

Description of Multi Display

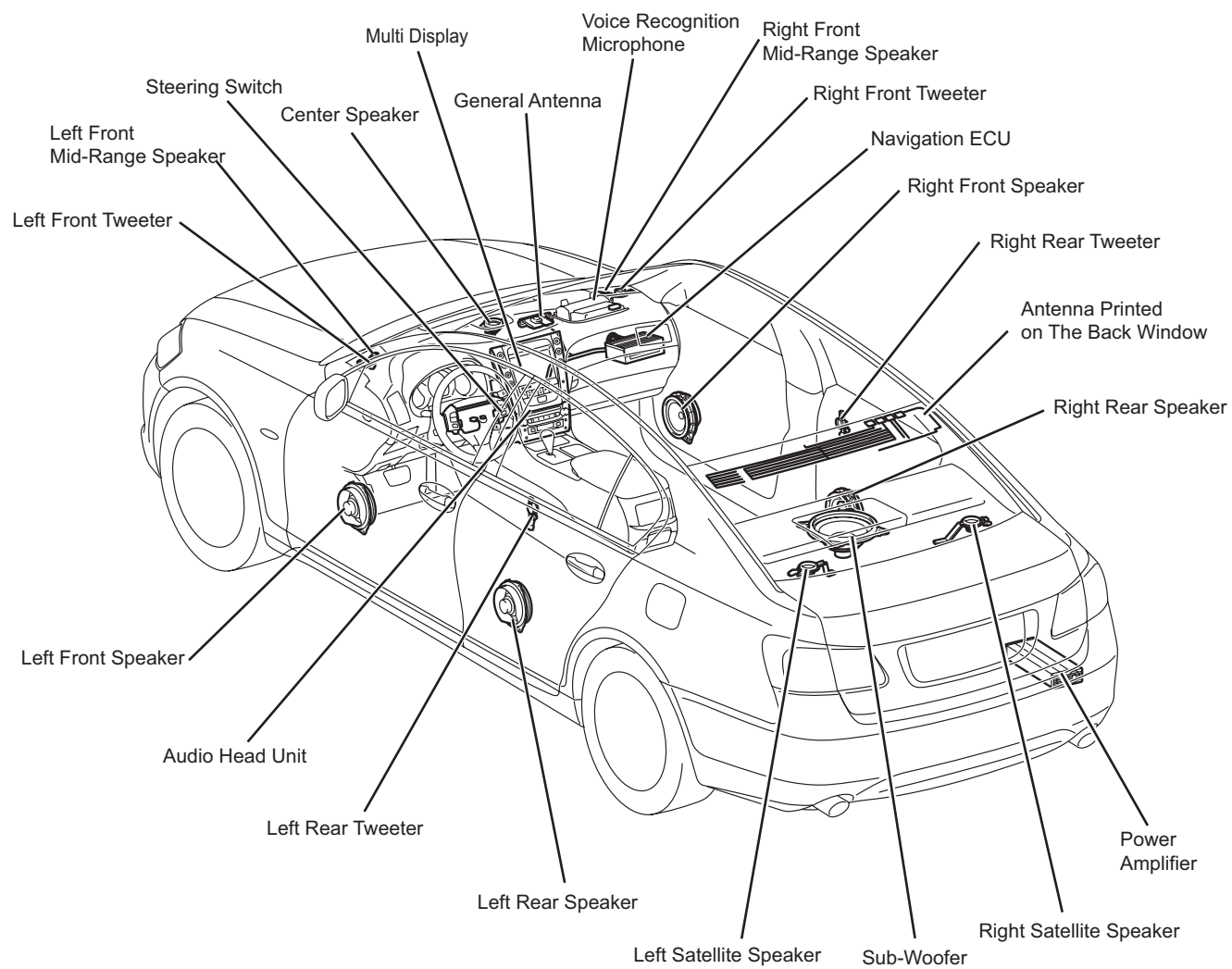
- A multi display consisting of a 7-inch wide screen that excels in visibility is used. This screen switches between navigation, information, and audio screens. In addition, an ultra-fine EMV (Electro Multi Vision) with DVD voice navigation to operate the foregoing functions is provided on all models as standard equipment.
- An ultra high-speed interface called GVIF (Gigabit Video Interface) is used as the method for transmitting images on the multi display. It gives the screen a high graphic and appearance quality
- This system supports Bluetooth, a wireless communication system. When a person is using*1 a mobile telephone that supports Bluetooth, this system enables handsfree calls with no need to connect the telephone via a cable or cradle. Thus, it excels in ease of use.
- The design of the operation screens and the map screen display of the navigation system have been renewed for enhanced looks.
- A voice operation function is used. Thus, the system can be operated by voice commands through the use of the voice recognition system.*2

❖REFERENCE❖

*1Only mobile telephones that support Bluetooth and are equipped with a handsfree profile.

*2Only for Europe Models.

Multi Display : System Configuration



Note: The illustration gives a representative example.

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Main Component

Component	Main Function
Multi Display	• The multi display performs various controls including the navigation system and the Electro Multivision system, and displays various screens on the multi display.

Component		Main Function
Built-In Components	Main ECU (for display)	• Inputs and controls the video signals provided by the main ECU for the navigation system and outputs them to the display panel. • Controls the various displays and functions for the Electro Multivision system in accordance with the various operating signals that are input. • Adjusts the color balance of the display screen.
	Display Panel	• Displays the map screen or the operation screen in accordance with the video signals provided by the main ECU for the display. • Outputs the various operating signals that are input to the main computer for the navigation system.
	Main ECU (for navigation system)	• Detects the position of the vehicle in accordance with the signals provided by the GPS receiver. • Calculates the driven distance in accordance with the vehicle speed signals provided by the combination meter. • Detects the direction of travel in accordance with the signals provided by the gyro sensor. • Outputs the map information data that is read from the DVD-ROM player and the position of the vehicle that is calculated to the main ECU for the display in the form of video signals. • Outputs the navigation voice guidance signals to the right tweeter and the right front speaker.
	GPS Receiver	• Demodulates the signals received via the GPS antenna and outputs them to the main ECU for the navigation system.
	Gyro Sensor	• Detects the speed of the vehicle in the vertical axis direction (yaw rate and rotational movement) and outputs it to the main ECU for the navigation system.
	DVD-ROM Player	• Reads the data that is stored on a map DVD-ROM disc, and outputs it to the main ECU for the navigation system.
	Audio Head Unit	• Reads data from the DVD disc and outputs the video signals to the multi display and the audio signals to the power amplifier (only on vehicles equipped with the contoured size in-dash AM/FM electronic tuner with a built-in 6-disc DVD changer and a cassette player)
Power Amplifier (made by Mark Levinson or Pioneer)		• Outputs audio signals, such as those from the audio unit, to the speakers. • Inputs audio signals from the DVD player and outputs them independently through a built-in decoder (made only by Mark Levinson)
Map DVD-ROM Disc		• One disc is loaded on the DVD-ROM player for the navigation system, located under the multi display. It stores various pieces of data including map information, voice guidance, and destination searches.
General Antenna (made by Denso)		• Receives orbital signals and signal transmission time signals (which are constantly transmitted by the GPS satellites that are placed along the orbits surrounding the earth at an altitude of approximately 20,000 km) and transmits them to the GPS receiver.
Speaker		• Outputs navigation voice guidance and audio system.
Combination Meter		• Outputs vehicle speed signals (pulse signals) to the multi display.
Taillight Relay		• Outputs a taillight ON signal to the multi display.
Parking Brake Switch		• Outputs a parking brake ON signal to the multi display.
MPX Left Side J/B ECU		• Outputs a shift position signal to the multi display.