

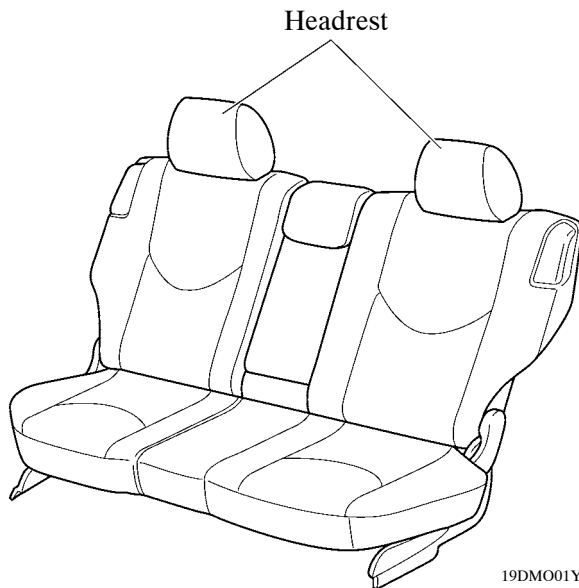
RAV4

OUTLINE OF NEW FEATURES

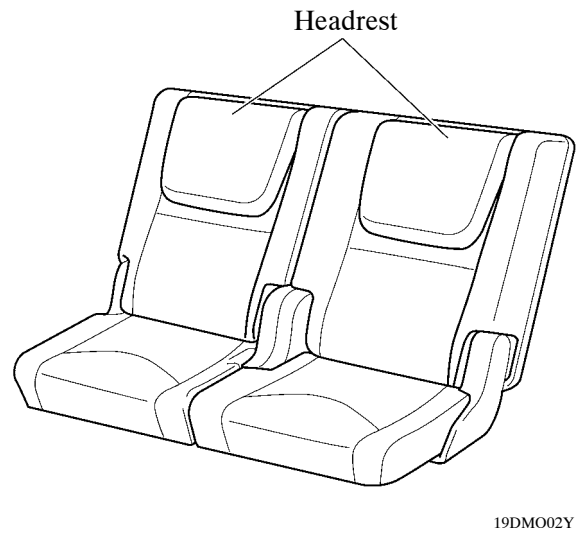
The following changes have been made for the 2012 model year.

1. Interior

- The design of the rear No. 1 seat headrests and rear No. 2 seat headrests has been changed as follows.



Rear No. 1 seat



Rear No. 2 seat

2. Air Conditioning

The PTC (Positive Temperature Coefficient) heater is provided on models with the 2AR-FE engine. For details, see page 4.

3. Navigation System with Multi Information System

The navigation system with multi information system is provided. For details, see page 11.

4. Audio System

A new audio head units are provided. For details, see page 24.

MODEL CODE

ASA33 L – A N P X K A
1
2
3
4
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7
8

1	BASIC MODEL CODE		
	CODE	DRIVE TYPE	ENGINE
	ASA33	4WD	2AR-FE
	ASA38	2WD	
	GSA33	4WD	2GR-FE
	GSA38	2WD	

2	STEERING WHEEL POSITION	
	L: Left-hand Drive	

3	MODEL NAME	
	A: RAV4 (Produced by TMC* ¹)	
	C: RAV4 (Produced by TMMC* ²)	

4	BODY TYPE	
	N: 5-door Wagon	

5	GEAR SHIFT TYPE	
	P: 4-speed Automatic, Floor	
	A: 5-speed Automatic, Floor	

6	GRADE	
	X: — (Standard)	
	G: Limited	
	S: Sport	

7	ENGINE SPECIFICATION	
	K: DOHC and SFI	

8	DESTINATION	
	A: U.S.A.	
	K: Canada	

*1: TMC: Toyota Motor Corporation

*2: TMMC: Toyota Motor Manufacturing Canada, Inc.

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.	2AR-FE	5-door Wagon	—	ASA38L- A(C)NPXKA	ASA33L- A(C)NPXKA	—	—
			Limited	ASA38L- A(C)NPGKA	ASA33L- A(C)NPGKA	—	—
			Sport	ASA38L- A(C)NPSKA	ASA33L- A(C)NPSKA	—	—
	2GR-FE		—	—	—	GSA38L- A(C)NAXKA	GSA33L- A(C)NAXKA
			Limited	—	—	GSA38L- A(C)NAGKA	GSA33L- A(C)NAGKA
			Sport	—	—	GSA38L- A(C)NASKA	GSA33L- A(C)NASKA
Canada	2AR-FE		—	—	ASA33L- A(C)NPXKK	—	—
				ASA38L- CNPXKK	—	—	—
			Limited	—	ASA33L- A(C)NPGKK	—	—
				ASA38L- CNPGKK	—	—	—
			Sport	—	ASA33L- A(C)NPSKK	—	—
				ASA38L- CNPSKK			
	2GR-FE		—	—	—	—	GSA33L- A(C)NAXKK
				—	—	GSA38L- CNAXKK	—
			Limited	—	—	—	GSA33L- A(C)NAGKK
				—	—	GSA38L- CNAGKK	—
			Sport	—	—	—	GSA33L- A(C)NASKK
				—	—	GSA38L- CNASKK	—

NEW FEATURES

■ AIR CONDITIONER

1. General

The 2012 models have an air conditioner system with the following equipments.

●: Standard —: Not Available

Grade		Standard/Sport	Limited
Air Conditioner	Manual	●	—
	Automatic	—	●
Heater	Standard	●*1	●*1
	Standard & PTC Heater	●*2	●*2

*1: Only for 2GR-FE Engine Models

*2: Only for 2AR-FE Engine Models

- The PTC (Positive Temperature Coefficient) heater system uses a PTC element to warm the air that passes through the heater core to ensure the proper heater performance.

► Specifications ◀

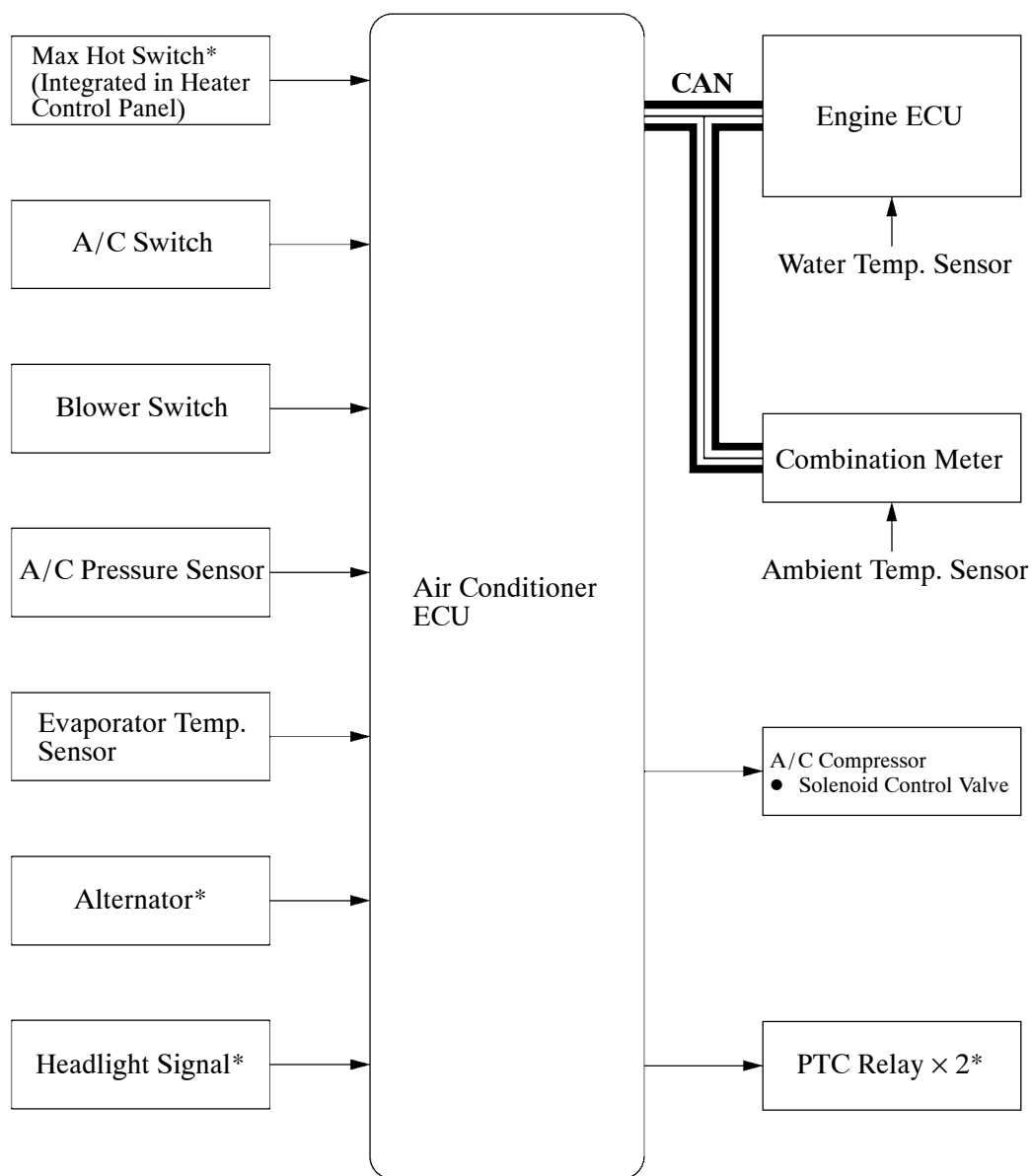
Ventilation and Heater Core	Heater Core	Type		SFA-II (Straight Flow Aluminum-II)	
		Size W × H × L mm (in.)		201.5 × 150 × 27 (7.9 × 5.9 × 1.1)	
		Fin Pitch mm (in.)		1.8 (0.07)	
	Blower	Motor Type		K70-10T/K70-9.5T* ¹	
		Fan Type		Semi Sirocco	
		Fan Size Dia. × H mm (in.)		155 × 70 (6.1 × 2.8)	
Air Conditioner	Condenser	Type		Multi-flow IV (Sub Cool)	
		Size W × H × L mm (in.)		415 × 680 × 16 (16.3 × 26.8 × 0.6)	
		Fin Pitch mm (in.)		2.75 (0.11)	
	Evaporator	Type		Revolutionary & Super Slim	
		Size W × H × L mm (in.)		241 × 226.1 × 38 (9.5 × 8.9 × 1.5)	
		Fin Pitch mm (in.)		3.0 (0.12)	
	Compressor	Type		5SE12	
		Pulley		Plastic DL (without Magnetic Clutch)	
	Refrigerant	Type		R134a	
		Charge Volume g		490 ± 30/450 ± 30* ²	
Clean Air Filter				High Efficiency	
Low Heat Source Countermeasure				● Partial Recirculation System ● PTC Heater* ²	

*1: Only for Automatic A/C Models

*2: Only for 2AR-FE Engine Models

2. System Diagram

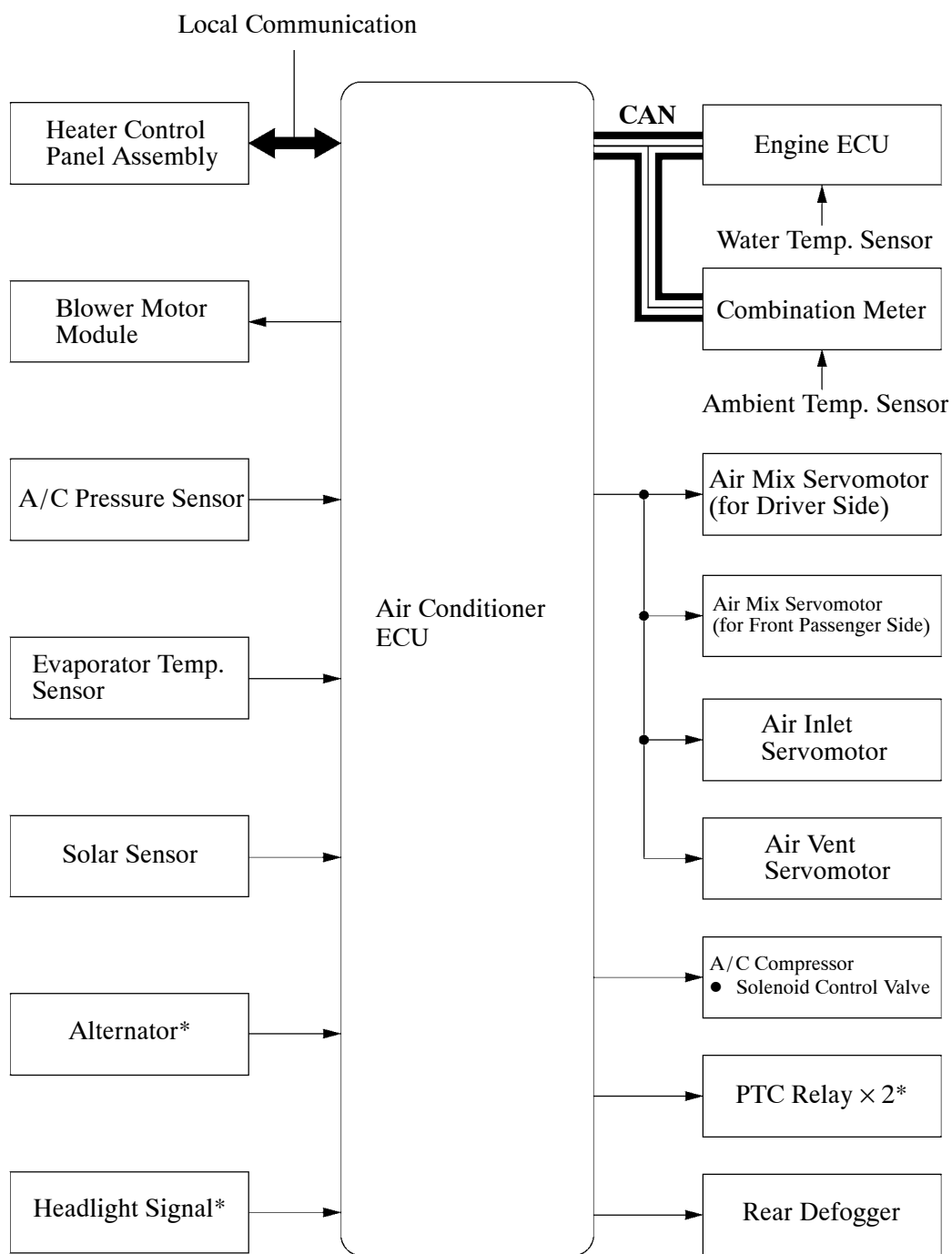
► Manual Air Conditioner ◀



01NBE26Y

*: Only for Models with PTC Heater

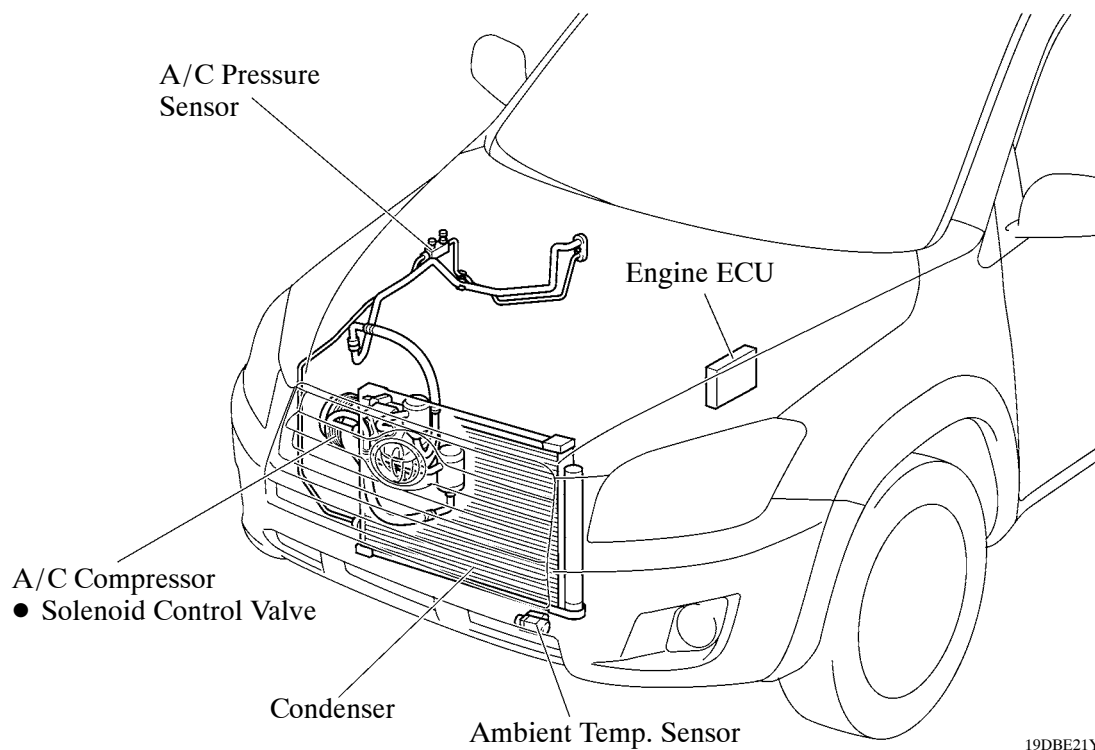
► Automatic Air Conditioner ◀



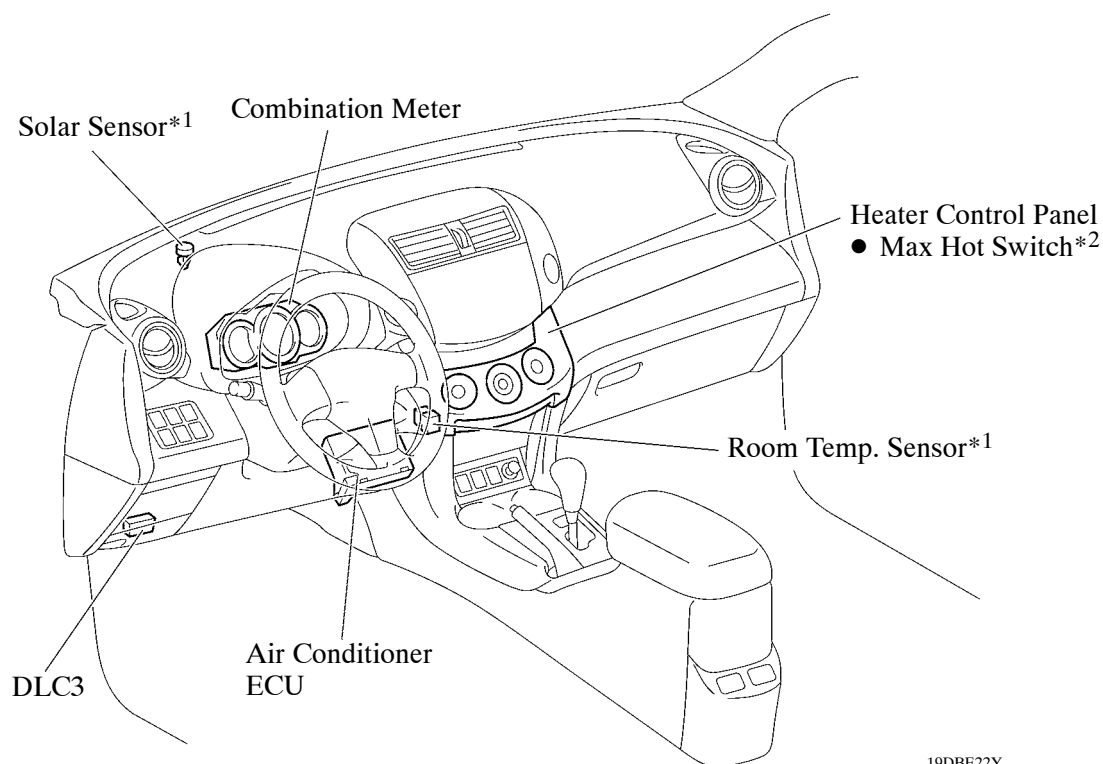
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*: Only for Models with PTC Heater

3. Layout of Main Components

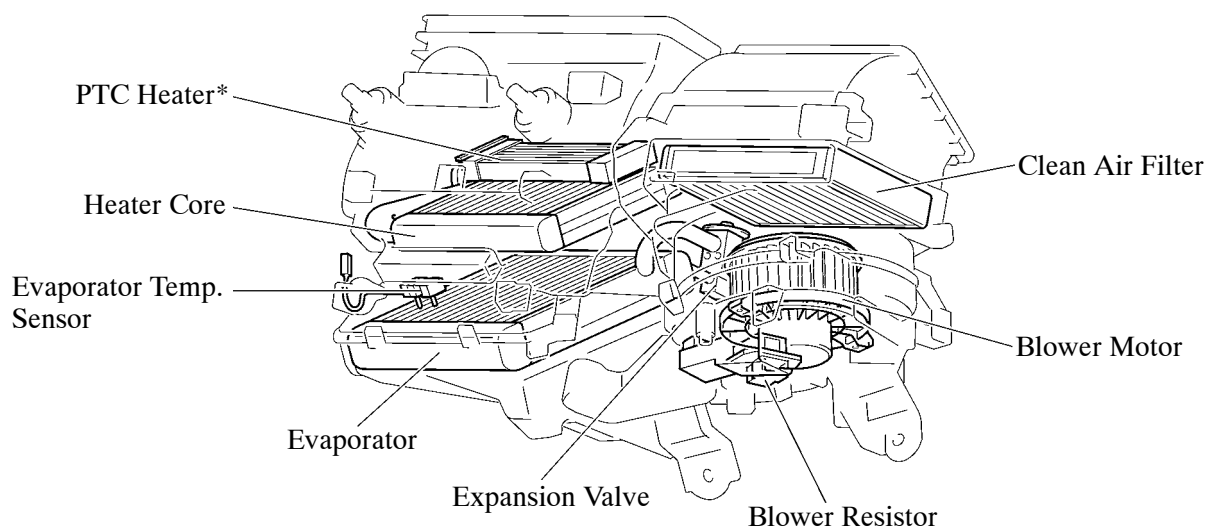


With Air Conditioner Models

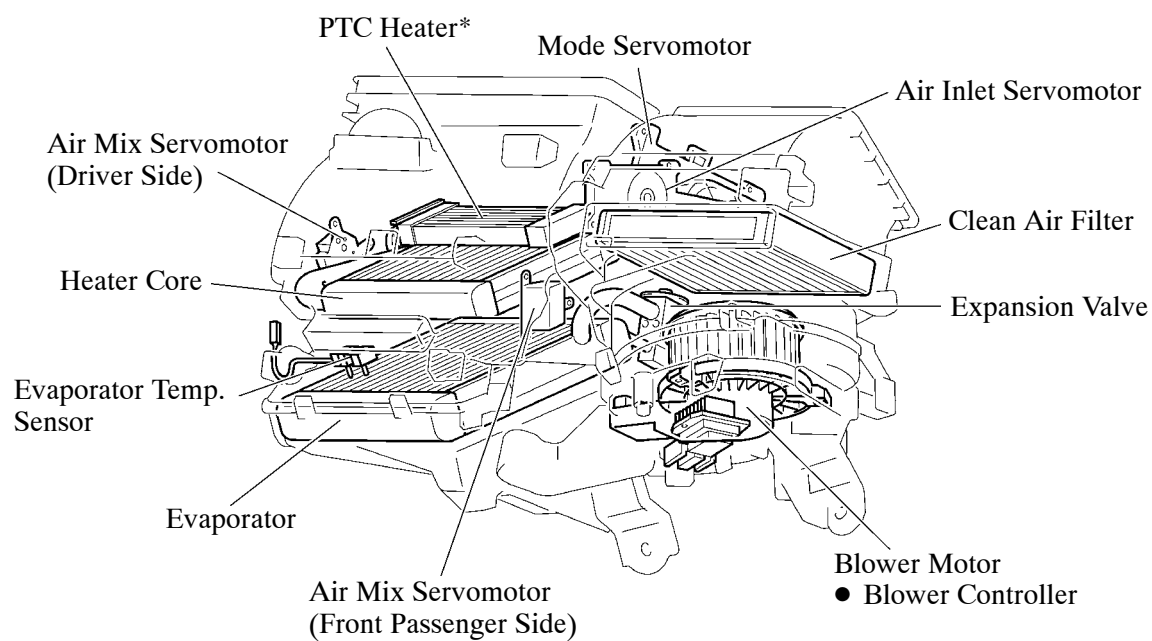


*1: Only for Models with Automatic Air Conditioner

*2: Only for Models with PTC Heater in Manual Air Conditioner

**Manual Air Conditioner Models**

19DBE23Y

**Automatic Air Conditioner Models**

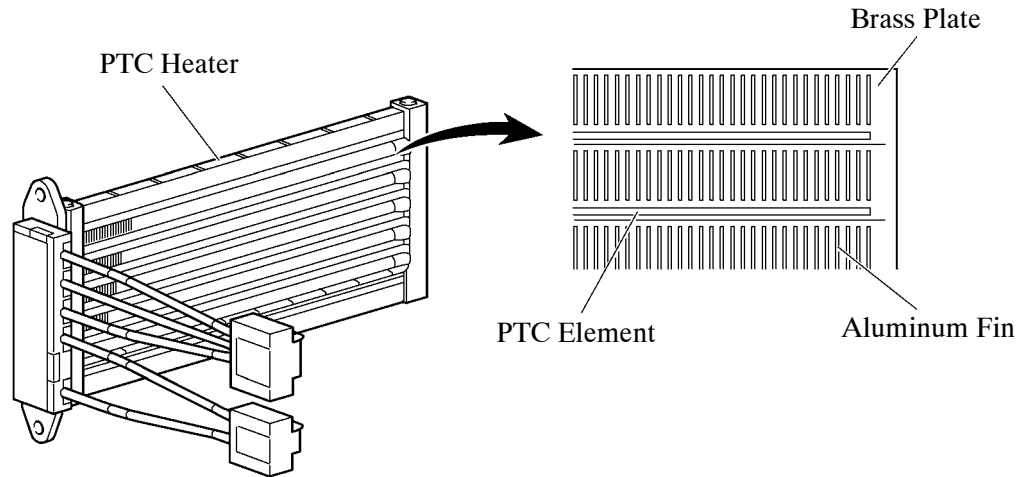
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*: Only for Models with PTC Heater

4. PTC (Positive Temperature Coefficient) Heater

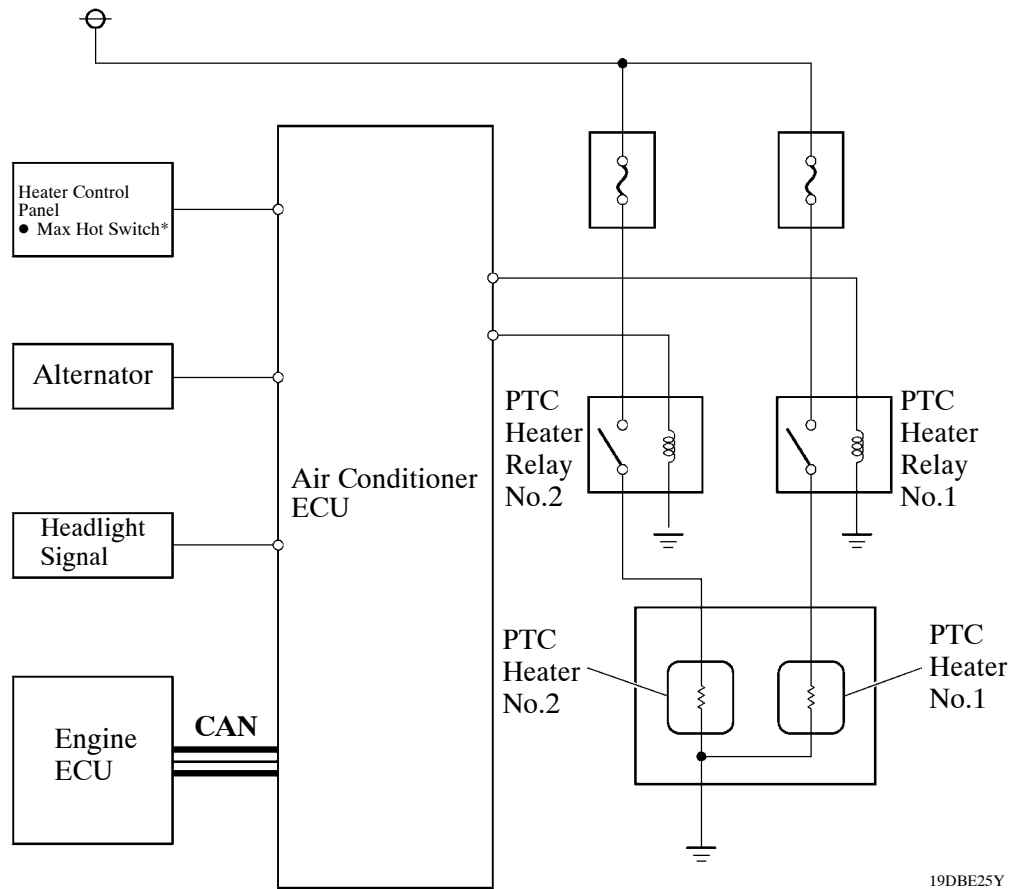
1) General

- On the 2AR-FE engine models, a PTC (Positive Temperature Coefficient) heater is used to improve the heating performance.
- The PTC heater is located above the heater core in the air conditioner unit.
- The PTC heater consists of a PTC element, aluminum fin, and brass plate. When current is applied to the PTC element, it generates heat to warm the air that passes through the unit.



01NBE28Y

2) Wiring Diagram



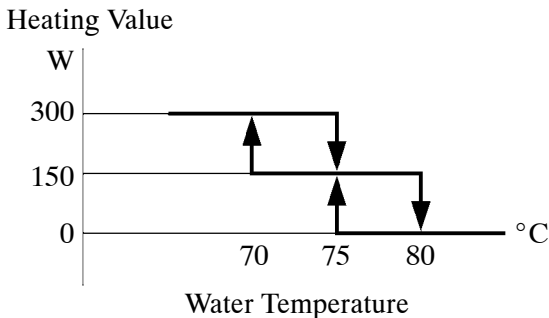
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*: Only for Models with Manual Air Conditioner

3) PTC Heater Operating Conditions

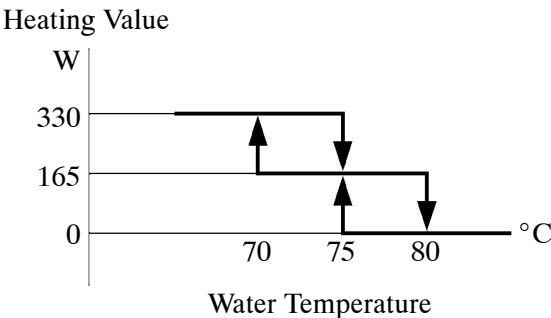
The ON/OFF function of the PTC heater is controlled by the air conditioner ECU in accordance with the water temperature, engine speed, air mix setting, and electrical load (alternator power ratio). For example, the number of the operating PTC heaters varies with the water temperature as in the graph below.

► Heating Value Pattern ◀



Models with TMC

286BE32



Models with TMMC

286BE32

■ NAVIGATION SYSTEM WITH MULTI INFORMATION SYSTEM

1. General

- The 2 types of navigation system are as follows:

System	Type
Premium Display Audio System* ¹	Radio and Display Receiver Assembly with Extension Module
DVD Navigation System* ²	Navigation Receiver Assembly

*¹: Models for U.S.A. and Canada

*²: Models for destination Package for Korea

- The display is a wide 6.1-inch Liquid Crystal Display (LCD) with a pressure sensitive touch panel, offering improved ease of use.
- The navigation system has a voice recognition system that uses natural speech technology to interpret a user's intent based on their natural speech pattern. The system recognizes natural speech patterns as voice recognition commands.
- The language of the screen buttons, pop-up messages and voice guidance can be selected from among English, French and Spanish.
- Hawaii has been added to the map coverage area, ensuring marketability.
- A fuel consumption screen is provided in consideration of the environment.
- The Entune service is supported. This service makes it possible to operate specified applications on the navigation system by using Bluetooth to connect the navigation system to a cellular phone with the Toyota Entune application installed.*

*: Models with entune service

► Specifications ◀

Component		Premium Display Audio System
Multi-display		6.1-inch wide LCD
Navigation Computer		Harman Becker
Gyro Sensor		Piezoelectric Ceramic Element
Map Data Media		Flash Memory (Capacity 8 GB)
Language Supported	Voice Guidance	English and Spanish* ¹ / English and French* ²
	Voice Recognition	

*¹: Models for U.S.A.

*²: Models for Canada

2. Main Features

XM Services

- XM services receive information from XM satellite radio and show it on the multi-display. Additionally, the navigation function, which utilizes real-time information, is available.
- The following XM Services are available.

Service	Function
XM NavTraffic	Displays traffic congestion information using icons, arrows and indicators on the navigation map in accordance with the traffic information received via XM satellite radio.
XM NavWeather*	<ul style="list-style-type: none"> • Displays weather information received via XM satellite radio. • Gives weather warnings issued within an approx. 25 km (15.5 mile) radius of the vehicle location through voice and graphics. • Displays weather forecasts for 3 days when a city icon on the map is pressed or when the city name is selected from the list on the screen.

Service	Function
XM Stocks*	<ul style="list-style-type: none"> Displays stock price information received via XM satellite radio. Displays up to 10 user-registered stock symbols and their price information.
XM Sports*	<ul style="list-style-type: none"> Displays sports related news received via XM satellite radio. Allows the user to register up to 5 teams.
XM Fuel Prices*	<ul style="list-style-type: none"> Displays gas station information (location and fuel price) received via XM satellite radio. Received information is displayed in a list and the icons can be displayed on the map screen. Allows the user to select the kind and brand of fuel to be displayed.

*: Except models for Canada

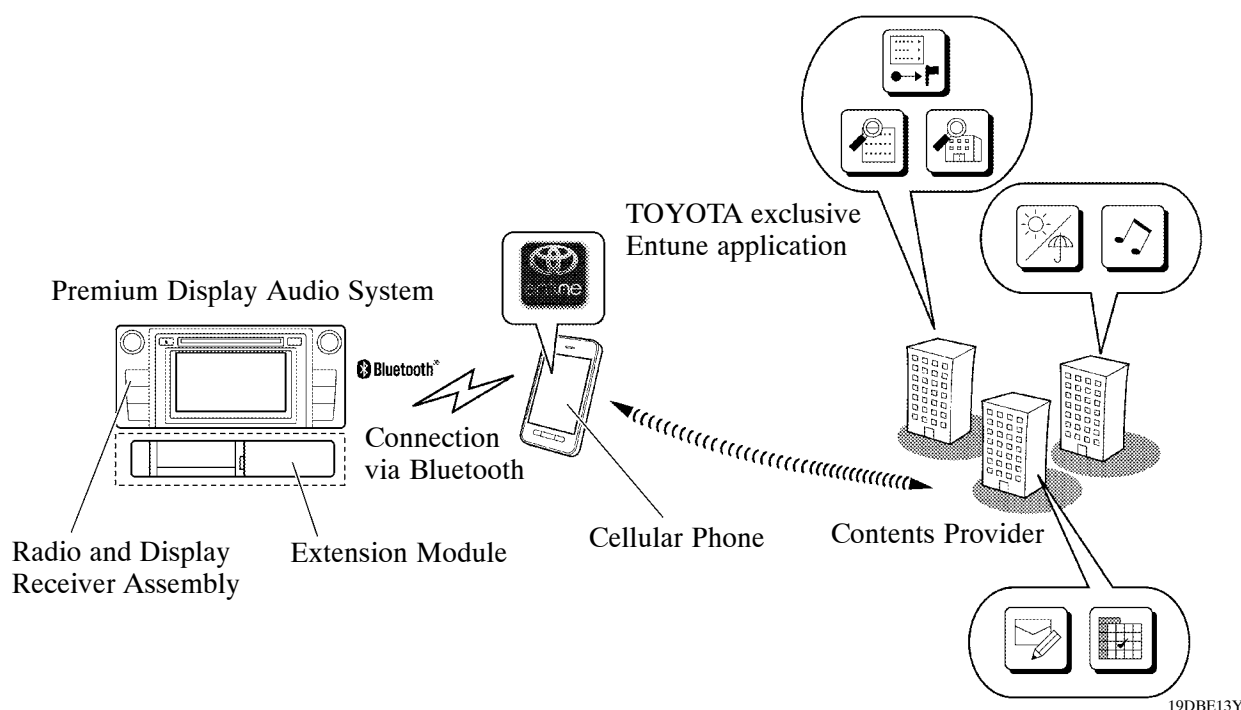
Service Tip

- XM NavTraffic, XM NavWeather and XM TravelLink require separate XM subscription(s).
- XM Sports, XM Stocks and XM Fuel Prices are available with an XM TravelLink subscription.
- XM Sports and XM Stocks are included with an XM Satellite Radio subscription.

Entune (Models with Entune)

- The Entune service makes it possible to operate specified applications on the multi-display by using Bluetooth to connect the navigation system to a cellular phone with the Toyota Entune application installed.
- The Entune service enables communication between the navigation system, application server and content provider utilizing the Entune application installed on a cellular phone.
- The following applications (“Apps”) are available for the Entune service: Local business search, internet radio, Restaurant reservation service, Movie ticket purchase, Fuel Price information, Sports information, Stock information, Local traffic information, weather information, etc. However, since this supported application lineup is subject to change, visit <http://www.toyota.com/Entune/> for details on the Entune service.

► Utilization image of the Entune service ◀

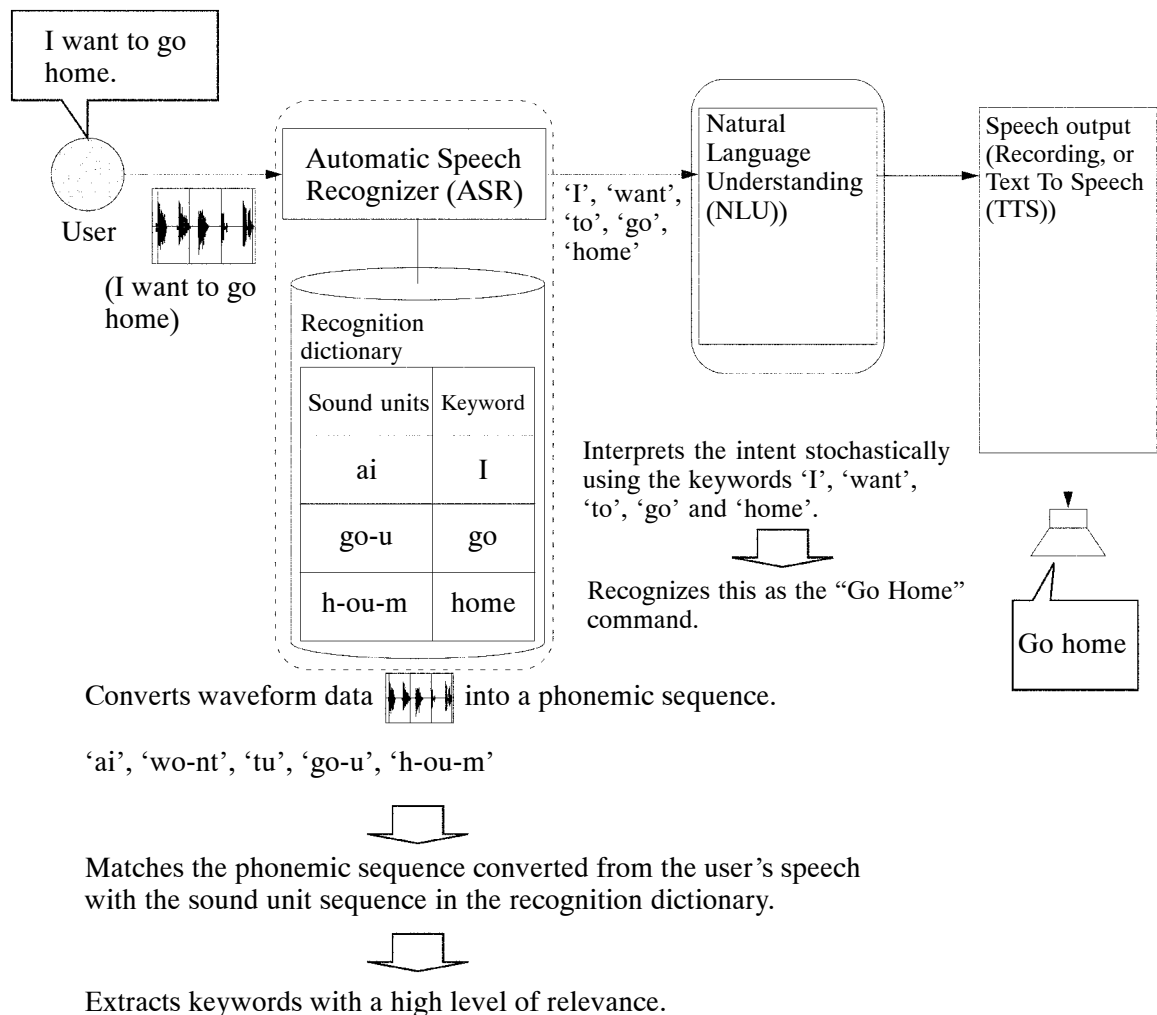


Voice Recognition System

- When the voice recognition system starts operating, the commands that the system is able to recognize are displayed on the multi-display.
- A shortcut menu is provided on the voice recognition command screen, enabling the user to operate the system with fewer voice commands.
- The natural speech technology* adopted for this voice recognition system can recognize a user's natural speech as voice recognition commands. ("natural speech" refers to naturally spoken utterances that include several keywords.)
- Natural speech technology* enhances the usability because the user does not have to memorize voice recognition commands exactly.
- Natural speech technology* uses the system's Automatic Speech Recognizer (ASR) and Natural Language Understanding (NLU) to recognize voice recognition commands.
 - The ASR extracts keywords from a user's natural speech using a phonemic sequence (the units of sound that make up a phrase or sentence).
 - The NLU analyzes these extracted keywords based on their probable meaning, interpreting the intent of the user's utterances.

*: Natural speech technology does not apply to French or Spanish.

► Example of 'I want to go home' ◀



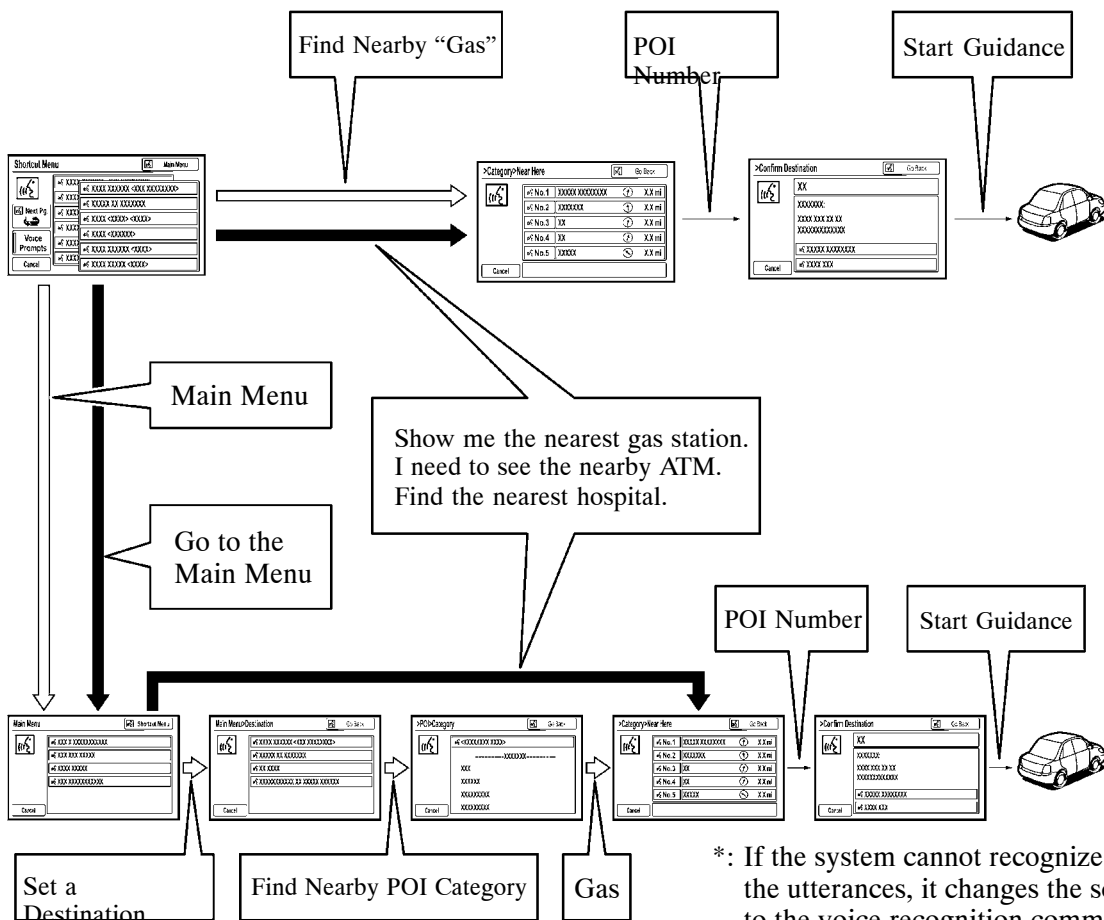
- In order to interpret the intent of a user's speech, the NLU unit records key words in a data table.
- The data table is organized by task, and the data is used to interpret the probable meaning of the user.
 - Even if the user does not say the indicated voice command (“Go Home”), speech with a similar meaning can be recognized (for example: “Let's go home” and “Take me home”).

Service Tip

The natural speech technology used by the voice recognition system does not function in the following cases.

- When the key words used are not in the data table.
- When inputting address elements such as the city name in the address input screen.
- When a phrase includes several intentions (Ex. “Go home... actually, no... I want to call Bob.”)
- When spoken instructions are for a level that cannot be recognized by the system. (Ex. When the user attempts to carry out a task from a different level while another task is still in progress, such as trying to make a phone call while the Destination screen is being displayed after giving the ‘Destination’ command.)

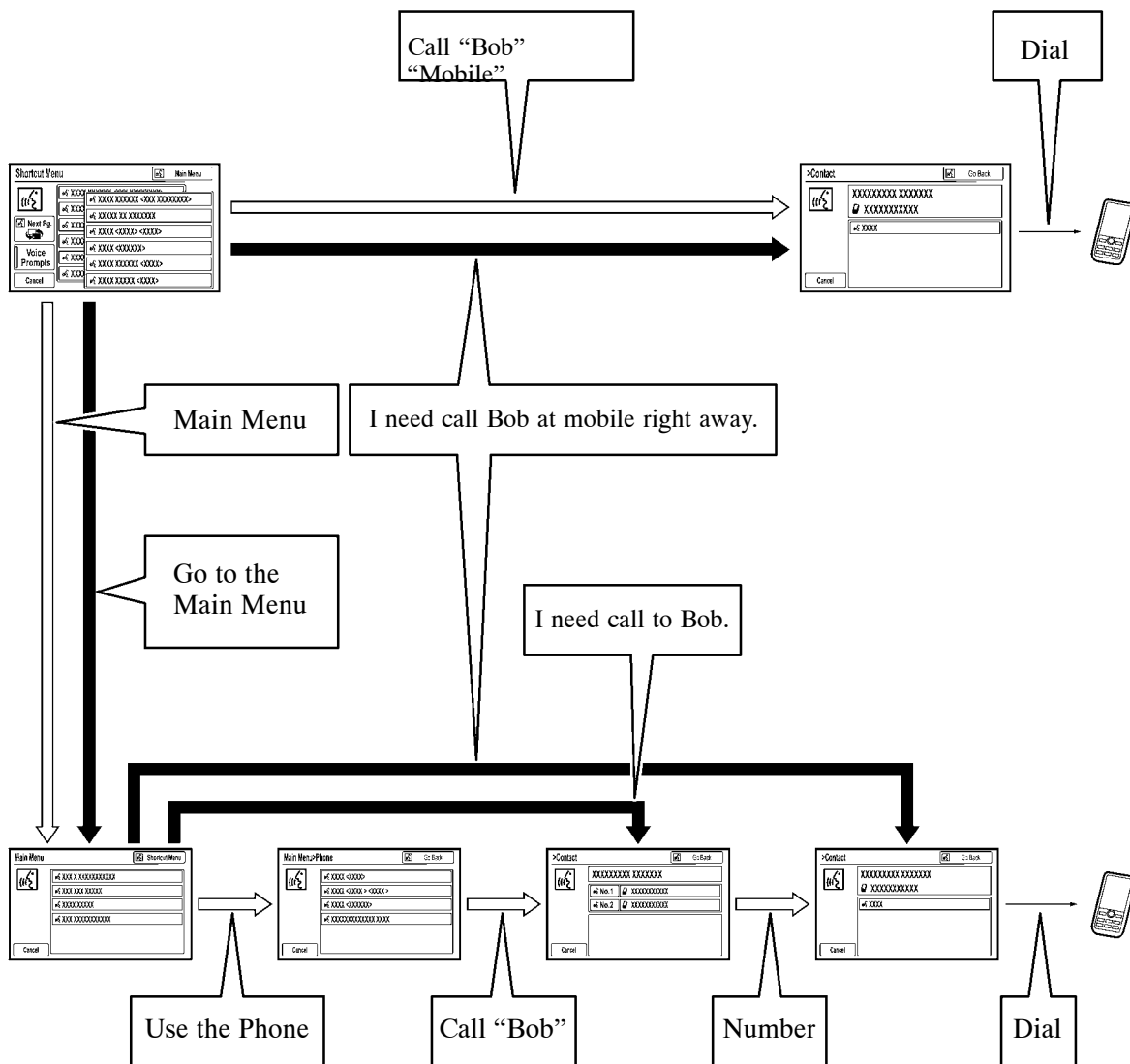
► Examples of Spoken Phrases for the Destination Screen ◀



⇒ : Transition when saying speech using the voice commands

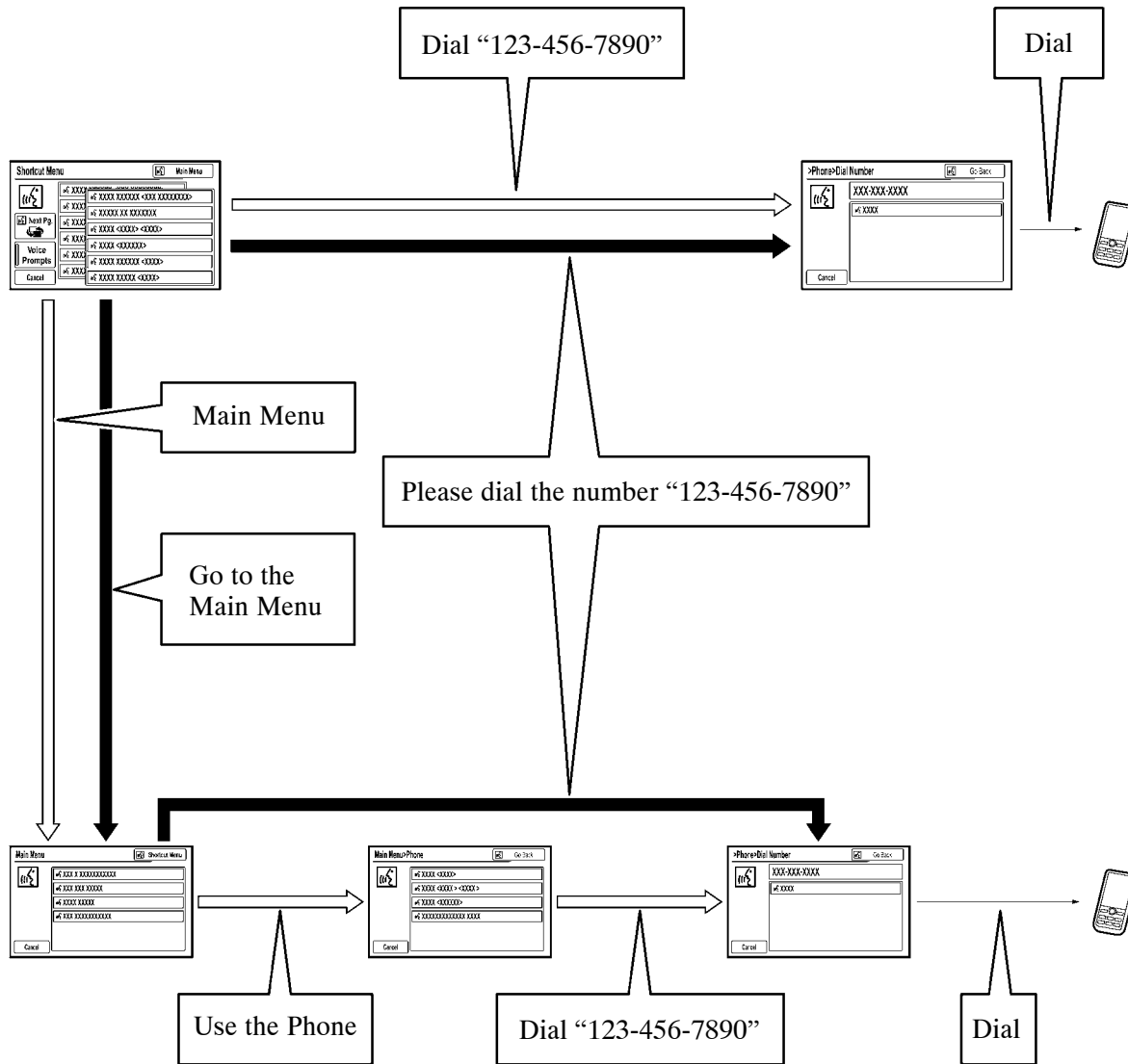
➡ : Transition when the natural speech recognition is used

► Examples of Spoken Phrases for the Phone Screen (1) ◀



*: If the system cannot recognize all the utterances, it changes the screen to the voice recognition command screen that suits the recognized task.

► Examples of Spoken Phrases for the Phone Screen (2) ◀



⇒ : Transition when saying speech using the voice commands

➡ : Transition when the natural speech recognition is used

*: If the system cannot recognize all the utterances, it changes the screen to the voice recognition command screen that suits the recognized task.

- The main functions of the multi-display are listed below.

Function		Outline
Navigation System		Through the use of the Global Positioning System (GPS) and map data which is stored on a flash memory, the navigation system analyzes the position of the vehicle and indicates the position on the map that is displayed on the screen. In addition, it is possible to use the system to register memory points and navigate to a destination.
Audio/Video System		Serves as the display and controls for the following: <ul style="list-style-type: none"> • Radio operation • XM satellite radio operation • CD player operation • Bluetooth-compatible portable player operation • USB memory operation (USB type) • Media transfer protocol (MTP) device operation (USB type) • iPod operation • Portable audio player operation (AUX type)
Hands-free System		When a Bluetooth-compatible cellular telephone is registered to the multi-display, the driver can make and receive calls or talk hands-free on the cellular telephone by operating the switches on the screen/steering pad.
Speech Command System		Operates the navigation, audio, and hands-free systems based on voice commands.
Monitor System		Displays a view of the area behind the vehicle that is captured by the television camera mounted on the luggage compartment door when the shift lever is moved to R.
Others	Calendar	Displays schedule information stored in a cellular phone on the multi-display.
	Language Select	The language of the on-screen buttons, pop-up messages and the voice guidance can be changed. <ul style="list-style-type: none"> • English and Spanish are available.*1 • English and French are available.*2
	Beep Setting	The beep sound can be turned off.
	Picture Slide Show	Performs a slide show of picture data stored in a USB memory device.
	Keyboard Layout	The keyboard layout can be changed.
	Delete Personal Data	The following personal data can be deleted or returned to their default settings: <ul style="list-style-type: none"> • Address book • Previous points • Route guidance • Phonebook data • Call history data • Speed dial data • Bluetooth phone data • Bluetooth device data • Phone sound settings • Bluetooth setting • Message settings • Sound setting • Audio setting • Bluetooth audio setting
	Screen Adjustment	The brightness or contrast of the screen can be adjusted to suit the brightness of the surroundings.

Function	Outline
Diagnosis	<p>This menu contains the following items:</p> <ul style="list-style-type: none"> ● Failure Diagnosis <ul style="list-style-type: none"> – System Check ● Function Check/Setting <ul style="list-style-type: none"> – Panel & steering Switch – Touch Switch – Color Bar – Vehicle Signal – EXT BOX ● Service Information <ul style="list-style-type: none"> – Version Information

*1: Models for U.S.A.

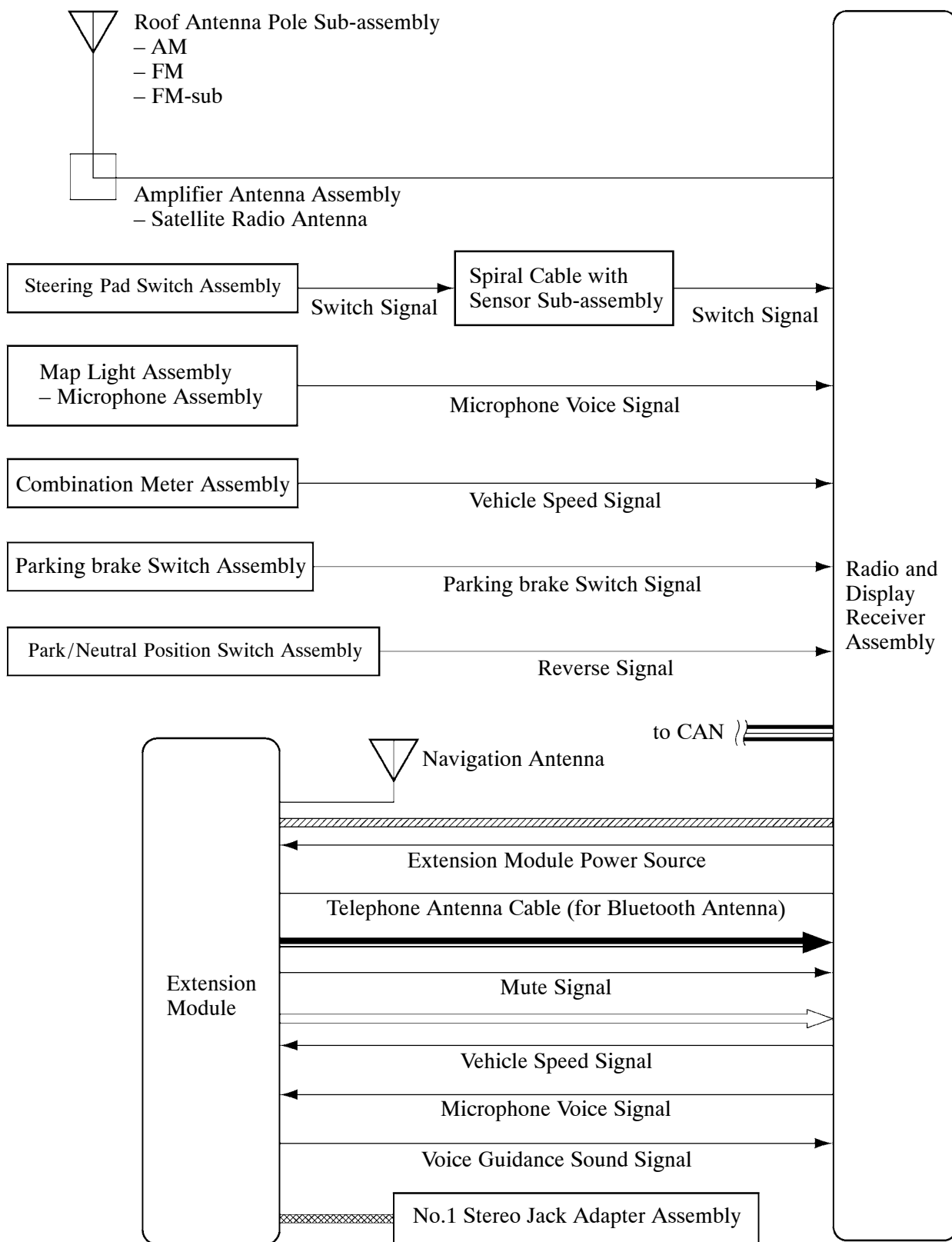
*2: Models for Canada

3. Precaution

- The type of ignition switch used on this model differs depending on the specifications of the vehicle. The expressions listed in the table below are used in this section.

Expression	Ignition Switch (Position)	Engine Switch (Condition)
Ignition Switch off	LOCK	Off
Ignition Switch ACC	ACC	On (ACC)
Ignition Switch ON	ON	On (IG)
Engine Start	START	Start

► System Diagram ◀



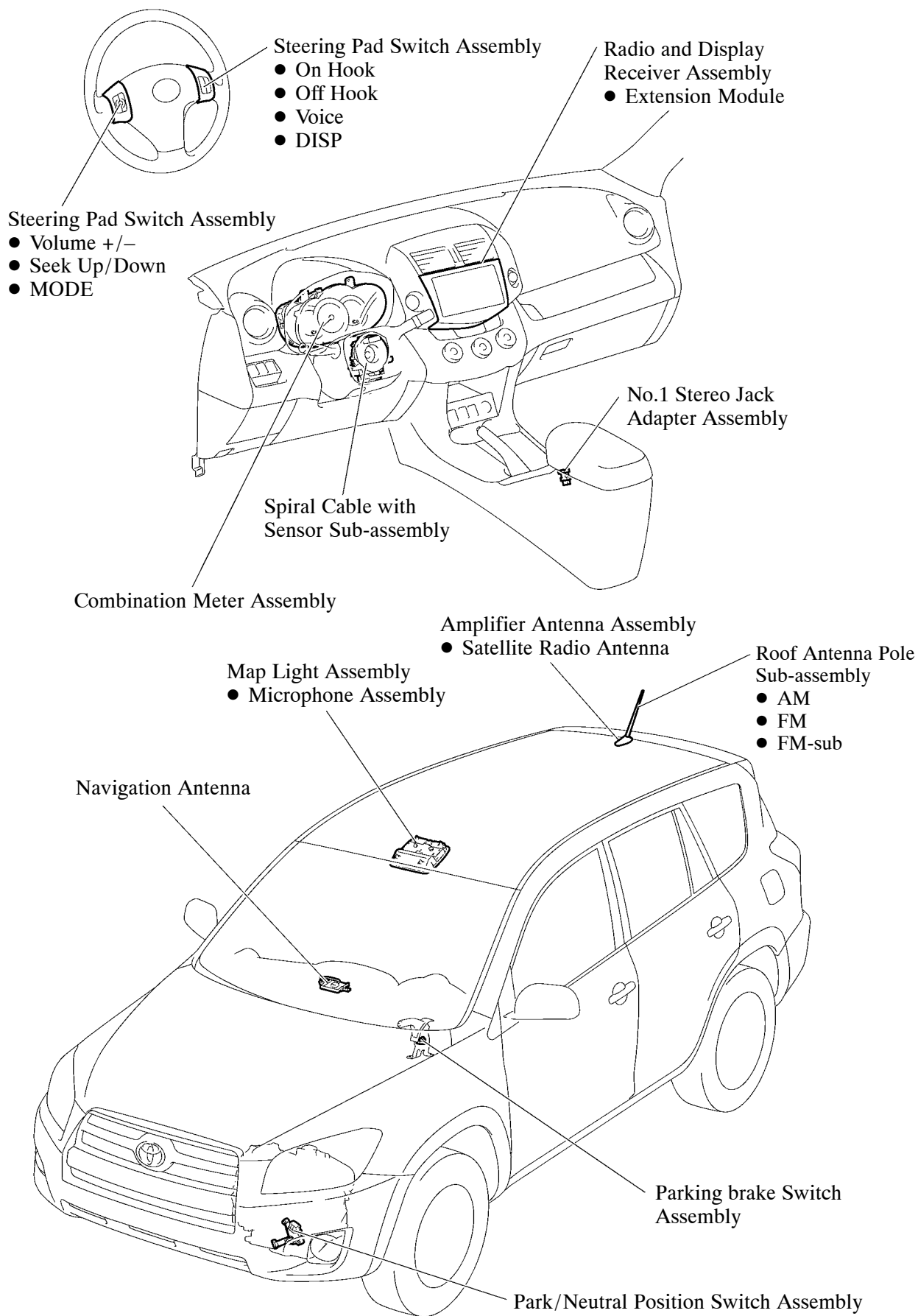
— : Sound Signal

▨ : USB Communication Line

— : Analog Video Signal

▨ : AVC-LAN Communication Line

4. Parts Location



5. Details

Navigation Screen

- The navigation computer calculates the present position and direction of travel, then determines a route and calculates the driving distance based on the following information sources:
 - Map data in the extension module
 - Global Positioning System (GPS) satellites
 - Built-in gyro sensor
 - Vehicle speed signal
 - Reverse signal
 - XM NavTraffic signal
 - XM NavWeather signal* (Models for U.S.A.)

*: NavWeather service is available in the continental U.S.A.
- The functions of the navigation screen are listed below.

Item		Function
Map Display	Map Color Change	Depending on the position of the light control switch, the screen changes to day mode or night mode.
	Taillight-interlocked Map Color Change	Changes the color of the map screen that is displayed when the taillights are turned on.
	North Up/Heading Up	<ul style="list-style-type: none"> ● If North Up is selected, regardless of the direction of vehicle travel, north is always up. ● If Heading Up is selected, the direction of vehicle travel is always up.
	3D Display	Displays a 3-dimensional (3D) view of the map.
	Multi-step Scale Display	Changes the map scale in 14 steps.
	Street Name Indication on Scrolled Map	Displays the street name and city name even when the map screen is being scrolled.
	Road Number Sign Board Display (Models for U.S.A. and Canada)	Displays the road number on the map.
	Point of Interest Display	Displays selected types of points of interest as marks on the map.
	Route Guidance Demonstration	Demonstrates the route guidance to the destination.
	Vehicle Icon	Appears on the 3D display. The color can be changed among blue, red, yellow, green and purple.
Destination Search	Address Search	A destination can be set by entering a city name, street name, intersection name, zip code and house number.
	Point of Interest Search	Name/Category A destination can be set in 2 ways: <ul style="list-style-type: none"> ● The name of a POI can be entered and then searched for after selecting a search area. Search areas include defined areas (such as a user selected country, state and city), near the current position, near the main destination, or along the current route). ● A POI category can be selected and searched for near the current position, in a defined area (such as a user selected country, state and city), near the main destination, or along the current route.
	Previous Destination Search	Stores the coordinates, names, and date of up to 100 locations that have been set as destinations in the past.
	Address Book (Memory Point) Search	Sets a destination from the registered Address Book (Memory Point).
	Map Search	A destination can be set by scrolling the cursor on the map.
	Coordinate Search	A destination can be input by entering its coordinates.
	Voice-recognition Search	A destination can be set up by voice command input.
	Entune Search	A point searched for using Entune content can be set as a destination.

Item		Function
Route Search	Multiple Destination Setting	Sets multiple destinations. It can also rearrange the sequence of the destinations.
	Multiple Route Search	Searches for multiple routes.
	Search Condition Designation	Searches for the fast, short, and ecological routes.
	Detour Search	Changes the route to detour around a section of the route.
	Avoid Traffic Search	Manually changes to another route to avoid heavy congestion.
	National Border Conscious Search	Searches for routes that do not cross the border of the U.S.A., Canada or Mexico.
Guidance	Voice Guidance	Provides voice guidance about the distance and the direction of travel to a destination point based on road conditions and vehicle speed.
	Next Turn Guidance	Provides guidance about the distance to the next turn and indicates the direction of the turn using an arrow.
	Distance-to-destination Display	Displays the distance from the present location to the destination.
	Estimated Arrival Time Display	Displays estimated arrival time.
Others	Voice Recognition	Recognizes pre-programmed system commands spoken to operate the navigation system.

*: XM NavWeather and XM Fuel Prices service is available in the continental U.S.A.

Setup Screen

- The settings for the functions of the multi-display are available from the setup screen.

Item	Function
Display Settings	<ul style="list-style-type: none"> • Map Menu and Camera screen adjustment • Depending on the position of the headlight switch, the screen changes to day or night mode.
General Settings	<ul style="list-style-type: none"> • The language can be selected. • The beep sound can be turned off. • Registered information (personal data) can be cleared. • Distance unit can be changed. • Keyboard layout can be changed. • The voice guidance volume can be adjusted or switched off. • Phone voice volume can be adjusted. • Ring volume can be adjusted. • Voice Dialog volume can be adjusted. • Data can be stored on a USB memory device. • Data can be copied from a USB memory device. • Time zones and the on/off settings of daylight saving time can be changed. (Models for U.S.A. and Canada). • System information can be displayed.
Bluetooth Settings	<ul style="list-style-type: none"> • The connection to a Bluetooth device can be turned on or off. • Connectable Bluetooth devices can be searched for. • The names of the Bluetooth devices that are currently connected or that are in the connection history can be displayed in a list. Additionally, availability information for each Bluetooth device is displayed. • PIN codes used for Bluetooth connection certification can be set. • A profile for connecting to the internet can be set.
Phone Settings	<ul style="list-style-type: none"> • The ring tone can be changed or turned off. • Message reception notification can be turned on or off. • E-mail reception notification can be turned on or off. • Phone book data stored on a cellular phone can be transferred manually.
Audio Settings	<ul style="list-style-type: none"> • HD radio system settings can be changed: <ul style="list-style-type: none"> – Receive both analog and digital broadcasts – Receive only digital broadcasts – Receive only analog broadcasts

DIAGNOSIS

- For details on the procedure required to enter the Service Menu screen, refer to the Repair Manual.

AUDIO SYSTEM

1. General

Audio System

- The audio systems shown below are provided. For the premium display audio system, enhanced navigation system functions are available by installing an extension module.

○: Operates —: Not Applicable

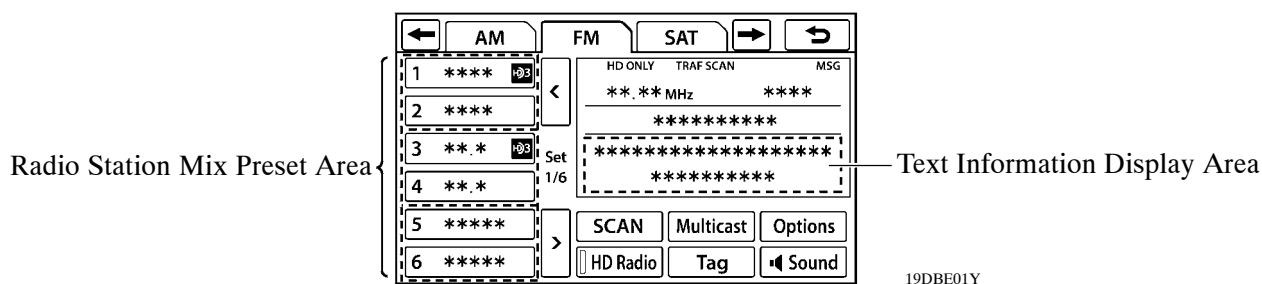
Audio System	Audio Head Unit	Speaker	Extension Module
6-speaker Sound System* ¹	Radio Receiver Assembly	6 Speakers	—
Premium Display Audio System*¹	Radio and Display Receiver Assembly	6 Speakers	○
DVD Navigation System* ²	Navigation Receiver Assembly	6 Speakers	—

*¹: Models for U.S.A. and Canada

*²: Models for destination Package for Korea

Audio Head Unit

- In consideration of the unity with the instrument panel, a uniquely sized audio head unit is provided.
- A Thin Film Transistor Liquid Crystal Display (TFT LCD) is used for the multi-display of the radio and display receiver assembly. The multi-display shows the audio screen, Bluetooth hands-free screen, vehicle information screen, etc. and can be operated using touch operation.
- On the radio screen of the radio and display receiver assembly, up to 6 radio station presets from different tuners can be displayed on the screen. Additionally, text information of the selected station can be displayed. It is possible to store 6 sets of 6 presets.



- Discs containing MPEG audio layer-3 (MP3) files and Windows Media Audio (WMA) files can be played.
- Discs with the marks shown below can be played.



19DBE02Y

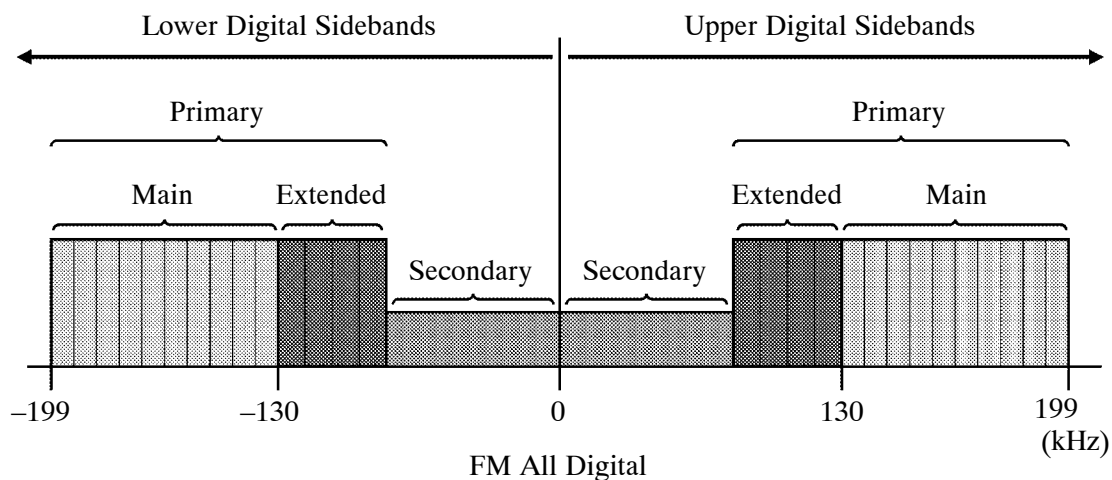
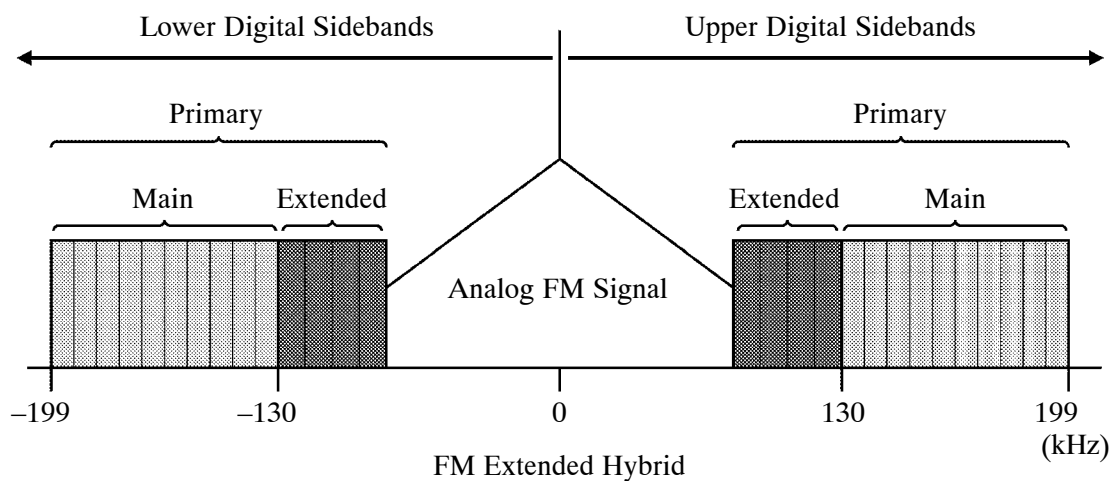
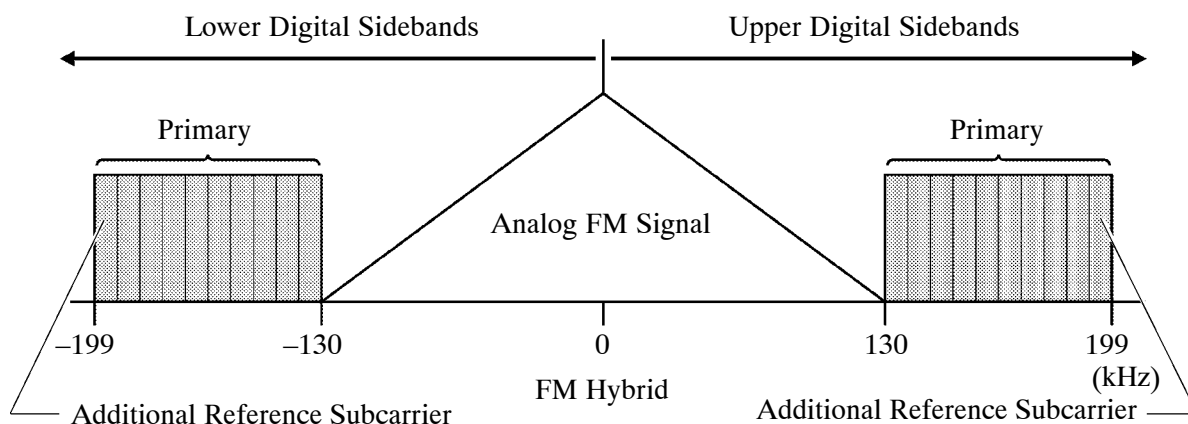
XM Satellite Radio (Models with Premium Display Audio System)

- XM satellite radio is a service that uses the signals from 2 satellites in geostationary orbit to make it possible to capture digital radio broadcasts (XM satellite radio) from over 170 channels. XM satellite radio enables users to constantly receive their favorite programs.

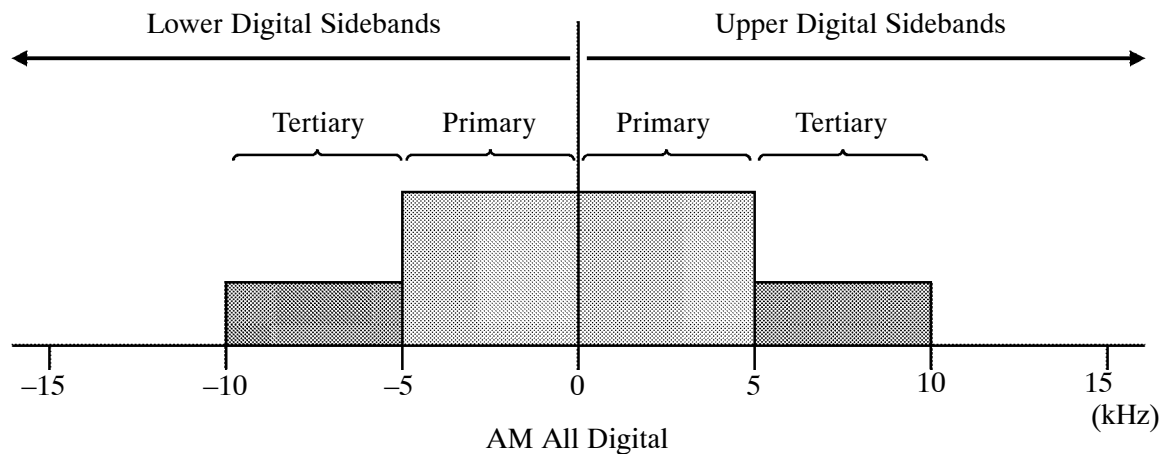
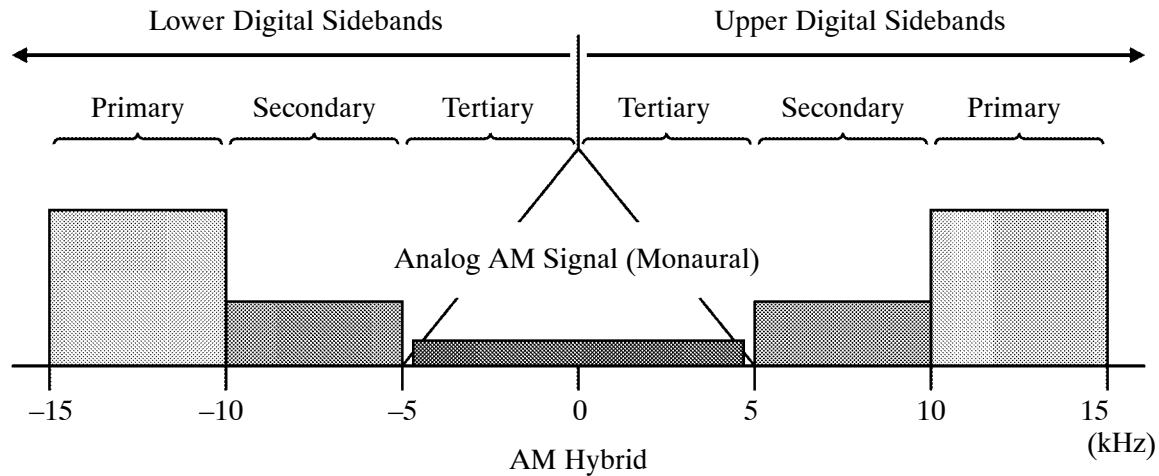
HD Radio

- In-Band On-Channel (IBOC) type digital radio broadcasts (HD Radio) can be received. In-Band On-Channel (IBOC) adds digital signals to the existing analog signal band range and both sidebands, enabling analog FM-sound quality for AM stations and CD-sound quality for FM stations. When the digital signals cannot be received, the radio automatically switches to analog signal reception mode.

► In-Band On-Channel (IBOC) FM Transmission Image ◀



► In-Band On-Channel (IBOC) AM Transmission Image ◀



19DBE04Y

- The HD radio tuner can receive simple broadcast data along with digital audio broadcast data, enabling support for a multi-broadcast function. With this function, 2 programs, such as the main program and music, can be received simultaneously. Additionally, tag information from the received station can be stored in memory.

Service Tip

- HD radio is a trademark of iBiquity Digital Corporation.

Automatic Sound Levelizer (ASL)

- The Automatic Sound Levelizer (ASL) function automatically adjusts the sound volume in order to enable clear audio quality even when vehicle noise increases (as vehicle noise increases, the volume is turned up, etc.)
- Vehicle speed signals are received from the combination meter assembly and used for ASL control.

USB Audio System

- A USB port is provided that enables operation of a USB memory stick, Media Transfer Protocol (MTP) device, a portable audio player (USB type), an iPod or an iPhone.

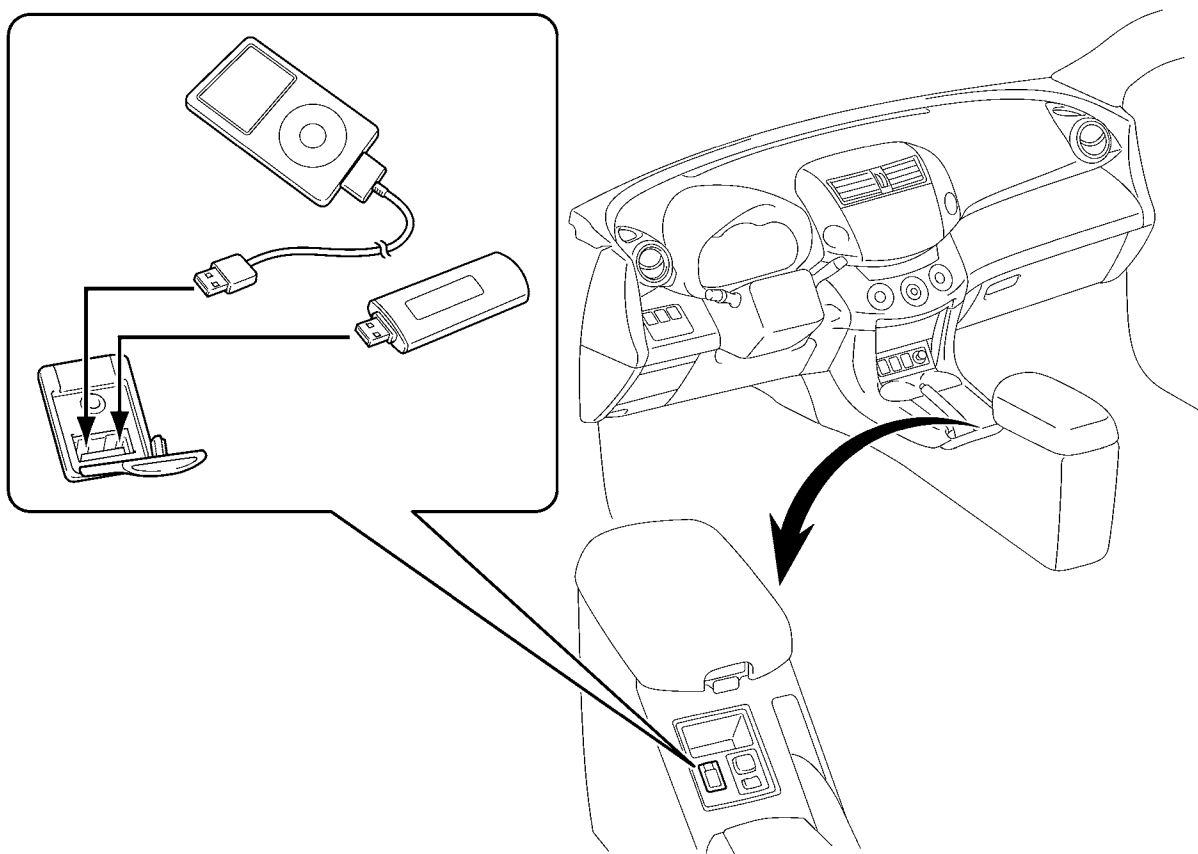
Service Tip

- iPod and iPhone are trademarks of Apple Inc. , registered in the U.S. and other countries.
- Supported iPod and iPhone models and firmware or OS versions are listed below:

Model	Generation	Firmware or OS
iPod	5G	1.3
iPod nano	1G	1.3.1
	2G	1.1.3
	3G	1.1.3
	4G	1.0.4
	5G	1.0.2
	6G	1.0
iPod classic	1G	1.1.2
	2G (120 GB)	2.0.1
	2009 (160 GB)	2.0.4
iPod touch	1G	iOS3.1.3
	2G	iOS3.1.3
		iOS4.2.1
	Late 2009 (8 GB)	iOS3.1.3
		iOS4.2.1
	3G (32 GB/64 GB)	iOS3.1.3
		iOS4.2.1
iPhone	4G	iOS4.2.1
	1G (iPhone)	iOS3.1.3
	2G (iPhone3G)	iOS3.1.3
		iOS4.2.1
	3G (iPhone3GS)	iOS3.1.3
		iOS4.2.1
	iPhone4	iOS4.2.1

- Depending on differences between models or software version etc., some models listed above might be incompatible with this system.
- iPod 4G and earlier models are not compatible with this system.
- iPod mini, iPod shuffle, iPod photo and iPad are not compatible with this system.
- USB memory devices that meet the following specifications are supported:

USB Communication Speed	<ul style="list-style-type: none"> ● USB 2.0, Full Speed (12 Mbps) ● USB 2.0, High Speed (480 Mbps)
File System	FAT 16/32 (Windows)
Device Class	Mass Storage Class
File Format	MP3, WMA



19DBE05Y

Bluetooth Audio System

- The Bluetooth audio system enables users to enjoy music played on a portable player from the vehicle speakers via wireless communication.
 - The Bluetooth specifications and profiles required for operation are as follows:

Specification / Profile	Version	
Bluetooth Specification	Version 1.1 or higher	Required
	Version 2.1+EDR or higher	Recommended
Profile	Advanced Audio Distribution Profile (A2DP) Version 1.0 or higher	Required
	Advanced Audio Distribution Profile (A2DP) Version 1.2 or higher	Recommended
	Audio/Video Remote Control Profile (AVRCP) Version 1.0 or higher	Required
	Audio/Video Remote Control Profile (AVRCP) Version 1.4 or higher	Recommended

Bluetooth Hands-free System

- The Bluetooth hands-free system allows the user to make or receive a call without taking their hands off the steering wheel when the system is linked with a Bluetooth-compatible cellular phone.

Specification / Profile	Version	
Bluetooth Specification	Version 1.1 or higher	Required
	Version 2.1+EDR or higher	Recommended

Specification/Profile	Version	
Profile	Hands Free Profile (HFP) Version 1.0 or higher	Required
	Hands Free Profile (HFP) Version 1.5 or higher	Recommended
	Dial-up Networking Profile (DUN) Version 1.1* ¹	Recommended
	Object Push Profile (OPP) Version 1.1 or higher* ²	Required
	PAN (Personal Area Network) Version 1.0* ¹	Required
	Phone Book Access Profile (PBAP) Version 1.0 or higher	Required
	MAP (Message Access Profile) Ver.1.0 or higher* ¹	Required
	SPP (Serial Port Profile) Ver.1.1 or higher* ¹	Required

*1: Models with radio and display receiver assembly

*2: Models with radio receiver assembly

Service Tip

- The operation of the interrupt call function of the Bluetooth hands-free system may vary with the Bluetooth phone or the telephone company that is used.



“Bluetooth” is a trademark owned by Bluetooth SIG, Inc.

- The some profiles described above may not be supported in the system depending on the audio head unit equipped.
- If the specification of the connected Bluetooth phone is lower than the recommended or does not support the functions required, the available functions may be limited.
- Registration and connection of a Bluetooth phone is not available when only Dial-up Networking Profile (DUN), Object Push Profile (OPP), Phone Book Access Profile (PBAP) and MAP (Message Access Profile) are supported.

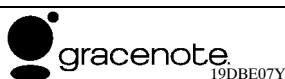
- When a Bluetooth phone is connected to the premium display audio system, e-mails and Short Message Service (SMS) messages received on the phone can be displayed or read out (Messages may not be displayed depending on the message service or profile that the connected Bluetooth phone supports.)

Voice Recognition Search (Models with Premium Display Audio System)

- Due to the Grapheme to Phoneme (G2P) function of converting sounds into text, songs on a USB memory device can be searched for by saying an artist name, album name, title or playlist name. Additionally, the adoption of the Gracenote MediaVOCS database improves the speech recognition ratio of the Grapheme to Phoneme (G2P) function.

Service Tip

- Music recognition technology and related data are provided by Gracenote.
- Gracenote is the industry standard in music recognition technology and related content delivery. For more information, please visit www.gracenote.com.
- One or more patents owned by Gracenote apply to this product and service.
- See the Gracenote website for a non-exhaustive list of applicable Gracenote patents.
- Gracenote, and MediaVOCS, the Gracenote logo and logotype are either registered trademarks or trademarks of Gracenote in the United States and/or other countries.



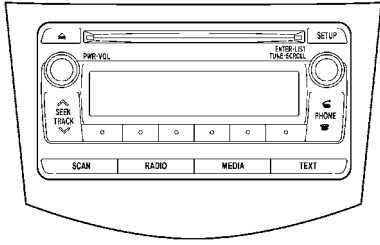
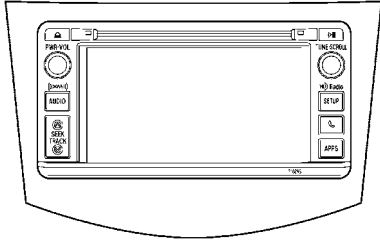
Gracenote and MediaVOCS are trademarks owned by Gracenote.

Steering Pad Switch Assembly

- Switches that the driver often uses are provided on the steering wheel for convenience.

2. Specification

Audio Head Unit

Audio Head Unit	Design	Specification	Destination
Radio Receiver Assembly	 <p>19DBE08Y</p>	<ul style="list-style-type: none"> • AM/FM Tuner • ASL*1 • CD Player: Compatible with MP3 and Windows Media Audio (WMA) files • CD-TEXT Display Function • Bluetooth Audio System • Bluetooth Hands-free System • Portable Audio Player (USB type) Interface • iPod Interface • USB Memory Stick • Stereo Jack Adapter • 6-speaker System • Unit: Panasonic 	U.S.A. and Canada
Radio and Display Receiver Assembly	 <p>19DBE09Y</p>	<p>Premium Display Audio System:</p> <ul style="list-style-type: none"> • 6.1-inch Wide Liquid Crystal Display (EGA Type) • Display language supported: English and Spanish*2 • Display language supported: English and French*3 • AM/FM Tuner • XM Satellite Radio Tuner (Only available in XM Satellite Radio broadcast areas) • HD Radio Tuner (Only available in HD Radio broadcast areas) • Radio Station Mix Preset • Radio Broadcast Data System (RBDS) • DSP*4/ASL*1 • CD Player: Compatible with MP3 and Windows Media Audio (WMA) files • CD-TEXT Display Function • Bluetooth Audio System • Bluetooth Hands-free System • Portable Audio Player (USB type) Interface • iPod Interface • USB Memory Stick • Voice Recognition Search (USB Audio System) • Media Transfer Protocol (MTP) Device • Stereo Jack Adapter • 6-speaker System • Unit: Pioneer 	U.S.A. and Canada

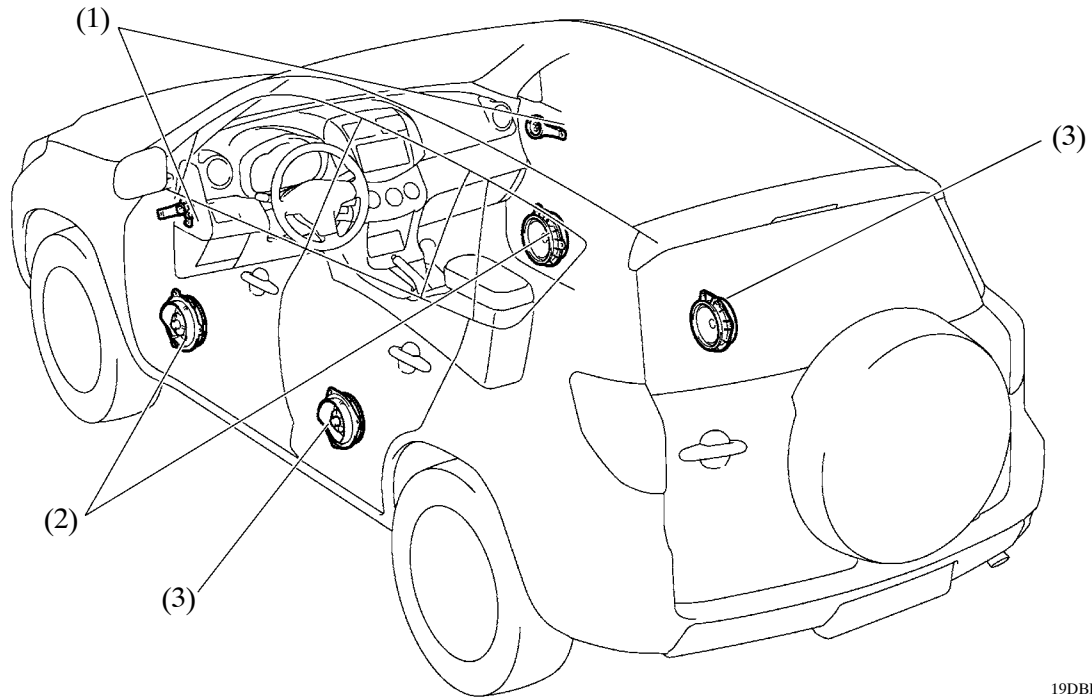
*1: Automatic Sound Levelizer

*2: Models for U.S.A.

*3: Models for Canada

*4: Digital Sound Processor

6-speaker System



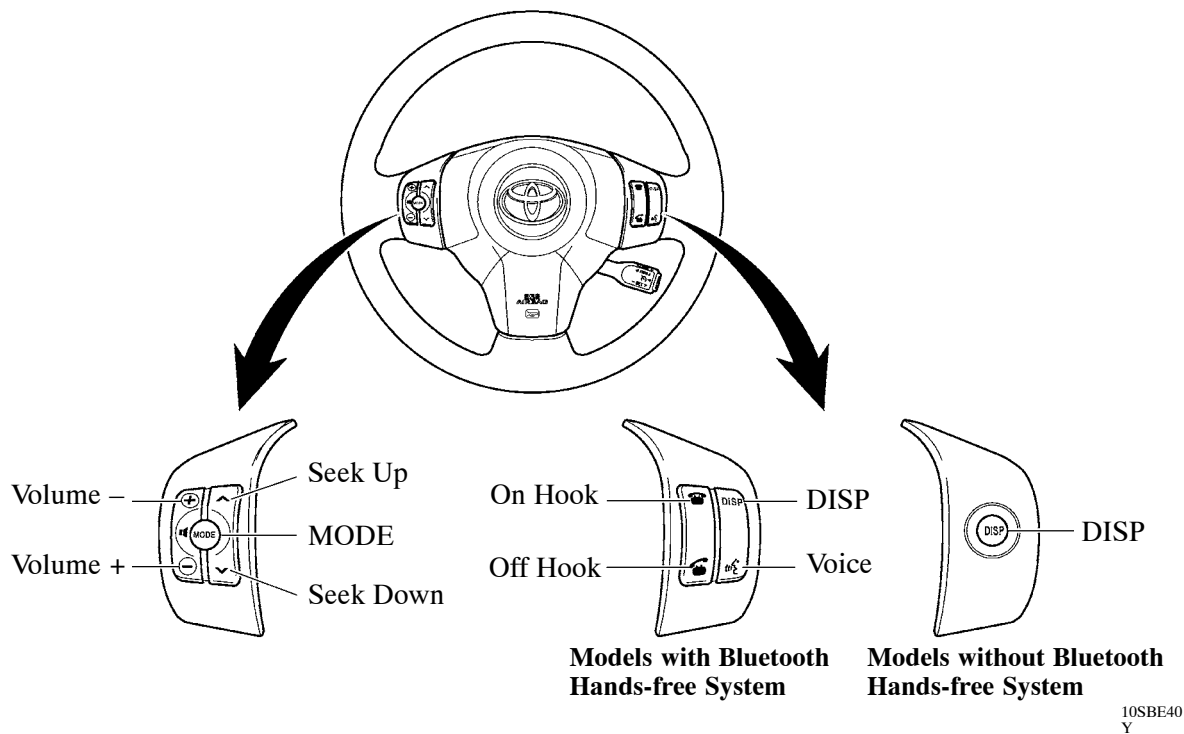
19DBE26Y

Location	Speaker Type	Quantity	Size	Impedance	Rated Input Power
(1)	Tweeter	2	6.5 cm (2.6 in.)	4 Ω	20 W
(2)	Full Range	2	16 cm (6.3 in.)	4 Ω	20 W
(3)	Full Range	2	16 cm (6.3 in.)	4 Ω	20 W

Steering Pad Switch Assembly

○: Operates —: Not Applicable

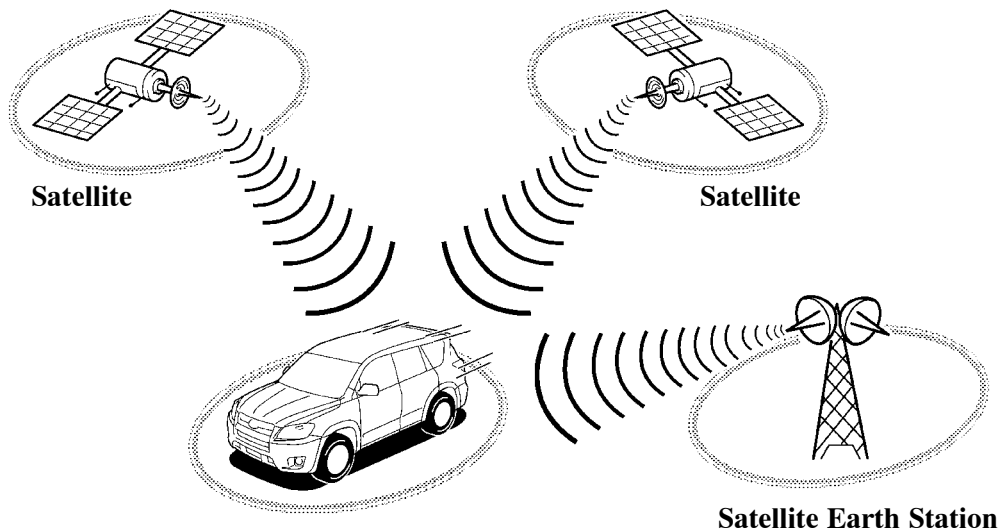
Item	Switch	Equipment
Audio	<ul style="list-style-type: none"> ● Volume +/- ● Seek Up/Down ● MODE 	○
Telephone	<ul style="list-style-type: none"> ● On Hook ● Off Hook 	— (Models without Bluetooth hands-free system) ○ (Models with Bluetooth hands-free system)
Voice Recognition	<ul style="list-style-type: none"> ● Voice 	
Multi-information Display	<ul style="list-style-type: none"> ● DISP 	○



3. Main Features

XM Satellite Radio (Models with Premium Display Audio System)

- XM satellite radio is a subscription type digital broadcast service.
- In addition to the 2 satellites, XM satellite radio is supported by 800 satellite earth stations (repeaters). As a result, it can receive broadcasts throughout the U.S.A. (except Hawaii and Alaska) and most parts of Canada.
- If the signals from the satellites are disrupted by a tunnel, gulch, or high-rise buildings, the simultaneous broadcast (called “gap filler”) through ground based signals helps achieve excellent reception that is free of interruptions.
- XM satellite radio produces near CD-quality sound using a digital satellite broadcast. It is particularly convenient for long-distance drivers because it is unnecessary to tune to different stations.



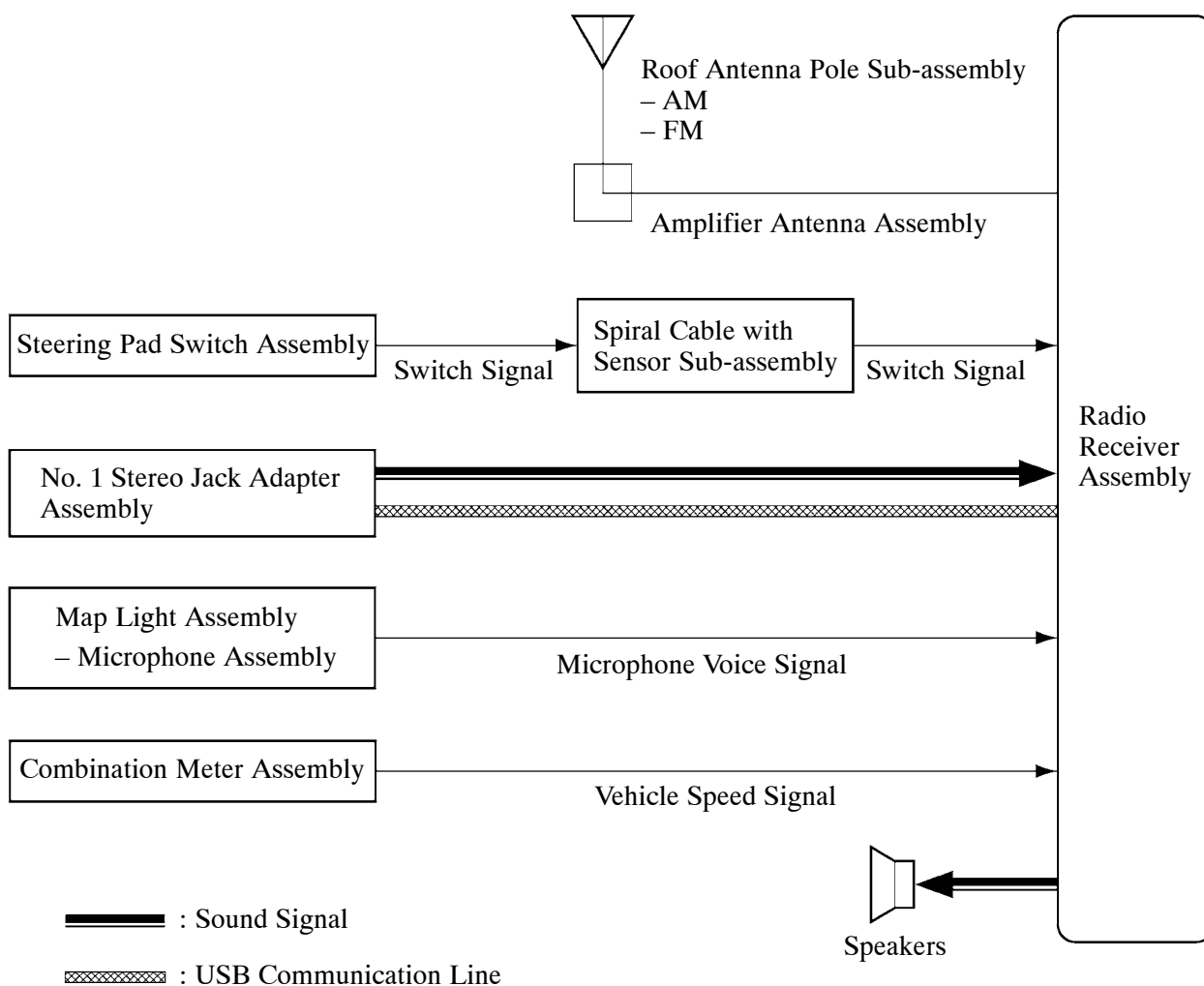
4. Precaution

The type of ignition switch used on this model differs depending on the specifications of the vehicle. The expressions listed in the table below are used in this section.

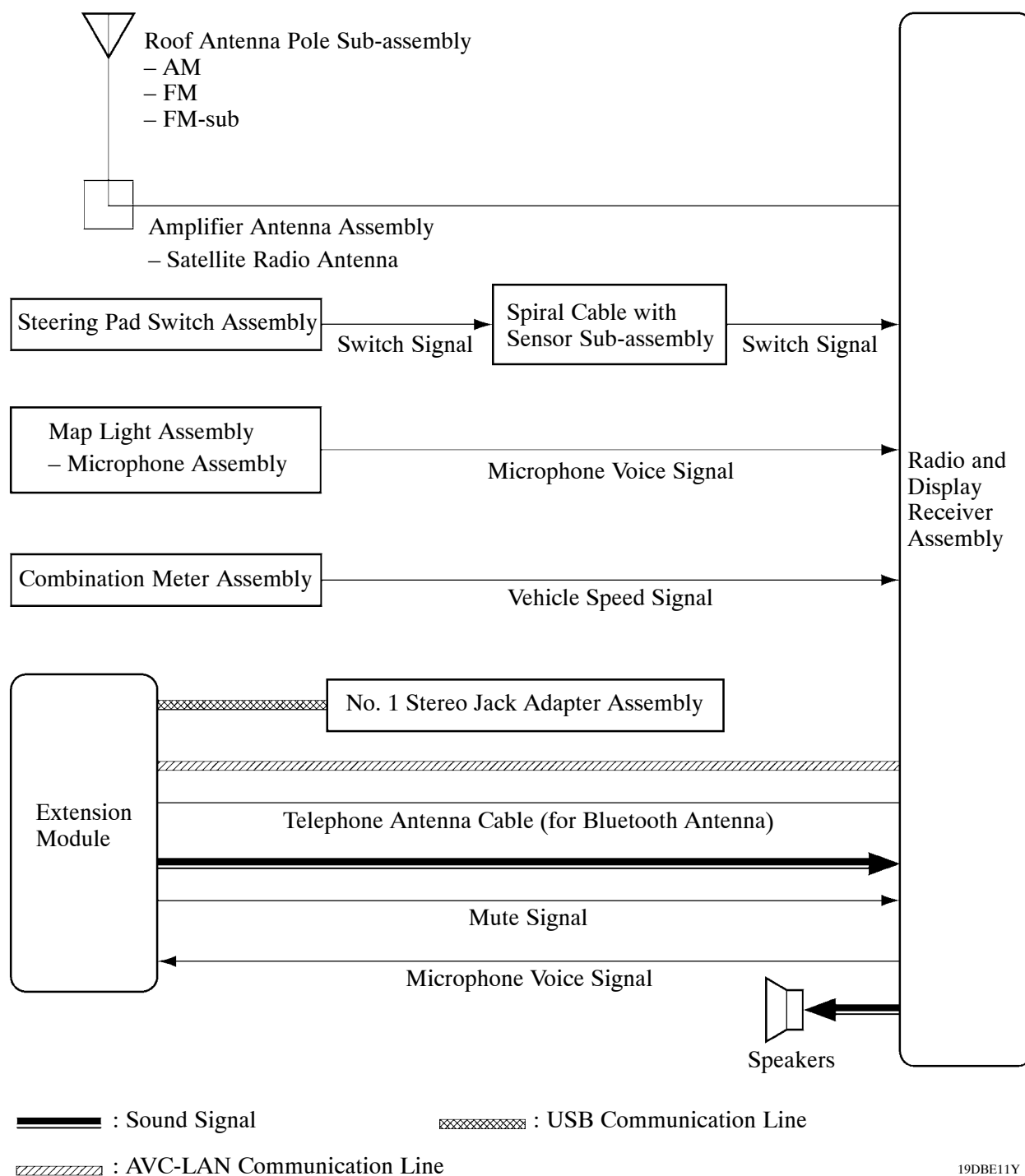
Expression	Ignition Switch (Position)	Engine Switch (Condition)
Ignition Switch off	LOCK	Off
Ignition Switch ACC	ACC	On (ACC)
Ignition Switch ON	ON	On (IG)
Engine Start	START	Start

5. System Diagram

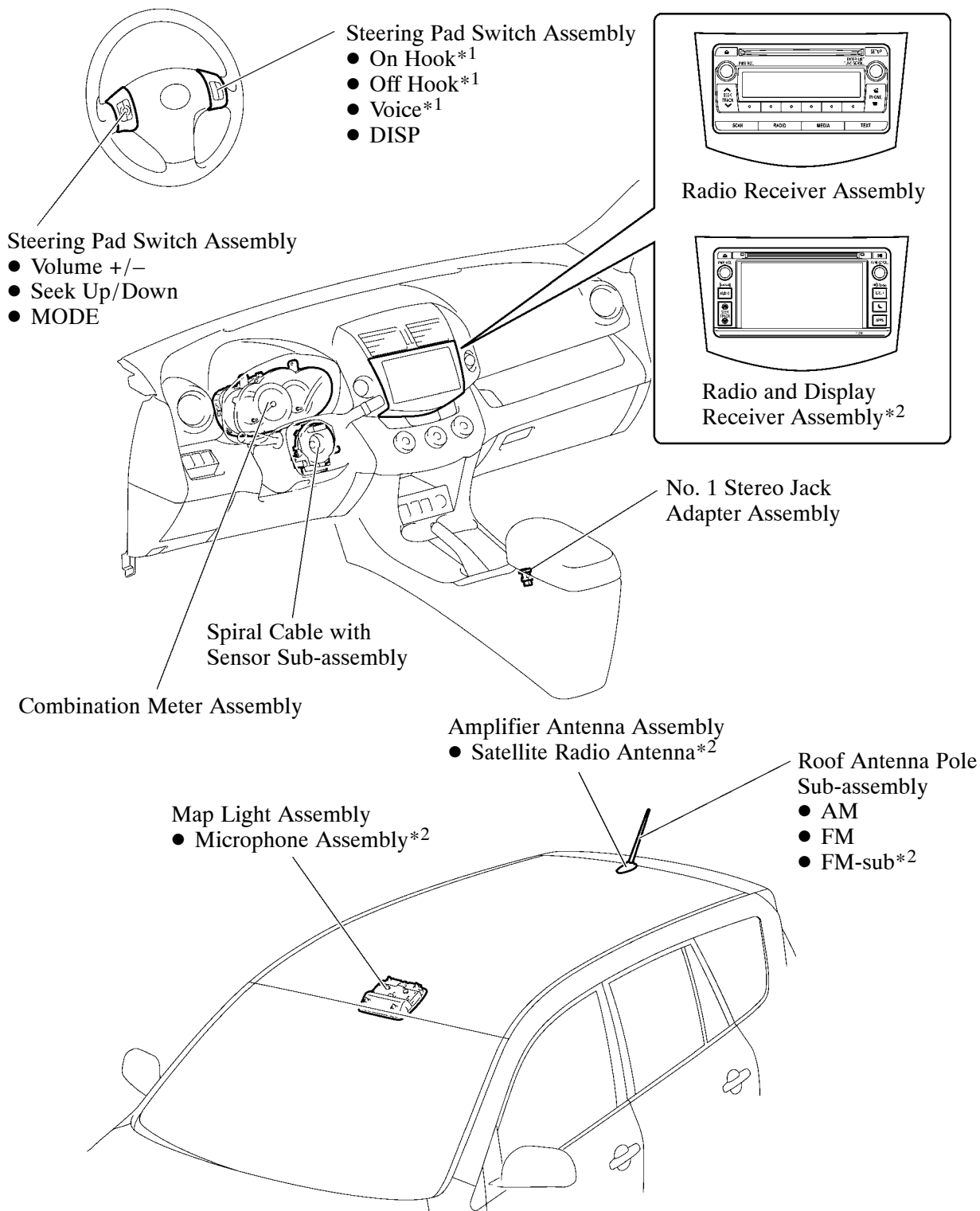
► Models with 6-speaker Sound System ◀



► Models with Premium Display Audio System ◀



6. Parts Location



19DBE12Y

*1: Models with Bluetooth Hands-free System

*2: Models with Premium Display Audio System

7. Details

Bluetooth Audio System

- The functions of the Bluetooth audio system that can be used vary with the version of the Audio/Video Remote Control Profile (AVRCP) supported by the Bluetooth audio player that is being used.
- The available Bluetooth audio system functions differ in accordance with each Audio/Video Remote Control Profile (AVRCP) as follows:

○: Operates —: Not Applicable

Function	Outline	Audio/Video Remote Control Profile (AVRCP)		
		Version 1.0	Version 1.3	Version 1.4 or higher
Play	Starts playing the music.	○	○	○
Stop	Stops playing the music.	○	○	○
Pause	Pauses the music.	○	○	○
Track Up/Down	Changes the track.	○	○	○
Fast Up/Down	Fast-forwards or reverses.	○	○	○
Album Up/Down	Changes the album.	—	○	○
Repeat (Single Repeat)	Repeats the selected music.	—	○	○
Random (All Track Random)	Plays all the music in the portable audio device at random.	—	○	○
Scan (All Track Scan)	Scans all the music in the portable audio device.	—	○	○
Music Information	Shows track number, playtime, track name, artist name and album name.	—	○	○
Remaining Battery Level	Shows the remaining battery level of the Bluetooth audio player.	—	○	○
Music List	Shows the music list.	—	—	○

- The functions of the Bluetooth audio system are shown in the following table:

Function		Outline
Set Bluetooth Audio Player	Registering a Bluetooth Audio Player	In order to use the Bluetooth audio system with a Bluetooth audio player, it is necessary to register it in the audio head unit. Once a Bluetooth audio player is registered, the Bluetooth audio system becomes available automatically. The user can register up to 2*1/4*2/5*3 Bluetooth audio players.*4
	Deleting a Bluetooth Audio Player	The user can delete a Bluetooth audio player.
	Connecting a Bluetooth Audio Player	Enables the user to select whether to connect to the Bluetooth audio player automatically or manually. If the Bluetooth audio player has been registered and automatic connection is enabled, the Bluetooth audio player will be connected automatically.
Change Settings of Bluetooth Audio	Selecting a Bluetooth Audio Player	If the user has registered a second Bluetooth audio player, either one can be selected for connection.
	Displaying Bluetooth Audio Player	The user can view the information of the Bluetooth audio player on the system.
	Changing the Connection Method	Enables the user to select the connection method. With this function, the user determines whether to make a connection from the audio head unit to the Bluetooth audio player or from the Bluetooth audio player to the audio head unit.

Function		Outline
Change Settings of Bluetooth Audio	Displaying the Bluetooth Audio Setting	The user can see the Bluetooth audio information settings on the system.
	Changing the Device Name or Passcode	The user can change a device name or a passcode.
	Initializing the Bluetooth Audio Settings	The user can initialize the settings.

*1: Models with radio receiver assembly

*2: Models with extension module

*3: Models without extension module

*4: The maximum number of Bluetooth devices that can be registered (including Bluetooth phones and Bluetooth audio players)

Bluetooth Hands-free System

- Bluetooth is a short-distance, high-speed wireless data communication system that uses the 2.4 GHz frequency band prescribed by the Bluetooth SIG (Special Interest Group).
- This system enables drivers to place or receive phone calls without operating a cellular phone.
- The Bluetooth hands-free system is included in the audio head unit.
- The Bluetooth hands-free system enables drivers to perform operations by selecting the icons displayed on the multi-display with the touch of a finger.
- The major hands-free functions are shown in the following table:

○: Operates —: Not Applicable

Function			Radio and Display Receiver Assembly	Radio Receiver Assembly
Calling with Bluetooth Phone	By Dial		○	○
	By Phonebook		○ (1000 Items)* ¹	○ (1000 Items)* ¹
	By Call History* ²	Dialed Number	○ (10 Items)* ³ ○ (20 Items)* ⁴	○ (5 Items)
		Received Call	○ (10 Items)* ³ ○ (20 Items)* ⁴	○ (5 Items)
		Missed Call	○ (10 Items)* ³ ○ (20 Items)* ⁴	○ (5 Items)
		All Call History	○	○
	By Speed Dial* ²		○ (18 Items)* ³ (15 Items)* ⁴	○ (5 Items)
	By Voice Recognition* ²	Dialing by Name	○* ⁵	—
		Dialing by Phone Number	○* ⁵	—
	By Point Of Interest (POI) Call		○* ⁴	—
	By Short Message Service (SMS)/Multimedia Messaging Service (MMS)/e-mail		○* ⁴	—
Receive with Bluetooth Phone/ Talk on Bluetooth Phone	Receiving Call* ²	Received Manually	○	○
		Received Refusal	○	—
	Interrupt Call* ²		○	○
	Tone Sending	By Dial	○	○
		By Registered Number	○	○
Receive and Reply Message with Bluetooth Phone	Receive Message		○* ⁴	—
	Replying (Quick Reply)		○* ⁴ (Only Short Message Service (SMS) and Multimedia Messaging Service (MMS))	—

○: Operates —: Not Applicable

Function			Radio and Display Receiver Assembly	Radio Receiver Assembly
Recognition / Connection	Registering Bluetooth Phone		○ (5 Bluetooth Phones)*3 (4 Bluetooth Phones)*4	○ (5 Bluetooth Phones)
	Connecting Bluetooth Phone	Connected Automatically	○	○
		Connected Manually	○	○
Setting	Setting Automatic Connection		○	○

*1: It is possible to have up to 1000 items per telephone (Bluetooth phone).

*2: Can be performed while driving.

*3: Models without extension module

*4: Models with extension module

*5: Models with premium display audio system

- The hands-free functions of the radio and display receiver assembly are shown in the following table. However, for safety, some functions may not be selectable when the vehicle is being driven.

Function			Outline
Calling with a Bluetooth Phone	By Dialing		The user can call by inputting a telephone number.
	By Phonebook		The user can call by using the phonebook data that has been transferred from the user’s cellular phone. The user can register up to 1000 numbers in the phonebook.
	By Call History* ³	Dialed Number	The user can call by selecting a previously dialed number. The system remembers up to 10* ¹ /20* ² dialed numbers. If more than 10* ¹ /20* ² numbers have been dialed, the oldest number will no longer be remembered.
		Received Call	The user can call by selecting the telephone number of a received call. When a call is received, the system will remember the last 10* ¹ /20* ² numbers. If more than 10* ¹ /20* ² calls have been received, the oldest number will no longer be remembered.
		Missed Call	The user can call by selecting the telephone number of a missed call. The system remembers up to 10* ¹ /20* ² missed call numbers. If more than 10* ¹ /20* ² calls have been missed, the oldest number will no longer be remembered.
		All Call History	The user can call by selecting a telephone number from all call history. However, the number of the telephone numbers in the call history that the user can use is limited while driving.
Calling with a Bluetooth Phone	By Speed Dial* ³		The user can call by using registered telephone numbers selected from the phonebook, dialed numbers or received calls.
	By Voice Recognition* ³	Dialing by Name* ⁴	The user can call by giving a name registered in the phonebook.
		Dialing by Phone Number* ⁴	The user can call by giving a desired number.
	By Point of Interest (POI)* ²		The user can call by operating a switch when “Call” is displayed on the navigation screen.
Receiving a Call using a Bluetooth Phone			When a call is received, the receive screen is displayed with a sound.
Talking on a Bluetooth Phone			While the user is talking on the phone, the talking screen is displayed.

Function		Outline
Changing Bluetooth Phone Settings	Speed Dial Registration	The user can register a desired telephone number from the phonebook, dialed numbers or received calls. Up to 18* ¹ /15* ² speed dial numbers can be registered.
	Volume Settings	The user can set the volume.
		Automatic volume settings for high speed: When vehicle speed is 80 km/h (50 mph) or more, the volume automatically increases. The volume returns to the previous volume setting when vehicle speed drops to 70 km/h (43 mph) or less.
	Phonebook Settings	Transferring a telephone number: The user can transfer telephone numbers from the Bluetooth phone to the system. Up to 1000 data items (up to 3* ¹ /4* ² numbers per entry) can be registered in the phonebook.
		Automatically transferring a telephone number: When a PBAP compatible phone is connected, the phonebook data of the phone can be automatically transferred.
		Registering phone numbers: The user can register phone numbers in the phonebook.* ⁵
		Adding data to the phonebook: The user can add data to the phonebook.* ⁵
		Editing a name: The user can edit a name that has been entered. If no name has been entered, the number is displayed.
		Editing a phone number: The user can register a phone number to home, mobile, office or other.* ⁵
		Editing data: The user can edit the registered data.* ⁵
		Deleting data: The user can delete the data.
		Deleting all the phone data: The user can delete all the phone data.
		Deleting the call history data: The user can delete the call history data individually or all at once.
	Screen Settings	The Bluetooth connection status at startup: When the ignition switch is turned to ACC or ON and the Bluetooth is automatically connected, the connection check will be displayed.
		Initializing the settings: The user can initialize the settings.
Registering and Selecting a Bluetooth Phone	Bluetooth Phone Registration	In order to use the hands-free function of a Bluetooth phone, it is necessary to register it in the radio and display receiver assembly. Once a phone is registered, the hands-free function becomes available automatically. The user can register up to 5* ¹ /4* ² Bluetooth phones.* ⁶
	Bluetooth Phone Selection	When 2 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 the selected phone is available for use as a hands-free phone. The phone registered last is automatically selected.
	Bluetooth Information Confirmation and Editing	The user can set, change and initialize the information of the Bluetooth phone displayed on the screen.
	Deleting a Bluetooth Phone	The user can delete a registered Bluetooth phone from the radio and display receiver assembly.

Function		Outline
Bluetooth Phone Message* 2	Checking Message	Transmits the messages (Short Message Service (SMS)/Multimedia Messaging Service (MMS)/e-mail) received on the Bluetooth phone to the audio head unit. The following functions are available for the transmitted messages. <ul style="list-style-type: none"> ● Display of the message text. ● Reading out of the message. ● Calling a Short Message Service (SMS)/Multimedia Messaging Service (MMS) message sender's phone number.
	Reply Message	Replies to a message (Short Message Service (SMS)) received on the Bluetooth phone.
	Editing Reply Message	Edits the reply.

*1: Models without extension module

*2: Models with extension module

*3: Can be operated while driving.

*4: Models with premium display audio system

*5: Excluding PBAP

*6: The maximum number of Bluetooth devices that can be registered (including Bluetooth phones and Bluetooth audio players)

8. Diagnosis

- On models with the Premium Display Audio System, for details on the procedure required to enter the Service Menu screen, refer to the Repair Manual.

– MEMO –

MAJOR TECHNICAL SPECIFICATIONS

Item			Area	U.S.A.				
Body Type				5-door Wagon				
Vehicle Grade				— (4WD)	Limited (4WD)	Sport (4WD)	— (2WD)	
Model Code				ASA33L-A(C)NPXKA	ASA33L-A(C)NPGKA	ASA33L-A(C)NPSKA	ASA38L-A(C)NPXKA	
Major Dimensions & Vehicle Weights	Overall	Length	mm (in.)	4570 (180.0), 4575 (180.1)* ³	4575 (180.1)	4580 (180.3), 4575 (180.1)* ³	4570 (180.0), 4575 (180.1)* ³	5
		Width	mm (in.)	1815 (71.5)	1855 (73.0)	1855 (73.0)	1815 (71.5)	
		Height* ¹	mm (in.)	1685 (66.3), 1745 (68.7)* ⁴ 1690 (66.5)* ⁵ , 1755 (69.1)* ^{4, 5}	1745 (68.7), 1755 (69.1)* ⁵	1745 (68.7)	1685 (66.3), 1745 (68.7)* ⁴ 1690 (66.5)* ⁵ , 1755 (69.1)* ^{4, 5}	
	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)	10
	Effective Head Room	Front	mm (in.)	1037 (40.8)	1037 (40.8), 1002 (39.4)* ⁶	1037 (40.8), 1002 (39.4)* ⁶	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)	917 (2022)	925 (2039)	928 (2046)	892 (1967)	
		Rear	kg (lb)	668 (1473)	697 (1537)	691 (1523)	632 (1393)	
		Total	kg (lb)	1585 (3494)	1622 (3576)	1619 (3569)	1524 (3360)	
	Gross Vehicle Weight	Front	kg (lb)	—	—	—	—	25
		Rear	kg (lb)	—	—	—	—	
		Total (2nd / 3rd)	kg (lb)	2055 (4535) / 2205 (4865)	2055 (4535) / 2205 (4865)	2055 (4535) / —	2005 (4430) / 2145 (4730)	
Fuel Tank Capacity ℓ (US.gal., Imp.gal.)			60 (15.85, 13.20)	60 (15.85, 13.20)	60 (15.85, 13.20)	60 (15.85, 13.20)		
Luggage Compartment Capacity		m ³ (cu.ft.)	—	—	—	—		
Performance	Max. Speed		km / h (mph)	—	—	—	—	30
	Max. Cruising Speed		km / h (mph)	—	—	—	—	
	Acceleration	0 to 60 mph	sec.	—	—	—	—	
		0 to 400 m	sec.	—	—	—	—	
	Max. Permissible Speed	1st Gear	km / h (mph)	—	—	—	—	35
		2nd Gear	km / h (mph)	—	—	—	—	
		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			2AR-FE	2AR-FE	2AR-FE	2AR-FE	40
	Valve Mechanism			16-valve DOHC with Dual VVT-i	16-valve DOHC with Dual VVT-i	16-valve DOHC with Dual VVT-i	16-valve DOHC with Dual VVT-i	
	Bore × Stroke		mm (in.)	90.0 × 98.0 (3.54 × 3.86)	90.0 × 98.0 (3.54 × 3.86)	90.0 × 98.0 (3.54 × 3.86)	90.0 × 98.0 (3.54 × 3.86)	
	Displacement		cm ³ (cu.in.)	2494 (152.2)	2494 (152.2)	2494 (152.2)	2494 (152.2)	
	Compression Ratio			10.4 : 1	10.4 : 1	10.4 : 1	10.4 : 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)		kW / rpm (HP / rpm)	134 / 6000 (180 / 6000)	134 / 6000 (180 / 6000)	134 / 6000 (180 / 6000)	134 / 6000 (180 / 6000)	
Max. Torque (SAE-NET)		N·m / rpm (ft·lb / rpm)	235 / 4100 (173 / 4100)	235 / 4100 (173 / 4100)	235 / 4100 (173 / 4100)	235 / 4100 (173 / 4100)		
Engine Electrical	Battery Capacity (5HR)		Voltage & Amp. hr.	12 - 55	12 - 55	12 - 55	12 - 55	
	Generator Output		Watts	1200	1200	1200	1200	50
	Starter Output		kW	1.7	1.7	1.7	1.7	
Chassis	Clutch Type			—	—	—	—	
	Transmission 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	65
	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		
	Front		Standard	Standard	Standard	Standard	70	
	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	14.4	14.6	14.4		
Power Steering Type			Electric Motor	Electric Motor	Electric Motor	Electric Motor		

*1: Unladen vehicle

*4: Models with roof rail

*7: Option

*2: Models with run-flat tire

*5: Models with rear No. 2 seat

*3: Models with 225 / 65R17 tire

*6: Models with sliding roof

U.S.A.						
5-door Wagon						
	Limited (2WD)	Sport (2WD)	— (4WD)	Limited (4WD)	Sport (4WD)	— (2WD)
	ASA38L-A(C)NPGKA	ASA38L-A(C)NPSKA	GSA33L-A(C)NAXKA	GSA33L-A(C)NAGKA	GSA33L-A(C)NASKA	GSA38L-A(C)NAXKA
5	4575 (180.1)	4580 (180.3), 4575 (180.1)* ³	4575 (180.1)	4575 (180.1)	4580 (180.3), 4575 (180.1)* ³ 4500 (177.2)* ²	4575 (180.1)
	1855 (73.0)	1855 (73.0)	1815 (71.5)	1855 (73.0)	1855 (73.0)	1815 (71.5)
	1745 (68.7), 1755 (69.1)* ⁵	1745 (68.7)	1685 (66.3), 1745 (68.7)* ⁴ 1690 (66.5)* ⁵ , 1755 (69.1)* ^{4, 5}	1745 (68.7), 1755 (69.1)* ⁵	1745 (68.7)	1685 (66.3), 1745 (68.7)* ⁴ 1690 (66.5)* ⁵ , 1755 (69.1)* ^{4, 5}
	2660 (104.7)	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)	1560 (61.4)
10	1560 (61.4)	1560 (61.4)	1560 (61.4)	1560 (61.4)	1560 (61.4)	1560 (61.4)
	1037 (40.8), 1002 (39.4)* ⁶	1037 (40.8), 1002 (39.4)* ⁶	1037 (40.8)	1037 (40.8), 1002 (39.4)* ⁶	1037 (40.8), 1002 (39.4)* ⁶	1037 (40.8)
	1009 (39.7)	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)	1075 (42.3)
	940 (37.0)	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)	1450 (57.1)
	1405 (55.3)	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)	855 (33.7)
	1085 (42.7)	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)	190 (7.5)
20	29	29	29	29	29	29
	25	25	25	25	25	25
	900 (1984)	903 (1991)	975 (2150)	975 (2150)	979 (2158)	950 (2094)
	660 (1455)	655 (1444)	690 (1521)	703 (1550)	699 (1541)	651 (1435)
	1560 (3439)	1558 (3435)	1665 (3671)	1678 (3699)	1678 (3699)	1601 (3530)
25	—	—	—	—	—	—
	—	—	—	—	—	—
	2005 (4430) / 2145 (4730)	2005 (4430) / —	2140 (4720) / 2270 (5015)	2140 (4720) / 2270 (5015)	2140 (4720) / —	2085 (4600) / 2220 (4895)
	60 (15.85, 13.20)	60 (15.85, 13.20)	60 (15.85, 13.20)	60 (15.85, 13.20)	60 (15.85, 13.20)	60 (15.85, 13.20)
	—	—	—	—	—	—
30	—	—	—	—	—	—
	—	—	—	—	—	—
	—	—	—	—	—	—
	—	—	—	—	—	—
35	—	—	—	—	—	—
	—	—	—	—	—	—
	—	—	—	—	—	—
	5.7 (18.7)	6.0 (19.7)	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)	5.6 (18.4)
40	2AR-FE	2AR-FE	2GR-FE	2GR-FE	2GR-FE	2GR-FE
	16-valve DOHC with Dual VVT-i	16-valve DOHC with Dual VVT-i	24-valve, DOHC	24-valve, DOHC	24-valve, DOHC	24-valve, DOHC
	90.0 × 98.0 (3.54 × 3.86)	90.0 × 98.0 (3.54 × 3.86)	94.0 × 83.0 (3.70 × 3.27)	94.0 × 83.0 (3.70 × 3.27)	94.0 × 83.0 (3.70 × 3.27)	94.0 × 83.0 (3.70 × 3.27)
	2494 (152.2)	2494 (152.2)	3456 (210.9)	3456 (210.9)	3456 (210.9)	3456 (210.9)
	10.4 : 1	10.4 : 1	10.8 : 1	10.8 : 1	10.8 : 1	10.8 : 1
45	SFI	SFI	SFI	SFI	SFI	SFI
	87 or higher	87 or higher	91 or higher	91 or higher	91 or higher	91 or higher
	134 / 6000 (180 / 6000)	134 / 6000 (180 / 6000)	200 / 6200 (268 / 6200)	200 / 6200 (268 / 6200)	200 / 6200 (268 / 6200)	200 / 6200 (268 / 6200)
	235 / 4100 (173 / 4100)	235 / 4100 (173 / 4100)	336 / 4700 (248 / 4700)	336 / 4700 (248 / 4700)	336 / 4700 (248 / 4700)	336 / 4700 (248 / 4700)
	12 - 55	12 - 55	12 - 55	12 - 55	12 - 55	12 - 55
50	1200	1200	1200, 1800* ⁷	1200, 1800* ⁷	1200, 1800* ⁷	1200, 1800* ⁷
	1.7	1.7	1.7	1.7	1.7	1.7
	—	—	—	—	—	—
	U241E	U241E	U151F	U151F	U151F	U151E
	3.943	3.943	4.235	4.235	4.235	4.235
55	2.197	2.197	2.360	2.360	2.360	2.360
	1.413	1.413	1.517	1.517	1.517	1.517
	1.020	1.020	1.047	1.047	1.047	1.047
	—	—	0.756	0.756	0.756	0.756
	3.145	3.145	3.378	3.378	3.378	3.378
60	2.923	2.923	3.080	3.080	3.080	3.080
	—	—	0.439 / 2.277	0.439 / 2.277	0.439 / 2.277	—
	—	—	135 (5.3)	135 (5.3)	135 (5.3)	—
	Ventilated Disc	Ventilated Disc	Ventilated Disc	Ventilated Disc	Ventilated Disc	Ventilated Disc
	Solid 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	Duo-servo Drum
	Single, 10	Single, 10	Single, 10	Single, 10	Single, 10	Single, 10
	—	—	—	—	—	—
	MacPherson Strut	MacPherson Strut	MacPherson Strut	MacPherson Strut	MacPherson Strut	MacPherson Strut
	Double-wishbone	Double-wishbone	Double-wishbone	Double-wishbone	Double-wishbone	Double-wishbone
70	Standard	Standard	Standard	Standard	Standard	Standard
	Standard	Standard	Standard	Standard	Standard	Standard
	Rack and Pinion	Rack and Pinion	Rack and Pinion	Rack and Pinion	Rack and Pinion	Rack and Pinion
	14.4	14.6	14.4	14.4	14.6	14.4
	Electric Motor	Electric Motor	Electric Motor	Electric Motor	Electric Motor	Electric Motor

Item		Area		U.S.A.		Canada	
Body Type				5-door Wagon			
Vehicle Grade				Limited (2WD)	Sport (2WD)	— (4WD)	Limited (4WD)
Model Code				GSA38L-A(C)NAGKA	GSA38L-A(C)NASKA	ASA33L-A(C)NPXKK	ASA33L-A(C)NPGKK
Major Dimensions & Vehicle Weights	Overall	Length	mm (in.)	4575 (180.1)	4580 (180.3), 4575 (180.1)* ³	4570 (180.0), 4575 (180.1)* ³	4575 (180.1)
		Width	mm (in.)	1855 (73.0)	1855 (73.0)	1815 (71.5)	1855 (73.0)
		Height* ¹	mm (in.)	1745 (68.7), 1755 (69.1)* ⁵	1745 (68.7)	1685 (66.3), 1745 (68.7)* ⁴ 1690 (66.5)* ⁵ , 1755 (69.1)* ^{4, 5}	1745 (68.7), 1755 (69.1)* ⁵
	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)* ⁶	1037 (40.8), 1002 (39.4)* ⁶	1037 (40.8)	1037 (40.8), 1002 (39.4)* ⁶
		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)	950 (2094)	954 (2103)	912 (2011)	923 (2035)
		Rear	kg (lb)	665 (1466)	661 (1457)	667 (1470)	692 (1526)
		Total	kg (lb)	1615 (3560)	1615 (3560)	1579 (3481)	1615 (3560)
	Gross Vehicle Weight	Front	kg (lb)	—	—	—	—
		Total (2nd / 3rd)	kg (lb)	2085 (4600) / 2220 (4895)	2085 (4600) / —	2055 (4535) / 2205 (4865)	2055 (4535) / 2205 (4865)
	Fuel Tank Capacity ℓ (US.gal., Imp.gal.)			60 (15.85, 13.20)	60 (15.85, 13.20)	60 (15.85, 13.20)	60 (15.85, 13.20)
	Luggage Compartment Capacity m ³ (cu.ft.)			—	—	—	—
	Performance	Max. Speed		km / h (mph)	—	—	—
Max. Cruising Speed		km / h (mph)	—	—	—	—	
Acceleration		0 to 60 mph	sec.	—	—	—	—
		0 to 400 m	sec.	—	—	—	—
Max. Permissible Speed		1st Gear	km / h (mph)	—	—	—	—
		2nd Gear	km / h (mph)	—	—	—	—
		3rd Gear	km / h (mph)	—	—	—	—
		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	2AR-FE	2AR-FE
	Valve Mechanism			24-valve, DOHC	24-valve, DOHC	16-valve DOHC with Dual VVT-i	16-valve DOHC with Dual VVT-i
	Bore × Stroke		mm (in.)	94.0 × 83.0 (3.70 × 3.27)	94.0 × 83.0 (3.70 × 3.27)	90.0 × 98.0 (3.54 × 3.86)	90.0 × 98.0 (3.54 × 3.86)
	Displacement		cm ³ (cu.in.)	3456 (210.9)	3456 (210.9)	2494 (152.2)	2494 (152.2)
	Compression Ratio			10.8 : 1	10.8 : 1	10.4 : 1	10.4 : 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)		kW / rpm (HP / rpm)	200 / 6200 (268 / 6200)	200 / 6200 (268 / 6200)	134 / 6000 (180 / 6000)	134 / 6000 (180 / 6000)
	Max. Torque (SAE-NET)		N·m / rpm (ft·lb / rpm)	336 / 4700 (248 / 4700)	336 / 4700 (248 / 4700)	235 / 4100 (173 / 4100)	235 / 4100 (173 / 4100)
Engine Electrical	Battery Capacity (5HR)		Voltage & Amp. hr.	12 - 55	12 - 55	12 - 55	12 - 55
	Generator Output		Watts	1200, 1800* ⁷	1200, 1800* ⁷	1200	1200
Starter Output		kW	1.7	1.7	1.7	1.7	
Chassis	Clutch Type			—	—	—	—
	Transmission 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

*4: Models with roof rail

*7: Option

*2: Models with run-flat tire

*5: Models with rear No. 2 seat

*3: Models with 225 / 65R17 tire

*6: Models with sliding roof

Canada						
5-door Wagon						
	Sport (4WD)	— (4WD)	Limited (4WD)	Sport (4WD)	— (2WD)	Limited (2WD)
	ASA33L-A(C)NPSKK	GSA33L-A(C)NAXKK	GSA33L-A(C)NAGKK	GSA33L-A(C)NASKK	ASA38L-CNPXKK	ASA38L-CNPGKK
5	4580 (180.3)	4575 (180.1)	4575 (180.1)	4580 (180.3), 4500 (177.2)* ²	4570 (180.0), 4575 (180.1)* ³	4575 (180.1)
	1855 (73.0)	1815 (71.5)	1855 (73.0)	1855 (73.0)	1815 (71.5)	1855 (73.0)
	1745 (68.7)	1685 (66.3), 1745 (68.7)* ⁴ 1690 (66.5)* ⁵ , 1755 (69.1)* ^{4, 5}	1745 (68.7), 1755 (69.1)* ⁵	1745 (68.7)	1685 (66.3), 1745 (68.7)* ⁴ 1690 (66.5)* ⁵ , 1755 (69.1)* ^{4, 5}	1745 (68.7), 1755 (69.1)* ⁵
	2660 (104.7)	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)	1560 (61.4)
10	1560 (61.4)	1560 (61.4)	1560 (61.4)	1560 (61.4)	1560 (61.4)	1560 (61.4)
	1037 (40.8), 1002 (39.4)* ⁶	1037 (40.8)	1037 (40.8), 1002 (39.4)* ⁶	1037 (40.8), 1002 (39.4)* ⁶	1037 (40.8)	1037 (40.8), 1002 (39.4)* ⁶
	1009 (39.7)	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)	1075 (42.3)
	940 (37.0)	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)	1450 (57.1)
	1405 (55.3)	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)	855 (33.7)
	1085 (42.7)	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)	190 (7.5)
20	29	29	29	29	29	29
	25	25	25	25	25	25
	923 (2035)	971 (2141)	973 (2145)	975 (2150)	892 (1967)	900 (1984)
	690 (1521)	687 (1515)	699 (1541)	697 (1537)	632 (1393)	660 (1455)
	1613 (3556)	1658 (3655)	1672 (3686)	1672 (3686)	1524 (3360)	1560 (3439)
25	—	—	—	—	—	—
	—	—	—	—	—	—
	2055 (4535) / —	2140 (4720) / 2270 (5015)	2140 (4720) / 2270 (5015)	2140 (4720) / —	2005 (4430) / 2145 (4730)	2005 (4430) / 2145 (4730)
	60 (15.85, 13.20)	60 (15.85, 13.20)	60 (15.85, 13.20)	60 (15.85, 13.20)	60 (15.85, 13.20)	60 (15.85, 13.20)
	—	—	—	—	—	—
30	—	—	—	—	—	—
	—	—	—	—	—	—
	—	—	—	—	—	—
	—	—	—	—	—	—
35	—	—	—	—	—	—
	—	—	—	—	—	—
	—	—	—	—	—	—
	6.0 (19.7)	6.0 (19.7)	6.0 (19.7)	6.0 (19.7)	5.7 (18.7)	5.7 (18.7)
	5.6 (18.4)	5.6 (18.4)	5.6 (18.4)	5.6 (18.4)	5.3 (17.4)	5.3 (17.4)
40	2AR-FE	2GR-FE	2GR-FE	2GR-FE	2AR-FE	2AR-FE
	16-valve DOHC with Dual VVT-i	24-valve, DOHC	24-valve, DOHC	24-valve, DOHC	16-valve DOHC with Dual VVT-i	16-valve DOHC with Dual VVT-i
	90.0 × 98.0 (3.54 × 3.86)	94.0 × 83.0 (3.70 × 3.27)	94.0 × 83.0 (3.70 × 3.27)	94.0 × 83.0 (3.70 × 3.27)	90.0 × 98.0 (3.54 × 3.86)	90.0 × 98.0 (3.54 × 3.86)
	2494 (152.2)	3456 (210.9)	3456 (210.9)	3456 (210.9)	2494 (152.2)	2494 (152.2)
	10.4 : 1	10.8 : 1	10.8 : 1	10.8 : 1	10.4 : 1	10.4 : 1
45	SFI	SFI	SFI	SFI	SFI	SFI
	87 or higher	91 or higher	91 or higher	91 or higher	87 or higher	87 or higher
	134 / 6000 (180 / 6000)	200 / 6200 (268 / 6200)	200 / 6200 (268 / 6200)	200 / 6200 (268 / 6200)	134 / 6000 (180 / 6000)	134 / 6000 (180 / 6000)
	235 / 4100 (173 / 4100)	336 / 4700 (248 / 4700)	336 / 4700 (248 / 4700)	336 / 4700 (248 / 4700)	235 / 4100 (173 / 4100)	235 / 4100 (173 / 4100)
	12 - 55	12 - 55	12 - 55	12 - 55	12 - 55	12 - 55
50	1200	1200, 1800* ⁷	1200, 1800* ⁷	1200, 1800* ⁷	1200	1200
	1.7	1.7	1.7	1.7	1.7	1.7
	—	—	—	—	—	—
	U140F	U151F	U151F	U151F	U241E	U241E
	3.938	4.235	4.235	4.235	3.943	3.943
55	2.194	2.360	2.360	2.360	2.197	2.197
	1.411	1.517	1.517	1.517	1.413	1.413
	1.019	1.047	1.047	1.047	1.020	1.020
	—	0.576	0.576	0.576	—	—
	3.141	3.378	3.378	3.378	3.145	3.145
60	3.080	3.080	3.080	3.080	2.923	2.923
	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	Ventilated Disc	Ventilated Disc
	Solid 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	Duo-servo Drum
	Single, 10	Single, 10	Single, 10	Single, 10	Single, 10	Single, 10
	—	—	—	—	—	—
	MacPherson Strut	MacPherson Strut	MacPherson Strut	MacPherson Strut	MacPherson Strut	MacPherson Strut
	Double-wishbone	Double-wishbone	Double-wishbone	Double-wishbone	Double-wishbone	Double-wishbone
70	Standard	Standard	Standard	Standard	Standard	Standard
	Standard	Standard	Standard	Standard	Standard	Standard
	Rack and Pinion	Rack and Pinion	Rack and Pinion	Rack and Pinion	Rack and Pinion	Rack and Pinion
	14.6	14.4	14.4	14.6	14.4	14.4
	Electric Motor	Electric Motor	Electric Motor	Electric Motor	Electric Motor	Electric Motor

Item			Area	Canada			
Body Type				5-door Wagon			
Vehicle Grade				Sport (2WD)	— (2WD)	Limited (2WD)	Sport (2WD)
Model Code				ASA38L-CNPSKK	GSA38L-CNAXKK	GSA38L-CNAGKK	GSA38L-CNASKK
Major Dimensions & Vehicle Weights	Overall	Length	mm (in.)	4580 (180.3)	4575 (180.1)	4575 (180.1)	4580 (180.3)
		Width	mm (in.)	1855 (73.0)	1815 (71.5)	1855 (73.0)	1855 (73.0)
		Height* ¹	mm (in.)	1745 (68.7)	1685 (66.3), 1745 (68.7)* ² 1690 (66.5)* ³ , 1755 (69.1)* ^{2, 3}	1745 (68.7), 1755 (69.1)* ³	1745 (68.7)
	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)* ⁴	1037 (40.8)	1037 (40.8), 1002 (39.4)* ⁴	1037 (40.8), 1002 (39.4)* ⁴
		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)	903 (1991)	950 (2094)	950 (2094)	954 (2103)
		Rear	kg (lb)	655 (1444)	651 (1435)	665 (1466)	661 (1457)
		Total	kg (lb)	1558 (3435)	1601 (3530)	1615 (3560)	1615 (3560)
Gross Vehicle Weight	Front	kg (lb)	—	—	—	—	
	Rear	kg (lb)	—	—	—	—	
Total (2nd / 3rd)		kg (lb)	2005 (4430) / —	2085 (4600) / 2220 (4895)	2085 (4600) / 2220 (4895)	2085 (4600) / —	
Fuel Tank Capacity		ℓ (US gal., Imp.gal.)	60 (15.85, 13.20)	60 (15.85, 13.20)	60 (15.85, 13.20)	60 (15.85, 13.20)	
Luggage Compartment Capacity		m ³ (cu.ft.)	—	—	—	—	
Performance	Max. Speed		km / h (mph)	—	—	—	—
	Max. Cruising Speed		km / h (mph)	—	—	—	—
	Acceleration	0 to 60 mph	sec.	—	—	—	—
		0 to 400 m	sec.	—	—	—	—
	Max. Permissible Speed	1st Gear	km / h (mph)	—	—	—	—
		2nd Gear	km / h (mph)	—	—	—	—
		3rd Gear	km / h (mph)	—	—	—	—
		4th Gear	km / h (mph)	—	—	—	—
	Turning Diameter (Outside Front)	Wall to Wall	m (ft.)	6.0 (19.7)	6.0 (19.7)	6.0 (19.7)	6.0 (19.7)
Curb to Curb		m (ft.)	5.6 (18.4)	5.6 (18.4)	5.6 (18.4)	5.6 (18.4)	
Engine	Engine Type			2AR-FE	2GR-FE	2GR-FE	2GR-FE
	Valve Mechanism			16-valve DOHC with Dual VVT-i	24-valve, DOHC	24-valve, DOHC	24-valve, DOHC
	Bore × Stroke		mm (in.)	90.0 × 98.0 (3.54 × 3.86)	94.0 × 83.0 (3.70 × 3.27)	94.0 × 83.0 (3.70 × 3.27)	94.0 × 83.0 (3.70 × 3.27)
	Displacement		cm ³ (cu.in.)	2494 (152.2)	3456 (210.9)	3456 (210.9)	3456 (210.9)
	Compression Ratio			10.4 : 1	10.8 : 1	10.8 : 1	10.8 : 1
	Fuel System			SFI	SFI	SFI	SFI
	Octane Rating			87 or higher	91 or higher	91 or higher	91 or higher
	Max. Output (SAE-NET)		kW / rpm (HP / rpm)	134 / 6000 (180 / 6000)	200 / 6200 (268 / 6200)	200 / 6200 (268 / 6200)	200 / 6200 (268 / 6200)
Max. Torque (SAE-NET)		N·m / rpm (ft·lb / rpm)	235 / 4100 (173 / 4100)	336 / 4700 (248 / 4700)	336 / 4700 (248 / 4700)	336 / 4700 (248 / 4700)	
Engine Electrical	Battery Capacity (5HR)		Voltage & Amp. hr.	12 - 55	12 - 55	12 - 55	12 - 55
	Generator Output		Watts	1200	1200, 1800* ⁵	1200, 1800* ⁵	1200, 1800* ⁵
	Starter Output		kW	1.7	1.7	1.7	1.7
Chassis	Clutch Type			—	—	—	—
	Transmission Type			U241E	U151E	U151E	U151E
	Gear Ratio (Counter Gear Ratio Included)	In First		3.943	4.235	4.235	4.235
		In Second		2.197	2.360	2.360	2.360
		In Third		1.413	1.517	1.517	1.517
		In Fourth		1.020	1.047	1.047	1.047
		In Fifth		—	0.756	0.576	0.576
		In Reverse		3.145	3.378	3.378	3.378
	Differential Gear Ratio (Final)			2.923	3.080	3.080	3.080
	Transfer / Rear Differential Gear Ratio			—	—	—	—
	Rear Differential Gear Size		mm (in.)	—	—	—	—
	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)			14.6	14.4	14.4	14.6	
Power Steering Type			Electric Motor	Electric Motor	Electric Motor	Electric Motor	

*1 : Unladen vehicle

*4: Models with sliding roof

*2: Models with roof rail

*5: Option

*3: Models with rear No. 2 seat