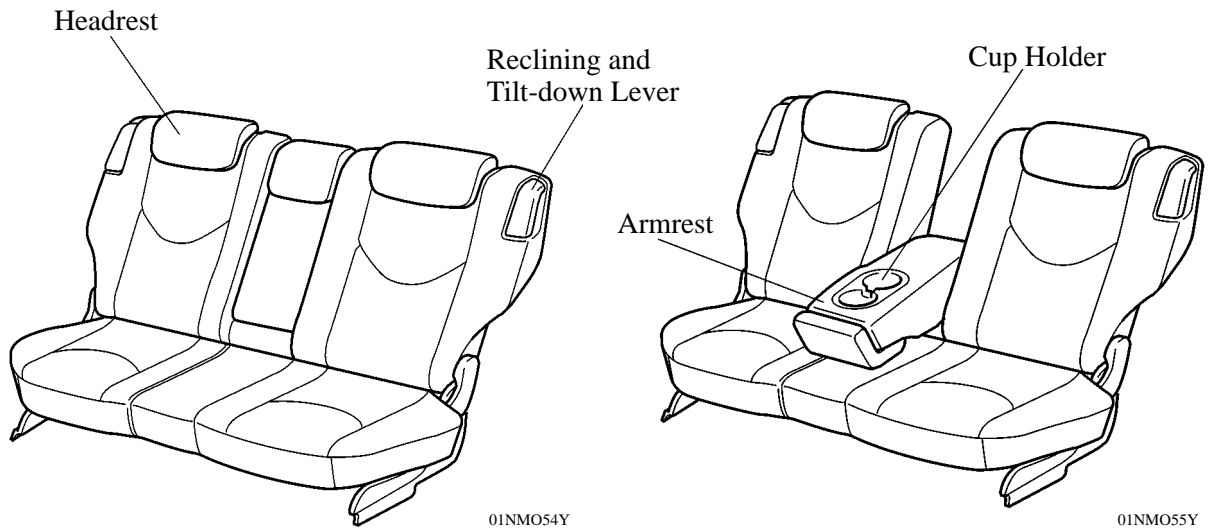
01NMO101Y

For Standard Grade

## Rear Seat

### Rear No. 1 Seat

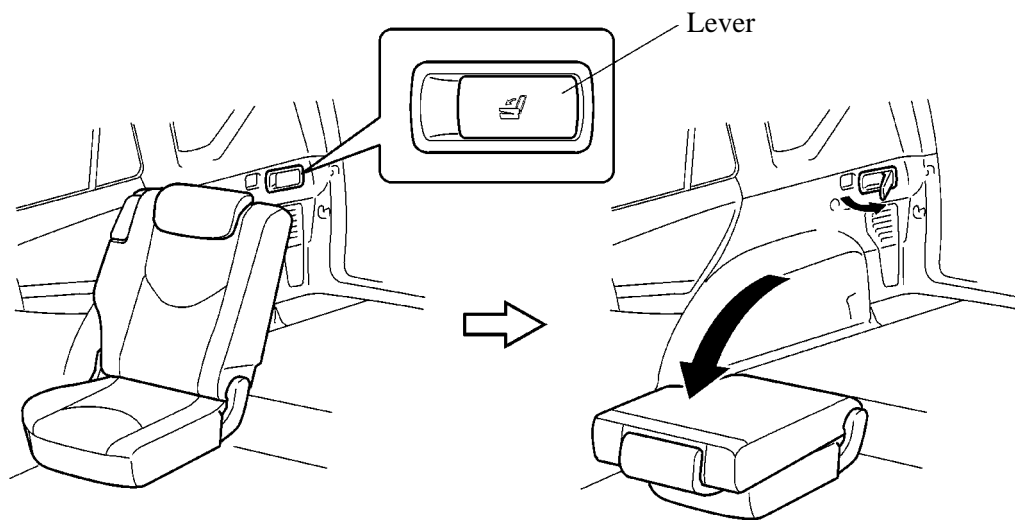
- A 60/40 split retractable type rear seat with tilt-down function is provided as standard equipment.
- An L-shaped headrest is used to achieve excellent rearward visibility.
- The seat slide movement is 165 mm (6.5 in.), and seat reclining angle is 26°  
On the models with a rear No. 2 seat, the amount of seat slide is 150 mm (5.9 in.).
- An armrest with a cup holder is provided for the center seat.
- A remote operation mechanism is used to enable the user to operate a lever in the luggage compartment in order to tilt down the rear seat.
- The models with a rear No. 2 seat have been provided with a walk-in function.



**Seat Slide**

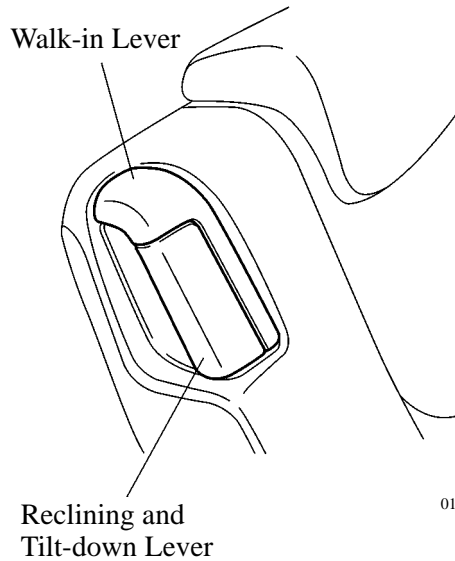
**Seat Reclining and Tilt-down**

\*: Models with Rear No. 2 Seat

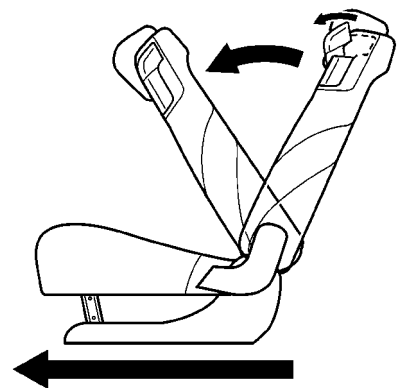


01NMO58Y

### Remote Operation Mechanism



01MMO18Y

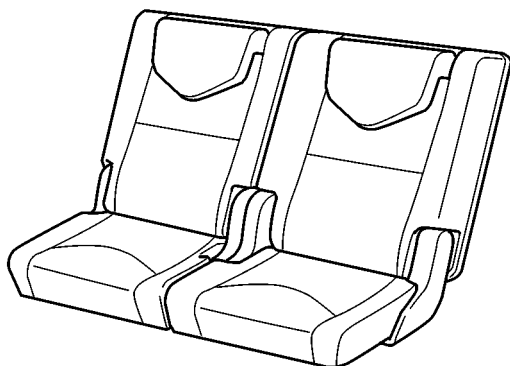


01MMO19Y

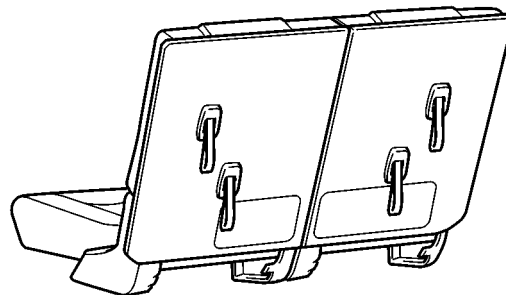
### Walk-in Function

**Rear No. 2 Seat**

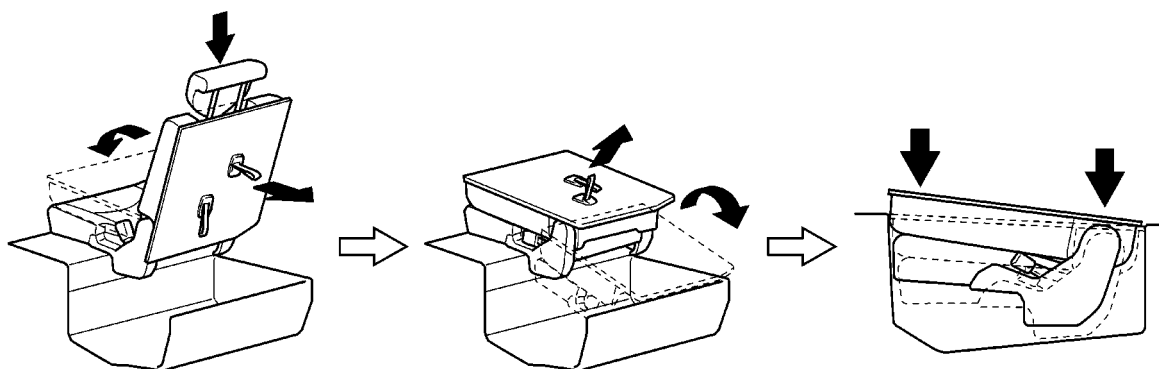
- A storable rear No. 2 seat is available as optional equipment on the Standard and Limited grades.
- An L-shaped headrest is used to achieve excellent rearward visibility.



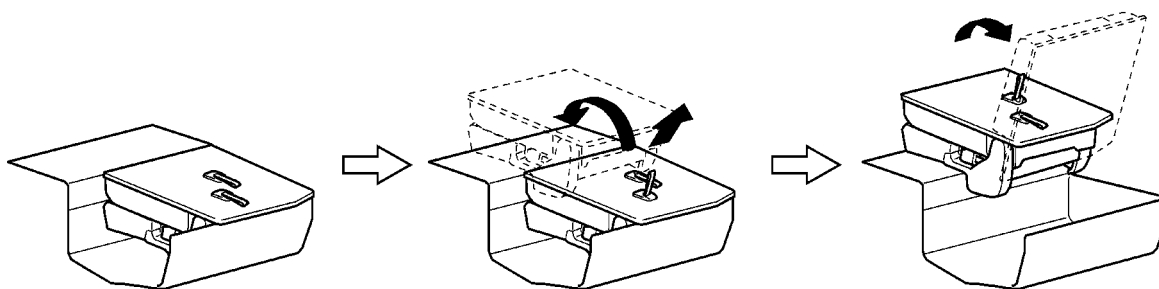
01MMO20Y



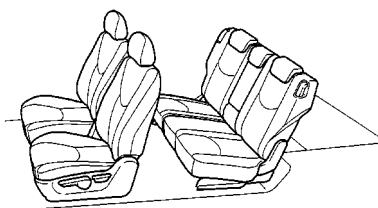
01MMO21Y

**1) Storage Operation**

01MMO22Y

**2) Set Up Operation**

01MMO23Y

**Seat Arrangement****Without Rear No. 2 Seat**

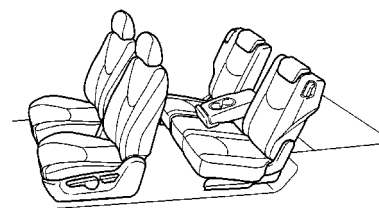
01NMO59Y

Default



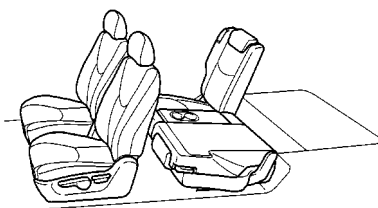
01NMO60Y

Front Seat: Full Flat



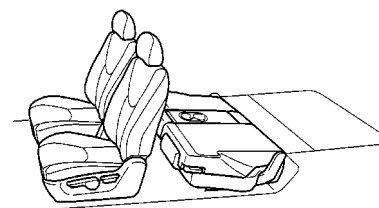
01NMO61Y

Rear Center Seat: Retracted



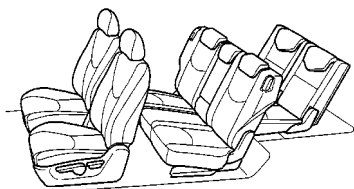
01NMO62Y

Rear Seat: One Side Tilt-down



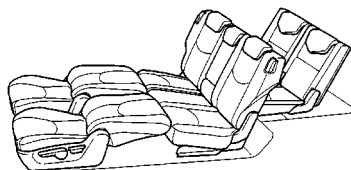
01NMO63Y

Rear Seat: Tilt-down

**With Rear No. 2 Seat**

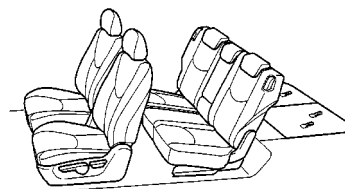
01MMO24Y

Default



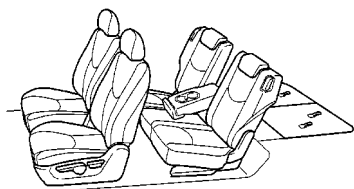
01MMO25Y

Front Seat: Full Flat



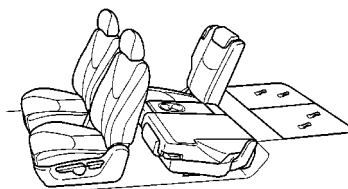
01MMO26Y

Rear No. 2 Seat: Stored



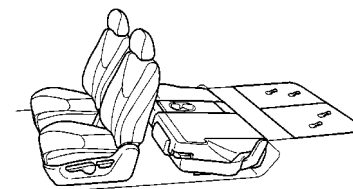
01MMO27Y

Rear No. 1 Center Seat: Retracted



01MMO28Y

Rear No. 1 Seat: One Side Tilt-down



01MMO29Y

Rear No. 1 Seat: Tilt-down



## EQUIPMENT

### Bluetooth® Hands-free System

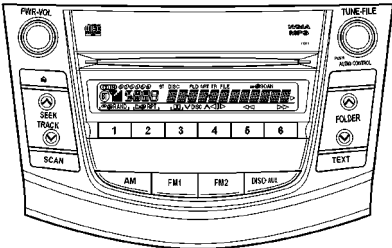
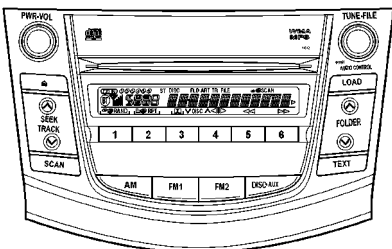
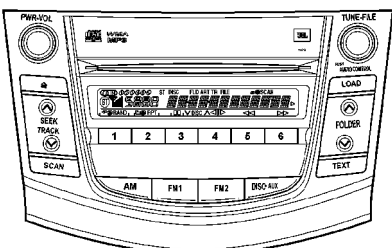
- A Bluetooth® hands-free system is available as optional equipment on the Limited and Sport grades.
- Bluetooth® is a high-speed wireless data communication system that uses the 2.4 GHz frequency band prescribed by the Bluetooth SIG (Special Interest Group), with a communication speed of 1 Mbps. By simply bringing a cellular phone that has been pre-registered on the audio head unit into the vehicle, the user can talk hands-free. Thus, it is no longer necessary to connect the telephone to a hands-free connection device as in the past.
- The Bluetooth® hands-free system, which enables the user to make and receive call and talk hands-free by operating the switches on the steering pad.
- The Bluetooth® hands-free system consists of an audio head unit, a microphone in the overhead console, and the switches on the steering pad.

### Audio System

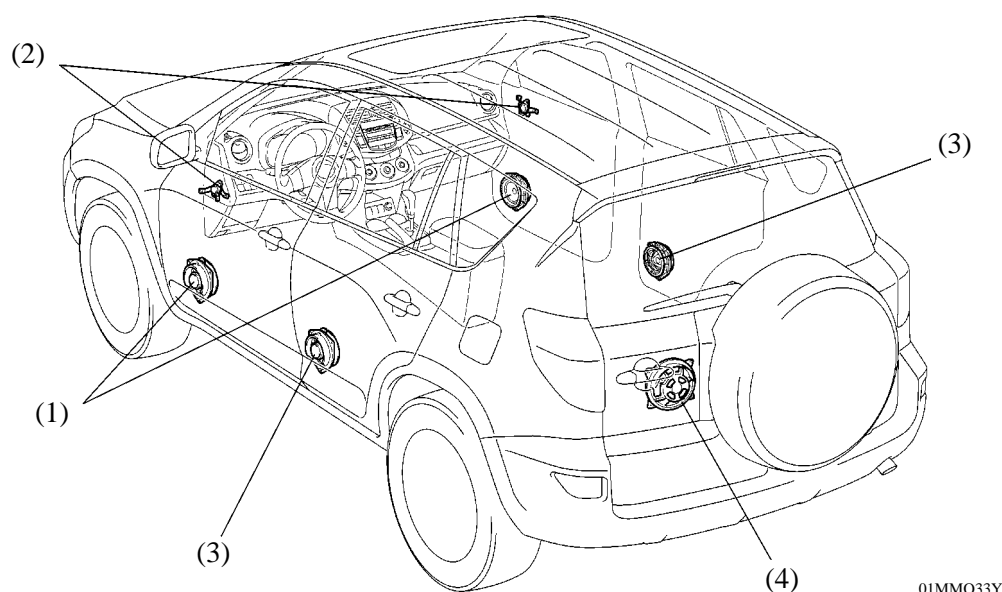
- Three types of audio systems are provided, as described below.
- The CD player has a CD-TEXT display function that displays the text information when playing CDs that contain CD text.
- The CD player on the all models has MP3 (MPEG Audio Layer-3) and WMA (Windows Media Audio) format playback functions.
- JBL Premium Sound System, consisting of their stereo amplifier and speaker system, is available as optional equipment on the Limited and Sport grades.

#### ► Head Unit Specifications ◀

■: Standard OP: Option —: None

Design	Specification	Provision		
		Standard	Limited	Sport
 <p>01MMO30Y</p>	<ul style="list-style-type: none"> <li>• AM/FM Tuner</li> <li>• CD Player</li> <li>• CD-TEXT Display Function</li> <li>• MP3 and WMA Playback Function</li> <li>• Compatible with AUX Adapter</li> <li>• 6-speaker System</li> <li>• Manufacturer: Fujitsu TEN</li> </ul>	■	—	■
 <p>01MMO31Y</p>	<ul style="list-style-type: none"> <li>• AM/FM Tuner</li> <li>• In-dash-6-CD Changer</li> <li>• CD-TEXT Display Function</li> <li>• MP3 and WMA Playback Function</li> <li>• Compatible with AUX Adapter</li> <li>• 6-speaker System</li> <li>• Manufacturer: Fujitsu TEN</li> </ul>	OP	■	OP
<b>JBL Premium Sound System</b>				
 <p>01MMO32Y</p>	<ul style="list-style-type: none"> <li>• AM/FM Tuner</li> <li>• In-dash-6-CD Changer</li> <li>• CD-TEXT Display Function</li> <li>• MP3 and WMA Playback Function</li> <li>• Bluetooth® Hands-free System</li> <li>• Compatible with AUX Adapter</li> <li>• JBL Stereo Amplifier</li> <li>• 9-speaker System</li> <li>• Manufacturer: Fujitsu TEN &amp; JBL</li> </ul>	—	OP	OP

### ► Speaker Location ◀



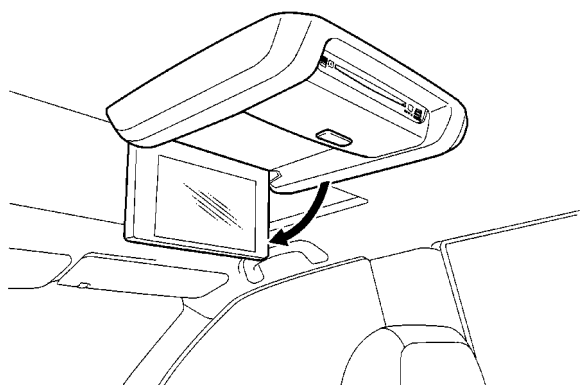
01MMO33Y

### ► Speaker Specification ◀

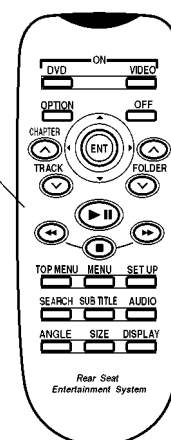
Type			Caliber	Impedance	Input Range
(1)	Front Door	JBL	16.0 cm	2.2 Ω	29 W
		Standard	16.0 cm	4 Ω	20 W
(2)	Tweeter	JBL	6.5 cm	2 Ω	20 W
		Standard	6.5 cm	4 Ω	20 W
(3)	Rear Door	JBL	16.0 cm/2.0 cm	2.6 Ω	20 W
		Standard	16.0 cm	4 Ω	20 W
(4)	Woofer	JBL	20.0 cm	2.0 Ω	50 W

### **RSES (Rear Seat Entertainment System)**

- The RSES with which the rear seat occupants can enjoy a video DVD (Digital Versatile Disc) has been made available as optional equipment on the Limited grade for the 2GR-FE engine model.
- The RSES consists of a 9-inch wide LCD (Liquid Crystal Display), a DVD player that are located under the roof, and a remote controller.
- The RSES is operated by the remote controller.



Remote Controller

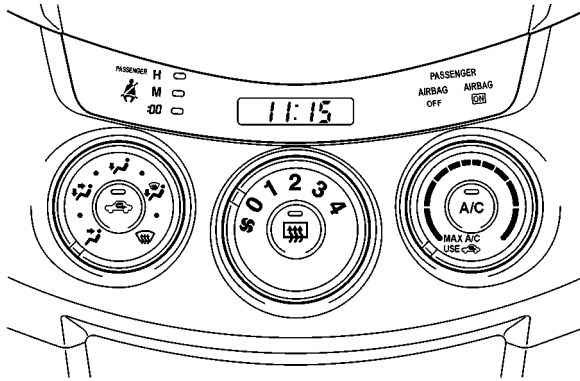


01MMO34Y

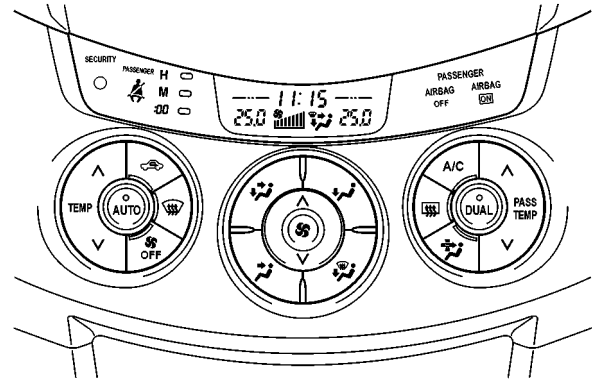
01MMO35Y

## Air Conditioning System

- Manual air conditioning is provided as standard equipment for the Standard and Sport grades.
- An automatic air conditioning that can set the temperature independently for the driver and front passenger areas is provided as standard equipment for the Limited grade.
- The automatic air conditioning is provided with the micro dust and pollen filter control.



01MMO36Y

**Manual A/C Model**

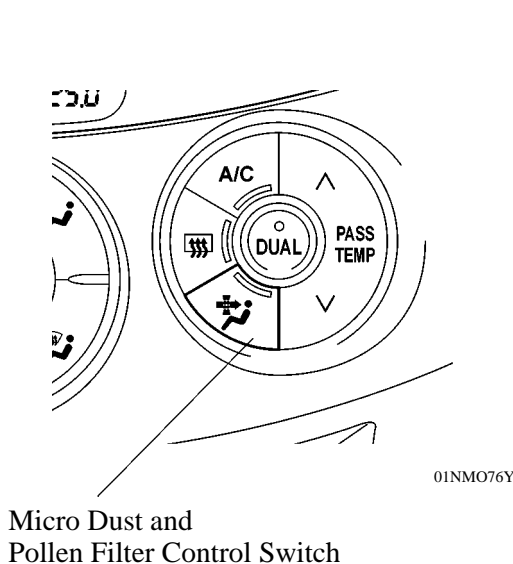
01MMO37Y

**Automatic A/C Model**

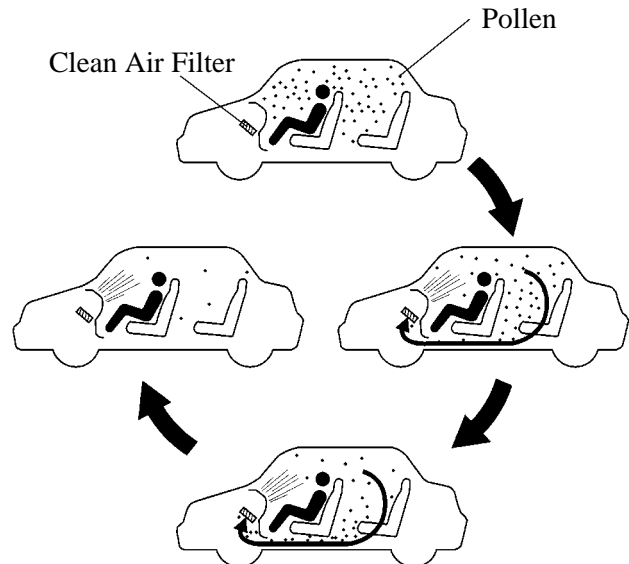
## **Micro Dust and Pollen Filter Control**

- The micro dust and pollen filter control quickly removes pollen from the front seat occupant area with the pressing of the micro dust and pollen filter control switch on the heater control panel, without requiring any complex air conditioning operation.
- When the user pushes the micro dust and pollen filter control switch, the air conditioning operates in the recirculation mode. The clean air that has passed through the clean air filter blows out from the face outlet to the occupant area.

The filtered clean air quickly removes pollen from the occupant area. After that, the air in the cabin recirculates and continues to remove pollen in the air by allowing the clean air filter to capture the pollen. When the amount of pollen in the cabin as a whole diminishes to a certain level, the air conditioning automatically resumes operating in the auto mode.



01NMO76Y

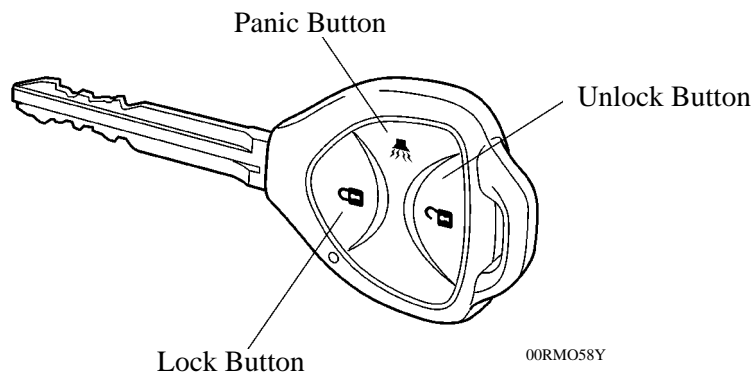


01NMO77Y

**Conceptual Image of Pollen Removal**

## **Wireless Door Lock Remote Control System**

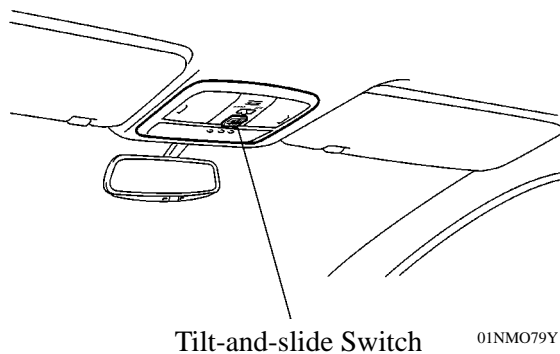
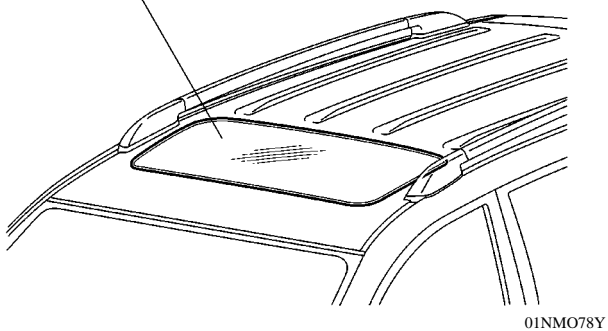
A wireless door lock remote control system with a panic button and answer back function which blinks the hazard warning lights when locking or unlocking is provided as standard equipment.



## **Sliding Roof System**

- A tilt-and-slide roof, which is provided with a one-touch function (slide open/close and tilt up/close) and a jam protection function, is available as optional equipment on the Sport and Limited grades.
- A tilt-and-slide switch is provided at the overhead console.

Tilt-and-slide Roof

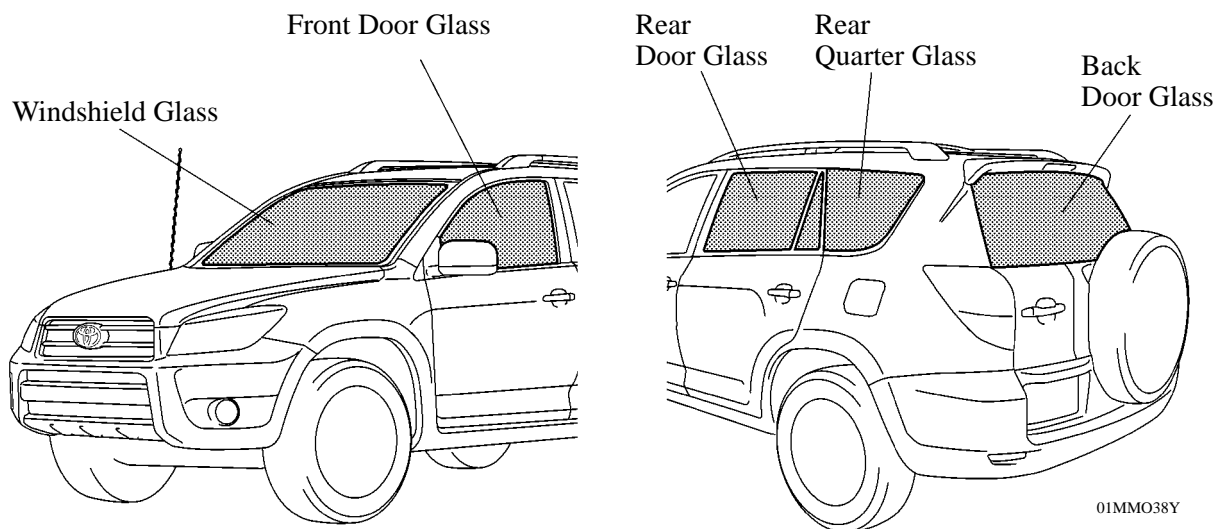


## **Windshield and Door Glass**

The windshield and door glasses are provided as follows:

Glass Portion	Windshield	Front Door Glass	Rear Door Glass		Rear Quarter Glass		Back Door Glass	
Grade	—	—	Standard	Sport and Limited	Standard	Sport and Limited	Standard	Sport and Limited
Glass Type	Green	UV Reduction Green	UV Reduction Green	Dark Gray*	UV Reduction Green	Dark Gray*	UV Reduction Green	Dark Gray*

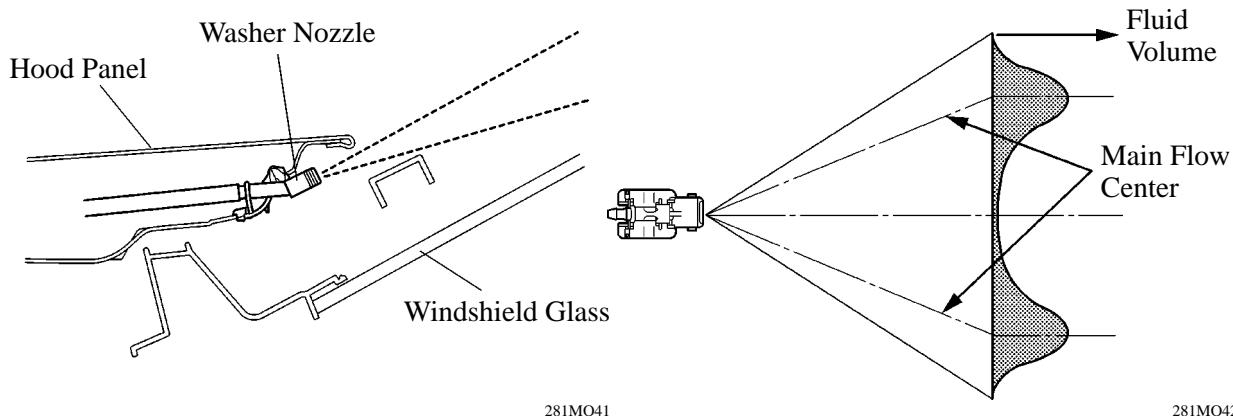
\*: Optional equipment on Standard grade



## **Washer System**

### ***Front***

- Spray type washer nozzles are provided under the hood panel for improved appearance.
- The spray type washer nozzle sprays the washer fluid over a wide area by spraying it in a fan shape. The washer fluid volume sprayed in the center of the spray area has been reduced so as not to hinder the driver's view when the washer system is operated.

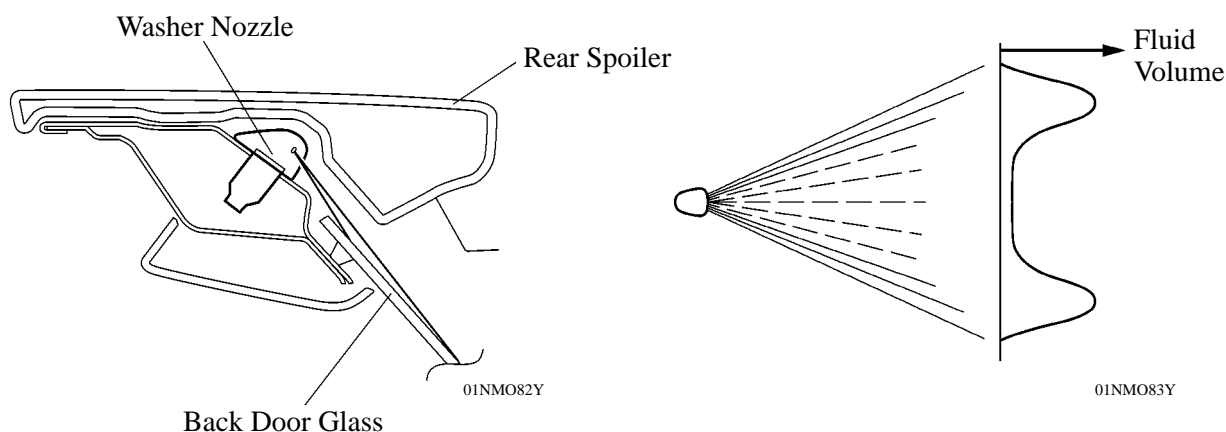


**NOTICE:**

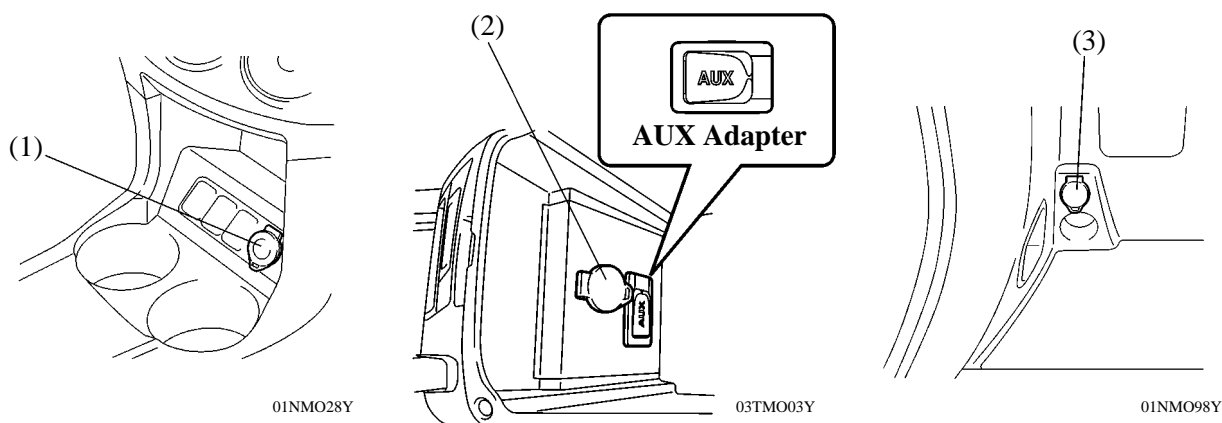
The construction of the spray type washer nozzle does not allow adjustment of the spray angle. Do not adjust the spray angle as this could damage the washer nozzle. To change the spray angle, replace the nozzle by a nozzle with a different spray angle. For details, refer to the 2007 RAV4 Repair Manual (Pub. No. RM03T0U).

**Rear**

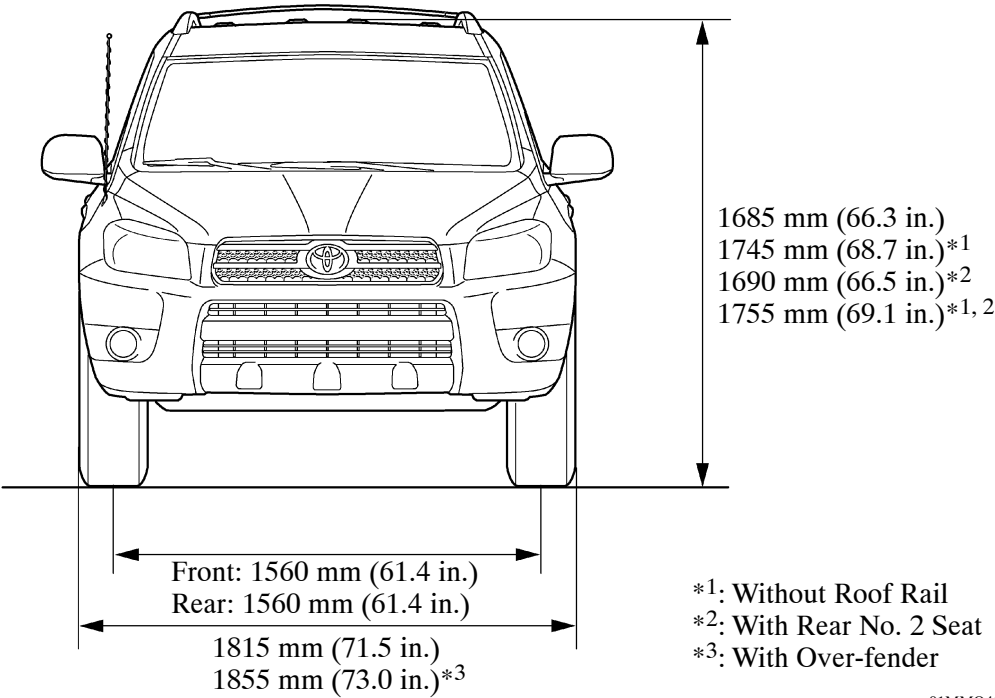
- A flat-spray type washer nozzle is used on all models.
- The washer nozzle is located below the rear spoiler for an enhanced appearance.
- The flat-spray type washer nozzle sprays washer fluid in a fan shape over a wide area for enhanced wiping performance.

**Power Outlet and AUX Adapter**

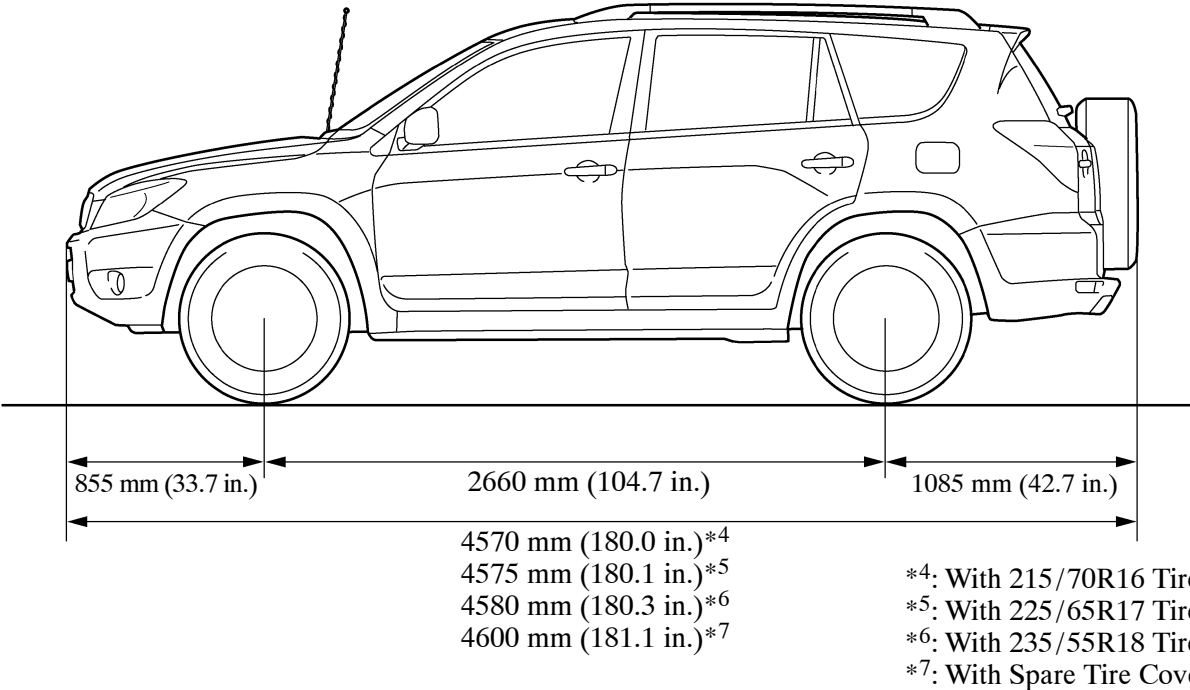
- Three power outlets are provided:
  - (1) Under the center console
  - (2) Inside console box
  - (3) Under the left deck side trim
- An AUX adapter, which is located inside the console box, is used by the audio system as an input terminal for portable audio devices.



***DIMENSIONS***



01MMO41Y



01MMO42Y

# EQUIPMENT LIST

► U.S.A. ◀

● : Standard OP: Option —: None

Engine				2AZ-FE			2GR-FE			
Grade				—	Limited	Sport	—	Limited	Sport	
Exterior	Bumper	Colored		●	●	●	●	●	●	
	Radiator Grille	Material		●	—	●	●	—	●	
		Material Partially Plated		—	●	—	—	●	—	
	Outside Door Handle	Material		●	—	—	●	—	—	
		Colored		—	●	●	—	●	●	
	Back Door Handle	Colored		●	●	●	●	●	●	
	Outside Rear View Mirror	Material / Remote Control		●	—	—	●	—	—	
		Colored / Remote Control / Heater		—	●	●	—	●	●	
	Roof Rail				OP	●	●	OP	●	●
	Rear Spoiler				●	●	●	●	●	●
Spats	Front & Rear		OP	●	●	●	●	●	●	
	Rear		●	—	—	—	—	—	—	
Chassis	Tire	215 / 70R16		●	—	—	—	—	—	
		225 / 65R17		OP	●	—	●	●	—	
		235 / 55R18		—	—	●	—	—	●	
	Disc Wheel	16 x 6 1/2 J Steel		●	—	—	—	—	—	
		17 x 6 1/2 J Steel		OP	—	—	●	—	—	
		17 x 7 J Aluminum		OP	●	—	OP	●	—	
		18 x 7 1/2 J Aluminum		—	—	●	—	—	●	
	Tire Pressure Warning System				●	●	●	●	●	●
	ABS (Anti-lock Brake System) with EBD (Electronic Brake force Distribution) & Brake Assist & TRAC (Traction Control) & VSC (Vehicle Stability Control)*1				●	●	●	●	●	●
	Hill-start Assist Control				OP*2	OP*2	—	●	●	●
	Downhill Assist Control				OP*2	OP*2	—	●	●	●
	Steering	Wheel	3-spoke Urethane		●	—	●	●	—	●
			3-spoke Urethane with Steering Pad Switch (Audio and Telephone)		—	—	OP	—	—	OP
			3-spoke Leather with Steering Pad Switch (Audio)		—	●	—	—	●	—
			3-spoke Leather with Steering Pad Switch (Audio and Telephone)		—	OP	—	—	OP	—
		Column	Manual Tilt & Telescopic		●	●	●	●	●	●
EPS (Electrical Power Steering)				●	●	●	●	●	●	
Shift Knob	PVC (Polyvinyl Chloride)		●	—	●	●	—	●	●	
	Leather		—	●	—	—	●	—	—	
Body	Seat	Cover	Fabric		●	●	●	●	●	●
			Leather		—	OP*3	—	—	OP*3	—
		Front	Driver	6-way Manual	●	—	●	●	—	●
				8-way Power	—	●	—	—	●	—
			Passenger	4-way Manual	●	●	●	●	●	●
		Rear	No. 1	60 / 40 Split Retractable*4	●	●	●	●	●	●
			No. 2		OP	OP	—	OP	OP	—
		Seat Heater				—	OP*5	—	—	OP*5
	Seat Belt	Front	Driver	3-point, Pretensioner & Force Limiter	●	●	●	●	●	●
			Passenger	3-point, Pretensioner & Force Limiter & ALR*6	●	●	●	●	●	●
		Rear	Rear No. 1	3-point ELR*7, ALR*6	●	●	●	●	●	●
			Rear No. 2		OP*2	OP*2	—	OP*2	OP*2	—

\*1: 2WD models have been provided with Automatic LSD (Limited Slip Differential).

(Continued)

\*2: Only for Models with Rear No. 2 Seat \*3: Except Models with Rear No. 2 Seat

\*4: Models with rear No. 2 seat have been provided with walk-in function.

\*5: Models with Leather Seat \*6: Automatic Locking Retractor \*7: Emergency Locking Retractor



● : Standard OP: Option —: None

Engine				2AZ-FE			2GR-FE			
Grade				—	Limited	Sport	—	Limited	Sport	
Body Electrical	Headlight	Halogen		●	●	●	●	●	●	
	Light Auto Turn-OFF System			●	●	●	●	●	●	
	Front Fog Light			—	●	●	—	●	●	
	Daytime Running Lighting System			OP	OP	OP	OP	OP	OP	
	Windshield Wiper		Intermittent Type	●	●	●	●	●	●	
	Rear Wiper		Intermittent Type	●	●	●	●	●	●	
	Bluetooth® Hands-free System			—	OP	OP	—	OP	OP	
	Audio System	Radio/CD, 6 Speakers		●	—	●	●	—	●	
		Radio/In-dash CD Changer, 6 Speakers		OP	●	OP	OP	●	OP	
		Radio/In-dash CD Changer, 9 Speakers (JBL)		—	OP	OP	—	OP	OP	
		Rear Seat Entertainment System		—	—	—	—	OP	—	
		AUX Adapter		●	●	●	●	●	●	
	Air Conditioning	Manual Type		●	—	●	●	—	●	
		Automatic Type		—	●	—	—	●	—	
		Clean Air Filter		●	●	●	●	●	●	
	Heater	Conventional Type		●	●	●	●	●	●	
	Cruise Control System			●	●	●	●	●	●	
	Illuminated Entry System	Key Illumination & Room Light & Front Personal Light		●	—	●	●	—	●	
		Key Illumination & Room Light & Front Personal Light & Foot Light		—	●	—	—	●	—	
	Power Window System	All Door Power Type Only for Driver's Seat: One Motion Auto Up-and-down, Jam Protection Function		●	●	●	●	●	●	
	Door Lock Control	Power Door Lock Control System		●	●	●	●	●	●	
		Wireless Door Lock Remote Control System		●	●	●	●	●	●	
	Engine Immobilizer System			—	●	—	—	●	—	
	Sliding Roof			—	OP	OP	—	OP	OP	
	SRS*8 Airbag System	Driver	Dual-stage		●	●	●	●	●	●
		Front Passenger	Dual-stage with Occupant Classification System		●	●	●	●	●	●
		Side & Roll Sensing Type Curtain Shield		OP	OP	OP	OP	OP	OP	

\*8: Supplemental Restraint System

## ► Canada ◀

● : Standard OP: Option —: None

Engine					2AZ-FE			2GR-FE						
Grade					—	Limited	Sport	—	Limited	Sport				
Exterior	Bumper		Colored		●	●	●	●	●	●				
	Radiator Grille		Material		●	—	●	●	—	●				
			Material Partially Plated		—	●	—	—	●	—				
	Outside Door Handle		Material		●	—	—	●	—	—				
			Colored		—	●	●	—	●	●				
	Back Door Handle		Colored		●	●	●	●	●	●				
	Outside Rear View Mirror		Colored/Remote Control/Heater		●	●	●	●	●	●				
	Roof Rail			OP	●	●	OP	●	●					
	Rear Spoiler			●	●	●	●	●	●					
Spats		Front & Rear		OP	●	●	OP	●	●					
Chassis	Tire		215/70R16		●	—	—	—	—	—				
			225/65R17		OP	●	—	●	●	—				
			235/55R18		—	—	●	—	—	●				
	Disc Wheel		16 x 6 1/2 J Steel		●	—	—	—	—	—				
			17 x 6 1/2 J Steel		OP	—	—	●	—	—				
			17 x 7 J Aluminum		OP	●	—	OP	●	—				
			18 x 7 1/2 J Aluminum		—	—	●	—	—	●				
	ABS (Anti-lock Brake System) with EBD (Electronic Brake force Distribution) & Brake Assist & TRAC (Traction Control) & VSC (Vehicle Stability Control)				●	●	●	●	●	●				
	Hill-start Assist Control				OP*1	OP*1	—	●	●	●				
	Downhill Assist Control				OP*1	OP*1	—	●	●	●				
	Steering		Wheel		3-spoke Urethane		●	—	●	●	—	●		
					3-spoke Urethane with Steering Pad Switch (Audio and Telephone)		—	—	OP	—	—	OP		
					3-spoke Leather with Steering Pad Switch (Audio)		—	●	—	—	●	—		
					3-spoke Leather with Steering Pad Switch (Audio and Telephone)		—	OP	—	—	OP	—		
			Column		Manual Tilt &Telescopic		●	●	●	●	●	●		
	Shift Knob		EPS (Electrical Power Steering)				●	●	●	●	●	●		
					PVC (Polyvinyl Chloride)		●	—	●	●	—	●		
Leather					—	●	—	—	●	—				
Body	Seat		Cover		Fabric		●	●	●	●	●	●		
					Leather		—	OP*2	—	—	OP*2	—		
			Front		Driver		6-way Manual		●	—	●	●	—	●
							8-way Power		—	●	—	—	●	—
					Passenger		4-way Manual		●	●	●	●	●	●
			Rear		No. 1		60/40 Split Retractable*3		●	●	●	●	●	●
					No. 2				OP	OP	—	OP	OP	—
			Seat Heater				—	OP*4	—	—	OP*4	—		
	Seat Belt		Front		Driver		3-point, Pretensioner & Force Limiter		●	●	●	●	●	●
					Passenger		3-point, Pretensioner & Force Limiter & ALR*5		●	●	●	●	●	●
			Rear		Rear No. 1		3-point ELR*6, ALR*5		●	●	●	●	●	●
					Rear No. 2				OP*1	OP*1	—	OP*1	OP*1	—

\*1: Only for Models with Rear No. 2 Seat

\*2: Except Models with Rear No. 2 Seat

\*3: Models with rear No. 2 seat have been provided with walk-in function.

\*4: Models with Leather Seat

\*5: Automatic Locking Retractor

\*6: Emergency Locking Retractor

(Continued)

● : Standard OP: Option —: None

Engine			2AZ-FE			2GR-FE		
Grade			—	Limited	Sport	—	Limited	Sport
Body Electrical	Headlight	Halogen	●	●	●	●	●	●
	Light Auto Turn-OFF System		●	●	●	●	●	●
	Front Fog Light		—	●	●	—	●	●
	Daytime Running Lighting System		●	●	●	●	●	●
	Windshield Wiper	Intermittent Type	●	●	●	●	●	●
	Windshield Deicer		●	●	●	●	●	●
	Rear Wiper	Intermittent Type	●	●	●	●	●	●
	Bluetooth® Hands-free System		—	OP	OP	—	OP	OP
	Audio System	Radio/CD, 6 Speakers	●	—	●	●	—	●
		Radio/In-dash CD Changer, 6 Speakers	OP	●	OP	OP	●	OP
		Radio/In-dash CD Changer, 9 Speakers (JBL)	—	OP	OP	—	OP	OP
		Rear Seat Entertainment System	—	—	—	—	OP	—
		AUX Adapter	●	●	●	●	●	●
	Air Conditioning	Manual Type	●	—	●	●	—	●
		Automatic Type	—	●	—	—	●	—
		Clean Air Filter	●	●	●	●	●	●
	Heater	Conventional Type	●	●	●	●	●	●
	Cruise Control System		●	●	●	●	●	●
	Illuminated Entry System	Key Illumination & Room Light & Front Personal Light	●	—	●	●	—	●
		Key Illumination & Room Light & Front Personal Light & Foot Light	—	●	—	—	●	—
	Power Window System	All Door Power Type Only for Driver's Seat: One Motion Auto Up-and-down, Jam Protection Function	●	●	●	●	●	●
	Door Lock Control	Power Door Lock Control System	●	●	●	●	●	●
		Wireless Door Lock Remote Control System	●	●	●	●	●	●
	Engine Immobilizer System		●	●	●	●	●	●
	Sliding Roof		—	OP	OP	—	OP	OP
	SRS* <sup>7</sup> Airbag System	Driver	●	●	●	●	●	●
		Front Passenger	●	●	●	●	●	●
		Side & Roll Sensing Type Curtain Shield	OP	OP	OP	OP	OP	OP

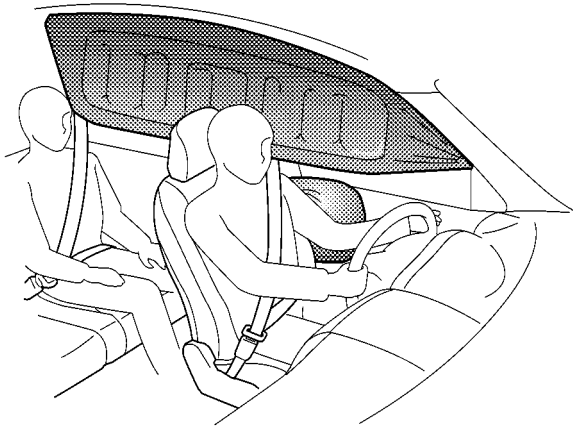
\*<sup>7</sup>: Supplemental Restraint System

## SRS AIRBAG SYSTEM

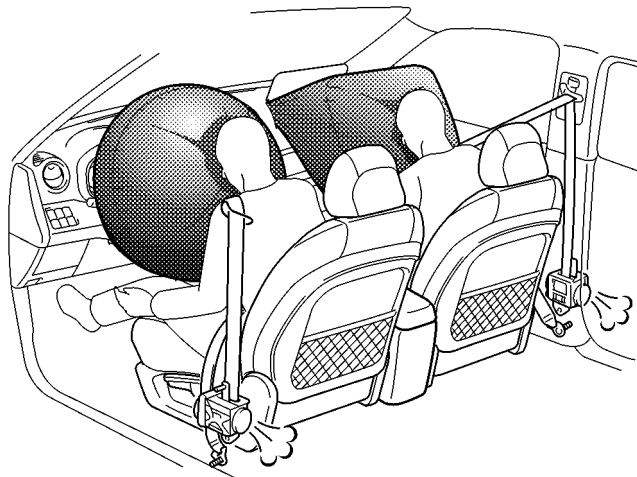
### ■ DESCRIPTION

- The dual-stage SRS (Supplemental Restraint System) driver and front passenger airbags are used to help reduce the shocks to the heads and chests of the driver and front passenger in the event of frontal collision as supplements to the seat belts. The dual-stage SRS airbag system controls the airbag inflating output by judging the extent of impact, seat position and whether or not the seat belt is fastened.
- The SRS side and curtain shield airbags are used to help reduce the shocks to the heads and the chests of the driver, front passenger, and outer rear passengers in the event of a side collision.
- The RSCA (Roll Sensing of Curtain shield Airbag) control is used in order to deploy the curtain shield airbag and the driver and front passenger seat belt pretensioners, in the event that the vehicle rolls over.
- As a countermeasure against an interruption in the power supply in the event of a collision involving the vehicle, a backup power supply which consists of a power supply capacitor and a voltage boost circuit (DC-DC converter) is provided in the airbag sensor assembly.
- The airbag sensor assembly uses a fuel cut control that stops the fuel pump if any airbag is deployed.
- The '07 models have the SRS airbag system with the following equipments:

Destination		U.S.A & Canada
Airbag Type	Driver and Front Passenger Airbags	Standard
	Driver, Front Passenger, Side and Roll Sensing of Curtain Shield Airbags	Standard

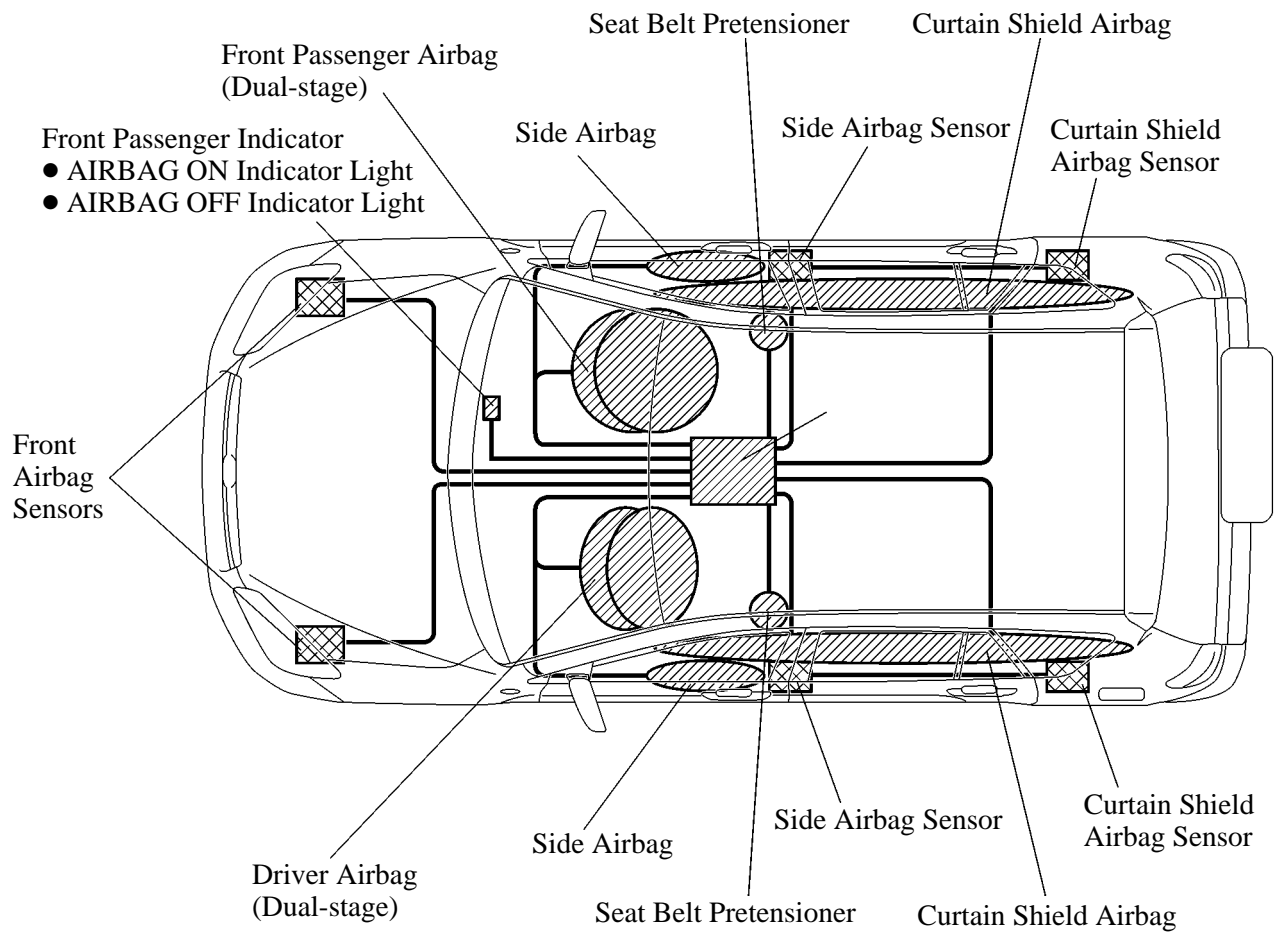


01NBE06Y



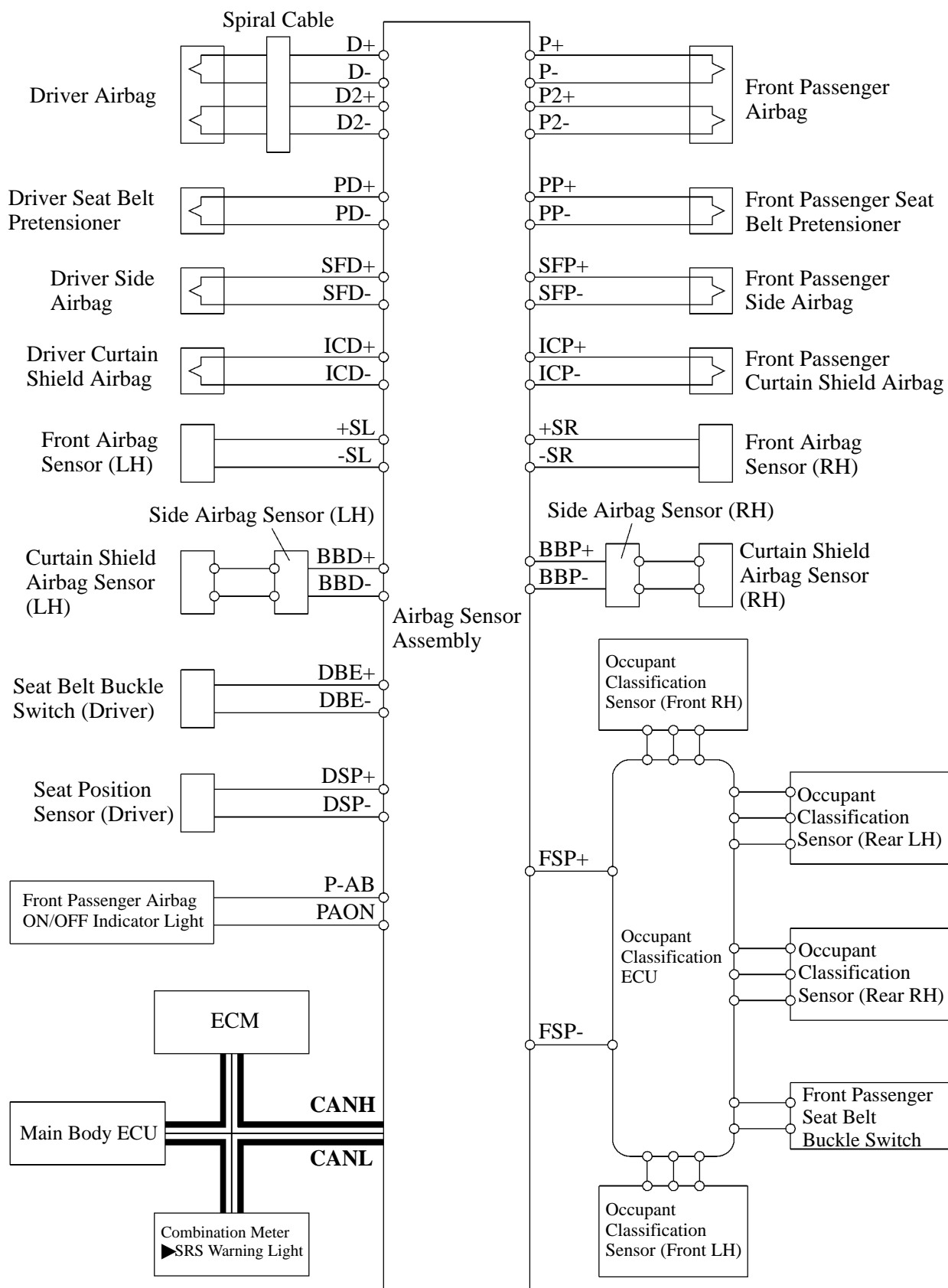
01MBE16Y

## ► System Diagram ◀



01MBE15Y

# WIRING DIAGRAM

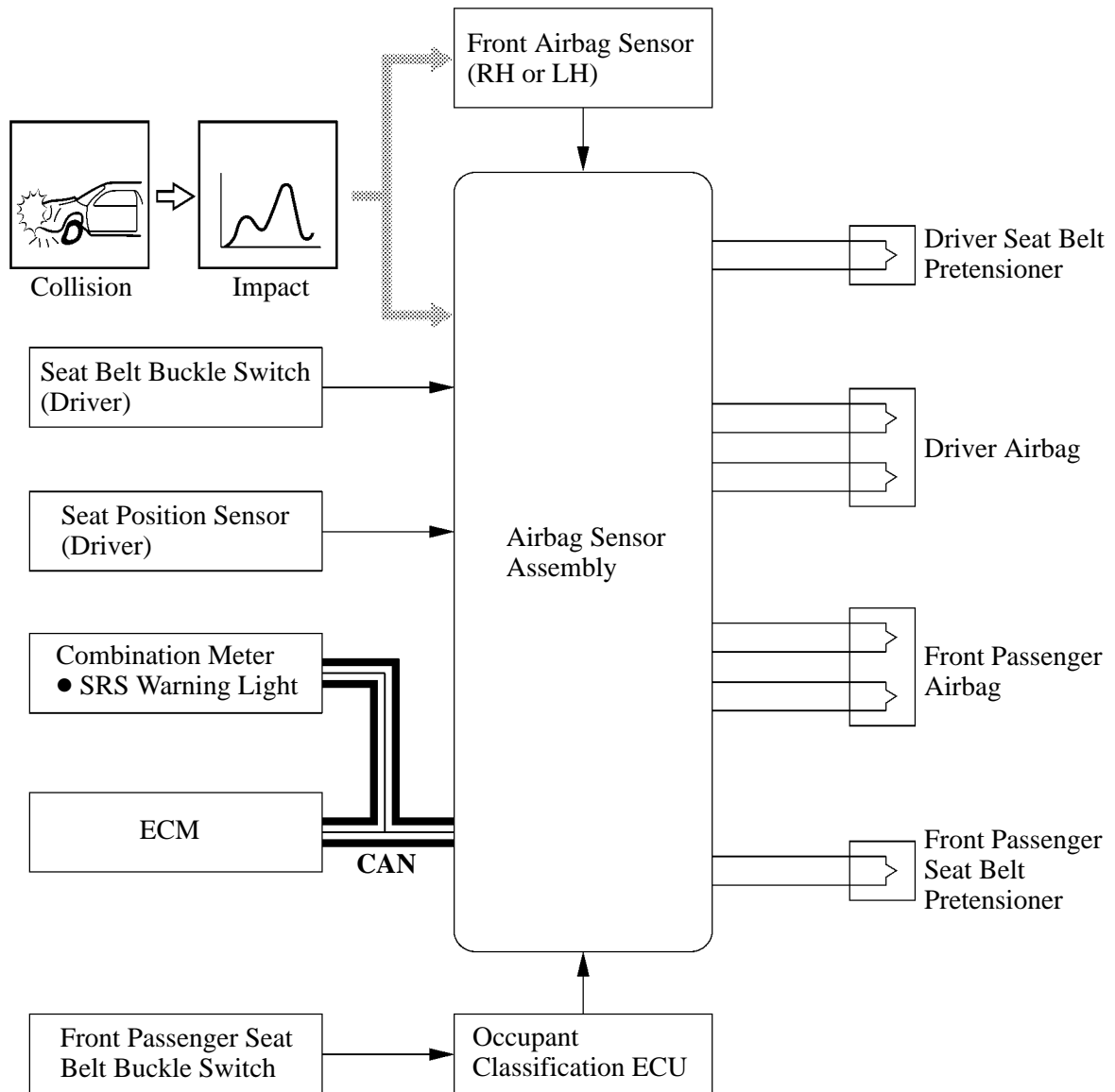


## ■ AIRBAG FOR FRONTAL COLLISION

### 1. General

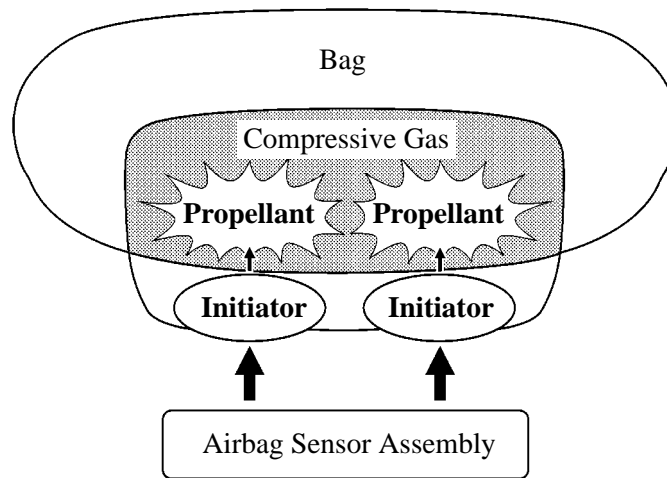
In conjunction with impact absorbing structure for front collision, the driver and front passenger dual-stage SRS airbags and the driver knee airbag have been designed to help reduce injury to the head, chest and leg in the event of a front collision. These airbags all deploy with the same timing, and are supplements to the seat belts.

#### ► System Operation ◀



## 2. Dual-stage SRS Airbags

To support the dual-stage control, these airbag assemblies contain 2 sets of initiators and propellants. The airbag sensor assembly helps optimize the airbag inflation output by delaying the inflation timing of these initiators.



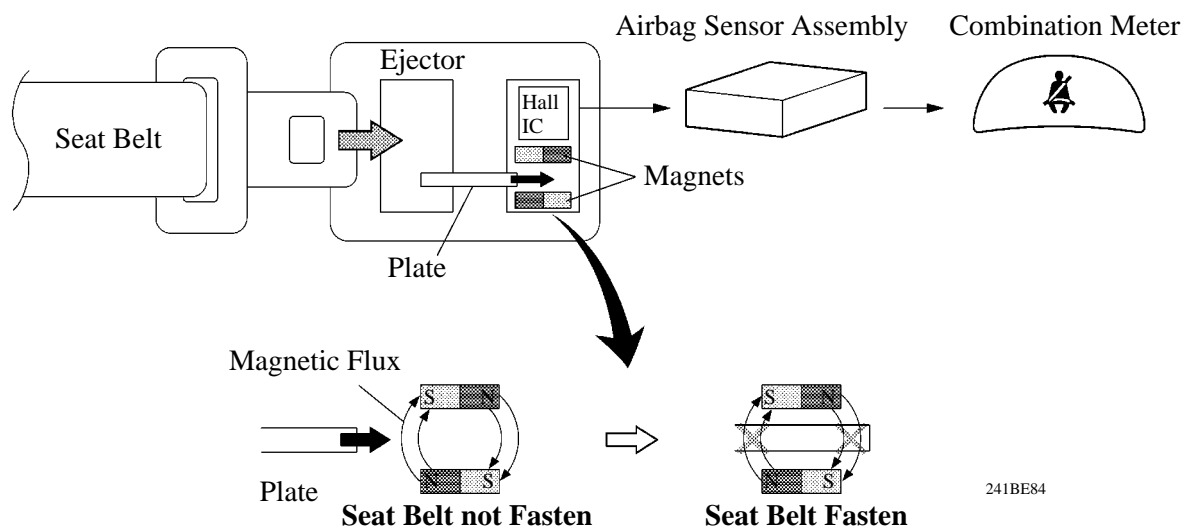
228AV15

## 3. Front Airbag Sensor

- The electrical (acceleration sensor) type airbag sensor is used for front airbag sensor.
- The acceleration sensor is enclosed in the front airbag sensor. Based on the deceleration of the vehicle during a front collision, a distortion is created in the sensor and converted into an electrical signal. Accordingly, the extent of the initial collision can be detected in detail.

## 4. Seat Belt Buckle Switch (for Driver)

- The seat belt buckle switch which consists of an ejector with a plate, a Hall IC, and two magnets is integrated in the front seat inner belt assembly.
- The ejector with plate blocks the magnetic flux density between the two magnets. The Hall IC outputs this change to the airbag sensor assembly.

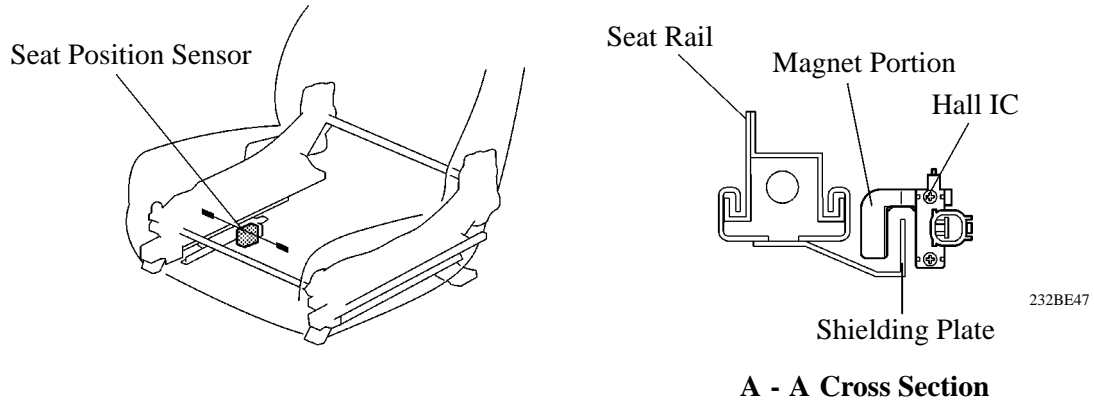


241BE84

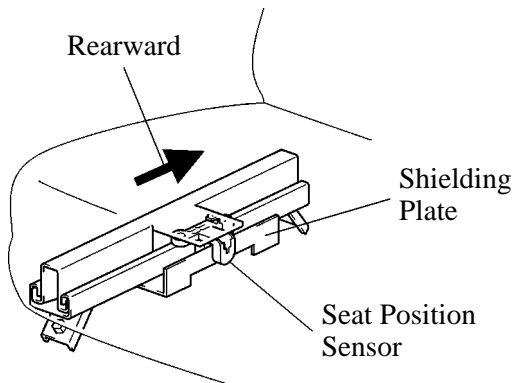


## 5. Seat Position Sensor (for Driver)

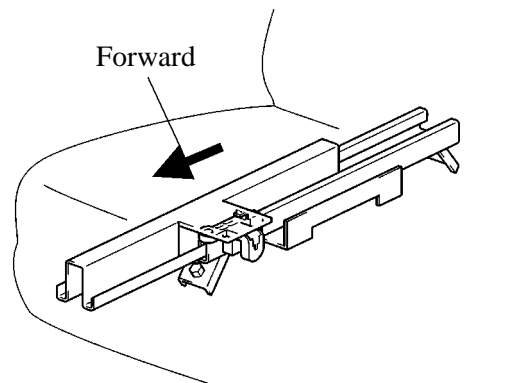
- The seat position sensor which is attached to the seat rail of the driver seat detects the sliding position of the seat. In addition, the shielding plate is installed on this seat rail to make the seat position sensor judge the seat position.
- The seat position sensor uses a Hall IC for its sensor and has a magnet portion on its opposite side.



- The seat position sensor determines that the seat position is rearward if the sensor is located over the shielding plate, and the seat position is forward if the shielding plate is not located over the sensor.



**Seat position is rearward**



**Seat position is forward**

## ■ AIRBAG FOR SIDE/REAR SIDE COLLISION

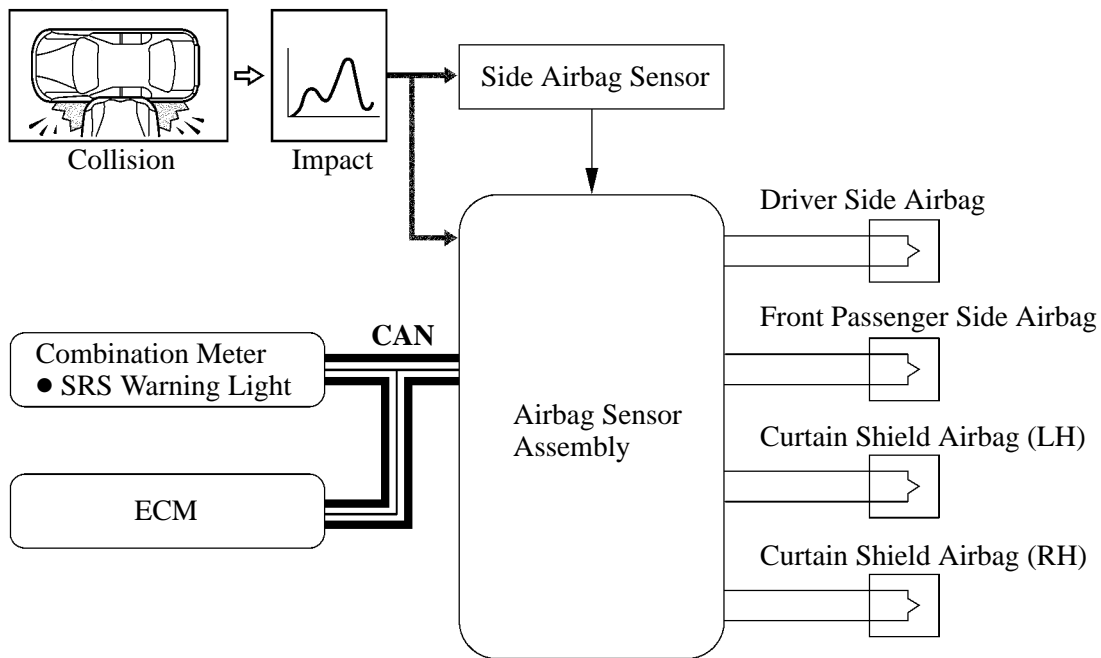
### 1. General

The airbag for side collisions contains two airbags: side and curtain shield airbags. These airbags deploy simultaneously. The airbag for rear side collisions contains only the curtain shield airbag.

- With the airbag for side collisions, if the side airbag sensor detects an impact, it informs the airbag sensor assembly, and the airbag sensor assembly causes the side and curtain shield airbags to be deployed simultaneously.
- With the airbag for rear side collisions, if the curtain shield airbag sensor detects an impact, it informs the airbag sensor assembly via the side airbag sensor, and the airbag sensor assembly causes the curtain shield airbag to be deployed.

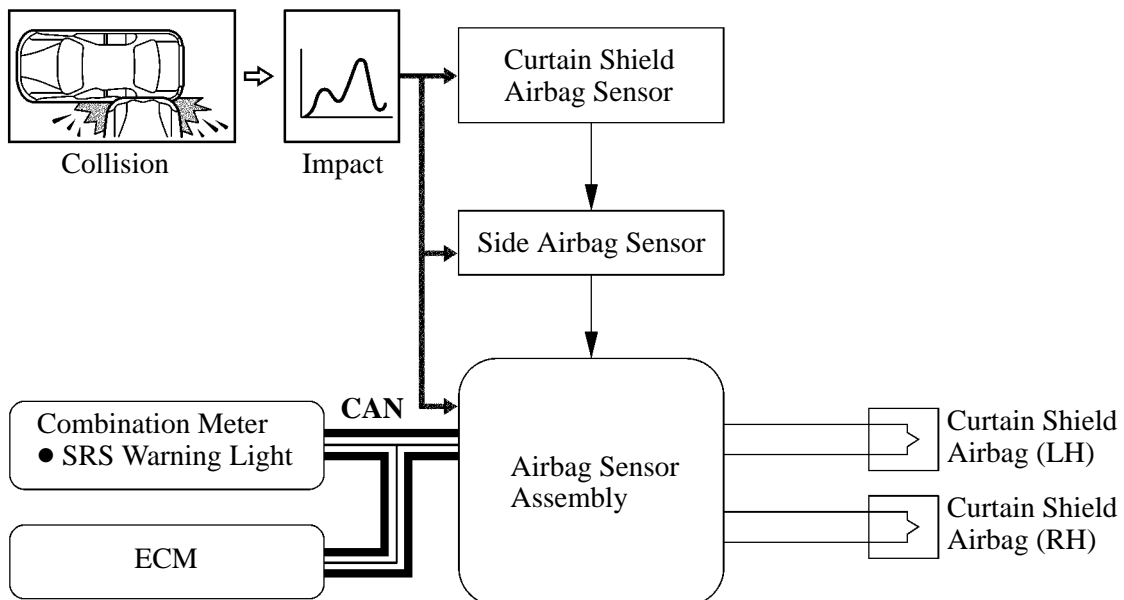
### ► System Operation ◀

#### Airbag for Side Collision



00RBE18Y

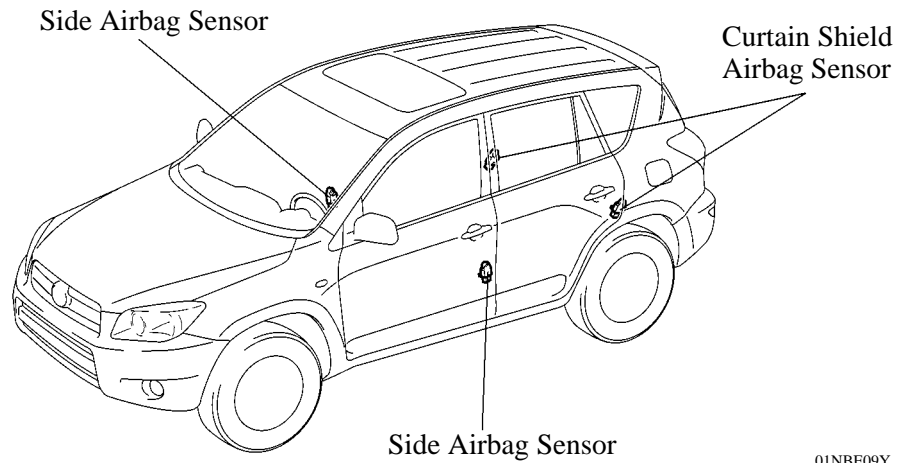
#### Airbag for Rear Side Collision



00SBE46Y

## 2. Side Airbag Sensor and Curtain Shield Airbag Sensor

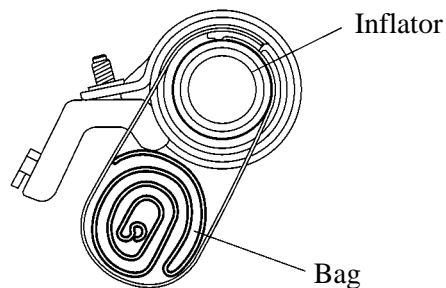
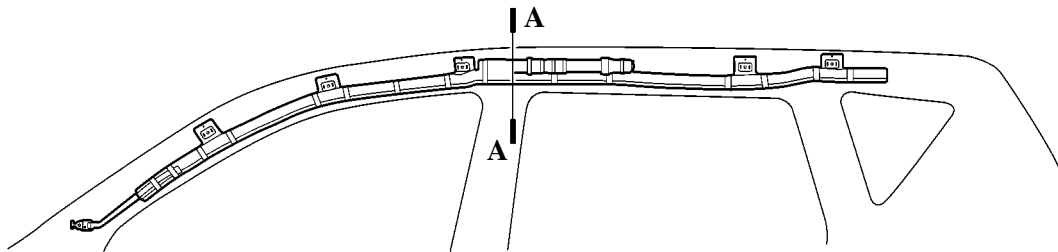
The deceleration sensor is enclosed in each side and curtain shield airbag sensor. Based on the deceleration of the vehicle during a side or side rear collision, a distortion is created in the sensor and converted into an electrical signal.



01NBE09Y

## 3. Curtain Shield Airbag

A rear side collision is detected by the curtain shield airbag sensor in order to deploy the curtain shield airbag.



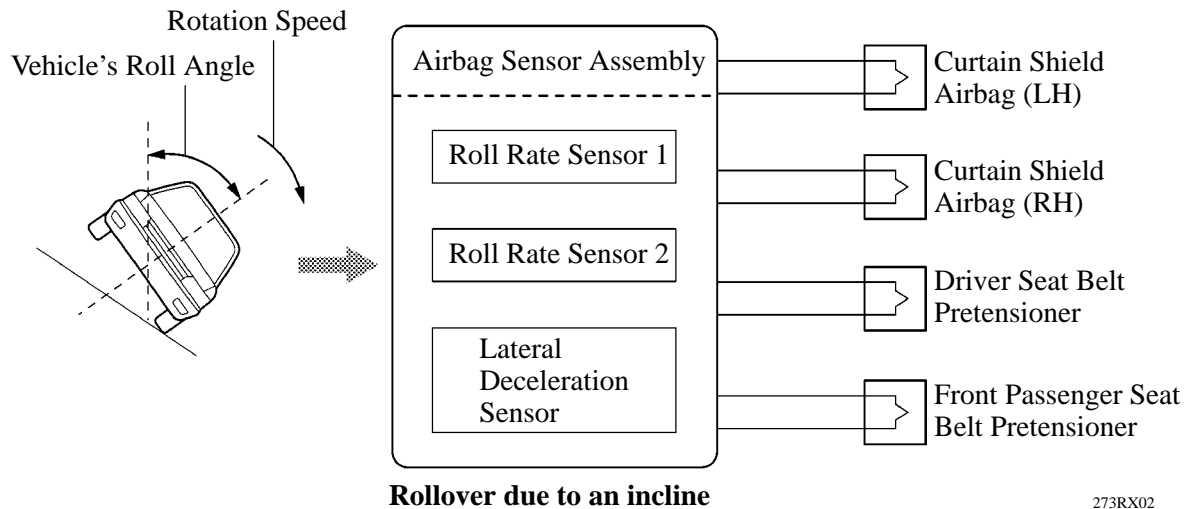
A - A Cross Section

01NBE124Y

## ◀ AIRBAG FOR ROLLOVER

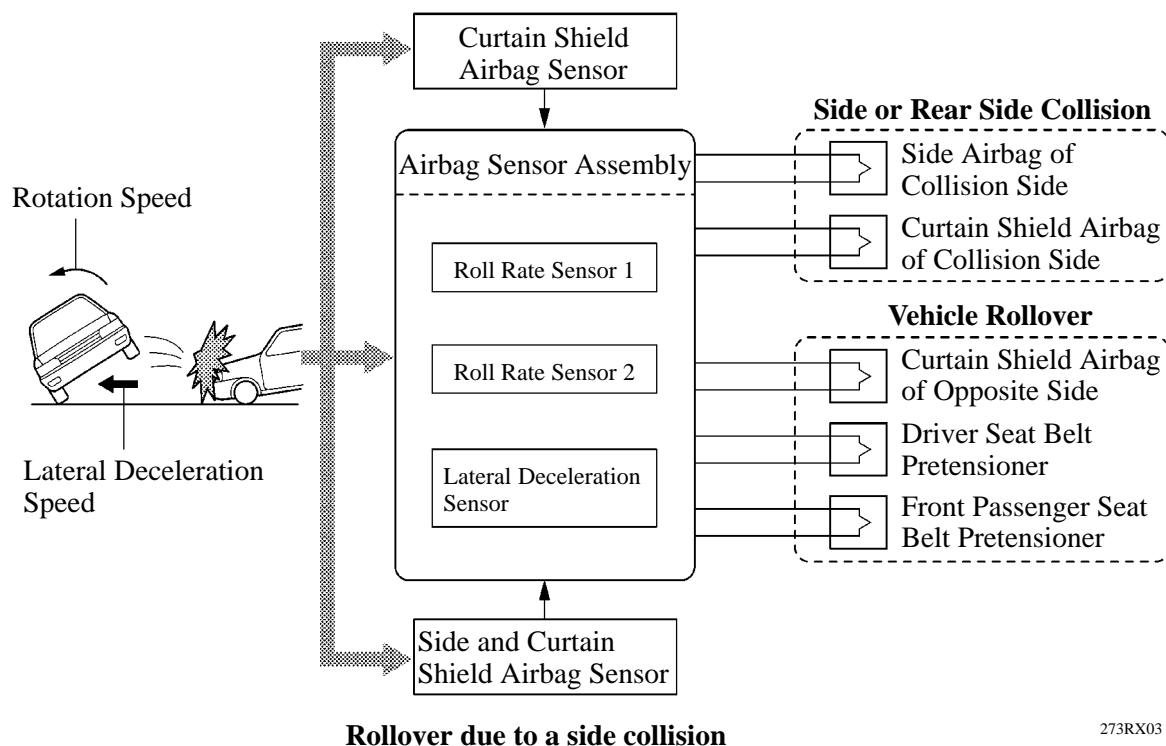
When the vehicle is rolling sideways, the RSCA (Roll Sensing of Curtain shield Airbag) helps to reduce the impact that is applied to the occupants by operating the left and right curtain shield airbags and the seat belt pretensioners for the driver and front passenger.

- If the vehicle rolls over due to an incline, the two roll rate sensors and lateral deceleration sensor that are built into the airbag sensor assembly detect the vehicle's roll angle, rotation speed and lateral deceleration speed.



273RX02

- If the vehicle has rolled over due to a side or rear side collision, the side and curtain shield and/or curtain shield airbag sensors detect the impact of the collision and deploy the side and/or curtain shield airbags on the collision side. Rollover is detected by the two roll rate sensors and lateral deceleration sensor, and airbag sensor assembly deploys the curtain shield airbag on the opposite side of the collision and the driver and front passenger seat belt pretensioners.



273RX03

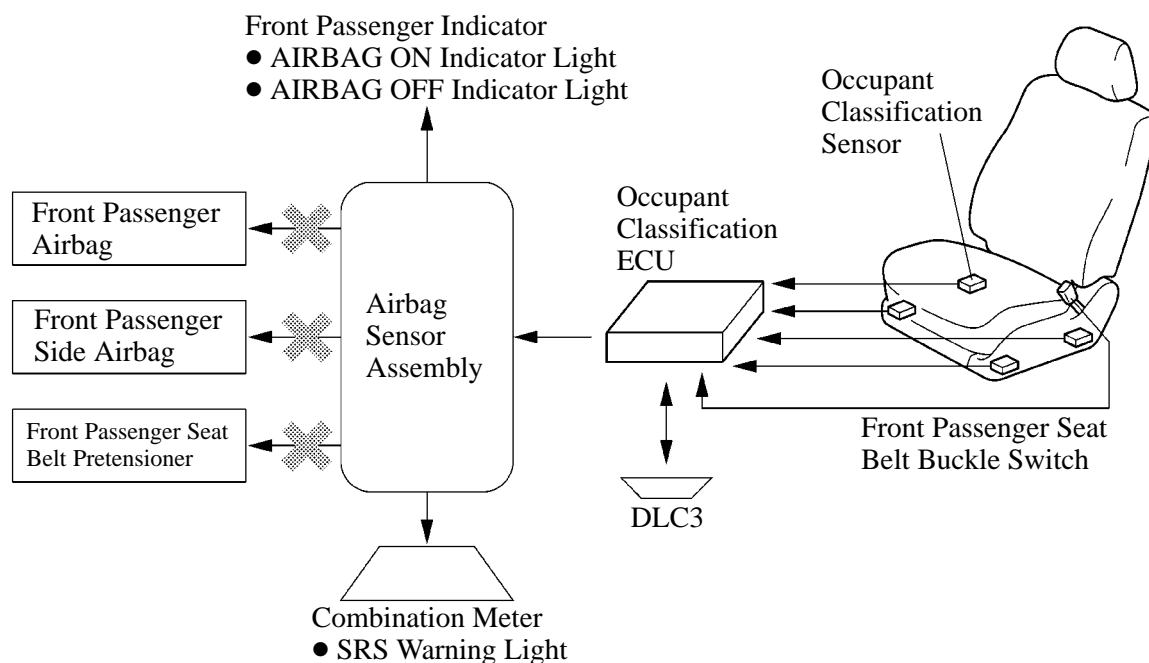
## ■ FRONT PASSENGER OCCUPANT CLASSIFICATION SYSTEM

### 1. General

The front passenger occupant classification system judges whether the front passenger seat is occupied by an adult or child (with child seat) or is unoccupied, in accordance with the load that is applied to the front passenger seat and whether the seat belt is buckled. Thus, it restricts the deployment of the front passenger airbag, front passenger side airbag, and the front passenger seat belt pretensioner. In addition, the system informs the driver of the result of the judgment through the use of the AIRBAG ON/OFF indicator lights.

- This system consists of the occupant classification ECU, four occupant classification sensors, AIRBAG ON/OFF indicator lights, seat belt buckle switch, and airbag sensor assembly.

#### ► System Diagram ◀



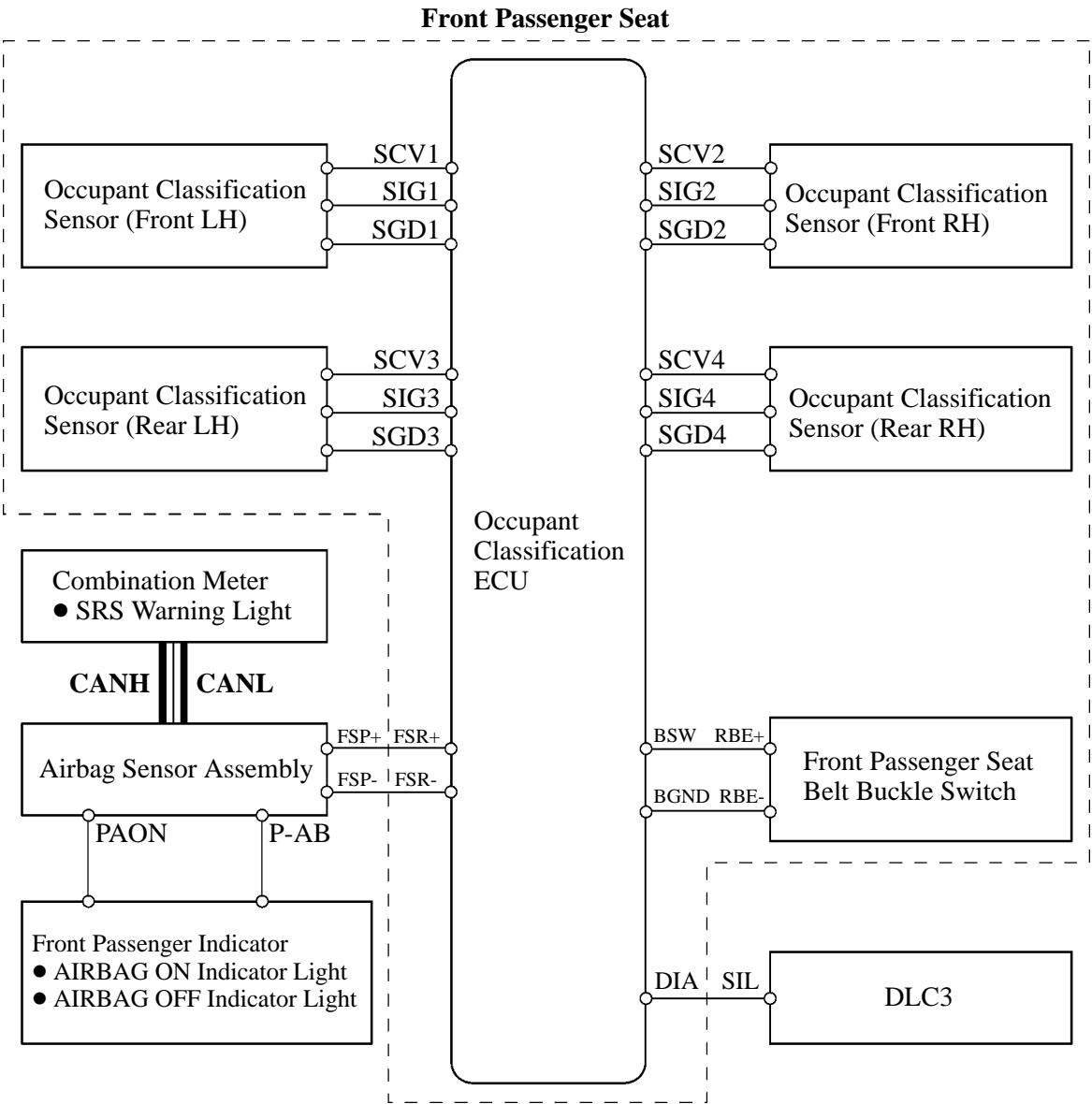
267NF12

#### Service Tip

- When installing items to the front passenger seat or removing/installing the front passenger seat, connect the hand-held tester and be sure to perform a system check and perform a zero-point calibration of the sensor load value.
- If the maintenance is performed due to the SRS warning light being on constantly or due to a collision, in addition to the above item, check that the hand-held tester display value indicates within the range of 30 kg (66 lb) +/- 3 kg (6.6 lb) when a 30 kg (66 lb) weight is placed on the front passenger seat.

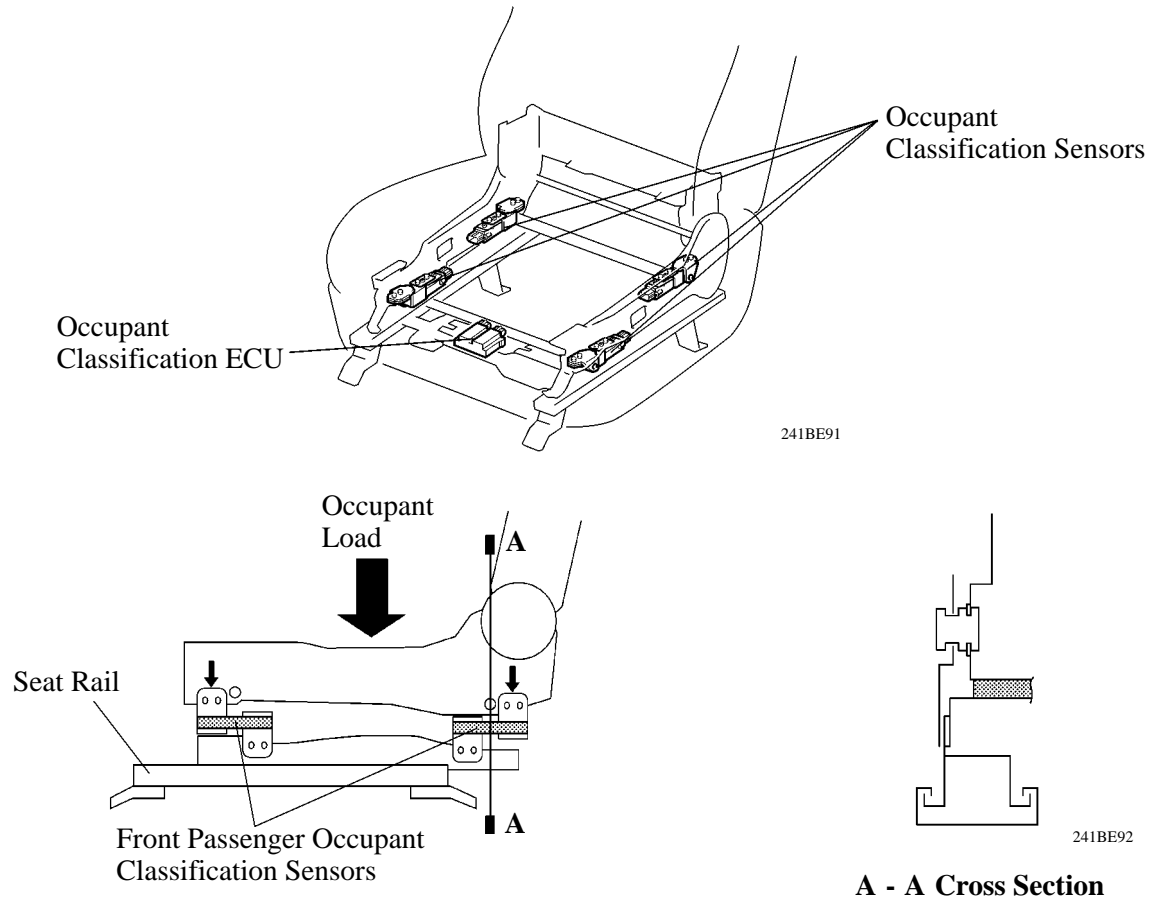
For details, see the 2007 RAV4 Repair Manual (Pub. No. RM03T0U).

2. Wiring Diagram

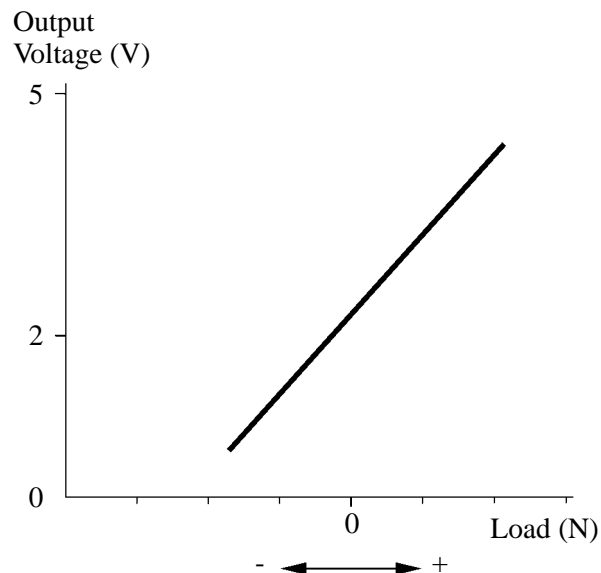


### 3. Occupant Classification Sensor

The occupant classification sensors are installed on 4 brackets connecting the seat rail and seat frame. Accordingly, when load is applied to the front passenger seat by an occupant sitting in it, the occupant classification sensors register a distortion.



- The occupant classification sensors register a change in resistance value in response to a distortion. Accordingly, the occupant classification sensors output a voltage to the occupant classification ECU in response to the weight (load) of the front passenger seat occupant.



## 4. System Operation

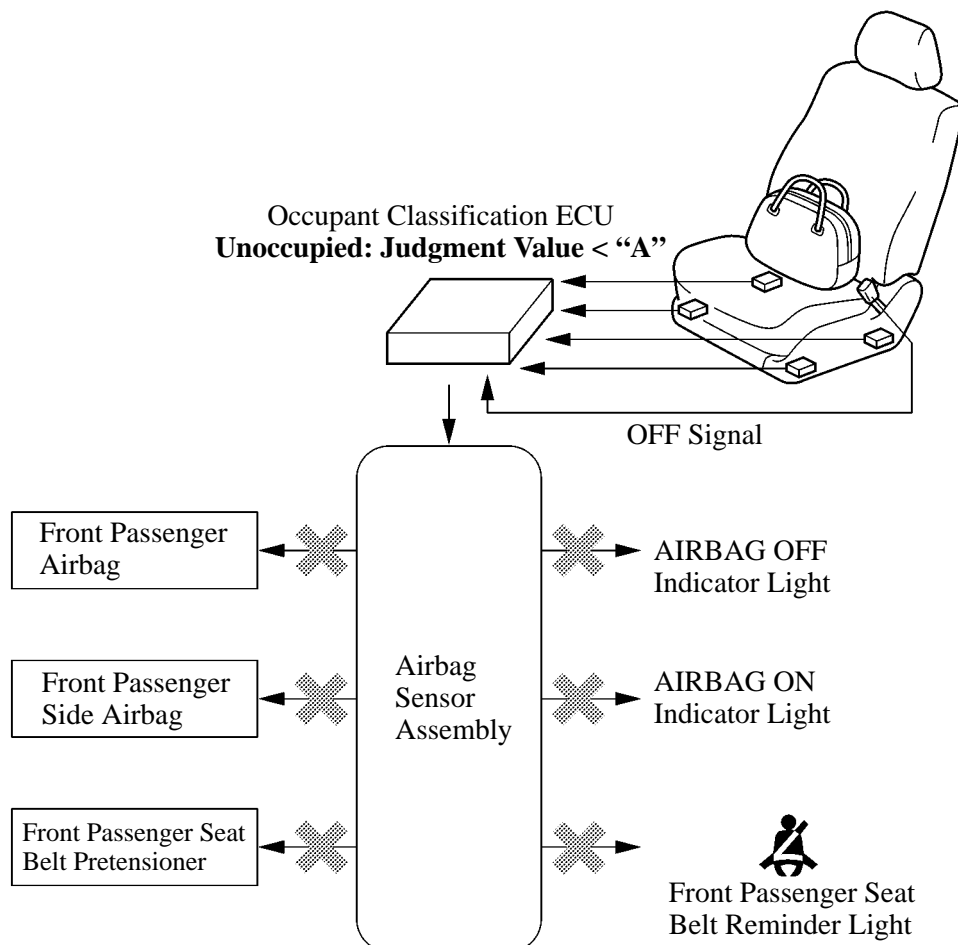
### General

This system makes the following judgments: unoccupied judgment, child seat judgment, child judgment, and adult judgment. In addition, it performs an initial check to check the circuit of the AIRBAG ON/OFF indicator lights when the ignition switch is ON.

- The occupant classification ECU constantly monitors the weight of the front passenger seat, and makes a judgment in accordance with the signals from the occupant classification sensor and the state of the seat belt buckle switch, regardless of the position of the ignition switch.
- The occupant classification ECU contains criteria value “A” to judge whether the seat is being occupied by a child or a child seat in accordance with the signals from the four occupant classification sensors and seat belt buckle switch, and criteria value “B” to judge whether the occupant is an adult or child (with child seat).
- The occupant classification ECU makes an occupied or unoccupied judgment in accordance with the signals from the seat belt buckle switch.

### Unoccupied Judgment

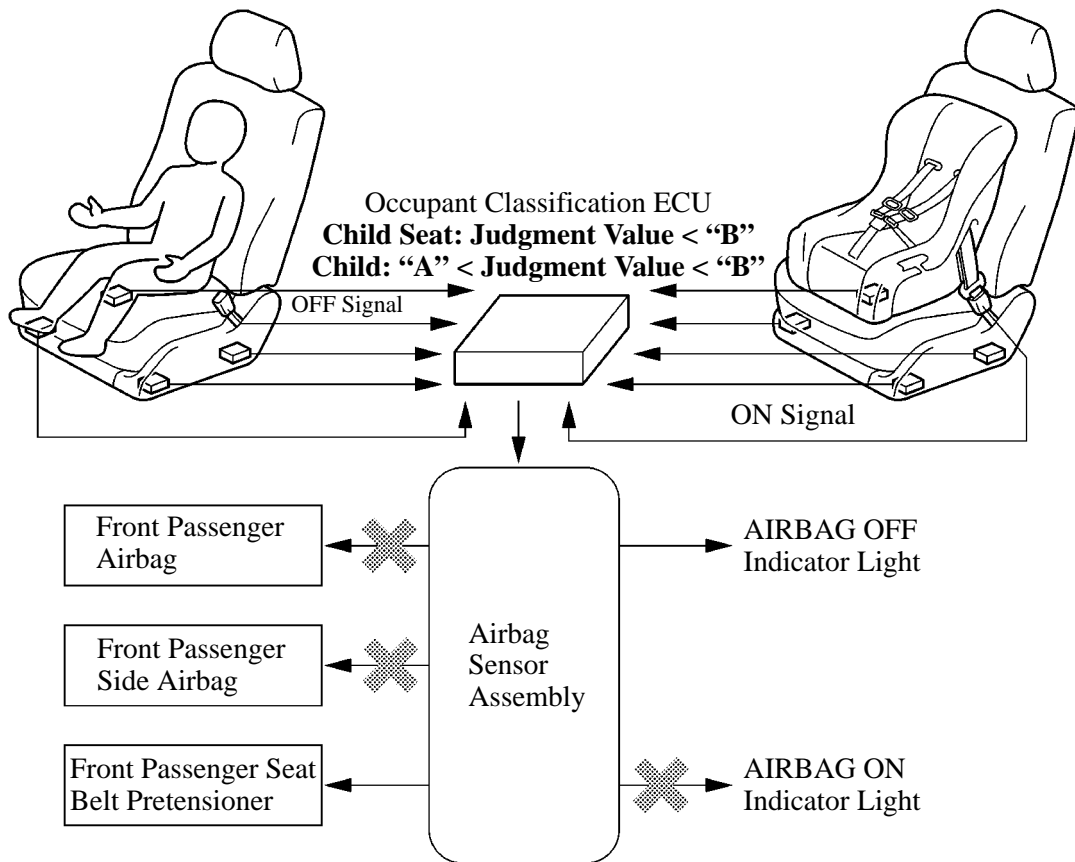
- The occupant classification ECU makes an unoccupied judgment when the judgment value is lower than criteria value “A” and the seat belt buckle switch is off.
- If the ignition switch is turned ON in this state, the system performs an initial check, and does not illuminate the AIRBAG ON/OFF indicator lights. Then, the system prohibits the deployment of the front passenger airbag, front passenger side airbag, and the front passenger seat belt pretensioner, and does not blink the front passenger seat belt reminder light.





**Child Seat or Child Judgment**

- If the judgment value is lower than criteria value “B” and the seat belt buckle switch is on, the occupant classification ECU judges that a child seat is installed.
- If the judgment value is higher than criteria value “A”, but lower than criteria value “B”, and the seat belt buckle switch is off, the occupant classification ECU judges that the seat is being occupied by a child.
- When the ignition switch is turned ON under these conditions, the system performs an initial check and illuminates the AIRBAG OFF indicator light to indicate that the front passenger airbag and front passenger side airbag have been deactivated.

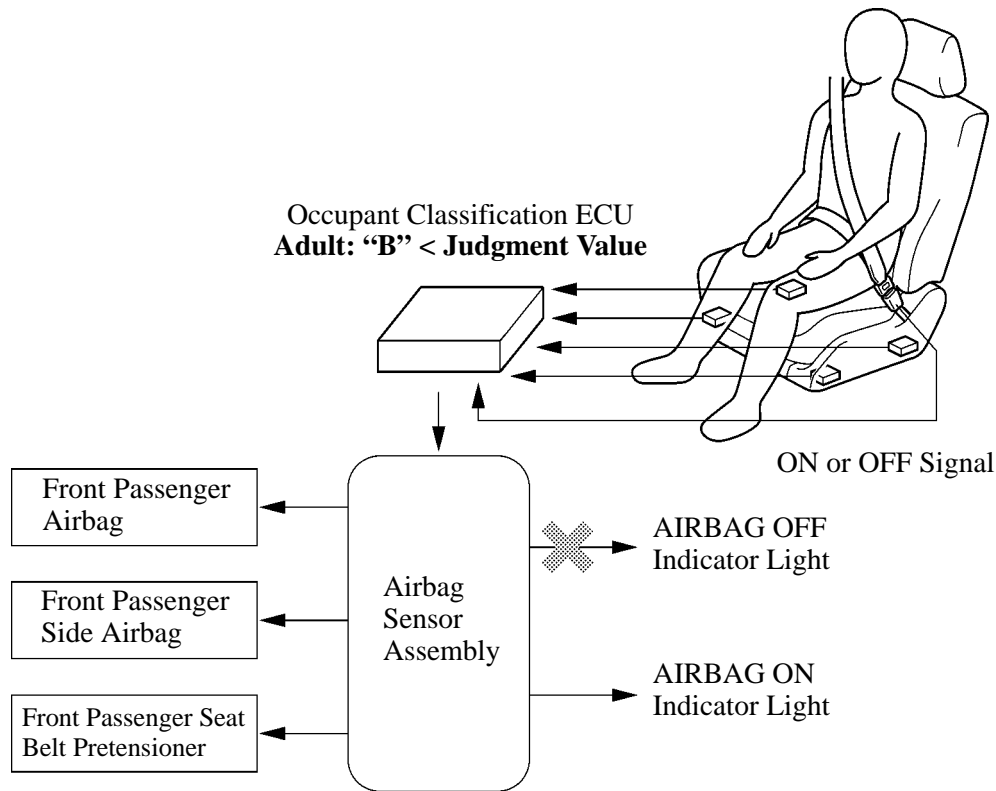


D13N56

- After the occupant classification ECU judges that child seat is installed, the AIRBAG OFF indicator light does not go off unless the seat belt buckle switch is turned off.

### Adult Judgment

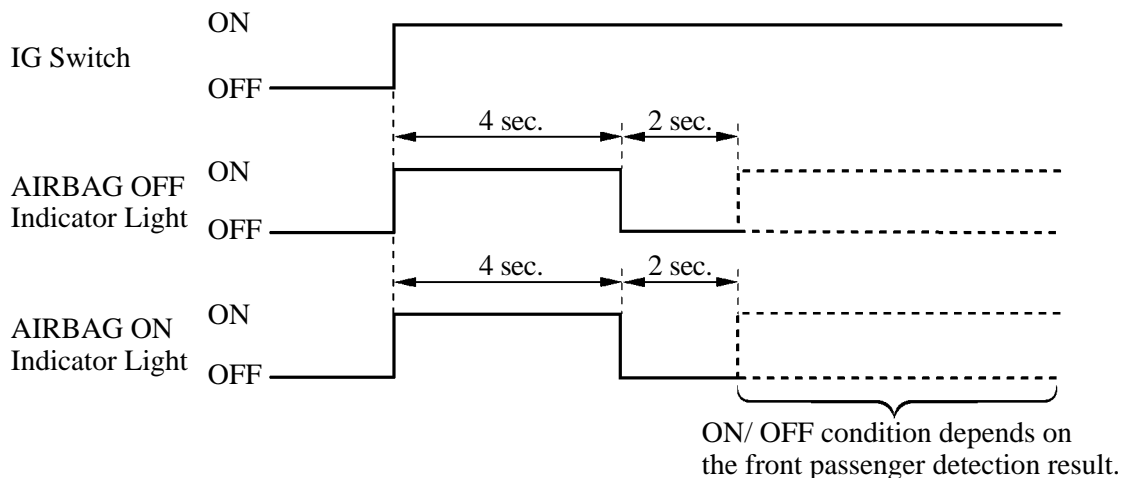
- When the judgment value is higher than criteria value “B”, the occupant classification ECU judges that the seat is being occupied by an adult.
- If the ignition switch is turned ON in this state, the system performs an initial check and illuminates the AIRBAG ON indicator light, indicating that the front passenger airbag and front passenger side airbag are active.



- After the occupant classification ECU judges that the occupant is an adult, if the judgment value is determined as criteria value “B” or less according to occupant load movement, the ECU continues adult judgment for approximately 10 seconds before switching to the child judgment.

### Initial Check

After the ignition switch is turned ON, the occupant classification ECU lights up the AIRBAG ON/OFF indicator lights via the airbag sensor assembly based on the timing chart below in order to check the indicator light circuits.



## 5. Precaution for Occupant Classification System Operation

To avoid potential death or serious injury when the front passenger occupant classification system does not detect the conditions correctly, observe the following.

- Wear the seat belt properly.
- Make sure the front passenger seat belt tab has not been left inserted into the buckle before someone sits in the front passenger seat.
- Make sure the AIRBAG ON indicator light is illuminated when using the seat belt extender for the front passenger seat. If the AIRBAG OFF indicator light is illuminated, disconnect the extender tongue from the seat belt buckle, then reconnect the seat belt. Reconnect the seat belt extender after making sure the AIRBAG ON indicator light is illuminated. If you use the seat belt extender while the AIRBAG OFF indicator light is illuminated, the front passenger airbag and front passenger side airbag may not activate correctly, which could cause death or serious injury in the event of collision.
- Do not put a heavy load in the front passenger seatback pocket or attach a seatback table to the front passenger seatback.
- Do not put weight on the front passenger seat by putting your hands or feet on the front passenger seatback from the rear passenger seat.
- Do not let a rear passenger lift the front passenger seat with his/her feet or press on the seatback with his/her legs.
- Do not put objects under the front passenger seat.
- Do not recline the front passenger seatback so far that it touches a rear seat. This may cause the AIRBAG OFF indicator light to be illuminated, which indicates that the front passenger airbags will not deploy in the event of a severe accident. If the seatback touches the rear seat, return the seatback to a position where it does not touch the rear seat.

Keep the front passenger seatback as upright as possible when the vehicle is moving. Reclining the seatback excessively may lessen the effectiveness of the seat belt system.
- Make sure the AIRBAG ON indicator light may be illuminated when an adult sits in the front passenger seat. If the AIRBAG OFF indicator light is illuminated, ask the passenger to sit properly with back upright and against the seat, with legs comfortably extended and wear the seat belt correctly. Nonetheless, if the AIRBAG OFF indicator light remains illuminated, let the passenger sit in the rear seat. When it is unavoidable to sit in the front passenger seat, ask the passenger to move the seat as far back as possible, remain properly seated.
- When it is unavoidable to install the forward-facing child restraint system on the front passenger seat, install the child restraint system on the front passenger seat in the proper order.
- Do not kick the front passenger seat or subject it to severe impact. Otherwise, the SRS warning light may come on to indicate a malfunction of the detection system.
- Child restraint systems installed on the rear seat should not contact the front seatbacks.

## ◀ EDR (EVENT DATA RECORDER)

Airbag sensor assembly that monitor and control certain aspects of vehicle.

These computers assist in driving and maintaining optimal vehicle performance.

Besides storing data useful for troubleshooting, there is a system to record data in a crash or a near car crash event.

This is called an Event Data Recorder (EDR).

The airbag sensor assembly contains the EDR.

In a crash or a near car crash event, this device may record some or all of the following information:

- ▶ Engine speed
- ▶ Whether the brake pedal was applied or not
- ▶ Vehicle speed
- ▶ To what extent the accelerator pedal was depressed
- ▶ Position of the transmission selector lever
- ▶ Whether the driver and front passenger wore the seat belts or not
- ▶ Driver's seat position
- ▶ SRS airbag deployment data
- ▶ SRS airbag system diagnostic data

The information above is intended to be used for the purpose of improving vehicle safety performance.

Unlike general data recorders, the EDR does not record sound data such as conversation between passengers.

Toyota will not disclose the data recorded in an EDR to a third party except when:

- ▶ An agreement from the vehicle's owner (or the leasing company for a leased vehicle) is obtained
- ▶ Officially requested by the police or other authorities
- ▶ Used as a defense for Toyota in a law suit
- ▶ Ordered by the court

However, if necessary Toyota will:

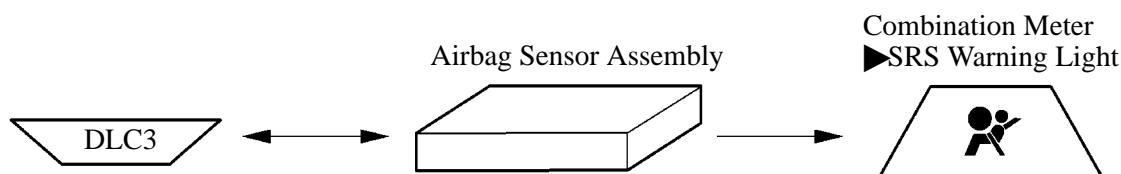
- ▶ Use the data for research on Toyota vehicle safety performance
- ▶ Disclose the data to a third party for research purposes without disclosing details of the vehicle owner, and only when it is deemed necessary
- ▶ Disclose summarized data cleared of vehicle identification information to a non-Toyota organization for research purposes

## ◀ DIAGNOSIS

### 1. General

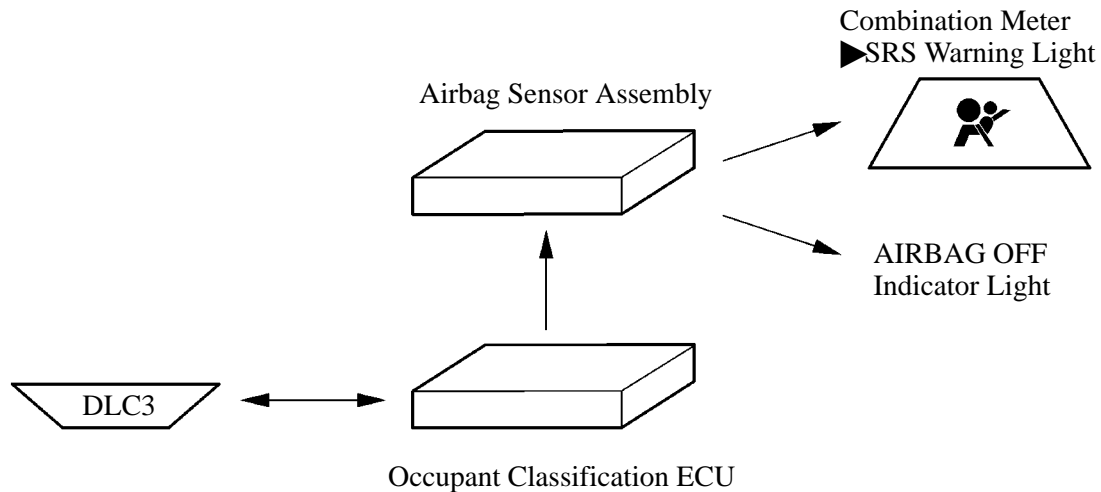
If the airbag sensor assembly detects a malfunction in the SRS airbag system, the airbag sensor assembly stores the malfunction data in memory, in addition to illuminating the SRS warning light.

- ▶ The airbag sensor assembly outputs malfunction data, 5-digit DTCs (Diagnostic Trouble Codes) or 2-digit DTCs, to the hand-held tester or the SRS warning light.



If the occupant classification ECU detects a malfunction in the occupant classification system, it stores the malfunction data in memory via the airbag sensor assembly, illuminating the SRS warning light and AIRBAG OFF indicator light.

► The occupant classification ECU outputs 5-digit DTCs to the hand-held tester.



273GX71

## 2. DTC of SRS Airbag System

There are 2 types of DTCs of the SRS airbag system: 5-digit and 2-digit.

- The 5-digit DTC can be read by connecting a hand-held tester to the DLC3 terminal.
- The 2-digit DTC can be read through the blinking of the SRS warning light with the SST (09843-18040) connected to the TC and CG terminals of the DLC3.
- If the SRS airbag deploys, the airbag sensor assembly will turn on the SRS warning light. However, it is different from the ordinary diagnosis function that a DTC will not be memorized. The SRS warning light can be turned off only by changing the airbag sensor assembly to a new one.

## 3. DTC of Occupant Classification System

There is only a 5-digit DTC for the occupant classification system.

- The 5-digit DTC can be read by connecting a hand-held tester to the DLC3 terminal.

For details, see the 2007 RAV4 Repair Manual (Pub. No. RM03T0U).

## AUDIO SYSTEM

### DESCRIPTION

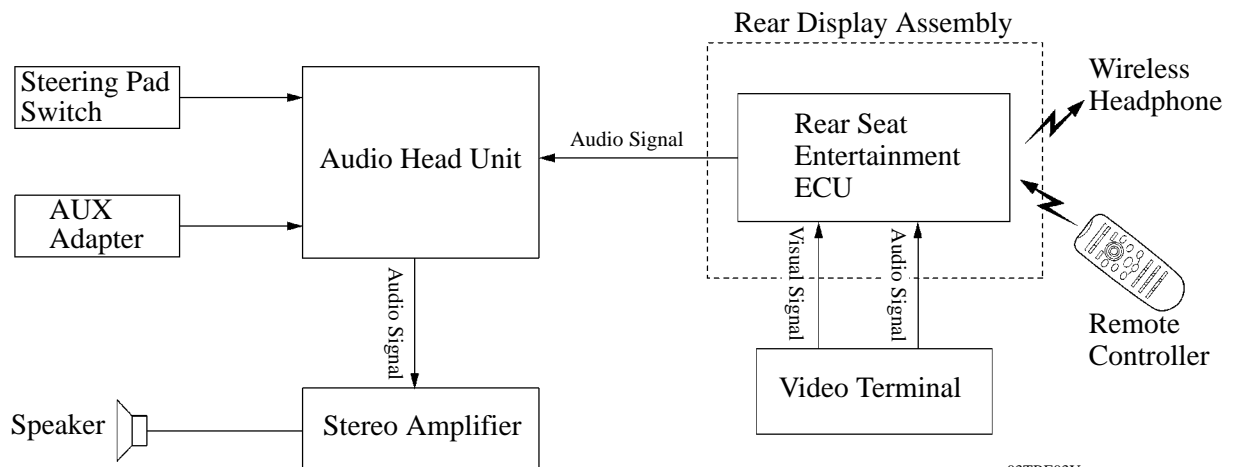
- The RSES (Rear Seat Entertainment System) is available as optional equipment on the Limited grade of 2GR-FE engine models.
- A Bluetooth hands-free system is available as optional equipment on the Limited and Sport grades.
- The VOICE, ON HOOK, and OFF HOOK switches are provided on the steering wheel for the models with the Bluetooth hands-free system.

### RSES (Rear Seat Entertainment System)

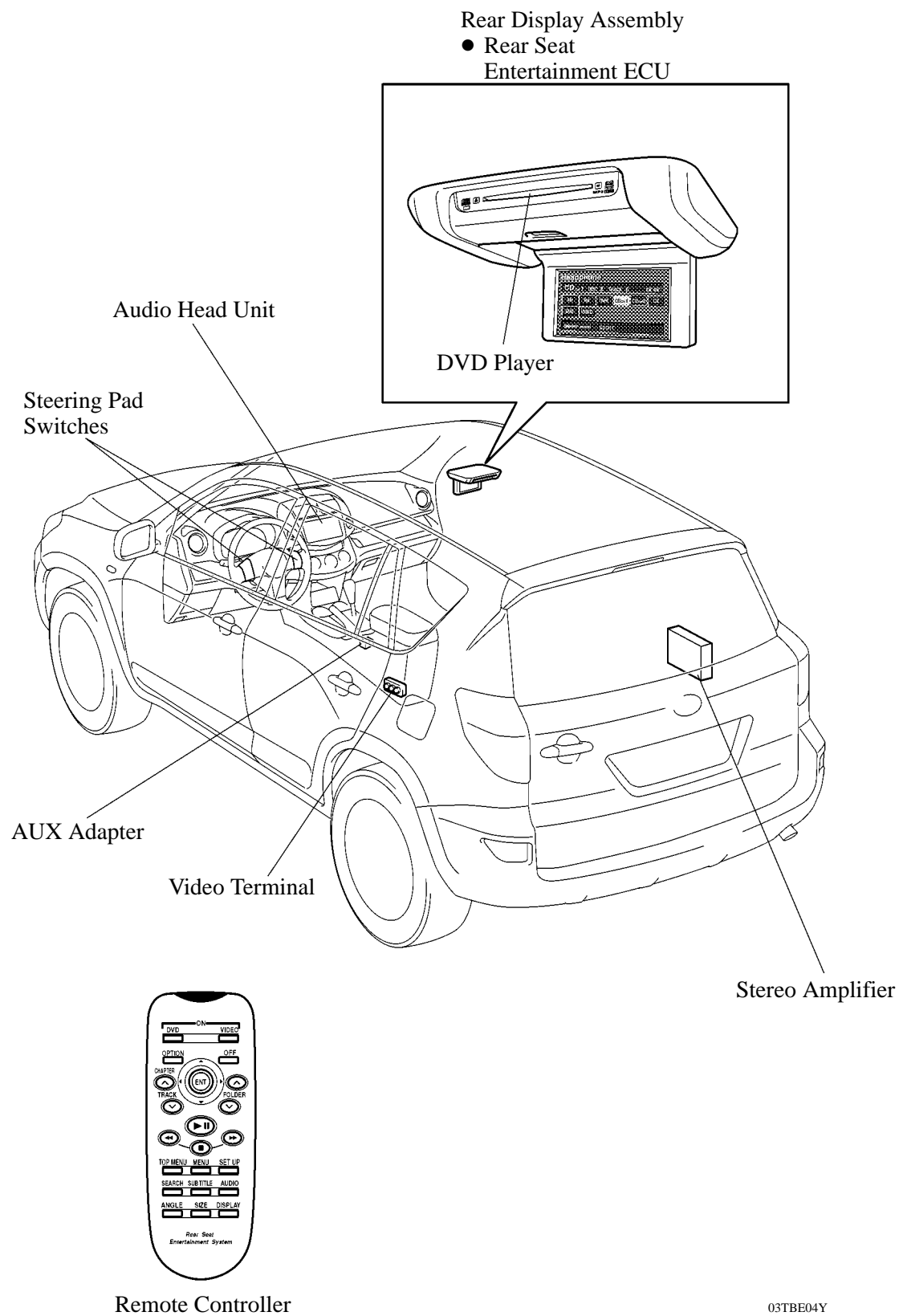
#### 1. General

- It uses a 9-inch rear display to provide impressive video images to the rear seat occupants.
- It supports the MP3 (MPEG Audio Layer-3) system.
- The maximum opening angle of the rear display is 125°, which dramatically increases the viewing range in the downward direction.
- The rear display can be set at any position. Thus, the users can set the rear display to a position that gives them the best view.
- When the RSES is ON, and the ignition switch is turned OFF, the RSES will also turn OFF. When the ignition switch is turned back ON, the RSES will automatically turn ON. At this time, the RSES can resume playing the video image from the point the ignition switch was turned OFF.
- A child lock function is provided to disable the operation of the RSES through the remote controller. This function is activated by turning ON the RSE LOCK at the audio head unit.
- The rear seat entertainment ECU is built into the rear display assembly.
- The RSES can be operated only through the remote controller.
- The RSES is controlled by the rear seat entertainment ECU.

#### 2. System Diagram



### 3. Layout of Main Components



#### 4. Function of Main Components

Component	Function
Rear Display Assembly	<ul style="list-style-type: none"><li>● Displays DVD and video images.</li><li>● Receives signals from the remote controller.</li><li>● Outputs audio signals to the wireless headphones in the form of infrared signals.</li><li>● Controls the distribution of the audio-visual mode to the front (audio head unit) and rear (RSES).</li><li>● Processes visual and audio signals from the DVD player and video player, and outputs them to the rear display assembly.</li><li>● Displays the audio-visual control screen.</li><li>● Displays the adjustment screen.</li><li>● Displays the diagnosis screen.</li><li>● The diagnosis screen appears when the diagnosis mode is started on the audio head unit. For details, see the 2007 RAV4 Repair Manual (Pub. No. RM03T0U).</li></ul>
Audio Head Unit	<ul style="list-style-type: none"><li>● Outputs audio signals to the stereo amplifier.</li><li>● Outputs a request to the rear display assembly to start the diagnosis mode.</li></ul>
Remote Controller	Outputs various control signals of the RSES to the rear display assembly in the form of infrared signals.
Wireless Headphone	<ul style="list-style-type: none"><li>● Receives the audio signals from the rear display assembly in the form of infrared signals.</li><li>● Volume adjustment of the wireless headphone can be done by using the volume switch equipped on the wireless headphone.</li></ul>
Video Terminal	This terminal is for connecting the video player's video and audio output terminals.



## ■ BLUETOOTH HANDS-FREE SYSTEM

### 1. Description

- Bluetooth is a short-distance, high-speed wireless data communication system that uses the 2.4GHz frequency band prescribed by the Bluetooth SIG (Special Interest Group).
- This system enables drivers to make or receive phone calls using a cellular phone without releasing their hands from the steering wheel.
- A Bluetooth hands-free system is available as optional equipment on the Limited and Sport grades.
- The Bluetooth hands-free system of the '07 RAV4 can be operated by turning or pressing the AUDIO CONTROL knob of the audio head unit.

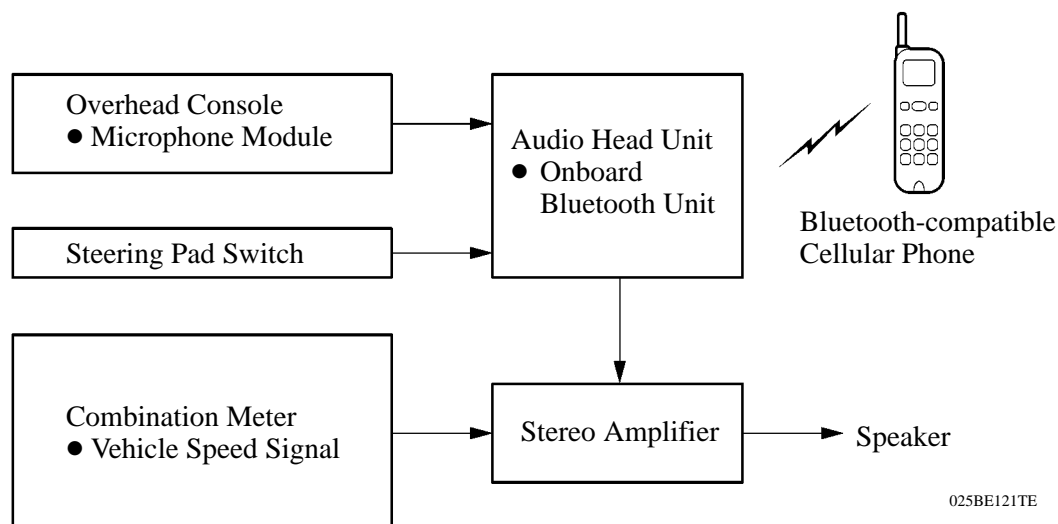


Bluetooth is a trademark owned by Bluetooth SIG, Inc.

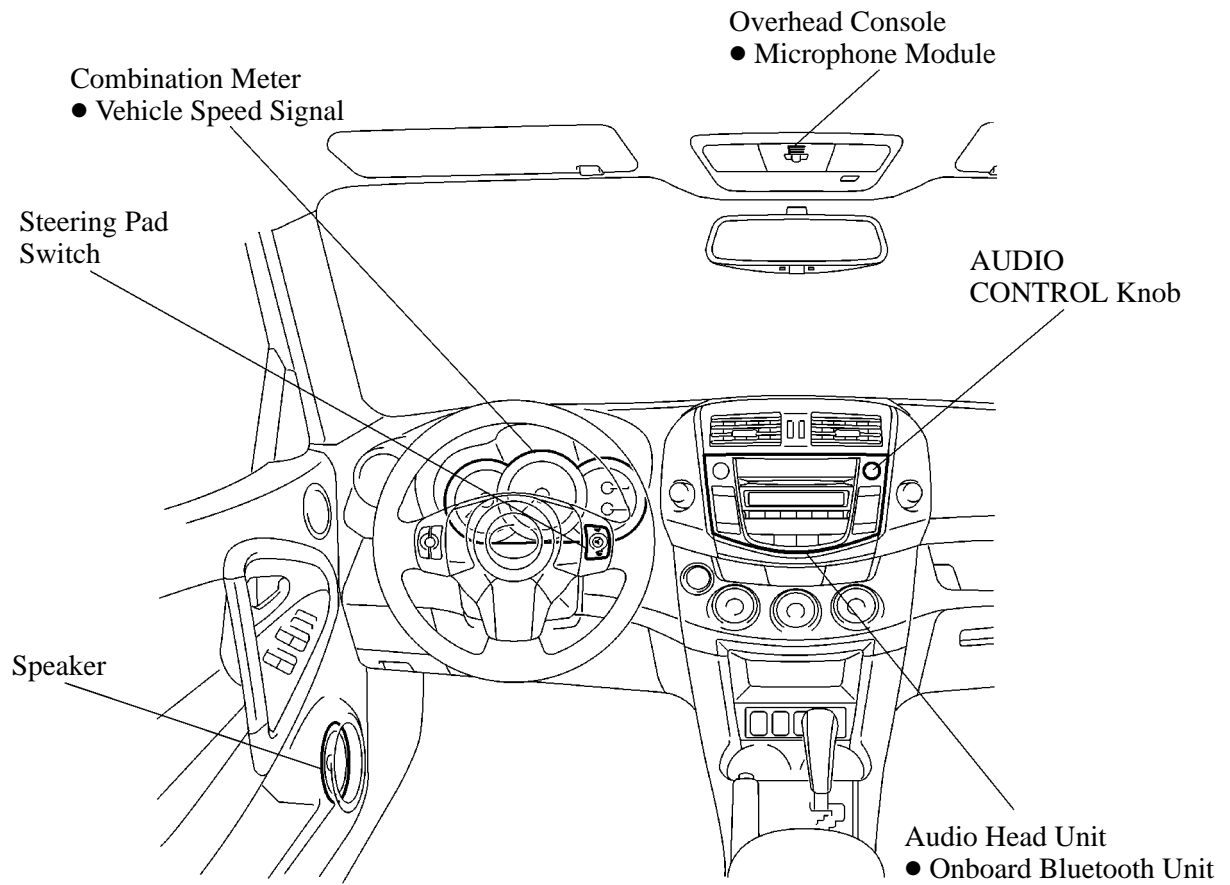
### ► Specifications ◀

Call with Bluetooth Phone	By Dial	—
	By Dialed Numbers	5
	By Received Calls	5
	By Phone Book	20
	By Voice Recognition	○
	By Speed Dial	○
	By POI (Point of Interest) Call	—
Registering Phonebook		20
Registering Voice Recognition		20
Registering Speed Dial		6
Registering Speed Tone		—
Registering Group		—
Automatic Volume Setting		○

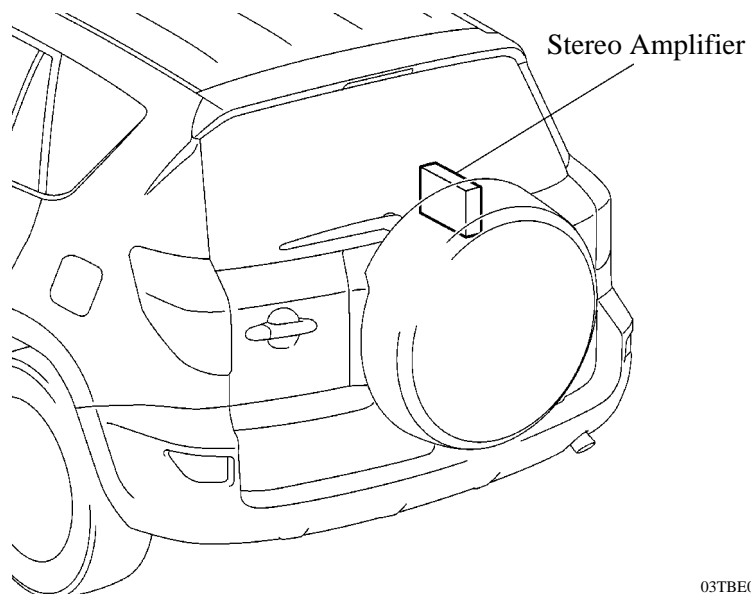
### ► System Diagram ◀



## 2. Layout of Main Components



03TBE01Y



03TBE02Y

### 3. Hands-free Functions

The Bluetooth hands-free system installed has the following functions. However, for safety, some functions may not be selectable when the vehicle is being driven.

Function		Outline
Call with Bluetooth Phone	By Phonebook	The user can call by using the phonebook data that have been transferred from the user's cellular phone.
	By Dialed Numbers	The user can call by selecting a previously dialed number (voice recognition is also available). The system remembers up to 5 dialed numbers. If more than 5 numbers have been dialed, the oldest number will no longer be remembered.
	By Received Calls	The user can call by selecting the telephone number of a received call (voice recognition is also available). When a call is received, the system will remember the last five numbers. If more than five calls have been received, the oldest number will no longer be remembered.
	By Speed Dial*	The user can call using the registered phone number by pressing the function buttons (1 to 6) of the audio head unit.
	By Voice Recognition (Dialing by Name)	The user can call by giving a name registered in the phonebook.
	By Voice Recognition (Dialing by Phone Number)	The user can call by giving a desired number.
Receive with Bluetooth Phone		When a call is received, the phone number or registered caller name is displayed on the audio head unit LCD with an audio signal.
Talk on Bluetooth Phone		While the user is talking on the phone, the phone number or registered caller name is displayed on the audio head unit LCD.
Change Settings of Bluetooth Phone	Setting Phonebook	Transferring a Telephone Number: The user can transfer the telephone numbers from the user's Bluetooth phone to the system.
		Registering Phone Number: The user can register phone numbers using the following methods. - Voice Recognition - Using Dialed Numbers and Received Calls - Inputting phone numbers using the control knob of the audio head unit Up to 20 data can be registered in the phonebook.
		Add Entry: The user can register voice recognition data for a maximum 20 registered phone numbers. The user can initialize the settings.
		Change Name: The user can change the registered voice recognition data.
		Delete Entry: The user can delete the registered their voice recognition data.
		Delete Speed Dial: The user can delete the speed dials registered to the function buttons (1 to 6) of the audio head unit.
		List Names: The user can change or delete the voice recognition data, or can call using certain voice recognition data by selecting that data while the system is reading it out.

\*: The user can operate it while driving.

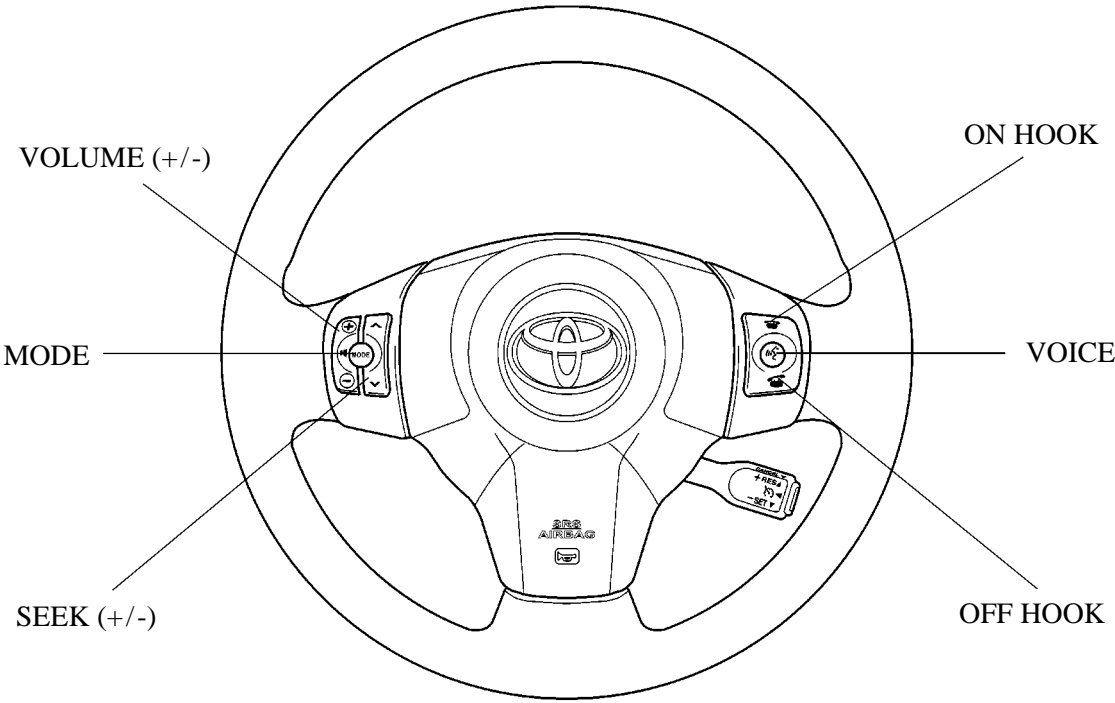
(Continued)

Function		Outline
Change Settings of Bluetooth Phone	Registering Speed Dial	The user can register a maximum of 6 speed dials to the function buttons (1 to 6) of the audio head unit by selecting the desired phone numbers from the voice recognition registration. The user can initialize the settings.
	Setting Volume	The user can set the volume.
		Automatic Volume Settings for High Speed: When the vehicle speed is over 80 km/h (50 mph), the volume automatically increases by 3 dB from the volume set by the user. When the vehicle speed decreases to 70 km/h (44 mph) or lower, the volume returns to the previous volume setting. The user can initialize the settings.
	Setting Security	By setting the security, the user can prevent people from using some functions of the hands-free system. It is useful when the user leaves their car with a hotel or valet parking or the user doesn't want others to see the data that the user has registered.
		Changing the Security Code: The security code is 4 digits. Choose a new code that is hard for other people to guess.
		Phone Book Lock: The user sets the phonebook lock.
		Initializing the Security Code: The user can initialize the settings.
Set a Bluetooth Phone	Enter Bluetooth Phone	In order to use hands-free function of a Bluetooth phone, it is necessary to register it in the audio head unit. Once a phone is registered, the hands-free function becomes available automatically. The user can register up to 6 Bluetooth phones from a maximum of 6 numbers.
	Select Bluetooth Phone	When two or more registered Bluetooth phones are in the cabin, it is necessary to select which phone to use to prevent the lines from being crossed. Only selected phone is available for use as a hands-free phone. The phone registered last is automatically selected.
	Indicate Bluetooth Information	The user can check the information of the Bluetooth phone on the audio head unit LCD.
	Change Passkey	The user can change the passkey on the audio head unit LCD.
	Deleting Bluetooth Phone	The user can delete the registered Bluetooth phone.

■ STEERING PAD SWITCH

- Steering pad switches are standard equipment on the Limited. The switches used frequently are located on the steering pad for easy use.
- The steering pad switches that are provided on the steering pad may vary depending on optional equipment, as indicated in the table below.

System	Switch	Equipment		
		Standard Grade	Limited Grade	Sport Grade
Audio	<ul style="list-style-type: none"><li>● VOLUME (+/-)</li><li>● AM/FM</li><li>● SEEK (+/-)</li></ul>	—	Standard	Option
Voice Recogning	VOICE	—	Option	Option
Telephone	<ul style="list-style-type: none"><li>● ON HOOK</li><li>● OFF HOOK</li></ul>	—	Option	Option



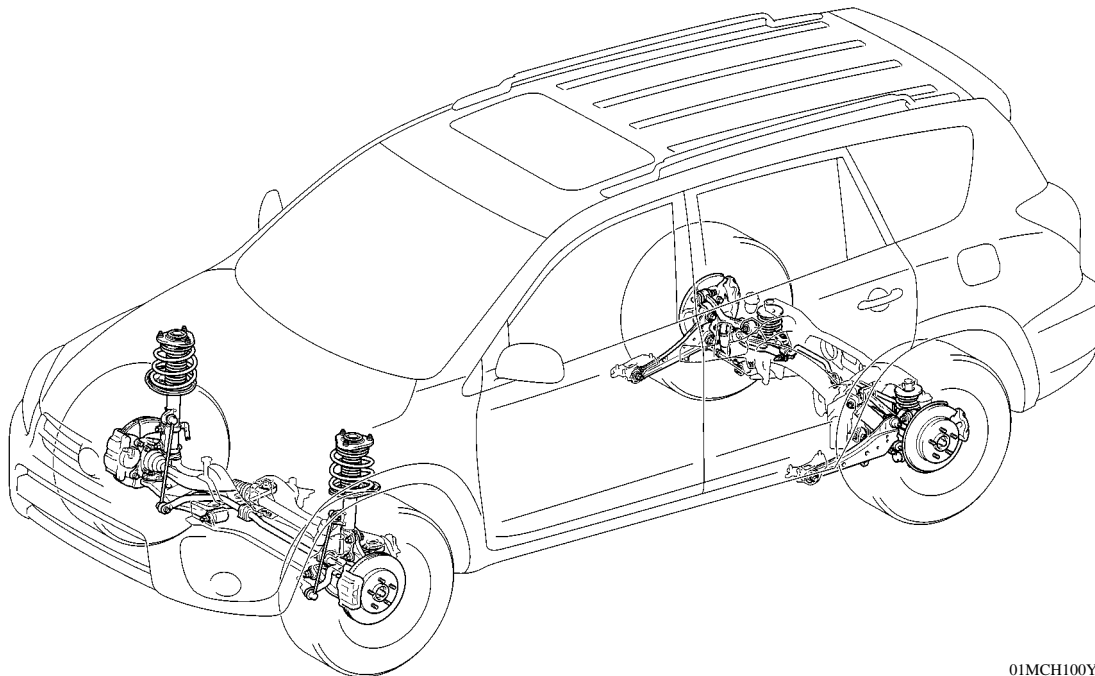
01NBE11Y

## SUSPENSION AND AXLE

### ■ SUSPENSION

#### 1. General

- For the front suspension, the MacPherson strut type suspension with L-shaped lower arms is used.
- For the rear suspension, the double-wishbone type suspension is used.



01MCH100Y

#### ► Specification ◀

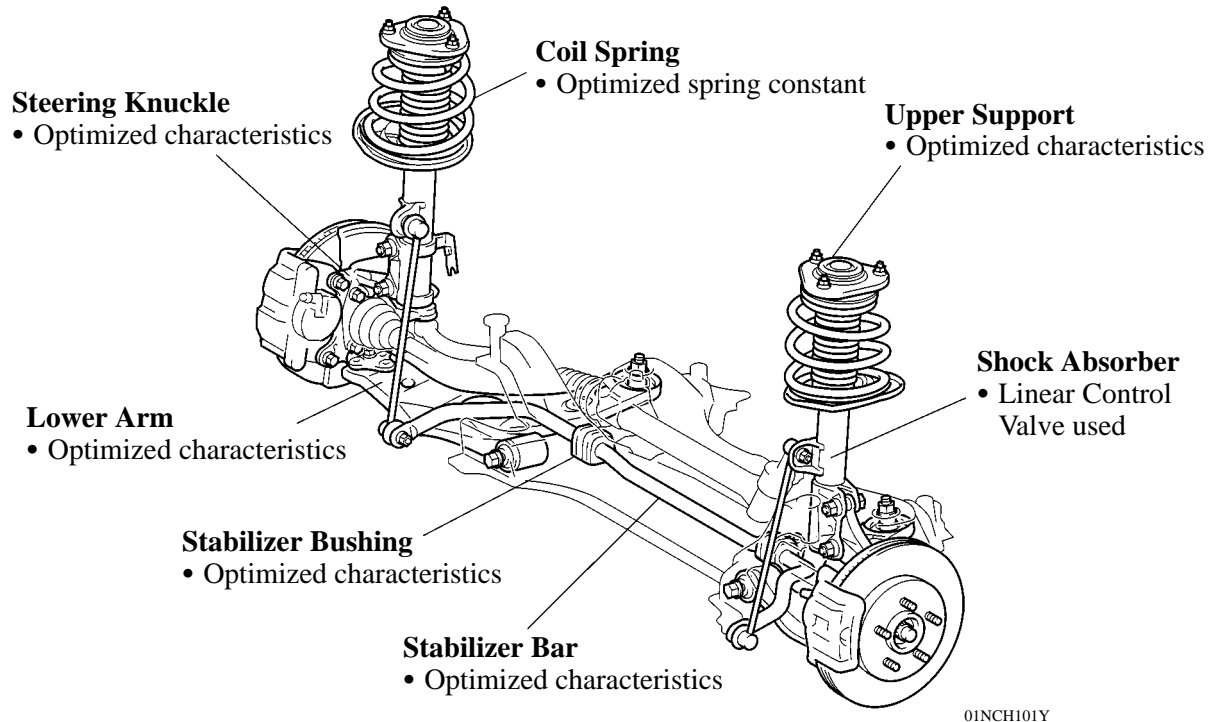
Destination		U.S.A./CANADA		
Model		Standard		With Rear No. 2 Seat
Tire Size		215/70R16	225/65R17 235/55R18	225/65R17
Front Wheel Alignment	Type	MacPherson Strut	←	←
	Tread* mm (in.)	1560 (61.42)	1560 (61.42)	1560 (61.42)
	Caster* degrees	5°43'	5°50'	5°37'
	Camber* degrees	-0°08'	-0°11'	-0°11'
	Toe-in* mm (in.)	1 (0.039)	←	←
	King Pin Inclination* degrees	11°16'	11°26'	11°26'
Rear Wheel Alignment	Type	Double-wishbone	←	←
	Tread* mm (in.)	1560 (61.42)	1560 (61.42)	1560 (61.42)
	Camber* degrees	-0°55'	-1°04'	-0°52'
	Toe-in* mm (in.)	2.3 (0.09)	←	←

\*: Unloaded Vehicle Condition

## 2. Front Suspension

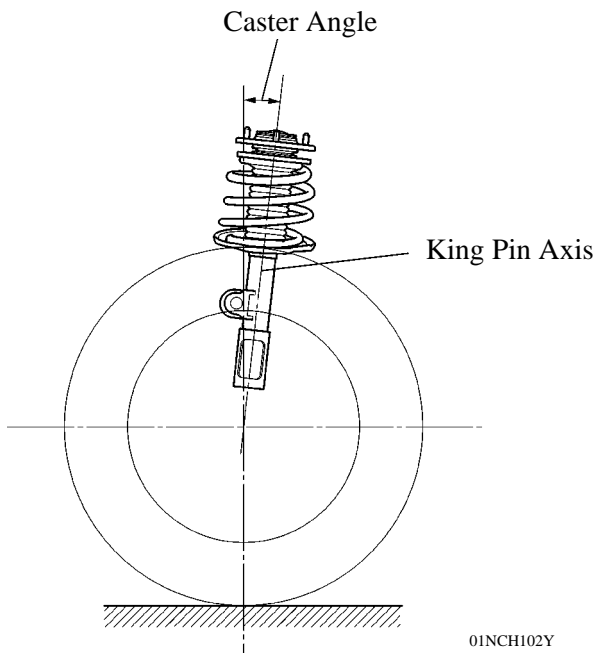
### General

- The highly rigid and compact MacPherson strut with L-shaped lower arms is used.
- Excellent driving stability and ride comfort have been realized by enlarging the wheelbase and tread and optimizing the suspension geometry.
- Excellent vehicle stability has been ensured by optimizing the rolling rigidity.



### Optimized Caster

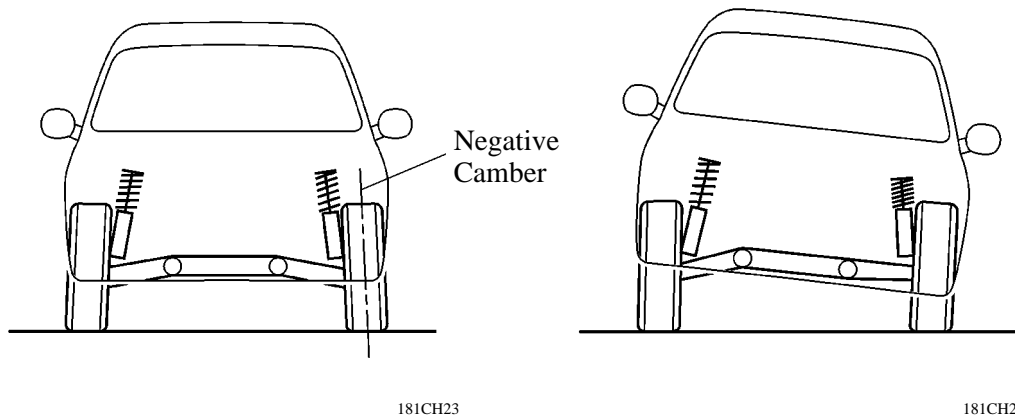
Optimum caster angle and trail value are featured to provide straight-line stability during low-speed to high-speed ranges and assist steering response during high speed.



## Optimized Camber

The front suspension adopts negative camber to reduce the ground contact camber angle of the outer wheel at the time of turning (cornering) which is caused when the vehicle posture changes during cornering, thus realizing excellent cornering performance.

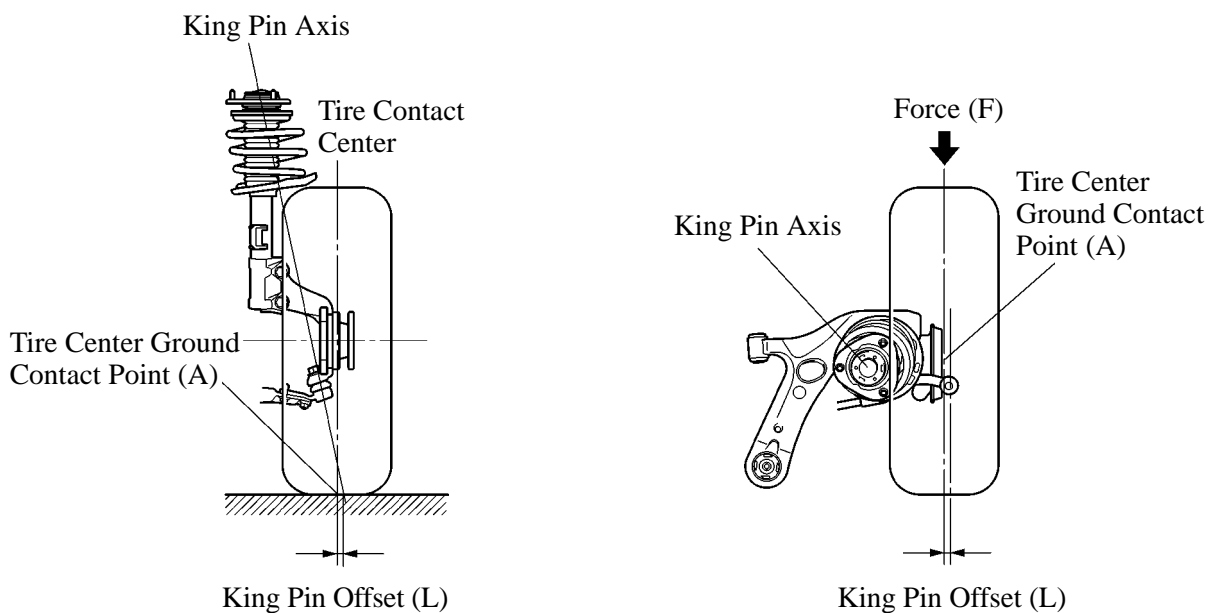
### ► During Cornering ◀



## Optimized King Pin Offset

A small king pin offset is used and the moment which occurs around the king pin axis is made small in order to realize excellent vehicle stability when braking.

When force (F) is applied to the wheel during braking etc., (F) is applied at the tire center ground contact point (A) and the king pin offset radius (L). The power of (F) multiplied by (L) tries to turn the king pin axis. In this way, making the king pin offset smaller produces smaller moment of the king pin axis to provide excellent vehicle stability during braking.



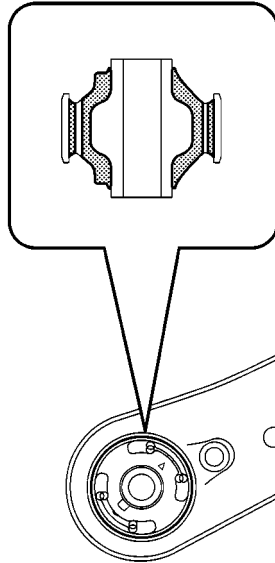


**Lower Arm**

- Closed cross section type lower arms that are lightweight and highly rigid are used.
- Along with the use of wider treads, the length of the lower arms has been extended.
- The installation point of the lower arm bushing and the bushing characteristics have been optimized to realize excellent ride comfort and steering characteristics.

**No. 2 Bushing: Outer Tube Adhesion Type**

Spring characteristics have been optimized through the bulge-shaped inner tube.

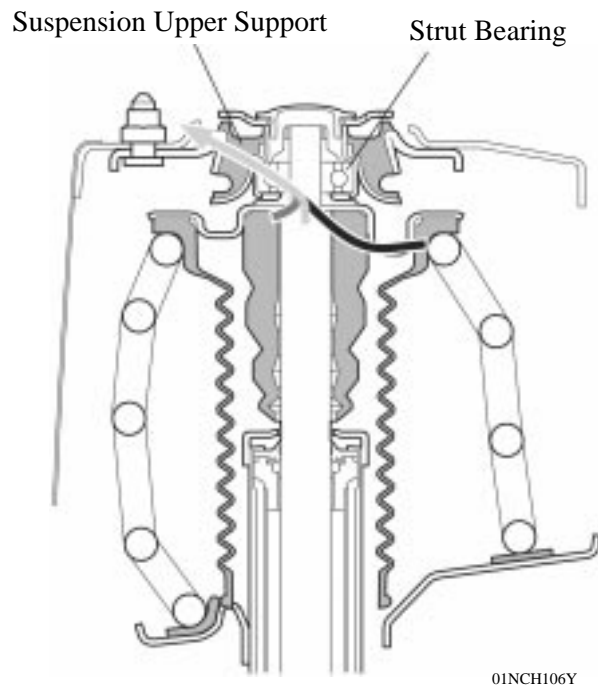
**No. 1 Bushing: without Outer Tube Type**

### Suspension Upper Support

- Except for the Standard grade of 2GR-FE engine models and the Sport grade, an integrated input construction type suspension upper support is used, in which the pitch of the mounting bolts has been increased and the characteristics have been optimized.
- On the Standard grade of 2GR-FE engine models and Sport grade, a separate input construction type suspension upper support is used. This construction transmits only the inputs from the shock absorber and the bound stopper via the suspension upper support to the body. Thus, it realizes superior quietness and ride comfort performance.

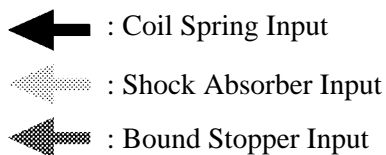
#### Integrated Input Construction Type:

Transmits all the inputs (from the shock absorber, bound stopper, and coil spring) from the strut bearing via the suspension upper support to the body.

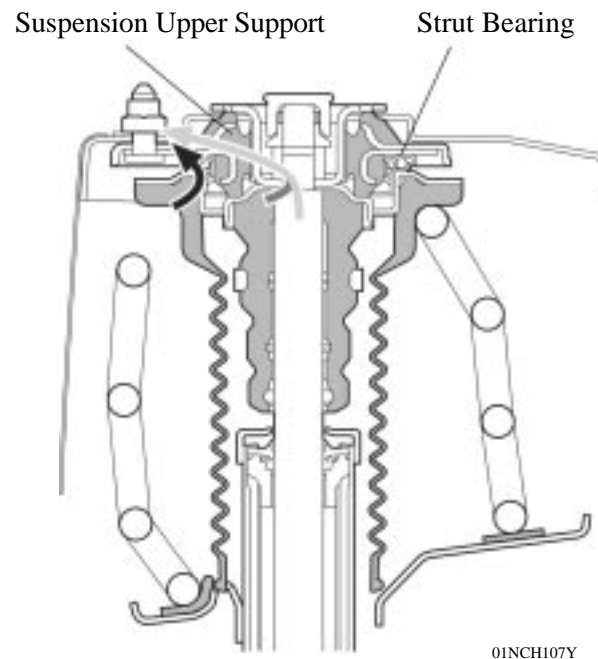


#### Separate Input Construction Type:

- Transmits the inputs from the shock absorber and bound stopper via the suspension upper support to the body.
- Transmits the input from the coil spring via the strut bearing to the body.

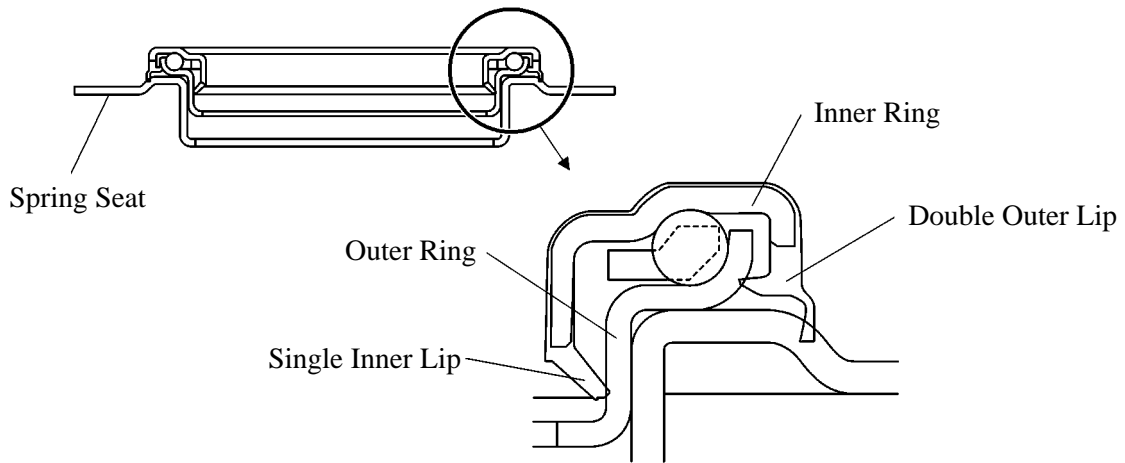


01NCH108Y



### Strut Bearing (for Separate Input Construction Type Suspension Upper Support)

- A thrust type ball bearing is used in the strut bearing.
- It is an oil seal integrated type with a double outer lip and a single inner lip.
- The spring seat is an integrated type that is pressed-fit into the strut bearing.



01NCH109Y

#### Service Tip

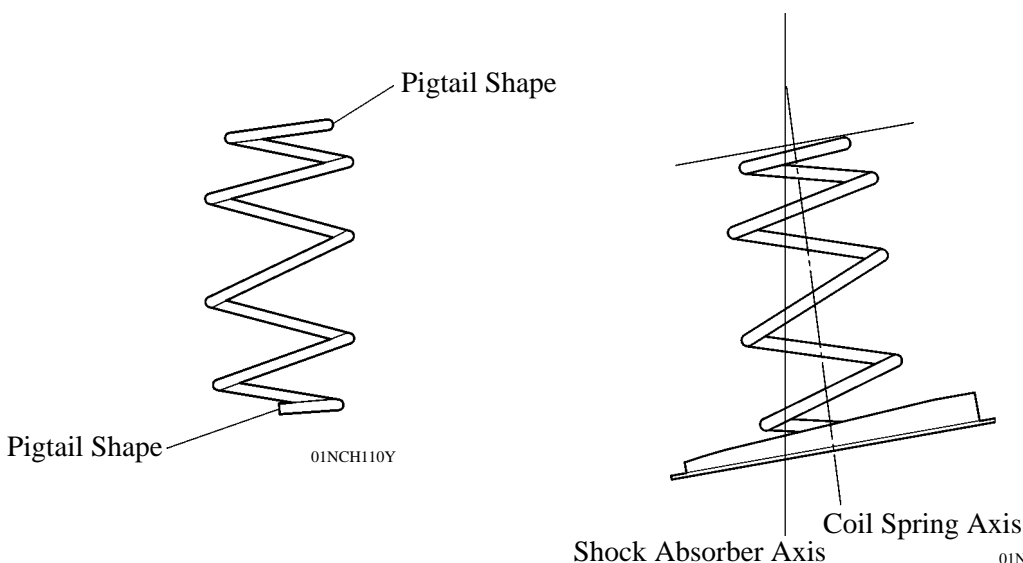
During the removal and installation of the strut bearing, the inner ring can be easily disengaged from the outer ring. Be careful not to disengage the rings. In case that the rings are disengaged, install a new strut bearing as it cannot be reused.

Be careful not to tilt the bearing when installing it with the suspension upper support.

For details on the diagnostic methods and diagnostic items, refer to the RAV4 Repair Manual (Pub No. RM03T0U).

### Coil Spring

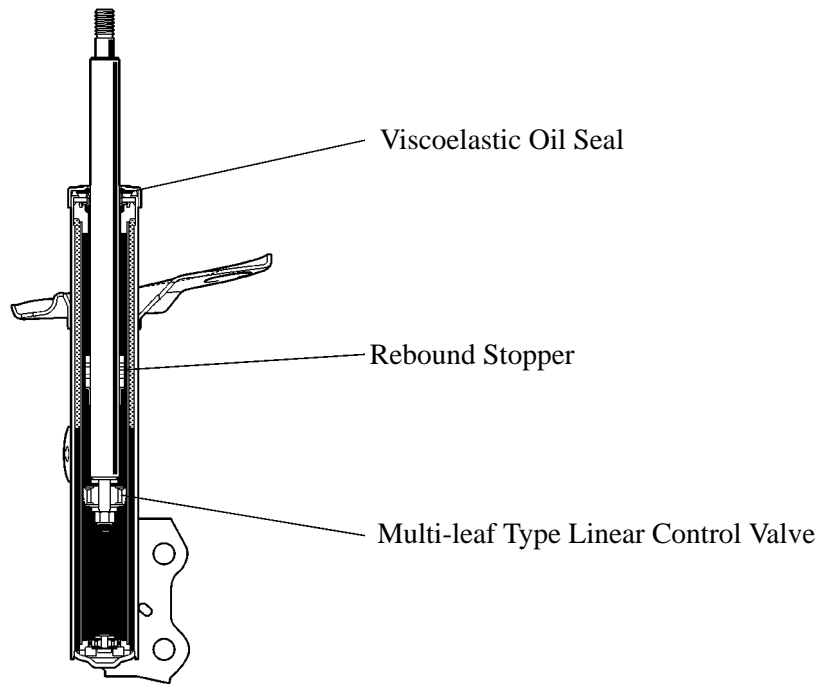
- Both ends of the coil spring are pigtail-shaped, and made compact and lightweight.
- The optimized shape of the spring and its installation position have reduced the lateral force that is applied to the shock absorber. Together with the smooth movement realized through reduced friction, excellent ride comfort and steering feel have been realized.



01NCH127Y

**Shock Absorber**

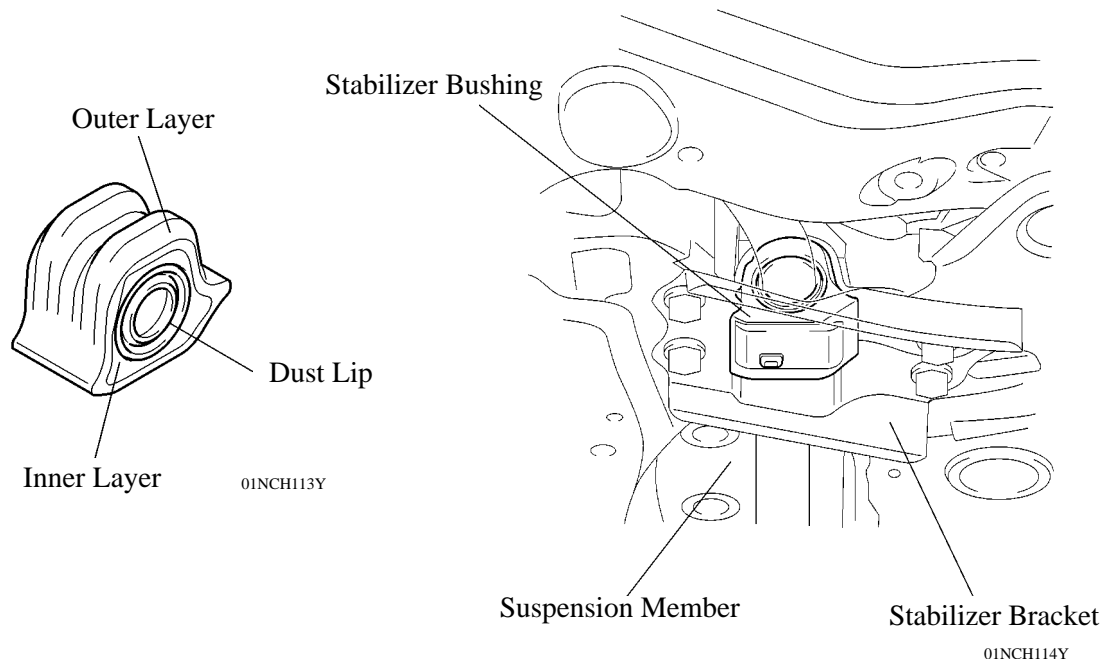
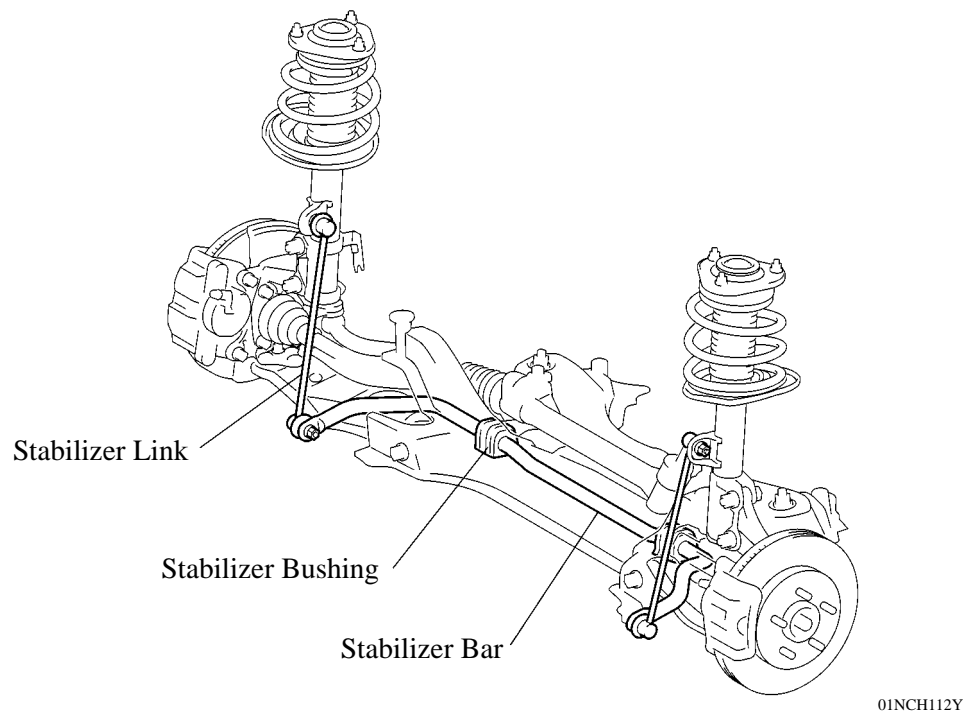
- The multi-leaf type linear control valve generates a smooth damping force characteristic to realize high-quality ride comfort.
- A viscoelastic oil seal is used and the hydraulic fluid has been optimized. These measures enable the shock absorber to generate damping force starting at an ultra-low speed range, and realize an excellent road holding feel and steering feel.
- The initial characteristic of the rebound stopper is set soft in order to ensure comfort when driving over a bump.



01NCH111Y

### Stabilizer Bar

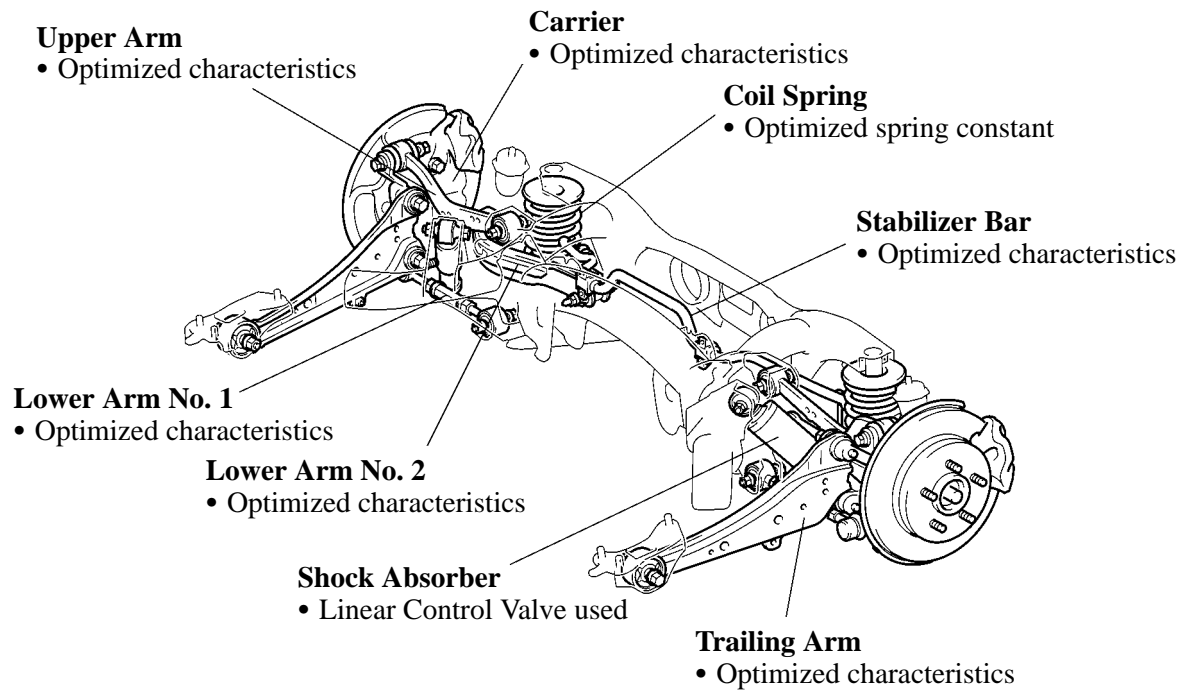
- The stabilizer bar is made of a hollow bar, reducing the weight. A ball joint is used between the stabilizer link and the stabilizer bar, and between the stabilizer link and the shock absorber. This helps reduce suspension friction and increase link rigidity. As a result, the ball joints perform effectively even for slight rolling and maintain stable roll feeling.
- The surface of the stabilizer bushing that is installed to the suspension member has a saddle shape. This construction, which is embedded into the cross section of the suspension member, ensures excellent support rigidity.
- The stabilizer bushing has a dual construction using the following materials: an outer layer made of highly rigid ordinary rubber, and an inner layer made of lowly rigid self-lubricating rubber. Thus, it realizes a high roll rigidity and ease of installation.
- The stabilizer bushing has been provided with a dust lip to prevent sand from entering.



### 3. Rear Suspension

#### General

- A double-wishbone type suspension is used to realize excellent driving stability and ride comfort.
- The shock absorbers have been placed under the floor and the coil springs have been placed low to realize a more spacious cargo area and a lower floor.
- The parts have been made compact and lightweight to reduce unsprung weight and improve road holding.
- The suspension geometry has been optimized to realize excellent driving stability and ride comfort.
- The rolling rigidity has been optimized to realize excellent vehicle stability.



2WD Model

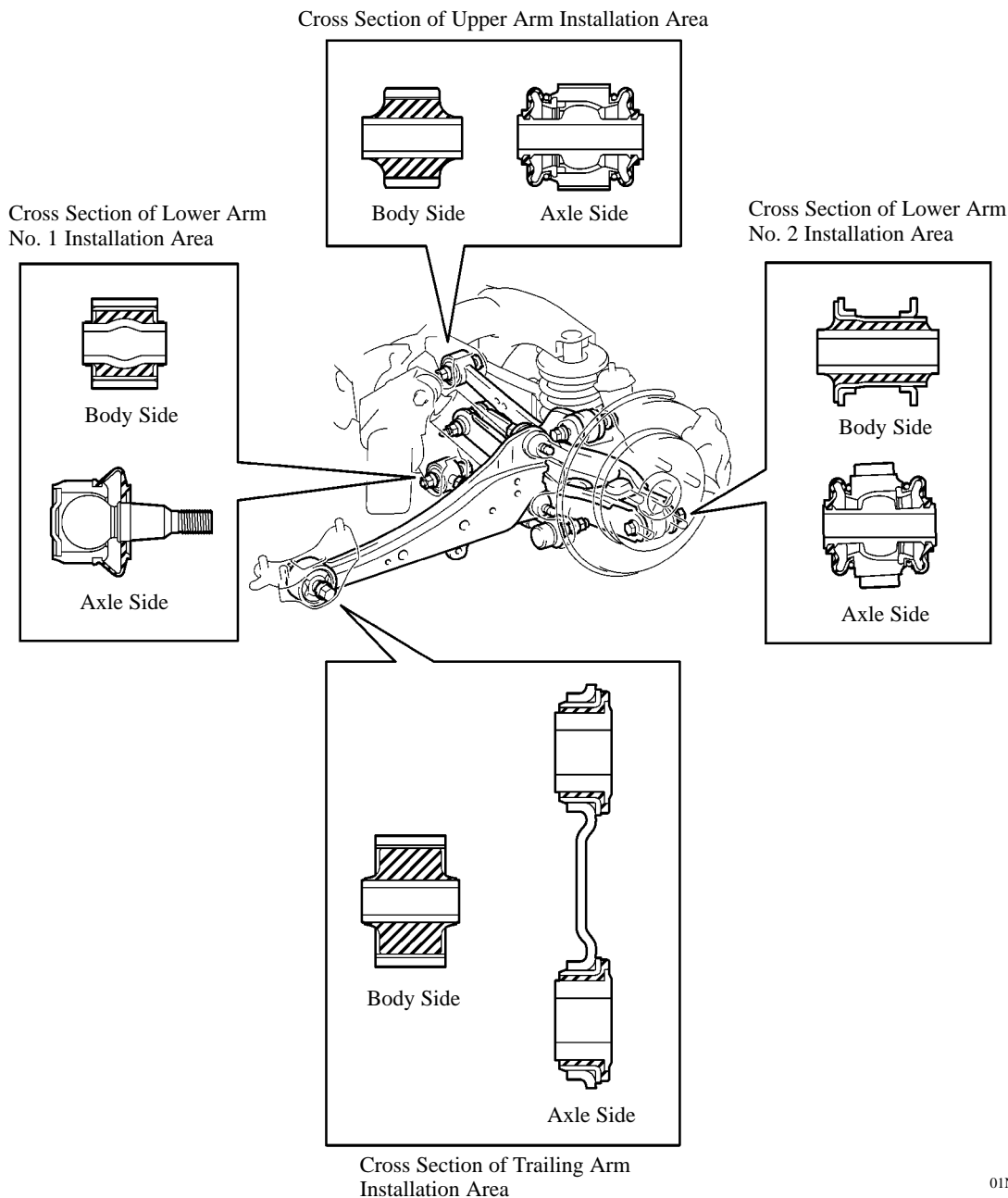
01NCH115Y

#### Optimized Camber

Both the initial camber and the camber change rate have been optimized to ensure excellent driving stability.

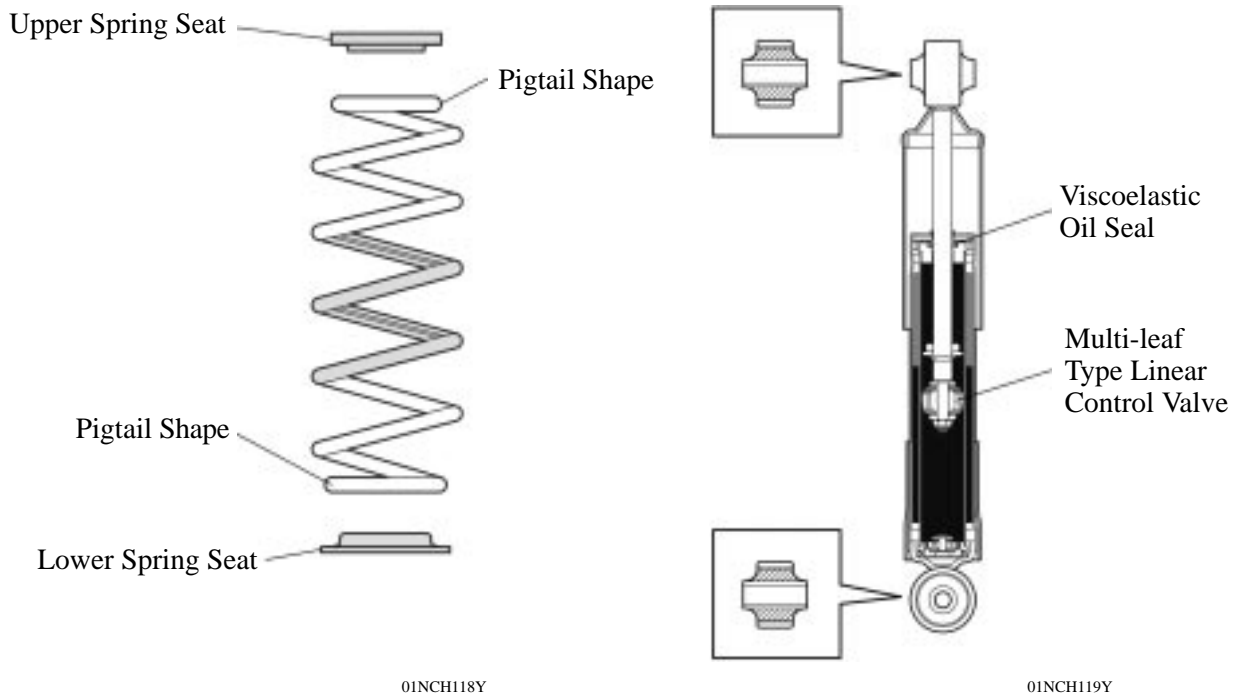
### Trailing Arm, Upper Arm, and Lower Arm

- The trailing arm, upper arm, and lower arm No. 2 are made of stamped high-strength sheet steel to realize a highly rigid and lightweight construction.
- The trailing arm uses a bushing with an outer tube in order to provide ample compliance to counter the longitudinal force, and realize excellent ride comfort.
- The upper arm, lower arm No. 1, and lower arm No. 2 use a bushing with an outer tube at their suspension member side, and a ball bushing at their axle side, to ensure a high level of support rigidity.



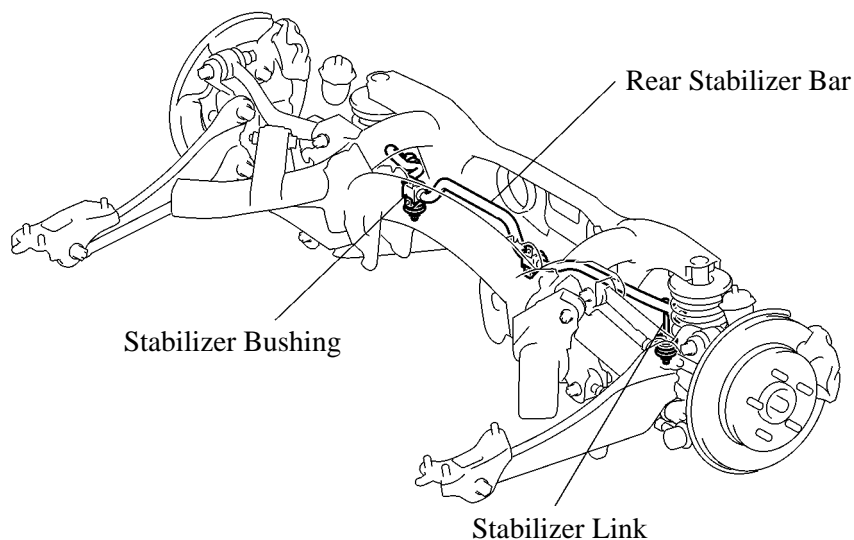
### Coil Spring and Shock Absorber

- Both ends of the coil spring are pigtail-shaped, and made compact and lightweight.
- The shape of the upper spring seat has been optimized and a new lower spring seat is used to ensure a high level of vibration isolation performance.
- The multi-leaf type linear control valve generates a smooth damping force characteristic to realize high-quality ride comfort.
- A viscoelastic oil seal is used and the hydraulic fluid has been optimized. These measures enable the shock absorber to generate damping force starting at an ultra-low speed range, and realize an excellent road holding feel and steering feel.



### Stabilizer Bar

- A highly rigid, solid type stabilizer bar is used.
  - A ball joint is used between the stabilizer link and the stabilizer bar. This helps reduce suspension friction and increase link rigidity.
- As a result, the ball joints perform effectively even for slight rolling and maintain stable roll feeling.



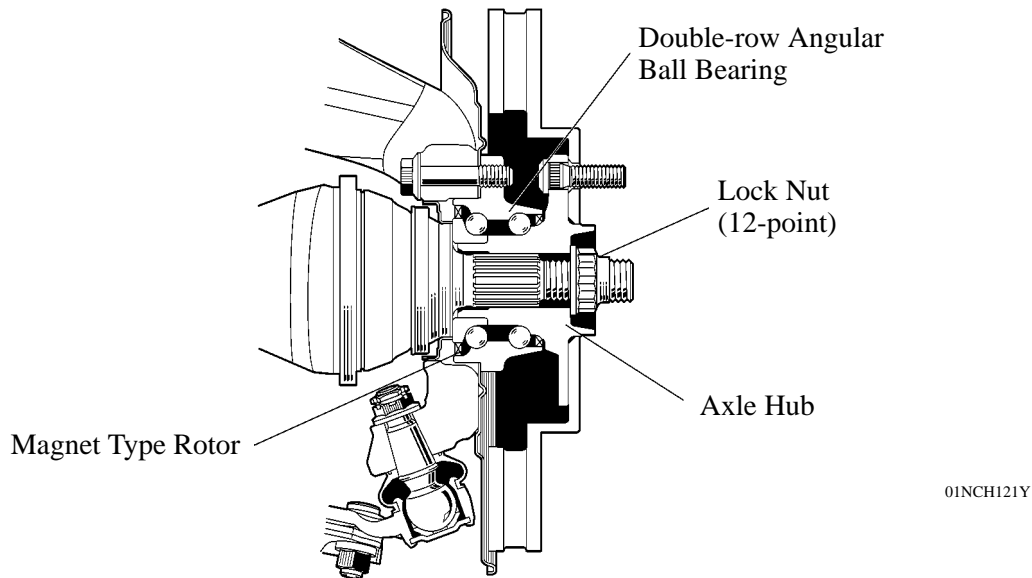
01NCH120Y



## AXLE

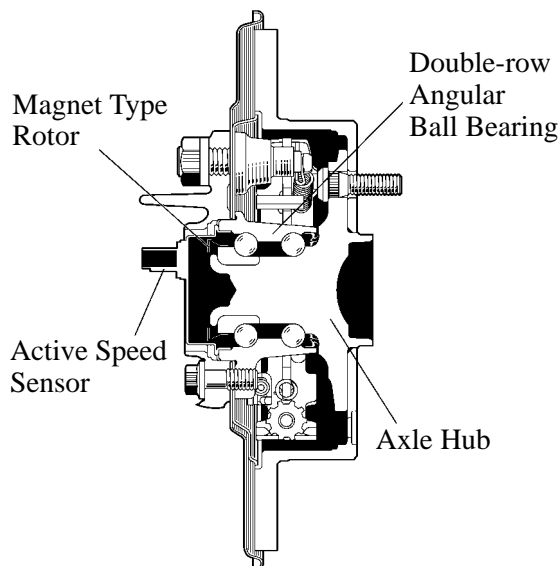
### 1. Front Axle

- ▶ Compact and highly rigid double-row angular ball bearings are used on the front axle. The double-row angular ball bearings and the axle hub have been integrated to ensure high rigidity, thus realizing excellent driving stability and braking stability.
- ▶ An active speed sensor, which is capable of detecting extremely low speeds, is used. The active speed sensor and the magnet type rotor are a built-in type.
- ▶ A 12-point lock nut is used and staked in order to ensure that the axle hub is properly tightened. Once removed, this nut cannot be reused.

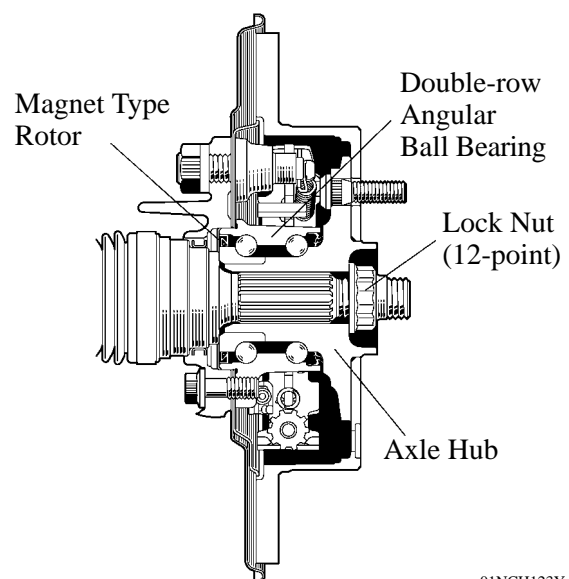


### 2. Rear Axle

- ▶ Compact and highly rigid double-row angular ball bearings are used on the rear axle. The bearings and the axle hub have been integrated to ensure high rigidity, thus realizing excellent driving and braking stability.
- ▶ An active speed sensor, which is capable of detecting extremely low speeds, is used. The active speed sensor and the magnet type rotor are a built-in type.
- ▶ A 12-point lock nut is used and staked in order to ensure that the axle hub is properly tightened. Once removed, this nut cannot be reused. (Only for the 4WD models)



2WD Models



4WD Models

## MAJOR TECHNICAL SPECIFICATIONS

Item				Area		U.S.A.								
Body Type						5-door Wagon								
Vehicle Grade						Standard (4WD)		Limited (4WD)		Sport (4WD)		Standard (2WD)		
Model Code						ACA33L-ANPXKA		ACA33L-ANPGKA		ACA33L-ANPSKA		ACA38L-ANPXKA		
Major Dimensions & Vehicle Weights	Overall	Length	mm (in.)	4570 (180.0)*2, 4575 (180.1)*3		4600 (181.1)		4580 (180.3)		4570 (180.0)*2, 4575 (180.1)*3		5		
		Width	mm (in.)	1815 (71.5)		1815 (71.5), 1855 (73.0)*4		1855 (73.0)		1815 (71.5)				
		Height*1	mm (in.)	1685 (66.3), 1745 (68.7)*5 1690 (66.5)*6, 1755 (69.1)*5,6		1745 (68.7), 1755 (69.1)*6		1745 (68.7)		1685 (66.3), 1745 (68.7)*5 1690 (66.5)*6, 1755 (69.1)*5,6				
	Wheel Base		mm (in.)		2660 (104.7)		2660 (104.7)		2660 (104.7)					
	Tread	Front	mm (in.)	1560 (61.4)		1560 (61.4)		1560 (61.4)		1560 (61.4)				
		Rear	mm (in.)	1560 (61.4)		1560 (61.4)		1560 (61.4)		1561 (61.4)		10		
	Effective Head Room	Front	mm (in.)	1037 (40.8)		1037 (40.8), 1002 (39.4)*7		1037 (40.8), 1002 (39.4)*7		1037 (40.8)				
		Rear	mm (in.)	1009 (39.7)		1009 (39.7)		1009 (39.7)		1009 (39.7)				
	Effective Leg Room	Front	mm (in.)	1075 (42.3)		1075 (42.3)		1075 (42.3)		1075 (42.3)				
		Rear	mm (in.)	940 (37.0)		940 (37.0)		940 (37.0)		940 (37.0)				
	Shoulder Room	Front	mm (in.)	1450 (57.1)		1450 (57.1)		1450 (57.1)		1450 (57.1)		15		
		Rear	mm (in.)	1405 (55.3)		1405 (55.3)		1405 (55.3)		1405 (55.3)				
	Overhang	Front	mm (in.)	855 (33.7)		855 (33.7)		855 (33.7)		855 (33.7)				
		Rear	mm (in.)	1085 (42.7)		1085 (42.7)		1085 (42.7)		1085 (42.7)				
	Min. Running Ground Clearance		mm (in.)		190 (7.5)		190 (7.5)		190 (7.5)		190 (7.5)			
	Angle of Approach		degrees		29		29		29		29		20	
	Angle of Departure		degrees		25		25		25		25			
	Curb Weight	Front	kg (lb)	892 (1967)		898 (1980)		903 (1991)		868 (1914)				
		Rear	kg (lb)	670 (1477)		695 (1532)		691 (1523)		629 (1387)				
		Total	kg (lb)	1562 (3444)		1593 (3512)		1594 (3514)		1497 (3300)				
	Gross Vehicle Weight	Front	kg (lb)	—		—		—		—		25		
		Rear	kg (lb)	—		—		—		—				
		Total	kg (lb)	2057 (4535) / 2207 (4865)*6		2057 (4535) / 2207 (4865)*6		2057 (4535) / -		2009 (4430) / 2145 (4730)*6				
	Fuel Tank Capacity		ℓ (US.gal., Imp.gal)		60 (13.2)		60 (13.2)		60 (13.2)		60 (13.2)			
	Luggage Compartment Capacity		m³ (cu.ft.)		—		—		—		—			
Performance	Max. Speed		km / h (mph)		185 (115)		185 (115)		185 (115)		190 (118)		30	
	Max. Cruising Speed		km / h (mph)		145 (90)		145 (90)		145 (90)		150 (93)			
	Acceleration	0 to 60 mph	sec.	10.2		10.2		10.2		10.0				
		0 to 400 m	sec.	—		—		—		—				
	Max. Permissible Speed	1st Gear	km / h (mph)	67 (41)		67 (41)		67 (41)		70 (43)		35		
		2nd Gear	km / h (mph)	120 (74)		120 (74)		120 (74)		126 (78)				
		3rd Gear	km / h (mph)	—		—		—		—				
		4th Gear	km / h (mph)	—		—		—		—				
	Turning Diameter (Outside Front)	Wall to Wall	m (ft.)	5.7 (18.7)		5.7 (18.7)		6.0 (19.7)		5.7 (18.7)				
		Curb to Curb	m (ft.)	5.3 (17.4)		5.3 (17.4)		5.6 (18.4)		5.3 (17.4)				
Engine	Engine Type				2AZ-FE		2AZ-FE		2AZ-FE		2AZ-FE		40	
	Valve Mechanism				16-valve, DOHC with VVT-i		16-valve, DOHC with VVT-i		16-valve, DOHC with VVT-i		16-valve, DOHC with VVT-i			
	Bore x Stroke		mm (in.)		88.5 x 96.0 (3.48 x 3.78)		88.5 x 96.0 (3.48 x 3.78)		88.5 x 96.0 (3.48 x 3.78)		88.5 x 96.0 (3.48 x 3.78)			
	Displacement		cm³ (cu.in.)		2362 (144.2)		2362 (144.2)		2362 (144.2)		2362 (144.2)			
	Compression Ratio				9.8 : 1		9.8 : 1		9.8 : 1		9.8 : 1			
	Fuel System				SFI		SFI		SFI		SFI		45	
	Octane Rating				87 or higher		87 or higher		87 or higher		87 or higher			
	Max. Output (SAE-NET)*8	kW / rpm (HP@rpm)	124 / 6000 (166@6000)		124 / 6000 (166@6000)		124 / 6000 (166@6000)		124 / 6000 (166@6000)		124 / 6000 (166@6000)			
	Max. Torque (SAE-NET)*8	N·m / rpm (lb-ft@rpm)	224 / 4000 (165@4000)		224 / 4000 (165@4000)		224 / 4000 (165@4000)		224 / 4000 (165@4000)		224 / 4000 (165@4000)			
Engine Electrical	Battery Capacity (5HR)	Voltage & Amp. hr.		12 - 55		12 - 55		12 - 55		12 - 55		50		
	Generator Output	Watts		1200		1200		1200		1200				
	Starter Output	kW		1.7		1.7		1.7		1.7				
Chassis	Clutch Type				—		—		—		—			
	Transaxle Type				U140F		U140F		U140F		U241E			
	Gear Ratio (Counter Gear Ratio Included)	In First			3.938		3.938		3.938		3.943		55	
		In Second			2.194		2.194		2.194		2.197			
		In Third			1.411		1.411		1.411		1.413			
		In Fourth			1.019		1.019		1.019		1.020			
		In Fifth			—		—		—		—			
		In Reverse			3.141		3.141		3.141		3.145			
	Differential Gear Ratio (Final)				3.080		3.080		3.080		2.923		60	
	Transfer / Rear Differential Gear Ratio				0.439 / 2.277		0.439 / 2.277		0.439 / 2.277		—			
	Rear Differential Gear Size		mm (in.)		135 (5.3)		135 (5.3)		135 (5.3)		—			
	Brake Type	Front			Ventilated Disc		Ventilated Disc		Ventilated Disc		Ventilated Disc			
		Rear			Solid Disc		Solid Disc		Solid Disc		Solid Disc			
	Parking Brake Type				Duo-servo Drum		Duo-servo Drum		Duo-servo Drum		Duo-servo Drum			
	Brake Booster Type and Size		in.		Single, 10"		Single, 10"		Single, 10"		Single, 10"		65	
	Proportioning Valve Type				—		—		—		—			
	Suspension Type	Front			MacPherson Strut		MacPherson Strut		MacPherson Strut		MacPherson Strut			
		Rear			Double Wishbone		Double Wishbone		Double Wishbone		Double Wishbone			
	Stabilizer Bar	Front			Standard		Standard		Standard		Standard		70	
		Rear			Standard		Standard		Standard		-, Option*6			
	Steering Gear Type				Rack and Pinion		Rack and Pinion		Rack and Pinion		Rack and Pinion			
	Steering Gear Ratio (Overall)				14.4		14.4		14.6		14.4			
	Power Steering Type				Electric Motor		Electric Motor		Electric Motor		Electric Motor			

\*1: Unladen Vehicle

\*3: With 225 / 65R17 Tire

\*2: With 215 / 70R16 Tire

\*4: With Over-fender

\*5: With Roof Rail

\*6: With Rear No. 2 Seat

\*7: With Sliding Roof

\*8: Maximum output and torque rating are determined by revised SAE J1349 standard.

U.S.A.					
5-door Wagon					
Limited (2WD)	Sport (2WD)	Standard (4WD)	Limited (4WD)	Sport (4WD)	Standard (2WD)
ACA38L-ANPGKA	ACA38L-ANPSKA	GSA33L-ANAXKA	GSA33L-ANAGKA	GSA33L-ANASKA	GSA38L-ANAXKA
5	4600 (181.1)	4580 (180.3)	4570 (180.0)*2, 4575 (180.1)*3	4600 (181.1)	4570 (180.0)*2, 4575 (180.1)*3
	1815 (71.5), 1855 (73.0)*4	1855 (73.0)	1815 (71.5)	1815 (71.5), 1855 (73.0)*4	1815 (71.5)
	1745 (68.7), 1755 (69.1)*6	1745 (68.7)	1685 (66.3), 1745 (68.7)*5 1690 (66.5)*6, 1755 (69.1)*5,6	1745 (68.7), 1755 (69.1)*6	1685 (66.3), 1745 (68.7)*5 1690 (66.5)*6, 1755 (69.1)*5,6
	2660 (104.7)	2660 (104.7)	2660 (104.7)	2660 (104.7)	2660 (104.7)
	1560 (61.4)	1560 (61.4)	1560 (61.4)	1560 (61.4)	1560 (61.4)
10	1560 (61.4)	1560 (61.4)	1560 (61.4)	1560 (61.4)	1560 (61.4)
	1037 (40.8), 1002 (39.4)*7	1037 (40.8), 1002 (39.4)*7	1037 (40.8)	1037 (40.8), 1002 (39.4)*7	1037 (40.8)
	1009 (39.7)	1009 (39.7)	1009 (39.7)	1009 (39.7)	1009 (39.7)
	1075 (42.3)	1075 (42.3)	1075 (42.3)	1075 (42.3)	1075 (42.3)
	940 (37.0)	940 (37.0)	940 (37.0)	940 (37.0)	940 (37.0)
15	1450 (57.1)	1450 (57.1)	1450 (57.1)	1450 (57.1)	1450 (57.1)
	1405 (55.3)	1405 (55.3)	1405 (55.3)	1405 (55.3)	1405 (55.3)
	855 (33.7)	855 (33.7)	855 (33.7)	855 (33.7)	855 (33.7)
	1085 (42.7)	1085 (42.7)	1085 (42.7)	1085 (42.7)	1085 (42.7)
	190 (7.5)	190 (7.5)	190 (7.5)	190 (7.5)	190 (7.5)
20	29	29	29	29	29
	25	25	25	25	25
	874 (1927)	879 (1938)	977 (2154)	976 (2152)	961 (2119)
	655 (1444)	651 (1435)	681 (1501)	691 (1523)	639 (1409)
	1529 (3371)	1530 (3373)	1658 (3655)	1667 (3675)	1668 (3677)
25	—	—	—	—	—
	—	—	—	—	—
	2009 (4430) / 2145 (4730)*6	2009 (4430) / -	2141 (4720) / 2275 (5015)*6	2141 (4720) / -	2087 (4600) / 2220 (4895)*6
	60 (13.2)	60 (13.2)	60 (13.2)	60 (13.2)	60 (13.2)
	—	—	—	—	—
30	190 (118)	190 (118)	210 (130)	210 (130)	210 (130)
	150 (93)	150 (93)	165 (102)	165 (102)	165 (102)
	10.0	10.0	6.7	6.7	6.9
	—	—	—	—	—
	70 (43)	70 (43)	63 (39)	63 (39)	63 (39)
35	126 (78)	126 (78)	113 (70)	113 (70)	113 (70)
	—	—	175 (109)	175 (109)	175 (109)
	—	—	—	—	—
	5.7 (18.7)	6.0 (19.7)	6.0 (19.7)	6.0 (19.7)	6.0 (19.7)
	5.3 (17.4)	5.6 (18.4)	5.6 (18.4)	5.6 (18.4)	5.6 (18.4)
40	2AZ-FE	2AZ-FE	2GR-FE	2GR-FE	2GR-FE
	16-valve, DOHC with VVT-i	16-valve, DOHC with VVT-i	24-valve, DOHC with Dual VVT-i	24-valve, DOHC with Dual VVT-i	24-valve, DOHC with Dual VVT-i
	88.5 x 96.0 (3.48 x 3.78)	88.5 x 96.0 (3.48 x 3.78)	94.0 x 83.0 (3.70 x 3.27)	94.0 x 83.0 (3.70 x 3.27)	94.0 x 83.0 (3.70 x 3.27)
	2362 (144.2)	2362 (144.2)	3456 (210.9)	3456 (210.9)	3456 (210.9)
	9.8 : 1	9.8 : 1	10.8 : 1	10.8 : 1	10.8 : 1
45	SFI	SFI	SFI	SFI	SFI
	87 or higher	87 or higher	91 or higher	91 or higher	91 or higher
	124 / 6000 (166@6000)	124 / 6000 (166@6000)	200 / 6200 (268 / 6200)	200 / 6200 (268 / 6200)	200 / 6200 (268 / 6200)
	224 / 4000 (165@4000)	224 / 4000 (165@4000)	336 / 4700 (248 / 4700)	336 / 4700 (248 / 4700)	336 / 4700 (248 / 4700)
	12 - 55	12 - 55	12 - 55	12 - 55	12 - 55
50	1200	1200	1200, 1800*9	1200, 1800*9	1200, 1800*9
	1.7	1.7	1.7	1.7	1.7
	—	—	—	—	—
	U241E	U241E	U151F	U151F	U151E
	3.943	3.943	4.235	4.235	4.235
55	2.197	2.197	2.360	2.360	2.360
	1.413	1.413	1.517	1.517	1.517
	1.020	1.020	1.047	1.047	1.047
	—	—	0.756	0.756	0.756
	3.145	3.145	3.378	3.378	3.378
60	2.923	2.923	3.080	3.080	3.080
	—	—	0.439 / 2.277	0.439 / 2.277	—
	—	—	135 (5.3)	135 (5.3)	—
	Ventilated Disc	Ventilated Disc	Ventilated Disc	Ventilated Disc	Ventilated Disc
	Solid Disc	Solid Disc	Solid Disc	Solid Disc	Solid Disc
65	Duo-servo Drum	Duo-servo Drum	Duo-servo Drum	Duo-servo Drum	Duo-servo Drum
	Single, 10"	Single, 10"	Single, 10"	Single, 10"	Single, 10"
	—	—	—	—	—
	MacPherson Strut	MacPherson Strut	MacPherson Strut	MacPherson Strut	MacPherson Strut
	Double Wishbone	Double Wishbone	Double Wishbone	Double Wishbone	Double Wishbone
70	Standard	Standard	Standard	Standard	Standard
	-, Option*6	—	Standard	Standard	Standard
	Rack and Pinion	Rack and Pinion	Rack and Pinion	Rack and Pinion	Rack and Pinion
	14.4	14.6	14.4	14.4	14.4
	Electric Motor	Electric Motor	Electric Motor	Electric Motor	Electric Motor

\*9. Option

Item				Area		U.S.A.		Canada				
Body Type				5-door Wagon								
Vehicle Grade				Limited (2WD)		Sport (2WD)		Standard (4WD)		Limited (4WD)		
Model Code				GSA38L-ANAGKA		GSA38L-ANASKA		ACA33L-ANPKKK		ACA33L-ANPGKK		
Major Dimensions & Vehicle Weights	Overall	Length	mm (in.)	4600 (181.1)		4580 (180.3)		4570 (180.0)*2, 4575 (180.1)*3		4600 (181.1)		
		Width	mm (in.)	1815 (71.5), 1855 (73.0)*4		1855 (73.0)		1815 (71.5)		1815 (71.5), 1855 (73.0)*4		
		Height*1	mm (in.)	1745 (68.7), 1755 (69.1)*6		1745 (68.7)		1685 (66.3), 1745 (68.7)*5 1690 (66.5)*6, 1755 (69.1)*5,6		1745 (68.7), 1755 (69.1)*6		
	Wheel Base		mm (in.)	2660 (104.7)		2660 (104.7)		2660 (104.7)		2660 (104.7)		
	Tread	Front	mm (in.)	1560 (61.4)		1560 (61.4)		1560 (61.4)		1560 (61.4)		
		Rear	mm (in.)	1560 (61.4)		1560 (61.4)		1560 (61.4)		1560 (61.4)		
	Effective Head Room	Front	mm (in.)	1037 (40.8), 1002 (39.4)*7		1037 (40.8), 1002 (39.4)*7		1037 (40.8)		1037 (40.8), 1002 (39.4)*7		
		Rear	mm (in.)	1009 (39.7)		1009 (39.7)		1009 (39.7)		1009 (39.7)		
	Effective Leg Room	Front	mm (in.)	1075 (42.3)		1075 (42.3)		1075 (42.3)		1075 (42.3)		
		Rear	mm (in.)	940 (37.0)		940 (37.0)		940 (37.0)		940 (37.0)		
	Shoulder Room	Front	mm (in.)	1450 (57.1)		1450 (57.1)		1450 (57.1)		1450 (57.1)		
		Rear	mm (in.)	1405 (55.3)		1405 (55.3)		1405 (55.3)		1405 (55.3)		
	Overhang	Front	mm (in.)	855 (33.7)		855 (33.7)		855 (33.7)		855 (33.7)		
		Rear	mm (in.)	1085 (42.7)		1085 (42.7)		1085 (42.7)		1085 (42.7)		
	Min. Running Ground Clearance			mm (in.)	190 (7.5)		190 (7.5)		190 (7.5)		190 (7.5)	
	Angle of Approach			degrees	29		29		29		29	
	Angle of Departure			degrees	25		25		25		25	
	Curb Weight	Front	kg (lb)	960 (2116)		964 (2125)		892 (1967)		898 (1980)		
		Rear	kg (lb)	649 (1431)		646 (1424)		670 (1477)		695 (1532)		
		Total	kg (lb)	1609 (3547)		1610 (3549)		1562 (3444)		1593 (3512)		
	Gross Vehicle Weight	Front	kg (lb)	—		—		—		—		
		Rear	kg (lb)	—		—		—		—		
		Total	kg (lb)	2087 (4600) / 2220 (4895)*6		2087 (4600) / -		2057 (4535) / 2207 (4865)*6		2057 (4535) / 2207 (4865)*6		
	Fuel Tank Capacity			ℓ (US.gal., Imp.gal)	60 (13.2)		60 (13.2)		60 (13.2)		60 (13.2)	
	Luggage Compartment Capacity			m <sup>3</sup> (cu.ft.)	—		—		—		—	
Performance	Max. Speed			km / h (mph)	210 (130)		210 (130)		185 (115)		185 (115)	
	Max. Cruising Speed			km / h (mph)	165 (102)		165 (102)		145 (90)		145 (90)	
	Acceleration	0 to 60 mph	sec.	6.9		6.9		10.2		10.2		
		0 to 400 m	sec.	—		—		—		—		
	Max. Permissible Speed	1st Gear	km / h (mph)	63 (39)		63 (39)		67 (41)		67 (41)		
		2nd Gear	km / h (mph)	113 (70)		113 (70)		120 (74)		120 (74)		
		3rd Gear	km / h (mph)	175 (109)		175 (109)		—		—		
		4th Gear	km / h (mph)	—		—		—		—		
	Turning Diameter (Outside Front)	Wall to Wall	m (ft.)	6.0 (19.7)		6.0 (19.7)		5.7 (18.7)		5.7 (18.7)		
		Curb to Curb	m (ft.)	5.6 (18.4)		5.6 (18.4)		5.3 (17.4)		5.3 (17.4)		
Engine	Engine Type			2GR-FE		2GR-FE		2AZ-FE		2AZ-FE		
	Valve Mechanism			24-valve, DOHC with Dual VVT-i		24-valve, DOHC with Dual VVT-i		16-valve, DOHC with VVT-i		16-valve, DOHC with VVT-i		
	Bore x Stroke			mm (in.)	94.0 x 83.0 (3.70 x 3.27)		94.0 x 83.0 (3.70 x 3.27)		88.5 x 96.0 (3.48 x 3.78)		88.5 x 96.0 (3.48 x 3.78)	
	Displacement			cm <sup>3</sup> (cu.in.)	3456 (210.9)		3456 (210.9)		2362 (144.2)		2362 (144.2)	
	Compression Ratio			10.8 : 1		10.8 : 1		9.8 : 1		9.8 : 1		
	Fuel System			SFI		SFI		SFI		SFI		
	Octane Rating			91 or higher		91 or higher		87 or higher		87 or higher		
	Max. Output (SAE-NET)*8			kW / rpm (HP@rpm)	200 / 6200 (268 / 6200)		200 / 6200 (268 / 6200)		124 / 6000 (166@6000)		124 / 6000 (166@6000)	
Engine Electrical	Max. Torque (SAE-NET)*8			N·m / rpm (lb-ft@rpm)	336 / 4700 (248 / 4700)		336 / 4700 (248 / 4700)		224 / 4000 (165@4000)		224 / 4000 (165@4000)	
	Battery Capacity (5HR)			Voltage & Amp. hr.	12 - 55		12 - 55		12 - 55		12 - 55	
	Generator Output			Watts	1200, 1800*9		1200, 1800*9		1200		1200	
Starter Output			kW	1.7		1.7		1.7		1.7		
Chassis	Clutch Type			—		—		—		—		
	Transaxle Type			U151E		U151E		U140F		U140F		
	Gear Ratio (Counter Gear Ratio Included)	In First		4.235		4.235		3.938		3.938		
		In Second		2.360		2.360		2.194		2.194		
		In Third		1.517		1.517		1.411		1.411		
		In Fourth		1.047		1.047		1.019		1.019		
		In Fifth		0.576		0.576		—		—		
		In Reverse		3.378		3.378		3.141		3.141		
	Differential Gear Ratio (Final)			3.080		3.080		3.080		3.080		
	Transfer / Rear Differential Gear Ratio			—		—		0.439 / 2.227		0.439 / 2.227		
	Rear Differential Gear Size			mm (in.)	—		—		135 (5.3)		135 (5.3)	
	Brake Type	Front		Ventilated Disc		Ventilated Disc		Ventilated Disc		Ventilated Disc		
		Rear		Solid Disc		Solid Disc		Solid Disc		Solid Disc		
	Parking Brake Type			Duo-servo Drum		Duo-servo Drum		Duo-servo Drum		Duo-servo Drum		
	Brake Booster Type and Size			in.	Single, 10"		Single, 10"		Single, 10"		Single, 10"	
	Proportioning Valve Type			—		—		—		—		
	Suspension Type	Front		MacPherson Strut		MacPherson Strut		MacPherson Strut		MacPherson Strut		
		Rear		Double Wishbone		Double Wishbone		Double Wishbone		Double Wishbone		
	Stabilizer Bar	Front		Standard		Standard		Standard		Standard		
		Rear		Standard		Standard		Standard		Standard		
Steering Gear Type			Rack and Pinion		Rack and Pinion		Rack and Pinion		Rack and Pinion			
Steering Gear Ratio (Overall)			14.4		14.6		14.4		14.4			
Power Steering Type			Electric Motor		Electric Motor		Electric Motor		Electric Motor			

\*1: Unladen Vehicle

\*3: With 225 / 65R17 Tire

\*2: With 215 / 70R16 Tire

\*4: With Over-fender

\*5: With Roof Rail

\*6: With Rear No. 2 Seat

\*7: With Sliding Roof

\*8: Maximum output and torque rating are determined by revised SAE J1349 standard.

Canada				
5-door Wagon				
	Sport (4WD)	Standard (4WD)	Limited (4WD)	Sport (4WD)
	ACA33L-ANPSKK	GSA33L-ANAXKK	GSA33L-ANAGKK	GSA33L-ANASKK
5	4580 (180.3)	4570 (180.0)*2, 4575 (180.1)*3	4600 (181.1)	4580 (180.3)
	1855 (73.0)	1815 (71.5)	1815 (71.5), 1855 (73.0)*4	1855 (73.0)
	1745 (68.7)	1685 (66.3), 1745 (68.7)*5 1690 (66.5)*6, 1755 (69.1)*5,6	1745 (68.7), 1755 (69.1)*6	1745 (68.7)
	2660 (104.7)	2660 (104.7)	2660 (104.7)	2660 (104.7)
10	1560 (61.4)	1560 (61.4)	1560 (61.4)	1560 (61.4)
	1560 (61.4)	1560 (61.4)	1560 (61.4)	1560 (61.4)
	1037 (40.8), 1002 (39.4)*7	1037 (40.8)	1037 (40.8), 1002 (39.4)*7	1037 (40.8), 1002 (39.4)*7
	1009 (39.7)	1009 (39.7)	1009 (39.7)	1009 (39.7)
15	1075 (42.3)	1075 (42.3)	1075 (42.3)	1075 (42.3)
	940 (37.0)	940 (37.0)	940 (37.0)	940 (37.0)
	1450 (57.1)	1450 (57.1)	1450 (57.1)	1450 (57.1)
	1405 (55.3)	1405 (55.3)	1405 (55.3)	1405 (55.3)
20	855 (33.7)	855 (33.7)	855 (33.7)	855 (33.7)
	1085 (42.7)	1085 (42.7)	1085 (42.7)	1085 (42.7)
	190 (7.5)	190 (7.5)	190 (7.5)	190 (7.5)
	29	29	29	29
25	25	25	25	25
	903 (1991)	977 (2154)	976 (2152)	981 (2163)
	691 (1523)	681 (1501)	691 (1523)	687 (1515)
	1594 (3514)	1658 (3655)	1667 (3675)	1668 (3677)
30	—	—	—	—
	—	—	—	—
	2057 (4535) / -	2141 (4720) / 2275 (5015)*6	2141 (4720) / 2275 (5015)*6	2141 (4720) / -
	60 (13.2)	60 (13.2)	60 (13.2)	60 (13.2)
35	—	—	—	—
	185 (115)	210 (130)	210 (130)	210 (130)
	145 (90)	165 (102)	165 (102)	165 (102)
	10.2	6.7	6.7	6.7
40	—	—	—	—
	67 (41)	63 (39)	63 (39)	63 (39)
	120 (74)	113 (70)	113 (70)	113 (70)
	—	175 (109)	175 (109)	175 (109)
45	—	—	—	—
	6.0 (19.7)	6.0 (19.7)	6.0 (19.7)	6.0 (19.7)
	5.6 (18.4)	5.6 (18.4)	5.6 (18.4)	5.6 (18.4)
	2AZ-FE	2GR-FE	2GR-FE	2GR-FE
50	16-valve, DOHC with VVT-i	24-valve, DOHC with Dual VVT-i	24-valve, DOHC with Dual VVT-i	24-valve, DOHC with Dual VVT-i
	88.5 x 96.0 (3.48 x 3.78)	94.0 x 83.0 (3.70 x 3.27)	94.0 x 83.0 (3.70 x 3.27)	94.0 x 83.0 (3.70 x 3.27)
	2362 (144.2)	3456 (210.9)	3456 (210.9)	3456 (210.9)
	9.8 : 1	10.8 : 1	10.8 : 1	10.8 : 1
55	SFI	SFI	SFI	SFI
	87 or higher	91 or higher	91 or higher	91 or higher
	124 / 6000 (166@6000)	200 / 6200 (268 / 6200)	200 / 6200 (268 / 6200)	200 / 6200 (268 / 6200)
	224 / 4000 (165@4000)	336 / 4700 (248 / 4700)	336 / 4700 (248 / 4700)	336 / 4700 (248 / 4700)
60	12 - 55	12 - 55	12 - 55	12 - 55
	1200	1200, 1800*9	1200, 1800*9	1200, 1800*9
	1.7	1.7	1.7	1.7
	—	—	—	—
65	U140F	U151F	U151F	U151F
	3.938	4.235	4.235	4.235
	2.194	2.360	2.360	2.360
	1.411	1.517	1.517	1.517
70	1.019	1.047	1.047	1.047
	—	0.576	0.576	0.576
	3.141	3.378	3.378	3.378
	3.080	3.080	3.080	3.080
75	0.439 / 2.227	0.439 / 2.227	0.439 / 2.227	0.439 / 2.227
	135 (5.3)	135 (5.3)	135 (5.3)	135 (5.3)
	Ventilated Disc	Ventilated Disc	Ventilated Disc	Ventilated Disc
	Solid Disc	Solid Disc	Solid Disc	Solid Disc
80	Duo-servo Drum	Duo-servo Drum	Duo-servo Drum	Duo-servo Drum
	Single, 10"	Single, 10"	Single, 10"	Single, 10"
	—	—	—	—
	MacPherson Strut	MacPherson Strut	MacPherson Strut	MacPherson Strut
85	Double Wishbone	Double Wishbone	Double Wishbone	Double Wishbone
	Standard	Standard	Standard	Standard
	Standard	Standard	Standard	Standard
	Rack and Pinion	Rack and Pinion	Rack and Pinion	Rack and Pinion
90	14.6	14.4	14.4	14.6
	Electric Motor	Electric Motor	Electric Motor	Electric Motor

\*9: Option