

BLUETOOTH® HANDS-FREE SYSTEM

■ DESCRIPTION

The Bluetooth hands-free system allows the driver 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.

- The Bluetooth hands-free system is installed on both the audio head unit in the premium audio system and the navigation receiver assembly in the navigation with AV system.

— REFERENCE —



001S150Y

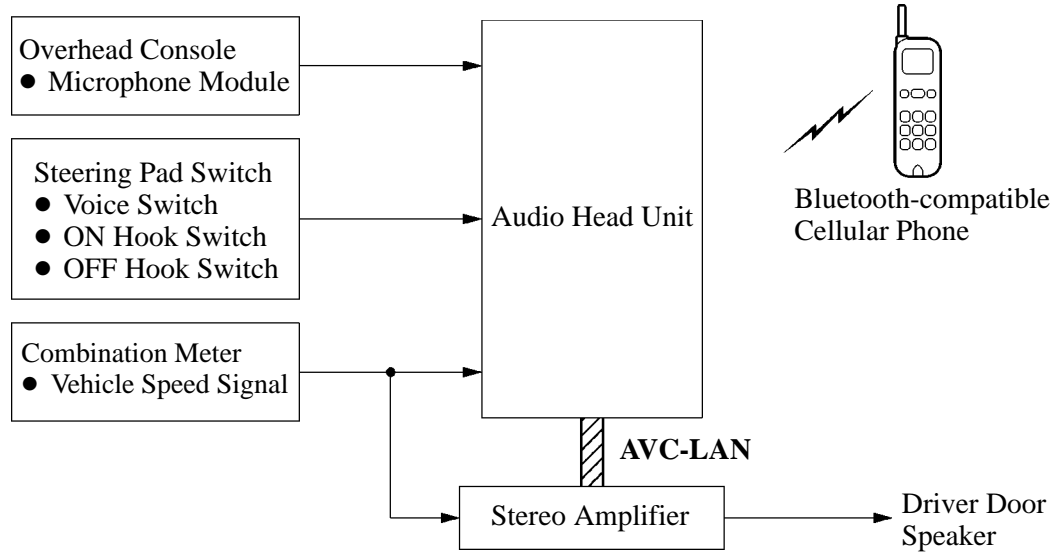
Bluetooth is a trademark owned by Bluetooth SIG (Special Interest Group). Bluetooth is a high-speed wireless data communication function that uses the 2.4 GHz frequency band prescribed by the Bluetooth SIG, with communication at a speed of 1 Mbps.

■ MAJOR FUNCTION

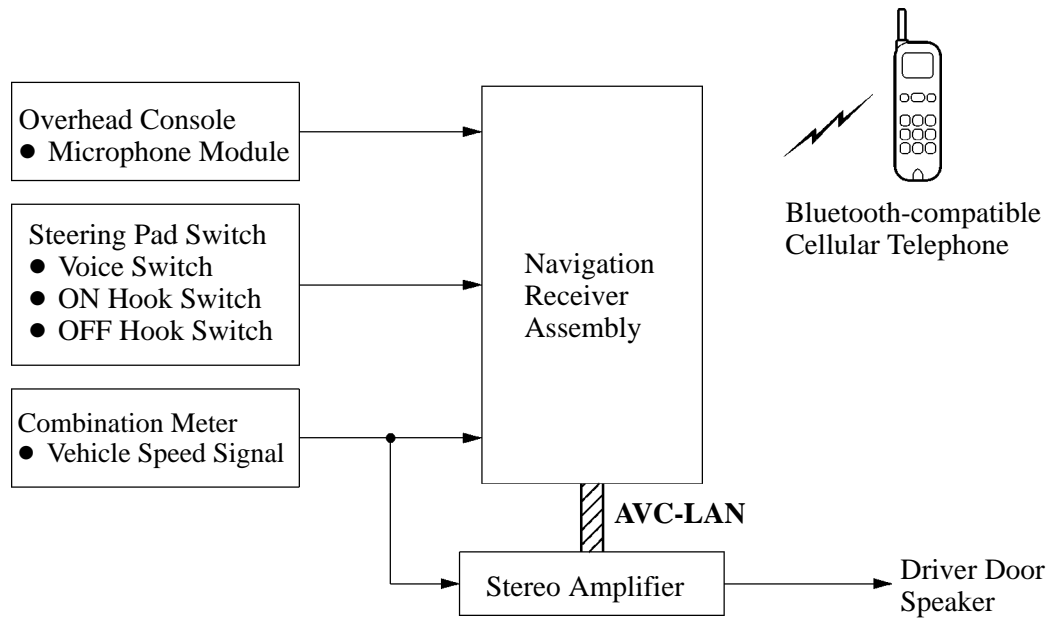
The audio head unit in the premium audio system and navigation receiver assembly in the navigation with AV system have the major hands-free functions shown in the following table:

○: Equipped —: Not Equipped

Function		Audio Head Unit (Premium Audio System)	Navigation Receiver Assembly (Navigation with AV System)
Call with Bluetooth phone	By dialing	—	○
	By phonebook	○ (Max. Entry: 20)	○ (Max. Entry: 1000)
	By dialed numbers	○ (Max. Entry: 5)	○ (Max. Entry: 5)
	By received calls	○ (Max. Entry: 5)	○ (Max. Entry: 5)
	By speed dial	○	○
	By voice recognition	○	○
	By POI (Point of Interest) call	—	○
Registering phonebook		○ (Max. Entry: 20)	○ (Max. Entry: 1000)
Registering voice recognition		○ (Max. Entry: 20)	○ (Max. Entry: 20)
Registering speed dial		○ (Max. Entry: 6)	○ (Max. Entry: 17)
Registering speed tone		—	○ (Max. Entry: 6)
Registering group		—	○ (Max. Entry: 20)
Automatic volume setting		○	○

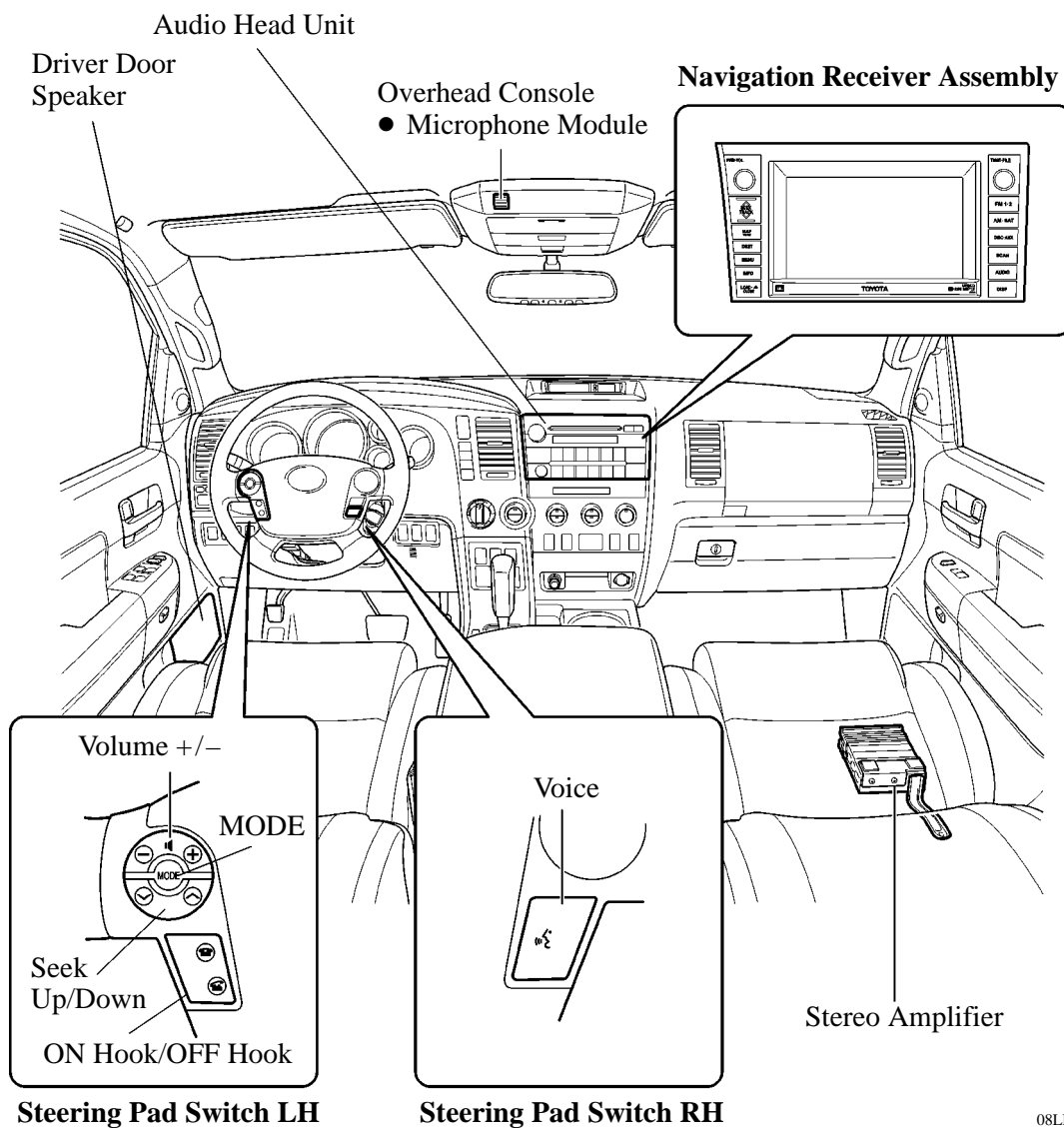
■ SYSTEM DIAGRAM**1. Audio Head Unit (Premium Audio System)**

04E0BE58C

2. Navigation Receiver Assembly (Navigation with AV System)

04E0BE116C

■ LAYOUT OF MAIN COMPONENTS



08LBE93Y

■ HANDS-FREE FUNCTIONS (AUDIO HEAD UNIT)

The hands-free function of the audio head unit has the functions listed below. 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 has been transferred from the user's cellular phone. The user can register up to 20 numbers in the phonebook.
	By dialed numbers	The user can call by selecting a previously dialed number. 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. The system will remember the numbers of the last 5 callers. If more than 5 calls have been received, the oldest number will no longer be remembered.
	By speed dial*	The user can call using a 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 the sound.
Talk on the Bluetooth phone		While user is talking on the phone, the phone number or registered caller name is displayed on the audio head unit LCD.
Change the settings of the Bluetooth phone	Registering the 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 the 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 change the settings.
	Setting the security	By setting the security, the user can prevent people from using some hands-free functions. It is useful when the user leaves the vehicle 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 four-digits. Choose a new code that is hard for other people to guess.
		Phonebook lock: The user can set the phonebook lock.
	Initializing the security code: The user can initialize the settings.	

*: The user can operate it while driving.

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Function		Outline
Change the settings of the Bluetooth phone	Setting the phonebook	Transferring a telephone number: The user can transfer telephone numbers from the user's cellular phone to the system.
		Registering the phonebook data: Up to 20 data can be registered in the phonebook. The user can register phone numbers using the following methods: <ul style="list-style-type: none"> ● Voice recognition ● Using dialed numbers and received calls ● Inputting phone numbers using the control knob of the audio head unit.
		Add entry: The user can register voice recognition data for a maximum of 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 their registered 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.
Set a Bluetooth phone	Enter the 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 phones from a maximum of 6 numbers.
	Select the 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 a selected phone is available 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 the passkey	The user can change the passkey on the audio head unit LCD.
	Deleting a Bluetooth phone	The user can delete a registered Bluetooth phone.

■ HANDS-FREE FUNCTIONS (NAVIGATION RECEIVER ASSEMBLY)

The hands-free function of the navigation receiver assembly has the functions listed below. However, for safety, some functions may not be selectable when the vehicle is being driven.

Function		Outline
Call with 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 dialed numbers	The user can call by selecting a previously dialed number. 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. The system will remember numbers of the last 5 callers. If more than 5 calls have been received, the oldest number will no longer be remembered.
	By speed dial*	The user can call by using registered telephone numbers that the user selected from the phonebook, dialed numbers or received calls.
	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.
	By POI (Point of Interest) call	The user can call by operating a switch when "Call" is displayed on the navigation screen.
Receive with Bluetooth phone		When a call is received, the receive screen is displayed with a sound.
Talk on the Bluetooth phone		While user is talking on the phone, the talking screen is displayed.
Change the settings of the Bluetooth phone	Registering the speed dial	The user can register a desired telephone number from the phonebook, dialed numbers or received calls. Up to 17 speed dial numbers can be registered.
	Setting the 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 change the settings.
	Setting the security	By setting the security, the user can prevent people from using some hands-free functions. It is useful when the user leaves their vehicle 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 and the default is "0000". Choose a new code that is hard for other people to guess. Phonebook lock: The user can set the phonebook lock. Initializing the security code: The user can initialize the settings.

*: The user can operate it while driving.

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Function		Outline
Change the settings of the Bluetooth phone	Setting the phonebook	Transferring a telephone number: The user can transfer telephone numbers from the user's cellular phone to the system. Up to 1,000 data items (up to 2 numbers per entry) can be registered in the phonebook.
		Registering phone numbers: The user can register phone numbers in the phonebook.
		Registering a group name: The user can register up to 20 groups.
		Registering the phonebook data: The user can register the phonebook data.
		Setting the voice recognition: The user can set the voice recognition. Up to 20 numbers can be registered to allow voice recognition.
		Adding data to the phonebook: The user can add data to the phonebook.
		Editing a name: If no name has been inputted, the number is displayed.
		Editing a phone number: The user can register a phone number in "TEL1" and "TEL2" separately. Up to 2 numbers per phonebook entry can be registered.
		Editing data: The user can edit the registered data.
		Editing a group name: The user can input the name with the software keyboard.
		Selecting the group: The user can set a group for a contact. It will then be easier for the user to find this contact when needed, by using the grouping display.
		Selecting a group icon: The user can select the desired icon.
		Deleting data: The user can delete the data.
		Deleting all the phone data: The user can delete all the phone data.
		Deleting a group name: The user can delete the group names individually or all at once.
		Deleting the log data: The user can delete the log data individually or all at once.
	Setting the screen	Receiving call display: The user can select the method of the receiving call display.
		Auto answer: When a call is received, the display automatically changes to the talking screen and user can start to talk on the phone (without touching any switches) after a preset time.
		The Bluetooth connection status at startup: When the user turns the ignition switch to ACC or ON and the Bluetooth is automatically connected, the connection check is displayed.
		Initializing the settings: The user can initialize the settings.

*: The user can operate it while driving.

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Function		Outline
Set a Bluetooth phone	Enter the Bluetooth phone	<p>In order to use the hands-free function of a Bluetooth phone, it is necessary to register it in the navigation receiver assembly. Once a phone is registered, the hands-free function becomes available automatically.</p> <p>The user can register up to 6 phones from a maximum of 6 numbers.</p>
	Select the Bluetooth phone	<p>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 the selected phone is available as a hands-free phone. The phone registered last is automatically selected.</p>
	Indicate and change Bluetooth information	<p>The user can set, change and initialize the information of the Bluetooth phone displayed on the screen.</p>
	Deleting a Bluetooth phone	<p>A registered Bluetooth phone can be unregistered from the radio and player with display.</p>
	Displaying the information of the Bluetooth phone to be deleted by the user	<p>The user can display the information of the Bluetooth phone before deleting it and ensure that the telephone that will be deleted is the correct one.</p>