

AUDIO UNIT (WITH COLOR LCD)

id092000110300

Note

- “iPod” is a registered trademark of Apple Inc. in the United States and other countries.

Purpose

- The audio unit controls the CD, radio, exterior input devices (AUX/USB/iPod) and the display.

Function

- Records the following items which the user has set.

	Item	Specification
Preset memory	AM	6
	LW/AM	6
	FM1	6
	FM2	6

- The imbedded touch panel type display in the audio unit displays music information for CD and radio, and it also displays back camera images and the navigation screen.
- The audio unit has the following functions:

USB/iPod applicable

- A USB device such as USB memory or an iPod connected to the auxiliary jack/USB port can be controlled by the audio unit.

User personalization

- By operating the display of the audio unit, the following personalization features can be set.
- Door Locks Systems
 - Advanced keyless entry system
 - Auto Re-lock Time
 - Lock Beep Volume
 - Walk Away Lock
 - Keyless entry system
 - Auto Re-lock Time
 - Power door lock system
 - Unlock Mode (Without Touch Sensor)
 - Auto Door Lock Mode
- Lighting Systems
 - Turn light system
 - 3-Flash Turn Signal
 - Auto light system
 - Auto-headlight On
 - Auto Light OFF System
 - Headlight Off Timer
 - Room Light Control System
 - Interior Light Timeout - Door Open
 - Interior Light Timeout - Door Closed
- Wiper/Washer System
 - Rain Sensing Wipers

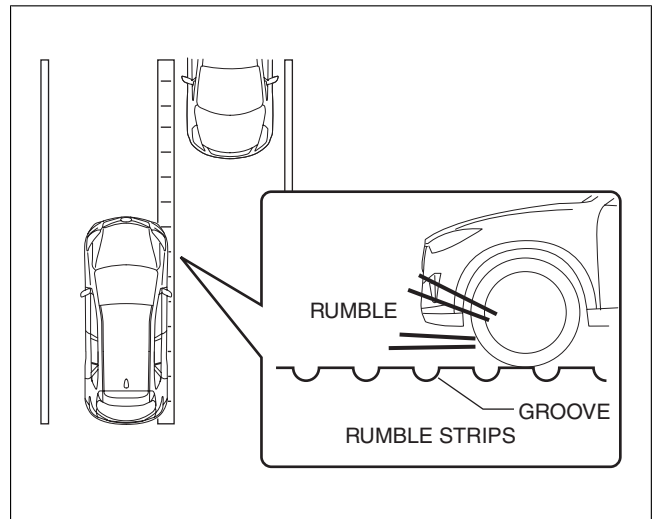
Note

- For details on each personalization feature, refer to personalization items for each system. (See SECURITY AND LOCKS PERSONALIZATION.) (See LIGHTING SYSTEM PERSONALIZATION.) (See WIPER/WASHER SYSTEM PERSONALIZATION.)

Lane departure warning system (LDWS) warning function

- The audio unit contains a rumble strip ^{*1} recording. When a warning sound request signal from the FSC is received, the recorded rumble strip sound is output. Refer to LANE DEPARTURE WARNING SYSTEM (LDWS) for details on the LDWS.

^{*1} : A rumble strip is a series of grooves in the road pavement surface positioned at specific intervals, and when the vehicle passes over it a rumble sound is produced and an uncomfortable vibration can be felt which alerts the driver that the vehicle is departing from the lane lines. The rumble strip sound is a reproduction of the sound which occurs when a vehicle passes over a rumble strip.



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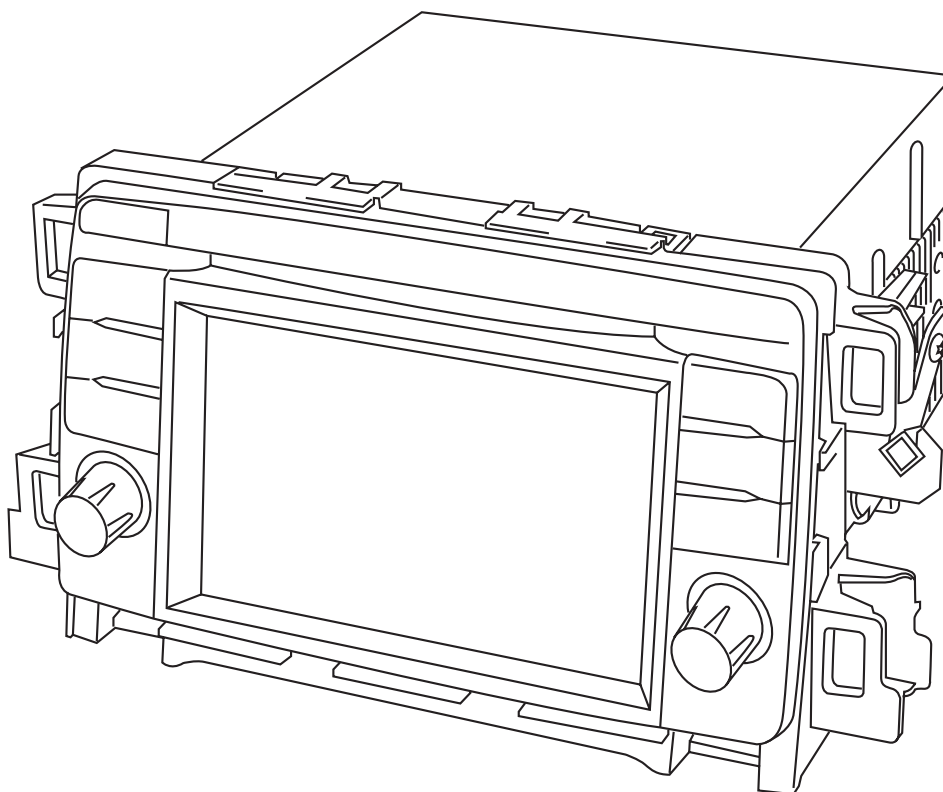
Specification

Item		Specification
Rated voltage (V)		12
Frequency range	AM (kHz)	531—1602 (European (L.H.D. U.K.) specs., General (L.H.D. R.H.D.)specs.) 530—1620 (With AM frequency pitch: 5KHz pitch) 522—1629 (With AM frequency pitch: 9KHz pitch)
	FM (MHz)	87.5—108
Amplifier maximum output (W)		With Bose®: 264 (external audio amplifier) Without Bose®: 25×4
Output impedance (ohm)		4
Display	Size (inches)	480×272 (5.8)
	Type	TFT * (Thin Film Transistor): Full-color

* : Short for Thin Film Transistor Used a lot with color LCDs.

Construction

- An audio unit with AM/FM tuner/MP3/WMA (Windows Media Audio)/AAC (Advanced Audio Coding) applicable CD player is assembled in the audio panel.

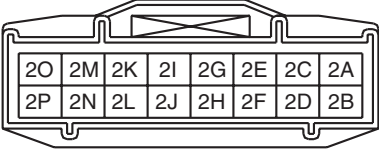
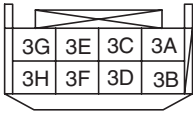
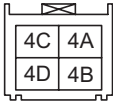

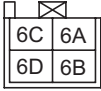


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Terminal layout and signal

Audio unit

Terminal	Signal
	1A Front door speaker LH (+)
	1B B+
	1C Front door speaker LH (-)
	1D Front door speaker RH (+)
	1E TNS (+)
	1F Front door speaker RH (-)
	1G TNS (-)
	1H Steering switch3
	1I Vehicle speed signal
	1J Amplifier control *1
	1K Parking brake signal
	1L —
	1M R position signal
	1N Steering switch1
	1O CAN_H
	1P Steering switch2
	1Q CAN_L
	1R ACC
	1S Rear door speaker LH (+)
	1T AudioPilot®2 control *1
	1U Rear door speaker LH (-)
	1V Rear door speaker RH (+)
	1W Power ground
	1X Rear door speaker RH (-)

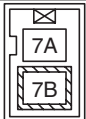
Terminal		Signal
	2A	Bluetooth voice input RH (+)
	2B	Bluetooth voice input RH (-)
	2C	Bluetooth voice input LH (+)
	2D	Bluetooth voice input LH (-)
	2E	AUDIO voice input RH (+)
	2F	AUDIO voice input RH (-)
	2G	AUDIO voice input LH (+)
	2H	AUDIO voice input LH (-)
	2I	HS-CAN (+)
	2J	HS-CAN (-)
	2L	Microphone voice input (+)
	2N	Microphone voice input (-)
	2P	Microphone ground
	2R	Microphone power
	2T	Microphone connection detection
	2V	—
	2W	AUX connection detection
	2X	AUX signal LH RH (-)
	2Y	AUX signal RH (+)
	2Z	AUX signal LH (+)
	2AA	—
	2AB	—
	2AC	—
	2AD	—
	3A	CM-SW GND *2
	3B	CM-SW1 *2
	3C	—
	3D	CM-SW3 *2
	3E	Commander connection detection *2
	3F	CM-PH GND *2
	3G	CM-PH2 *2
	3H	CM-PH2 *2
	4A	USB GND
	4B	USB data (+)
	4C	USB power supply
	4D	USB data (-)
	5A	USB power supply
	5B	USB data (+)
	5C	USB GND
	5D	USB data (-)
	6A	Rear mount camera power supply *3
	6B	Rear mount camera power supply ground *3
	6C	Rear mount camera image ground *3
	6D	Rear mount camera power signal input *3

*1 : With Bose®

*2 : With commander switch

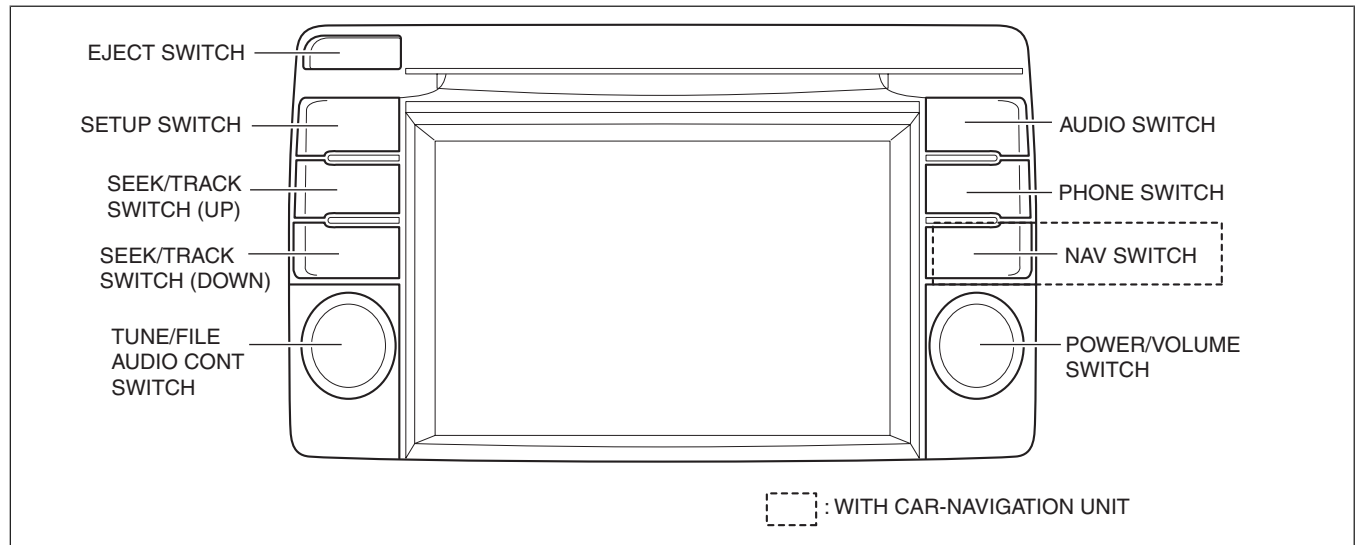
*3 : With rear mount camera

Antenna feeder connector

Terminal		Signal
	7A	ANT CONT
	7B	Antenna

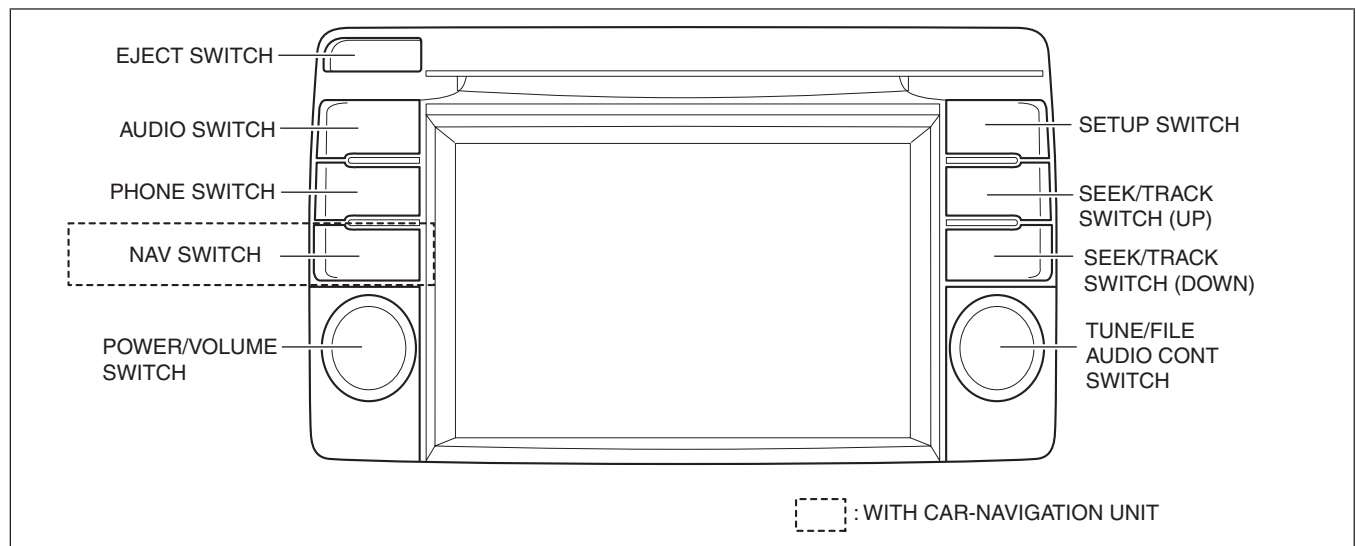
Switch location

With POWER/VOLUME switch on right side



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With POWER/VOLUME switch on left side



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Operation

- For the audio unit operation, refer to the AUDIO SYSTEM.

User personalization

- When a panel switch on the audio unit or the SETUP switch on the commander switch is pressed, the system switches to SETUP mode.
- When the vehicle button on the SETUP mode screen displayed in the audio unit display is pressed, the system names which can be set are displayed in the audio unit display.
- The audio unit sends the personalization feature change information set by the user to the each control system (Start stop unit, rear body control module (RBCM), FSC) via CAN communication.
- When each control system (Start stop unit, rear body control module (RBCM), FSC) receive the personalization feature change information, each personalization feature setting is changed according to the change information.

Note

- Refer to the Personalization Features for details on the method for setting the personalization features.

Fail-safe

- Function not equipped.