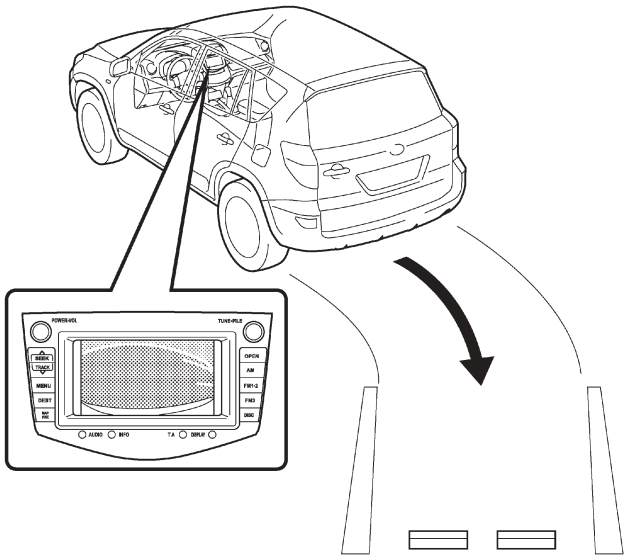
■REAR VIEW MONITOR

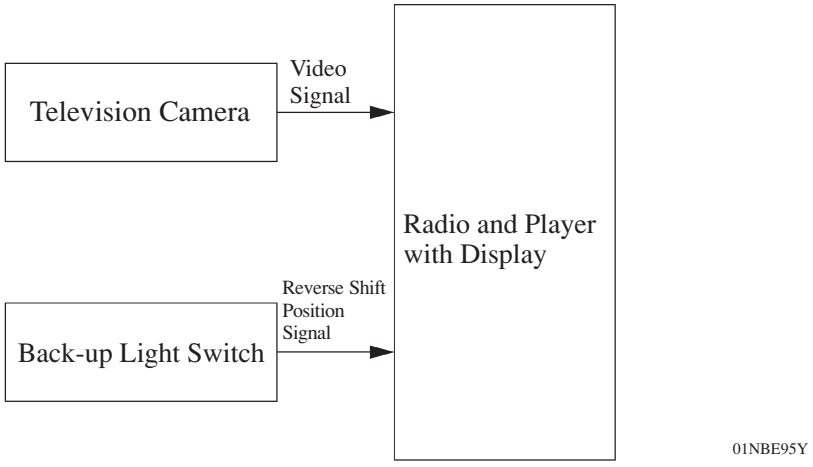
1. General

- When the driver moves the shift lever to reverse, this system automatically displays the rear view on the monitor. A television camera is mounted on the back door.



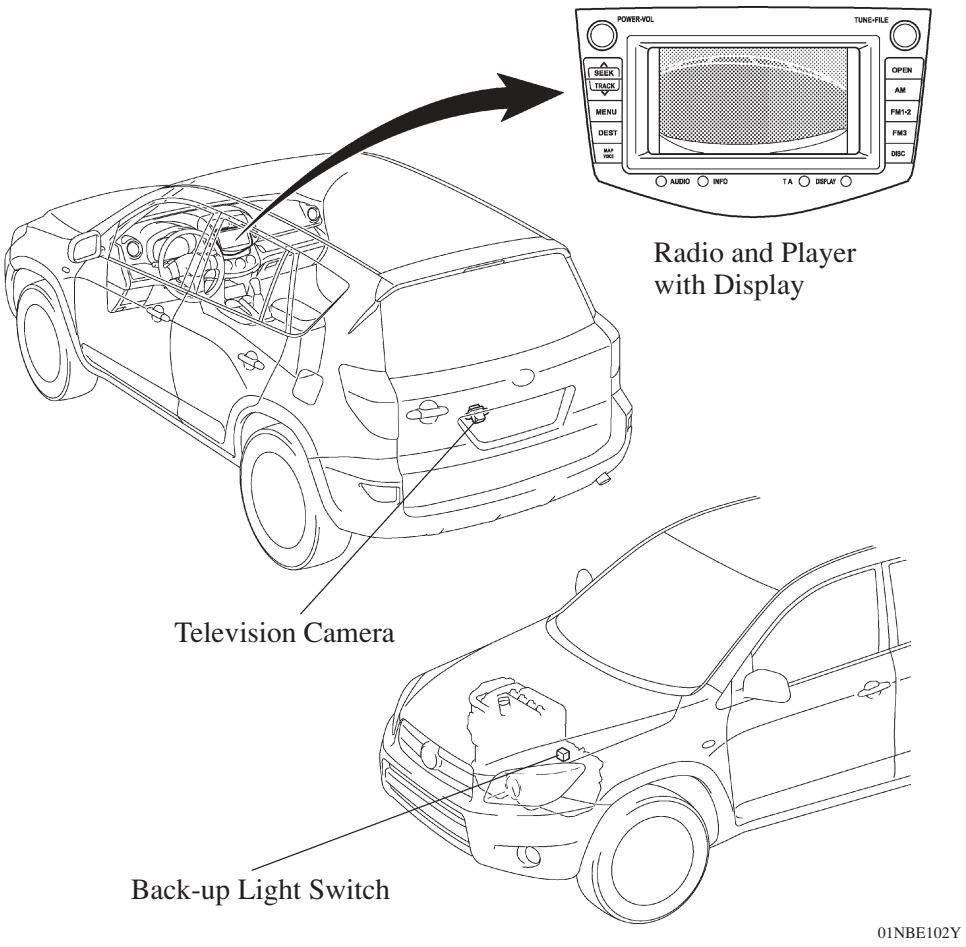
01NBE103Y

▶ System Diagram ◀



01NBE95Y

2. Layout of Main Components



▶ Function of Main Components ◀

Item	Functions
Television Camera	● Mounted on the back door to transmit the rear view image of the vehicle to the radio and player with display. ● A color video camera that uses a CCD (Charge Coupled Device) and a wide-angle lens.
Radio and Player with Display	● Receives video signals, which contain a composite of the rear view of the vehicle taken with the television camera and the caution message. ● Effects control of the system by receiving the signal from the back-up light switch.
Back-up Light Switch	Transmits a reverse shift position signal to the radio and player with display.

3. Operation

General

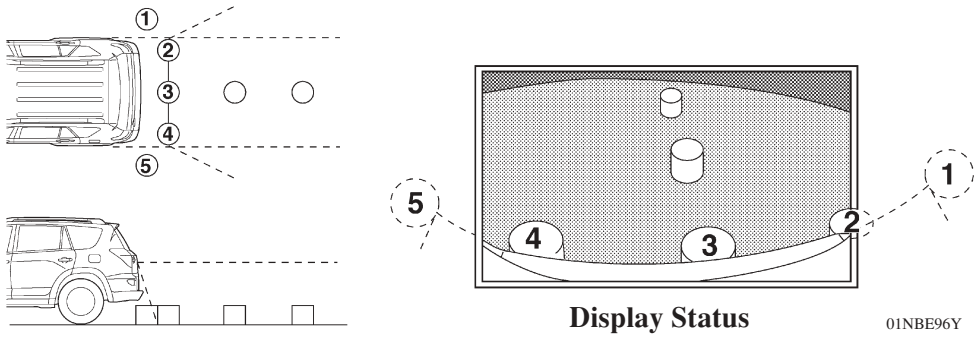
- With the power source mode in IG-ON, if the driver moves the shift lever to reverse, the display of the radio and player with display switches to operate this system. In this state, if the driver moves the shift lever to a position other than reverse, or switches the modes on the radio and player with display, the rear view display stops and switches to the display of another mode.

CAUTION

- Never depend on the rear view monitor system entirely when backing up. Always make sure your intended path is clear. Use caution, just as you would when backing up any vehicle.
- Never back up while locking only at the screen. The image on the screen is different from actual conditions. Depicted distances between objects and flat surfaces will differ from actual distance. If you back up while looking only at the screen, you may hit a vehicle, a person or an object. When backing up, be sure to check visually behind and all around the vehicle, both directly and with mirrors, before proceeding.
- When the back door is opened with the shift lever in the reverse, the rear view of the vehicle is not displayed on the radio and player with display, but the “Caution” screen is displayed.

Area Displayed on Screen

- On the radio and player with display, objects on the right of the vehicle appear on the right side of the display panel, and objects on the left of the vehicle appear on the left side of the display panel.
- The television camera uses a wide-angle lens. The perceived distance from the image that appears on the screen differs from the actual distance.



Display Status 01NBE96Y

NOTE: Area displayed on screen may vary according to vehicle status or road conditions.
The area detected by the television camera is limited. The television camera dose not detects objects close to either corner of the bumper or under bumper.

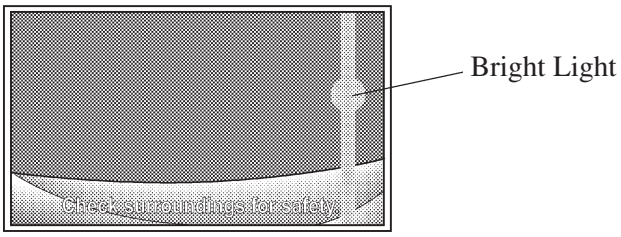
Fail-safe

The table below indicates the conditions of detecting malfunctions in this system.

Malfunction Part	Detection Item	Function
Television Camera	Transmission of television camera malfunction signal	Stops signal reception and displays a dark screen

4. Handling Precaution

- In the following cases, it may become difficult to see the images on the screen, even when the system is functioning.
  - In the dark (for example, at night)
  - When the temperature near the lens is high or low
  - When water droplets are adhering to the television camera, or when humidity is high. (for example, when it rains)
  - When foreign matter (for example, snow or mud) is adhering to the television camera
  - When the sun or the beam of headlights is shining directly into the television camera lens
- If a bright light (for example, sunlight reflected off the vehicle body) is picked up by the television camera, the smear effect*, peculiar to the camera, may occur.



Display Status 241BE68

— REFERENCE —

**: Smear effect*
A phenomenon that occurs when a bright light is picked up by the television camera; when transmitted by the television camera, the light source appears to have a vertical streak above and below it.