

The RH steering wheel switches contain series of resistors. Each steering wheel switch function corresponds with a specific resistance value within the switch.

The SCCM sends a 5-volt reference voltage to the RH steering wheel switches on the input circuit. When a switch is pressed, the voltage is routed through the corresponding resistor(s), through the return circuit, and then to ground through the SCCM. The SCCM monitors the resultant voltage drop to determine which switch was pressed. The voltage drop varies depending upon the resistance of the specific switch pressed.

The volume +/-, seek +/-, and audio mode steering wheel switch inputs are sent as network messages from the SCCM to the ACM to control audio functions.

The mute, voice, send/receive call, and end call steering wheel switch inputs are sent as network messages from the SCCM to the APIM to control SYNC ® functions.

SYNC ® Microphone

The SYNC ® microphone receives SYNC ® system voice commands and outgoing audio during a phone call. The monitored sounds are converted into analog signals by the microphone and sent to the APIM.

USB Port/Cable

Data is sent from the USB port to the APIM through the USB cable.

The USB port is part of the USB cable, and cannot be replaced separately.

The USB port is powered through the USB cable by the APIM and can be used to power and/or charge a device if the device supports this feature. If the device does not support this feature, an external power source is needed in order to power the device.

DIAGNOSIS AND TESTING > INFORMATION AND ENTERTAINMENT SYSTEM

For a SYNC ®-related concern, refer to the SYNC ® System Symptom Chart before connecting the scan tool and beginning DTC-based diagnostics.

DIAGNOSIS AND TESTING > INFORMATION AND ENTERTAINMENT SYSTEM > DTC CHART: ACM

DTC	Description	Action
B1142:27	Ignition Status 1: Signal Rate of Change Above Threshold	GO to Pinpoint Test F
B1A01:01	Speaker #1: General Electrical Failure	For a LHF door speaker concern, GO to Pinpoint Test G For a LHF A-pillar tweeter speaker concern, GO to Pinpoint Test H
B1A01:11	Speaker #1: Circuit Short To Ground	For a LHF door speaker concern, GO to Pinpoint Test G