

The diagram illustrates the architecture of a car stereo system, organized into three main functional areas: the front panel/processor area, the amplifier area, and the speaker area.

- Front Panel/Processor Area:** This section contains the primary input and control components. It includes two antennas connected to an **Antenna Amp.**, which feeds into a **Radio Tuner**. A **CD Deck** also provides **CD Sound** input to a **Mute** block. A **GPS Antenna** connects to a **GPS Receiver**, which then feeds into a **Navigation Controller**. The **Navigation Controller** also receives input from a **DVD Deck** and sends **Navigation Interrupting Voice Guidance** signals. An **RGB Image** from the **Navigation Controller** is sent to a **6.5" LCD**. Both the **Radio Tuner** and **CD Deck** feed into the **Mute** block, which then connects to a **Buff.** (buffer) block. The **Navigation Controller** also feeds into its own **Buff.** block.
- Amplifier Area:** This section processes the audio and navigation signals. The **Audio Sound** from the **Buff.** block is sent to a **Stereo Component Amplifier Assy**. The **Navigation Interrupting Voice Guidance** signal is also sent to this amplifier. The **Navigation Controller** sends **AVC-LAN** (Audio Video Control - Local Area Network) signals to a **Controller** block, which in turn sends **Mute** signals back to the **Navigation Controller**.
- Speaker Area:** This section outputs the audio to the vehicle's speakers. The **Audio Sound** from the **Stereo Component Amplifier Assy** is sent to a **Distribution & Volume & Mute** block. This block also receives **Mute** signals from the **Controller** and the **Navigation Controller**. The output of this block is sent to six **Speakers**, including the **Front Driver Side** speaker.