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FOREWORD [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

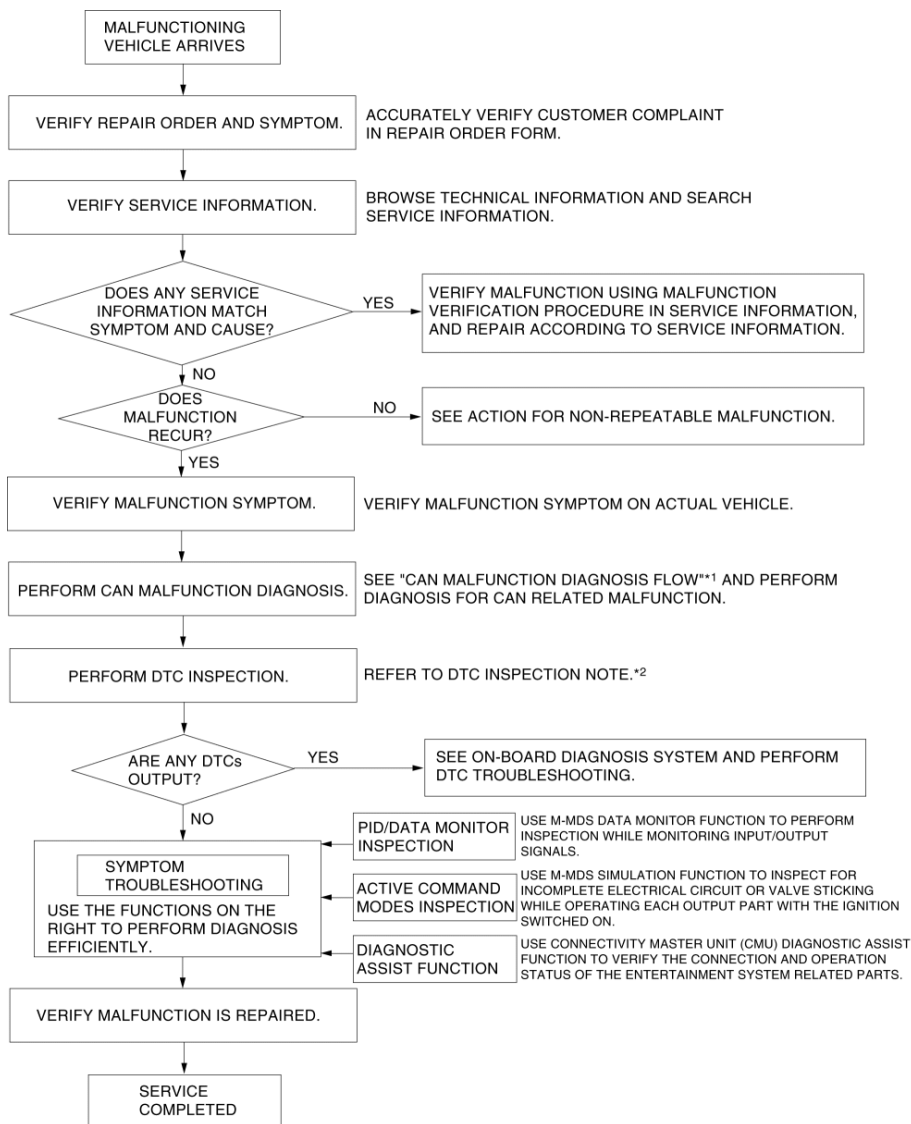
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2016 – MX-5 – Body and Accessories

FOREWORD [ENTERTAINMENT SYSTEM [WITH
CENTER DISPLAY]]

Troubleshooting Procedure



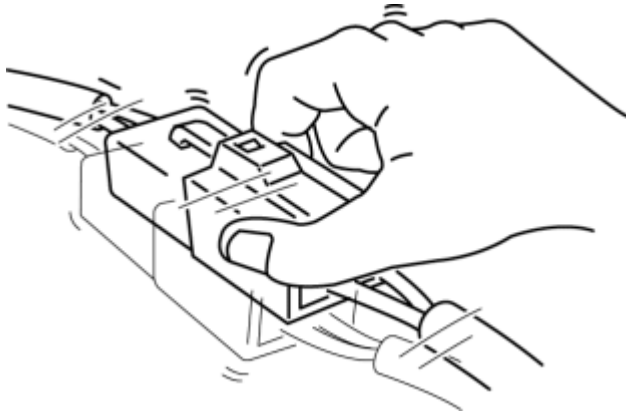
*1
 (See [CONTROLLER AREA NETWORK \(CAN\) MALFUNCTION DIAGNOSIS FLOW.](#))

*2
 (See [DTC Inspection Note.](#))

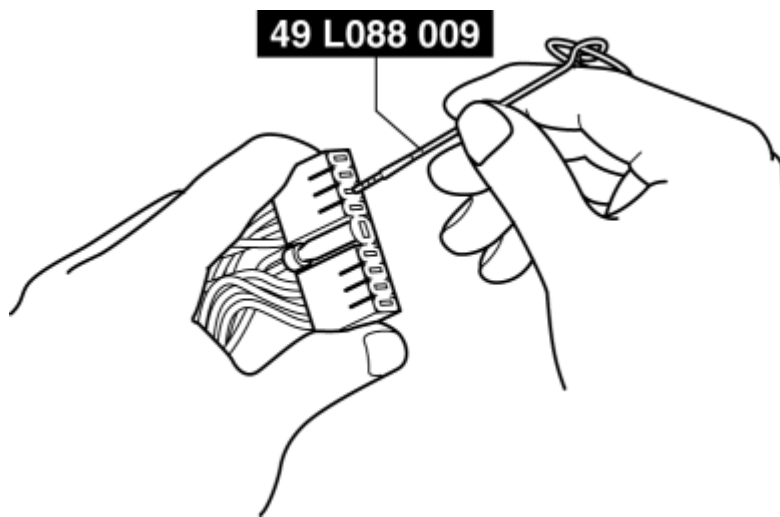
Action for non-repeatable malfunction

- If the malfunction does not recur, verify the malfunction cause by performing the following actions:
- Verify that a DTC has been recorded in the memory. (See [DTC INSPECTION \[CONNECTIVITY MASTER UNIT\]](#).) (See [DIAGNOSTIC ASSIST FUNCTION \[CONNECTIVITY MASTER UNIT\]](#).)
- Based on the repair order form, attempt to drive the vehicle or perform tests to replicate the malfunction, record the data at that time, and detect the malfunction cause.
- Shake the wiring harness or connector of the electrical component which is suspected to be the cause of the

malfunction, and inspect for malfunction or occurrence of any DTCs.



- Refer to [Determining Open Circuit Location] based on the recorded DTC, shake the wiring harness or connector of the electrical component which is suspected to be the cause of the malfunction, and inspect for any changes in CAN system voltage or occurrence of any DTCs.



DTC Inspection Note

- DTCs for the entertainment system [with center display] can be verified using the M-MDS or the on-board diagnostic test mode in which the on-board diagnostic function can be launched by operating the commander switch or the center display. (See [DTC INSPECTION \[CONNECTIVITY MASTER UNIT\]](#).) (See [DIAGNOSTIC ASSIST FUNCTION \[CONNECTIVITY MASTER UNIT\]](#).)

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SYMPTOM TROUBLESHOOTING [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

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2016 – MX-5 – Body and Accessories

SYMPTOM TROUBLESHOOTING [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

Troubleshooting item	Description
IMAGE NOT OUTPUT IN ALL MODES (See IMAGE NOT OUTPUT IN ALL MODES [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].)	<ul style="list-style-type: none"> Image is not output in center display even if any mode is selected
NO SOUND OUTPUT IN ALL MODES (See NO SOUND OUTPUT IN ALL MODES [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].)	<ul style="list-style-type: none"> Sound is not output from speakers even if any mode is selected
NO SOUND OUTPUT IN MULTIPLE MODES	<ul style="list-style-type: none"> Radio, CD, AUX audio is

<p>(See NO SOUND OUTPUT IN MULTIPLE MODES [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].)</p>	<p>output, but no Bluetooth[®] audio, Internet radio, USB audio, and guidance voice</p>
<p>NO Bluetooth[®] AUDIO AND INTERNET RADIO SOUND</p> <p>(See NO Bluetooth[®] AUDIO AND INTERNET RADIO SOUND [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].)</p>	<ul style="list-style-type: none"> ▪ Radio, CD, AUX/USB audio, guidance audio is output, but no Bluetooth[®] audio, Internet radio audio
<p>NO USB AUDIO SOUND OUTPUT</p> <p>(See NO USB AUDIO SOUND OUTPUT [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].)</p>	<ul style="list-style-type: none"> ▪ Radio, CD, AUX audio, Bluetooth[®] audio, Internet radio, and guidance audio is output, but not USB audio
<p>NO NAVIGATION GUIDANCE VOICE OUTPUT</p> <p>(See NO NAVIGATION GUIDANCE VOICE OUTPUT [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].)</p>	<ul style="list-style-type: none"> ▪ Radio, CD, AUX/USB audio, Bluetooth[®] audio, and Internet radio audio is output, but no navigation guidance audio
<p>NO VOICE RECOGNITION GUIDANCE VOICE OUTPUT</p> <p>(See NO VOICE RECOGNITION GUIDANCE VOICE OUTPUT [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].)</p>	<ul style="list-style-type: none"> ▪ Radio, CD, AUX/USB audio, Bluetooth[®] audio, and Internet radio audio is output, but not voice recognition guidance voice
<p>NO CD SOUND OUTPUT</p> <p>(See NO CD SOUND OUTPUT [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].)</p>	<ul style="list-style-type: none"> ▪ Radio, AUX audio, Bluetooth[®] audio, Internet radio, USB audio and guidance voice is output, but not CD sound

<p>NO AUX AUDIO SOUND OUTPUT</p> <p>(See NO AUX AUDIO SOUND OUTPUT [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].)</p>	<ul style="list-style-type: none"> ▪ Radio, CD audio, Bluetooth® audio, Internet radio, and guidance audio is output, but not AUX audio
<p>VOICE OPERATION NOT POSSIBLE</p> <p>(See VOICE OPERATION NOT POSSIBLE [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].)</p>	<ul style="list-style-type: none"> ▪ Voice operation of audio function, communication function, and navigation function is not possible
<p>Bluetooth® PAIRING NOT POSSIBLE</p> <p>(See Bluetooth® PAIRING NOT POSSIBLE [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].)</p>	<ul style="list-style-type: none"> ▪ Bluetooth® enabled device cannot be paired to connectivity master unit (CMU)
<p>AUTOMATIC Bluetooth® CONNECTION NOT POSSIBLE</p> <p>(See AUTOMATIC Bluetooth® CONNECTION NOT POSSIBLE [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].)</p>	<ul style="list-style-type: none"> ▪ Bluetooth® pairing setting is possible, however, automatic Bluetooth® connection is not possible
<p>MAP IS NOT DISPLAYED</p> <p>(See MAP IS NOT DISPLAYED [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].)</p>	<ul style="list-style-type: none"> ▪ Navigation map is not displayed

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SYSTEM WIRING DIAGRAM [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

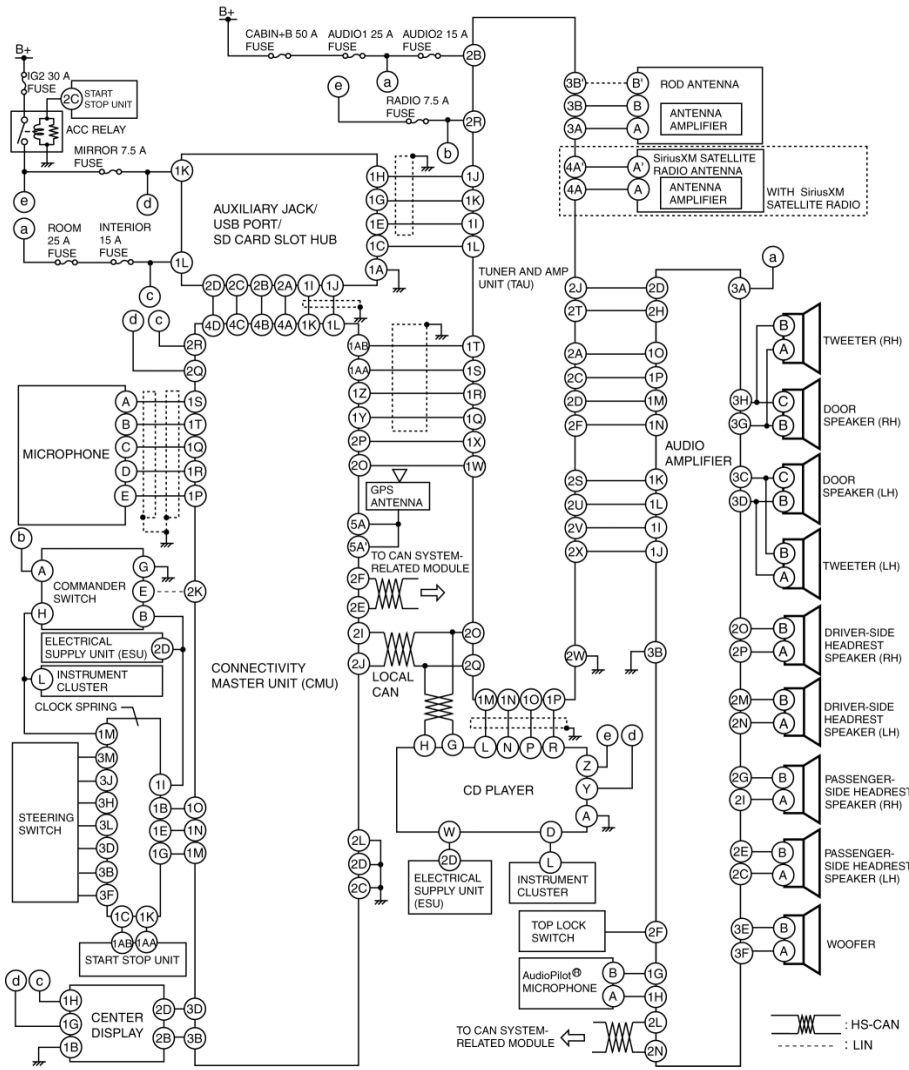
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2016 – MX-5 – Body and Accessories

SYSTEM WIRING DIAGRAM [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

Without Bose®



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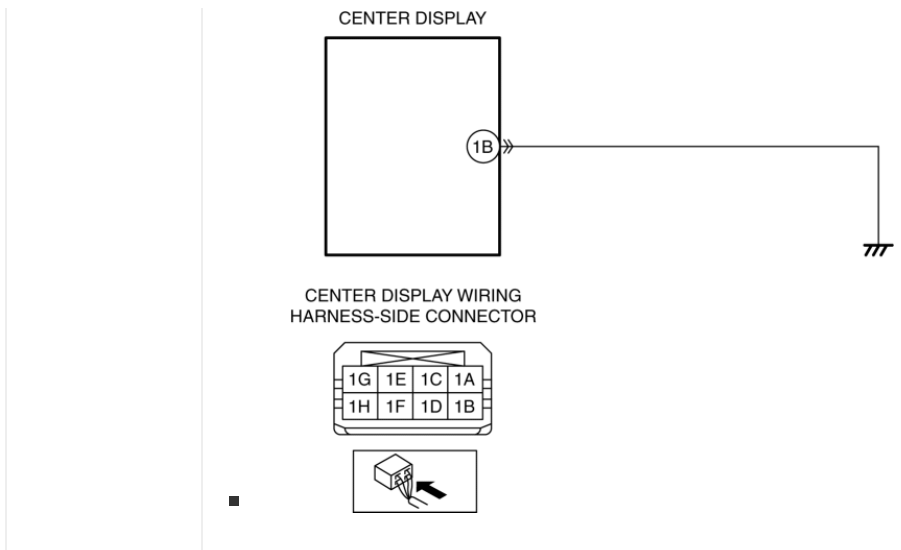
IMAGE NOT OUTPUT IN ALL MODES [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

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2016 – MX-5 – Body and Accessories

IMAGE NOT OUTPUT IN ALL MODES [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

Description	IMAGE NOT OUTPUT IN ALL MODES
	Image is not output in center display even if any mode is selected
Possible Causes	<ul style="list-style-type: none"> ▪ Connector poor contact or terminal damage ▪ Open circuit in wiring harness between center display terminal 1B and body ground ▪ Center display malfunction ▪ Connectivity master unit (CMU) malfunction
System Wiring Diagram	



Diagnostic Procedure

Step	Inspection	Action
1	<p>INSPECT CENTER DISPLAY CONNECTOR</p> <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Disconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Disconnect the center display connector. ▪ Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. ▪ Is the connector normal? 	Yes Go to the next step.
		No Repair or replace the connector, then go to Step 5.
2	<p>INSPECT CMU CONNECTOR</p> <ul style="list-style-type: none"> ▪ Disconnect the CMU connector. ▪ Inspect the connector engagement and connection condition and inspect the terminals for damage, 	Yes Go to the next step.
		No Repair or replace the connector, then go to Step 5.

	<p>deformation, corrosion, or disconnection.</p> <ul style="list-style-type: none"> Is the connector normal? 		
3	<p>VERIFY IF MALFUNCTION CAUSE IS OPEN CIRCUIT IN WIRING HARNESS BETWEEN CENTER DISPLAY AND BODY GROUND</p> <ul style="list-style-type: none"> Verify that the center display connector is disconnected. Inspect the wiring harness for continuity between center display terminal 1B and body ground (vehicle wiring harness side). Is there continuity? 	Yes	Go to the next step.
		No	<ul style="list-style-type: none"> Refer to the wiring diagram and verify if there is a common connector between center display terminal 1B and body ground. <p>If there is a common connector:</p> <ul style="list-style-type: none"> Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring harnesses for an open circuit to determine the malfunctioning location. Repair or replace the malfunctioning location. <p>If there is no common connector:</p> <ul style="list-style-type: none"> Repair or replace the wiring harness which has an open circuit. go to Step 5.
4	<p>VERIFY IF MALFUNCTION CAUSE IS CENTER DISPLAY</p> <ul style="list-style-type: none"> Replace the center display. (See CENTER DISPLAY REMOVAL/INSTALLATION.) Connect all the connectors. 	Yes	Go to the next step.
		No	<p>Replace the CMU, then go to the next step.</p> <p>(See CONNECTIVITY)</p>

	<ul style="list-style-type: none"> ▪ Reconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Is image output in the center display? 		(See CONNECTIVITY MASTER UNIT (CMU) REMOVAL/INSTALLATION.)
5	<p>VERIFY IF MALFUNCTION CAUSE IS CORRECTED</p> <ul style="list-style-type: none"> ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Select each mode by operating the center display or the commander switch. ▪ Is image in each mode output? 	Yes	Troubleshooting completed (explain the contents of the servicing to the customer).
		No	<p>Verify the malfunction symptom in the symptom troubleshooting chart and perform the other applicable malfunction diagnosis.</p> <p>(See SYMPTOM TROUBLESHOOTING [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].)</p>

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NO SOUND OUTPUT IN ALL MODES [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

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NO SOUND OUTPUT IN ALL MODES [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

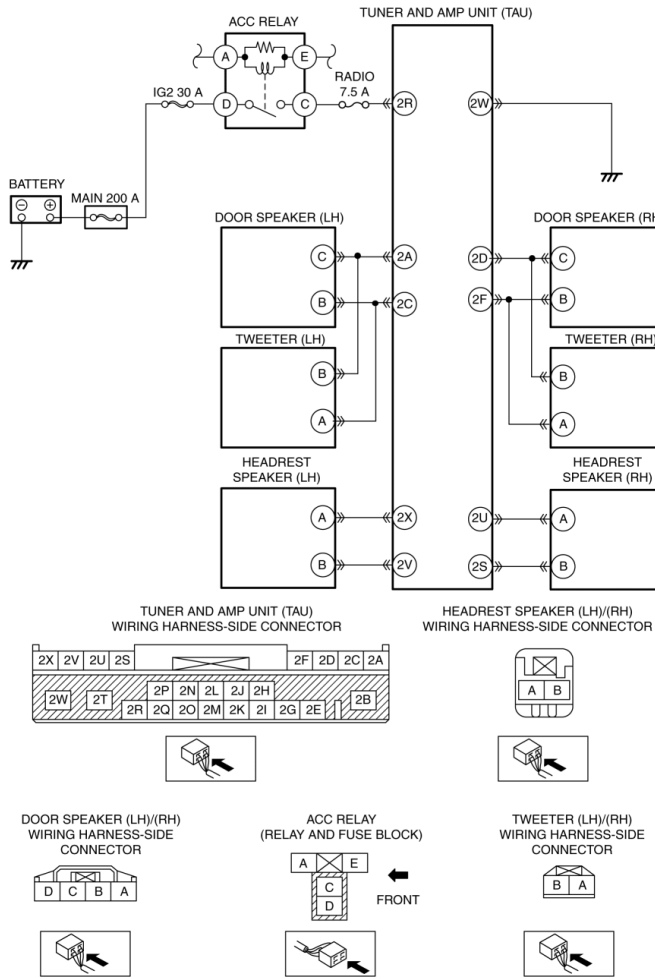
Without Bose®

Description	NO SOUND OUTPUT IN ALL MODES
	Sound is not output from speakers even if any mode is selected
Possible Causes	<ul style="list-style-type: none"> ▪ Connector poor contact or terminal damage ▪ Tuner and amp unit (TAU) ACC power supply circuit malfunction ▪ Short to ground in wiring harness between battery and TAU terminal 2R ▪ Open circuit in wiring harness between battery and TAU terminal 2R ▪ MAIN 200A fuse malfunction ▪ IG2 30A fuse malfunction

- RADIO 7.5A fuse malfunction
- ACC relay malfunction
- Open circuit in wiring harness between TAU terminal 2W and body ground
- Speaker malfunction
- Malfunction of the following speakers.
- Door speaker (LH)
- Door speaker (RH)
- Tweeter (LH)
- Tweeter (RH)
- Headrest speaker (LH)
- Headrest speaker (RH)
- Open circuit or short to ground in wiring harness between the following terminals:
- TAU terminal 2A and door speaker (LH) terminal C
- TAU terminal 2C and door speaker (LH) terminal B
- TAU terminal 2D and door speaker (RH) terminal C
- TAU terminal 2F and door speaker (RH) terminal B
- TAU terminal 2A and tweeter (LH) terminal B
- TAU terminal 2C and tweeter (LH) terminal A
- TAU terminal 2D and tweeter (RH) terminal B
- TAU terminal 2F and tweeter (RH) terminal A
- TAU terminal 2X and headrest speaker (LH) terminal A
- TAU terminal 2V and headrest speaker (LH) terminal B
- TAU terminal 2U and headrest speaker (RH) terminal A
- TAU terminal 2S and headrest speaker (RH) terminal B
- TAU malfunction

▪ Connectivity master unit (CMU) malfunction

System Wiring Diagram



Diagnostic Procedure

Step	Inspection	Action
1	<p>VERIFY MALFUNCTION SYMPTOM</p> <ul style="list-style-type: none"> ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Launch the on-board diagnostic assist function. <p>(See DIAGNOSTIC ASSIST FUNCTION [CONNECTIVITY MASTER UNIT].)</p> <ul style="list-style-type: none"> ▪ Select assist code "94". ▪ Press the [ENTER] and verify that the sound is output from each 	<p>Yes</p> <ul style="list-style-type: none"> ▪ System is normal. ▪ Due to the possibility that sound is not output in some modes, verify the malfunction in the symptom troubleshooting chart and perform the other applicable malfunction diagnosis. <p>(See SYMPTOM TROUBLESHOOTING)</p>

	<p>speaker.</p> <ul style="list-style-type: none"> Is sound output from each speaker in the order? 		<p>[ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].)</p>
		No	<ul style="list-style-type: none"> No sound is produced from all speakers Go to the next step. No sound is produced from some speakers Go to Step 7.
2	<p>INSPECT TAU CONNECTOR</p> <ul style="list-style-type: none"> Switch the ignition off. Disconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> Disconnect the TAU connector. Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. Is the connector normal? 	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 10.
3	<p>INSPECT CMU CONNECTOR</p> <ul style="list-style-type: none"> Disconnect the CMU connector. Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. Is the connector normal? 	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 10.
4	<p>INSPECT TAU ACC POWER SUPPLY VOLTAGE</p>	Yes	Go to the next step.
		No	Inspect the MAIN 200A

- Verify that the TAU connector is disconnected.
- Reconnect the negative battery cable.

(See [NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.](#))

- Switch the ignition to ACC or ON (engine off or on).
- Measure the voltage at TAU terminal 2R (vehicle wiring harness side).
- Is the voltage **B+**?

fuse, IG2 30A fuse and RADIO 7.5A fuse.

- If the fuse is blown:
- Refer to the wiring diagram and verify if there is a common connector between fuse and the TAU terminal 2R.

If there is a common connector:

- Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring harnesses for short to ground to determine the malfunctioning location.
- Repair or replace the malfunctioning location.

If there is no common connector:

- Repair or replace the wiring harness which is shorted to ground.
- Replace the fuse.
- If the fuse is damaged:
- Replace the fuse.
- If the fuse is normal:
- Inspect the ACC relay.
(See [RELAY INSPECTION.](#))
- If ACC relay is malfunction, replace the ACC relay.

			<p>(See RELAY LOCATION.)</p> <ul style="list-style-type: none"> ▪ If ACC relay is normal, refer to the wiring diagram and verify if there is a common connector between battery and TAU terminal 2R. <p>If there is a common connector:</p> <ul style="list-style-type: none"> ▪ Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring harnesses for an open circuit to determine the malfunctioning location. ▪ Repair or replace the malfunctioning location. <p>If there is no common connector:</p> <ul style="list-style-type: none"> ▪ Repair or replace the wiring harness which has an open circuit. <p>Go to Step 10.</p>
5	<p>INSPECT WIRING HARNESS BETWEEN TAU AND BODY GROUND FOR OPEN CIRCUIT</p> <ul style="list-style-type: none"> ▪ Verify that the TAU connector is disconnected. ▪ Inspect for continuity between the following terminals (vehicle wiring harness side) and body ground. ▪ TAU terminal 2W 	<p>Yes</p> <p>No</p>	<p>Go to the next step.</p> <ul style="list-style-type: none"> ▪ Refer to the wiring diagram and verify if there is a common connector between the following terminals and body ground. ▪ TAU terminal 2W <p>If there is a common connector:</p>

	<ul style="list-style-type: none"> ▪ Is there continuity? 		<ul style="list-style-type: none"> ▪ Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring harnesses for an open circuit to determine the malfunctioning location. ▪ Repair or replace the malfunctioning location. <p>Repair or replace the malfunctioning location.</p> <ul style="list-style-type: none"> ▪ Repair or replace the wiring harness which has an open circuit. ▪ Go to Step 10.
<p>6</p>	<p>DETERMINE IF MALFUNCTION CAUSE IS TAU</p> <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Disconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Replace the TAU. <p>(See TUNER AND AMP UNIT (TAU) REMOVAL/INSTALLATION.)</p> <ul style="list-style-type: none"> ▪ Connect all the connectors. ▪ Reconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Launch the on-board diagnostic assist function 	<p>Yes</p>	<p>Troubleshooting completed (explain the contents of the servicing to the customer).</p>
		<p>No</p>	<p>Replace the CMU, then go to Step 10.</p> <p>(See CONNECTIVITY MASTER UNIT (CMU) REMOVAL/INSTALLATION.)</p>

	<p>(See DIAGNOSTIC ASSIST FUNCTION [CONNECTIVITY MASTER UNIT].)</p> <ul style="list-style-type: none"> ▪ Select assist code "94". ▪ Press the [ENTER] and verify that the sound is output from each speaker. ▪ Is sound output from each speaker in the order? 		
7	<p>INSPECT SPEAKERS</p> <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.) ▪ Inspect the malfunctioning speaker. (See DOOR SPEAKER INSPECTION.) (See TWEETER INSPECTION.) (See HEADREST SPEAKER INSPECTION.) ▪ Is the speaker resistance normal? 	Yes	Go to the next step.
		No	<p>Replace the malfunctioning speaker, then go to Step 10. (See DOOR SPEAKER REMOVAL/INSTALLATION.) (See TWEETER REMOVAL/INSTALLATION.) (See HEADREST SPEAKER REMOVAL/INSTALLATION.)</p>
8	<p>INSPECT SPEAKER CIRCUIT FOR OPEN CIRCUIT</p> <ul style="list-style-type: none"> ▪ Disconnect the connector of the malfunctioning speaker and the TAU connector. ▪ Verify the continuity of the wiring harness between the following terminals (vehicle wiring harness side) of the speakers which are malfunctioning. ▪ TAU terminal 2A and door speaker (LH) terminal C 	Yes	Go to the next step.
		No	<ul style="list-style-type: none"> ▪ Refer to the wiring diagram and verify if there is a common connector between the following terminals. ▪ TAU terminal 2A and door speaker (LH) terminal C ▪ TAU terminal 2C and door speaker (LH) terminal B

- TAU terminal 2C and door speaker (LH) terminal B
- TAU terminal 2D and door speaker (RH) terminal C
- TAU terminal 2F and door speaker (RH) terminal B
- TAU terminal 2A and tweeter (LH) terminal B
- TAU terminal 2C and tweeter (LH) terminal A
- TAU terminal 2D and tweeter (RH) terminal B
- TAU terminal 2F and tweeter (RH) terminal A
- TAU terminal 2X and headrest speaker (LH) terminal A
- TAU terminal 2V and headrest speaker (LH) terminal B
- TAU terminal 2U and headrest speaker (RH) terminal A
- TAU terminal 2S and headrest speaker (RH) terminal B
- Is there continuity?

terminal B

- TAU terminal 2D and door speaker (RH) terminal C
- TAU terminal 2F and door speaker (RH) terminal B
- TAU terminal 2A and tweeter (LH) terminal B
- TAU terminal 2C and tweeter (LH) terminal A
- TAU terminal 2D and tweeter (RH) terminal B
- TAU terminal 2F and tweeter (RH) terminal A
- TAU terminal 2X and headrest speaker (LH) terminal A
- TAU terminal 2V and headrest speaker (LH) terminal B
- TAU terminal 2U and headrest speaker (RH) terminal A
- TAU terminal 2S and headrest speaker (RH) terminal B

If there is a common connector:

- Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring harnesses for an open circuit to determine the malfunctioning location.
- Repair or replace the malfunctioning

		<p>location.</p> <p>If there is no common connector:</p> <ul style="list-style-type: none"> ▪ Repair or replace the wiring harness which has an open circuit. ▪ Go to the next step.
<p>9</p>	<p>INSPECT SPEAKER CIRCUIT FOR SHORT TO GROUND</p> <ul style="list-style-type: none"> ▪ Verify that the connector of the malfunctioning speaker and the TAU connector are disconnected. ▪ Inspect for continuity between the following wiring harness terminals (vehicle wiring harness side) and body ground. ▪ Door speaker (LH) terminal C ▪ Door speaker (LH) terminal B ▪ Door speaker (RH) terminal C ▪ Door speaker (RH) terminal B ▪ Tweeter (LH) terminal B ▪ Tweeter (LH) terminal A ▪ Tweeter (RH) terminal B ▪ Tweeter (RH) terminal A ▪ Headrest speaker (LH) terminal A ▪ Headrest speaker (LH) terminal B ▪ Headrest speaker (RH) terminal A ▪ Headrest speaker (RH) terminal B ▪ Is there continuity? 	<p>Yes</p> <ul style="list-style-type: none"> ▪ Refer to the wiring diagram and verify if there is a common connector between the following terminals. ▪ TAU terminal 2A and door speaker (LH) terminal C ▪ TAU terminal 2C and door speaker (LH) terminal B ▪ TAU terminal 2D and door speaker (RH) terminal C ▪ TAU terminal 2F and door speaker (RH) terminal B ▪ TAU terminal 2A and tweeter (LH) terminal B ▪ TAU terminal 2C and tweeter (LH) terminal A ▪ TAU terminal 2D and tweeter (RH) terminal B ▪ TAU terminal 2F and tweeter (RH) terminal A ▪ TAU terminal 2X and headrest speaker (LH) terminal A ▪ TAU terminal 2V and headrest speaker (LH) terminal B

			<ul style="list-style-type: none"> ▪ TAU terminal 2U and headrest speaker (RH) terminal A ▪ TAU terminal 2S and headrest speaker (RH) terminal B <p>If there is a common connector:</p> <ul style="list-style-type: none"> ▪ Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring harnesses for an short to ground to determine the malfunctioning location. ▪ Repair or replace the malfunctioning location. <p>If there is no common connector:</p> <ul style="list-style-type: none"> ▪ Repair or replace the wiring harness which has an short to ground. ▪ Go to the next step.
10	<p>VERIFY IF MALFUNCTION CAUSE IS CORRECTED</p> <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Disconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Connect all the connectors. ▪ Reconnect the negative battery cable. 	<p>No</p>	<p>Go to the next step.</p>
		<p>Yes</p>	<p>Troubleshooting completed (explain the contents of the servicing to the customer).</p>
		<p>No</p>	<p>Verify the malfunction symptom in the symptom troubleshooting chart and perform the other applicable malfunction diagnosis.</p>

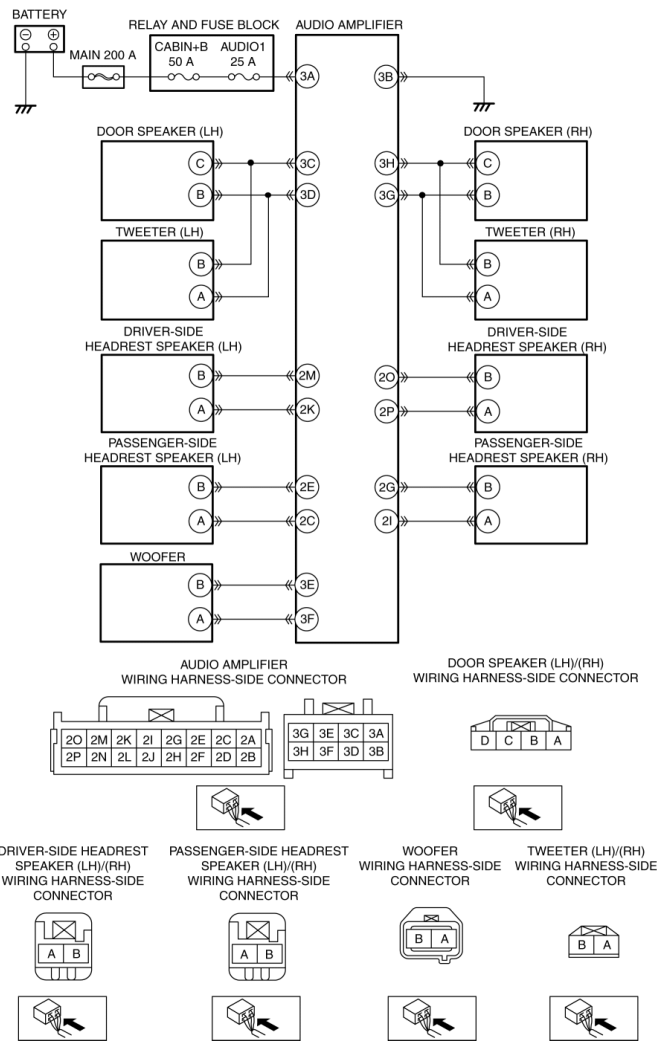
	<p>CABLE.</p> <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Launch the on-board diagnostic assist function. <p>(See DIAGNOSTIC ASSIST FUNCTION [CONNECTIVITY MASTER UNIT].)</p> <ul style="list-style-type: none"> ▪ Select assist code "94". ▪ Press the [ENTER] and verify that the sound is output from each speaker. ▪ Is sound output from each speaker in the order? 	<p>(See SYMPTOM TROUBLESHOOTING [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].)</p>
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With Bose®

<p>Description</p>	<p>NO SOUND OUTPUT IN ALL MODES</p> <p>Sound is not output from speakers even if any mode is selected</p>
<p>Possible Causes</p>	<ul style="list-style-type: none"> ▪ Connector poor contact or terminal damage ▪ Audio amplifier power supply circuit malfunction ▪ Short circuit to ground in wiring harness between battery and audio amplifier terminal 3A ▪ Open circuit in wiring harness between battery and audio amplifier terminal 3A ▪ MAIN 200A fuse malfunction ▪ CABIN+B 50A fuse malfunction ▪ AUDIO1 25A fuse malfunction ▪ Open circuit in wiring harness between audio amplifier terminal 3B and body ground ▪ Speaker malfunction

- Malfunction of the following speakers.
- Door speaker (LH)
- Door speaker (RH)
- Tweeter (LH)
- Tweeter (RH)
- Driver-side headrest speaker (LH)
- Driver-side headrest speaker (RH)
- Passenger-side headrest speaker (LH)
- Passenger-side headrest speaker (RH)
- Woofer
- Open circuit or short to ground in wiring harness between the following terminals:
 - Audio amplifier terminal 3C and door speaker (LH) terminal C
 - Audio amplifier terminal 3D and door speaker (LH) terminal B
 - Audio amplifier terminal 3H and door speaker (RH) terminal C
 - Audio amplifier terminal 3G and door speaker (RH) terminal B
 - Audio amplifier terminal 3C and tweeter (LH) terminal B
 - Audio amplifier terminal 3D and tweeter (LH) terminal A
 - Audio amplifier terminal 3H and tweeter (RH) terminal B
 - Audio amplifier terminal 3G and tweeter (RH) terminal A
 - Audio amplifier terminal 2M and driver-side headrest speaker (LH) terminal B
 - Audio amplifier terminal 2K and driver-side headrest speaker (LH) terminal A
 - Audio amplifier terminal 2O and driver-side headrest speaker (RH) terminal B
 - Audio amplifier terminal 2P and driver-side headrest speaker (RH) terminal A

- Audio amplifier terminal 2E and passenger-side headrest speaker (LH) terminal B
- Audio amplifier terminal 2C and passenger-side headrest speaker (LH) terminal A
- Audio amplifier terminal 2G and passenger-side headrest speaker (RH) terminal B
- Audio amplifier terminal 2I and passenger-side headrest speaker (RH) terminal A
- Audio amplifier terminal 3E and woofer terminal B
- Audio amplifier terminal 3F and woofer terminal A
- Audio amplifier malfunction
- Connectivity master unit (CMU) malfunction



**System
Wiring
Diagram**

Diagnostic Procedure

Step	Inspection		Action
1	<p>VERIFY MALFUNCTION SYMPTOM</p> <ul style="list-style-type: none"> ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Launch the on-board diagnostic assist function. <p>(See DIAGNOSTIC ASSIST FUNCTION [CONNECTIVITY MASTER UNIT].)</p> <ul style="list-style-type: none"> ▪ Select assist code “94”. ▪ Press the [ENTER] and verify that the sound is output from each speaker. ▪ Is sound output from each speaker in the order? 	Yes	<ul style="list-style-type: none"> ▪ System is normal. ▪ Due to the possibility that sound is not output in some modes, verify the malfunction in the symptom troubleshooting chart and perform the other applicable malfunction diagnosis. <p>(See SYMPTOM TROUBLESHOOTING [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].)</p>
		No	<ul style="list-style-type: none"> ▪ No sound is produced from all speakers ▪ Go to the next step. ▪ No sound is produced from some speakers ▪ Go to Step 7.
2	<p>INSPECT AUDIO AMPLIFIER CONNECTOR</p> <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Disconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Disconnect the audio amplifier connector. ▪ Inspect the connector engagement and connection condition and inspect the terminals for damage, 	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 10.

	<p>deformation, corrosion, or disconnection.</p> <ul style="list-style-type: none"> Is the connector normal? 		
3	<p>INSPECT CMU CONNECTOR</p> <ul style="list-style-type: none"> Disconnect the CMU connector. Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. Is the connector normal? 	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 10.
4	<p>INSPECT AUDIO AMPLIFIER POWER SUPPLY VOLTAGE</p> <ul style="list-style-type: none"> Verify that the audio amplifier connector is disconnected. Reconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> Switch the ignition to ACC or ON (engine off or on). Measure the voltage at audio amplifier terminal 3A (vehicle wiring harness side). Is the voltage B+? 	Yes	Go to the next step.
		No	<p>Inspect the MAIN 200A fuse and CABIN+B 50A fuse and AUDIO1 25A fuse.</p> <ul style="list-style-type: none"> If the fuse is blown: Refer to the wiring diagram and verify if there is a common connector between MAIN 200A fuse and the audio amplifier terminal 3A. <p>If there is a common connector:</p> <ul style="list-style-type: none"> Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring harnesses for short to ground to determine the malfunctioning location.

- Repair or replace the malfunctioning location.

If there is no common connector:

- Repair or replace the wiring harness which is shorted to ground.
- Replace the fuse.
- If the fuse is damaged:
 - Replace the fuse.
- If the fuse is normal:
 - Refer to the wiring diagram and verify if there is a common connector between battery and audio amplifier terminal 3A.

If there is a common connector:

- Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring harnesses for an open circuit to determine the malfunctioning location.
- Repair or replace the malfunctioning location.

If there is no common connector:

- Repair or replace the wiring harness which has an open circuit.

Go to Step 10.

5	INSPECT WIRING HARNESS BETWEEN AUDIO AMPLIFIER AND BODY GROUND FOR OPEN CIRCUIT <ul style="list-style-type: none"> ▪ Verify that the audio amplifier connector is disconnected. ▪ Inspect for continuity between the following terminals (vehicle wiring harness side) and body ground. ▪ Audio amplifier terminal 3B ▪ Is there continuity? 	Yes	Go to the next step.
		No	<ul style="list-style-type: none"> ▪ Refer to the wiring diagram and verify if there is a common connector between the following terminals and body ground. ▪ Audio amplifier terminal 3B <p>If there is a common connector:</p> <ul style="list-style-type: none"> ▪ Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring harnesses for an open circuit to determine the malfunctioning location. ▪ Repair or replace the malfunctioning location. <p>Repair or replace the malfunctioning location.</p> <ul style="list-style-type: none"> ▪ Repair or replace the wiring harness which has an open circuit. ▪ Go to Step 10.
6	DETERMINE IF MALFUNCTION CAUSE IS AUDIO AMPLIFIER <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Disconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Replace the audio amplifier. 	Yes	Troubleshooting completed (explain the contents of the servicing to the customer).
		No	<p>Replace the CMU, then go to Step 10.</p> <p>(See CONNECTIVITY MASTER UNIT (CMU) REMOVAL/INSTALLATION.)</p>

	<p>(See AUDIO AMPLIFIER REMOVAL/INSTALLATION.)</p> <ul style="list-style-type: none"> ▪ Connect all the connectors. ▪ Reconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Launch the on-board diagnostic assist function. <p>(See DIAGNOSTIC ASSIST FUNCTION [CONNECTIVITY MASTER UNIT].)</p> <ul style="list-style-type: none"> ▪ Select assist code "94". ▪ Press the [ENTER] and verify that the sound is output from each speaker. ▪ Is sound output from each speaker in the order? 		
7	<p>INSPECT SPEAKERS</p> <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Disconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Inspect the malfunctioning speaker. <p>(See DOOR SPEAKER INSPECTION.)</p> <p>(See TWEETER INSPECTION.)</p> <p>(See WOOFER INSPECTION.)</p> <p>(See HEADREST SPEAKER INSPECTION.)</p> <ul style="list-style-type: none"> ▪ Is the speaker resistance normal? 	Yes	Go to the next step.
		No	<p>Replace the malfunctioning speaker, then go to Step 10.</p> <p>(See DOOR SPEAKER REMOVAL/INSTALLATION.)</p> <p>(See TWEETER REMOVAL/INSTALLATION.)</p> <p>(See WOOFER REMOVAL/INSTALLATION.)</p> <p>(See HEADREST SPEAKER REMOVAL/INSTALLATION.)</p>

8	<p>INSPECT SPEAKER CIRCUIT FOR OPEN CIRCUIT</p> <ul style="list-style-type: none"> ▪ Disconnect the connector of the malfunctioning speaker and the audio amplifier connector. ▪ Verify the continuity of the wiring harness between the following terminals (vehicle wiring harness side) of the speakers which are malfunctioning. ▪ Audio amplifier terminal 3C and door speaker (LH) terminal C ▪ Audio amplifier terminal 3D and door speaker (LH) terminal B ▪ Audio amplifier terminal 3H and door speaker (RH) terminal C ▪ Audio amplifier terminal 3G and door speaker (RH) terminal B ▪ Audio amplifier terminal 3C and tweeter (LH) terminal B ▪ Audio amplifier terminal 3D and tweeter (LH) terminal A ▪ Audio amplifier terminal 3H and tweeter (RH) terminal B ▪ Audio amplifier terminal 3G and tweeter (RH) terminal A ▪ Audio amplifier terminal 2M and driver-side headrest speaker (LH) terminal B ▪ Audio amplifier terminal 2K and driver-side headrest speaker (LH) terminal A ▪ Audio amplifier terminal 2O and driver-side headrest speaker (RH) terminal B ▪ Audio amplifier terminal 2P and driver-side headrest speaker (RH) terminal A 	Yes	Go to the next step.
		No	<ul style="list-style-type: none"> ▪ Refer to the wiring diagram and verify if there is a common connector between the following terminals. ▪ Audio amplifier terminal 3C and door speaker (LH) terminal C ▪ Audio amplifier terminal 3D and door speaker (LH) terminal B ▪ Audio amplifier terminal 3H and door speaker (RH) terminal C ▪ Audio amplifier terminal 3G and door speaker (RH) terminal B ▪ Audio amplifier terminal 3C and tweeter (LH) terminal B ▪ Audio amplifier terminal 3D and tweeter (LH) terminal A ▪ Audio amplifier terminal 3H and tweeter (RH) terminal B ▪ Audio amplifier terminal 3G and tweeter (RH) terminal A ▪ Audio amplifier terminal 2M and driver-side headrest speaker (LH) terminal B ▪ Audio amplifier terminal 2K and driver-side headrest speaker (LH) terminal A ▪ Audio amplifier terminal 2O and driver-side headrest speaker (RH) terminal B ▪ Audio amplifier terminal 2P and driver-side headrest speaker (RH) terminal A

- Audio amplifier terminal 2E and passenger-side headrest speaker (LH) terminal B
- Audio amplifier terminal 2C and passenger-side headrest speaker (LH) terminal A
- Audio amplifier terminal 2G and passenger-side headrest speaker (RH) terminal B
- Audio amplifier terminal 2I and passenger-side headrest speaker (RH) terminal A
- Audio amplifier terminal 3E and woofer terminal B
- Audio amplifier terminal 3F and woofer terminal A
- Is there continuity?

(LH) TERMINAL A

- Audio amplifier terminal 2O and driver-side headrest speaker (RH) terminal B
- Audio amplifier terminal 2P and driver-side headrest speaker (RH) terminal A
- Audio amplifier terminal 2E and passenger-side headrest speaker (LH) terminal B
- Audio amplifier terminal 2C and passenger-side headrest speaker (LH) terminal A
- Audio amplifier terminal 2G and passenger-side headrest speaker (RH) terminal B
- Audio amplifier terminal 2I and passenger-side headrest speaker (RH) terminal A
- Audio amplifier terminal 3E and woofer terminal B
- Audio amplifier terminal 3F and woofer terminal A

If there is a common connector:

- Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring

			<p>harnesses for an open circuit to determine the malfunctioning location.</p> <ul style="list-style-type: none"> ▪ Repair or replace the malfunctioning location. <p>If there is no common connector:</p> <ul style="list-style-type: none"> ▪ Repair or replace the wiring harness which has an open circuit. ▪ Go to Step 10.
<p>9</p>	<p>INSPECT SPEAKER CIRCUIT FOR SHORT TO GROUND</p> <ul style="list-style-type: none"> ▪ Disconnect the connector of the malfunctioning speaker and the audio amplifier connector. ▪ Inspect for continuity between the following wiring harness terminals (vehicle wiring harness side) and body ground. ▪ Door speaker (LH) terminal C ▪ Door speaker (LH) terminal B ▪ Door speaker (RH) terminal C ▪ Door speaker (RH) terminal B ▪ Tweeter (LH) terminal A ▪ Tweeter (LH) terminal B ▪ Tweeter (RH) terminal A ▪ Tweeter (RH) terminal B ▪ Driver-side headrest speaker (LH) terminal B ▪ Driver-side headrest speaker (LH) terminal A ▪ Driver-side headrest speaker (RH) terminal B 	<p>Yes</p>	<ul style="list-style-type: none"> ▪ Refer to the wiring diagram and verify if there is a common connector between the following terminals. ▪ Audio amplifier terminal 3C and door speaker (LH) terminal C ▪ Audio amplifier terminal 3D and door speaker (LH) terminal B ▪ Audio amplifier terminal 3H and door speaker (RH) terminal C ▪ Audio amplifier terminal 3G and door speaker (RH) terminal B ▪ Audio amplifier terminal 3C and tweeter (LH) terminal B ▪ Audio amplifier terminal 3D and tweeter (LH) terminal A

- Driver-side headrest speaker (RH) terminal A
 - Passenger-side headrest speaker (LH) terminal B
 - Passenger-side headrest speaker (LH) terminal A
 - Passenger-side headrest speaker (RH) terminal B
 - Passenger-side headrest speaker (RH) terminal A
 - Woofer terminal B
 - Woofer terminal A
 - Is there continuity?
- Audio amplifier terminal 3H and tweeter (RH) terminal B
 - Audio amplifier terminal 3G and tweeter (RH) terminal A
 - Audio amplifier terminal 2M and driver-side headrest speaker (LH) terminal B
 - Audio amplifier terminal 2K and driver-side headrest speaker (LH) terminal A
 - Audio amplifier terminal 2O and driver-side headrest speaker (RH) terminal B
 - Audio amplifier terminal 2P and driver-side headrest speaker (RH) terminal A
 - Audio amplifier terminal 2E and passenger-side headrest speaker (LH) terminal B
 - Audio amplifier terminal 2C and passenger-side headrest speaker (LH) terminal A
 - Audio amplifier terminal 2G and passenger-side headrest speaker (RH) terminal B
 - Audio amplifier terminal 2I and passenger-side headrest speaker (RH) terminal A

			<ul style="list-style-type: none"> ▪ Audio amplifier terminal 3E and woofer terminal B ▪ Audio amplifier terminal 3F and woofer terminal A <p>If there is a common connector:</p> <ul style="list-style-type: none"> ▪ Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring harnesses for an short to ground to determine the malfunctioning location. ▪ Repair or replace the malfunctioning location. <p>If there is no common connector:</p> <ul style="list-style-type: none"> ▪ Repair or replace the wiring harness which has an short to ground. ▪ Go to the next step.
No		Go to the next step.	
10	<p>VERIFY IF MALFUNCTION CAUSE IS CORRECTED</p> <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Disconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Connect all the connectors. ▪ Reconnect the negative battery cable. 	Yes	<p>Troubleshooting completed (explain the contents of the servicing to the customer).</p>
		No	<p>Verify the malfunction symptom in the symptom troubleshooting chart and perform the other applicable malfunction diagnosis.</p>

(See [NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.](#))

- Switch the ignition to ACC or ON (engine off or on).
- Launch the on-board diagnostic assist function.

(See [DIAGNOSTIC ASSIST FUNCTION \[CONNECTIVITY MASTER UNIT\].](#))

- Select assist code "94".
- Press the [ENTER] and verify that the sound is output from each speaker.
- Is sound output from each speaker in the order?

(See [SYMPTOM TROUBLESHOOTING \[ENTERTAINMENT SYSTEM \[WITH CENTER DISPLAY\]\].](#))

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NO SOUND OUTPUT IN MULTIPLE MODES [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

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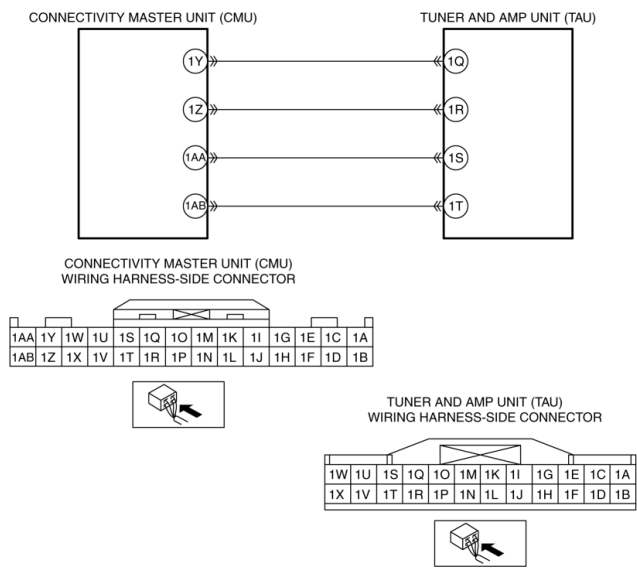
2016 – MX-5 – Body and Accessories

NO SOUND OUTPUT IN MULTIPLE MODES [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

Description	NO SOUND OUTPUT IN MULTIPLE MODES Radio, CD, AUX audio is output, but no Bluetooth [®] audio, Internet radio, USB audio, and guidance voice
Possible Causes	<ul style="list-style-type: none"> ▪ Connector poor contact or terminal damage ▪ Open circuit in wiring harness between the following terminals: ▪ Connectivity master unit (CMU) terminal 1Y and tuner and amp unit (TAU) terminal 1Q ▪ CMU terminal 1Z and TAU terminal 1R ▪ CMU terminal 1AA and TAU terminal 1S ▪ CMU terminal 1AB and TAU terminal 1T ▪ Short to ground in wiring harness between the following terminals:

- CMU terminal 1Y and TAU terminal 1Q
- CMU terminal 1Z and TAU terminal 1R
- CMU terminal 1AA and TAU terminal 1S
- CMU terminal 1AB and TAU terminal 1T
- Short to power supply in wiring harness between the following terminals:
- CMU terminal 1Y and TAU terminal 1Q
- CMU terminal 1Z and TAU terminal 1R
- CMU terminal 1AA and TAU terminal 1S
- CMU terminal 1AB and TAU terminal 1T
- TAU malfunction
- CMU malfunction

System Wiring Diagram



Diagnostic Procedure

Step	Inspection	Action	
1	<p>INSPECT TAU CONNECTOR</p> <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Disconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p>	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 7.

	<ul style="list-style-type: none"> ▪ Disconnect the TAU connector. ▪ Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. ▪ Is the connector normal? 		
2	INSPECT CMU CONNECTOR <ul style="list-style-type: none"> ▪ Disconnect the CMU connector. ▪ Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. ▪ Is the connector normal? 	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 7.
3	VERIFY IF MALFUNCTION CAUSE IS OPEN CIRCUIT IN WIRING HARNESS BETWEEN CMU AND TAU <ul style="list-style-type: none"> ▪ Verify that the CMU and TAU connectors are disconnected. ▪ Inspect the wiring harness for continuity between the following terminals (vehicle wiring harness side). ▪ CMU terminal 1Y and TAU terminal 1Q ▪ CMU terminal 1Z and TAU terminal 1R ▪ CMU terminal 1AA and TAU terminal 1S ▪ CMU terminal 1AB and TAU terminal 1T ▪ Is there continuity? 	Yes	Go to the next step.
		No	<ul style="list-style-type: none"> ▪ Refer to the wiring diagram and verify if there is a common connector between the following terminals. ▪ CMU terminal 1Y and TAU terminal 1Q ▪ CMU terminal 1Z and TAU terminal 1R ▪ CMU terminal 1AA and TAU terminal 1S ▪ CMU terminal 1AB and TAU terminal 1T <p>If there is a common connector:</p> <ul style="list-style-type: none"> ▪ Inspect the common connector and terminals for corrosion, damage, or

			<p>disconnection and the common wiring harnesses for an open circuit to determine the malfunctioning location.</p> <ul style="list-style-type: none"> ▪ Repair or replace the malfunctioning location. <p>If there is no common connector:</p> <ul style="list-style-type: none"> ▪ Repair or replace the wiring harness which has an open circuit. ▪ Go to Step 7.
<p>4</p>	<p>VERIFY IF MALFUNCTION CAUSE IS SHORT TO GROUND IN WIRING HARNESS BETWEEN CMU AND TAU</p> <ul style="list-style-type: none"> ▪ Verify that the CMU and TAU connectors are disconnected. ▪ Inspect for continuity between the following wiring harness terminals (vehicle wiring harness side) and body ground. ▪ TAU terminal 1Q ▪ TAU terminal 1R ▪ TAU terminal 1S ▪ TAU terminal 1T ▪ Is there continuity? 	<p>Yes</p>	<ul style="list-style-type: none"> ▪ Refer to the wiring diagram and verify if there is a common connector between the following terminals. ▪ CMU terminal 1Y and TAU terminal 1Q ▪ CMU terminal 1Z and TAU terminal 1R ▪ CMU terminal 1AA and TAU terminal 1S ▪ CMU terminal 1AB and TAU terminal 1T <p>If there is a common connector:</p> <ul style="list-style-type: none"> ▪ Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring harnesses for short to ground to determine the malfunctioning location.

			<ul style="list-style-type: none"> ▪ Repair or replace the malfunctioning location. <p>If there is no common connector:</p> <ul style="list-style-type: none"> ▪ Repair or replace the wiring harness which is shorted to ground. ▪ Go to Step 7.
		No	Go to the next step.
5	<p>VERIFY IF MALFUNCTION CAUSE IS SHORT TO POWER SUPPLY IN WIRING HARNESS BETWEEN CMU AND TAU</p> <ul style="list-style-type: none"> ▪ Verify that the CMU and TAU connectors are disconnected. ▪ Reconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Measure the voltage at the following terminals (vehicle wiring harness side). <ul style="list-style-type: none"> ▪ TAU terminal 1Q ▪ TAU terminal 1R ▪ TAU terminal 1S ▪ TAU terminal 1T ▪ Is the voltage B+? 	Yes	<ul style="list-style-type: none"> ▪ Refer to the wiring diagram and verify if there is a common connector between the following terminals. ▪ CMU terminal 1Y and TAU terminal 1Q ▪ CMU terminal 1Z and TAU terminal 1R ▪ CMU terminal 1AA and TAU terminal 1S ▪ CMU terminal 1AB and TAU terminal 1T <p>If there is a common connector:</p> <ul style="list-style-type: none"> ▪ Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring harnesses for short to power supply to determine the malfunctioning location. ▪ Repair or replace the malfunctioning location.

			<p>If there is no common connector:</p> <ul style="list-style-type: none"> ▪ Repair or replace the wiring harness which is shorted to the power supply. ▪ Go to Step 7.
		No	Go to the next step.
6	<p>DETERMINE IF MALFUNCTION CAUSE IS TAU</p> <ul style="list-style-type: none"> ▪ Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.) ▪ Replace the TAU. (See TUNER AND AMP UNIT (TAU) REMOVAL/INSTALLATION.) ▪ Connect all the connectors. ▪ Reconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.) ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Select the mode when the malfunction occurred by operating the center display or the commander switch. ▪ Is audio output normally? 	Yes	Troubleshooting completed. (Explain the contents of the servicing to the customer.)
		No	<p>Replace the CMU, then go to the next step.</p> <p>(See CONNECTIVITY MASTER UNIT (CMU) REMOVAL/INSTALLATION.)</p>
7	<p>VERIFY IF MALFUNCTION CAUSE IS CORRECTED</p> <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Disconnect the negative battery cable. 	Yes	Troubleshooting completed. (Explain the contents of the servicing to the customer.)

<p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Connect all the connectors. ▪ Reconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Select the mode when the malfunction occurred by operating the center display or the commander switch. ▪ Is audio output normally? 	No	<p>Verify the malfunction symptom in the symptom troubleshooting chart and perform the other applicable malfunction diagnosis.</p> <p>(See SYMPTOM TROUBLESHOOTING [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].)</p>
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NO Bluetooth® AUDIO AND INTERNET RADIO SOUND [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

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2016 – MX-5 – Body and Accessories

NO Bluetooth® AUDIO AND INTERNET RADIO SOUND [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

Description	NO Bluetooth® AUDIO AND INTERNET RADIO SOUND
	Radio, CD, AUX/USB audio, guidance audio is output, but no Bluetooth® audio, Internet radio audio
Possible Causes	<ul style="list-style-type: none"> ▪ Mobile device such as Smartphone, or Bluetooth® enabled device malfunction ▪ Connector poor contact or terminal damage

- Connectivity master unit (CMU) malfunction

Diagnostic Procedure

Step	Inspection	Action
1	VERIFY MALFUNCTION SYMPTOM <ul style="list-style-type: none"> ▪ Switch the ignition to ACC or ON (engine off or on). ▪ After obtaining the customer's consent, use another mobile device such as a Smartphone or Bluetooth® enabled device and select Bluetooth® audio or Internet radio. ▪ Is Bluetooth® audio or Internet radio audio output? 	Yes Explain to the customer that there is a malfunction in the mobile device such as a Smartphone or a Bluetooth® enabled device.
		No Go to the next step.
2	INSPECT CMU CONNECTOR <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.) ▪ Disconnect the CMU connector. ▪ Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. ▪ Is the connector normal? 	Yes Replace the CMU, then go to the next step. (See CONNECTIVITY MASTER UNIT (CMU) REMOVAL/INSTALLATION.)
		No Repair or replace the connector, then go to the next step.
3	VERIFY IF MALFUNCTION CAUSE IS CORRECTED <ul style="list-style-type: none"> ▪ Connect the CMU connector. ▪ Reconnect the negative battery cable. 	Yes Troubleshooting completed. (Explain the contents of the servicing to the customer.)
		No Verify the malfunction symptom in the symptom

(See [NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.](#))

- Switch the ignition to ACC or ON (engine off or on).
- Using the mobile device such as a Smartphone or the Bluetooth® enabled device when the malfunction occurred, select Bluetooth® audio or Internet radio.
- Is Bluetooth® audio or Internet radio audio output?

troubleshooting chart and perform the other applicable malfunction diagnosis.

(See [SYMPTOM TROUBLESHOOTING \[ENTERTAINMENT SYSTEM \[WITH CENTER DISPLAY\]\].](#))

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NO USB AUDIO SOUND OUTPUT [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

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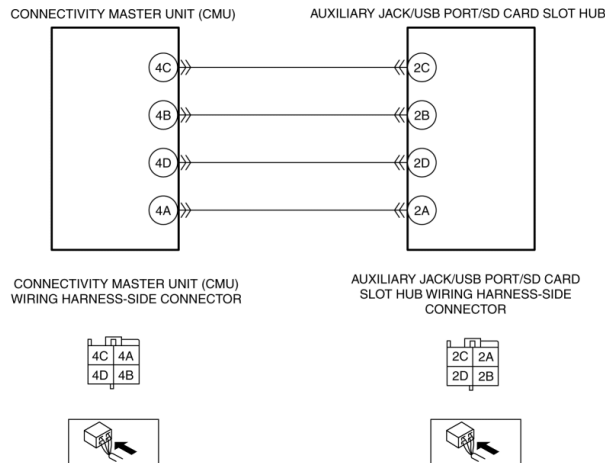
2016 – MX-5 – Body and Accessories

NO USB AUDIO SOUND OUTPUT [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

<p>Description</p>	<p>NO USB AUDIO SOUND OUTPUT</p> <p>Radio, CD, AUX audio, Bluetooth® audio, Internet radio, and guidance audio is output, but not USB audio</p>
<p>Possible Causes</p>	<ul style="list-style-type: none"> ▪ USB device malfunction ▪ Connector poor contact or terminal damage ▪ Open circuit in wiring harness between the following terminals: ▪ Connectivity master unit (CMU) terminal 4A and auxiliary jack/USB port/SD card slot hub terminal 2A ▪ Short to ground in wiring harness between the following terminals:

- CMU terminal 4B and auxiliary jack/USB port/SD card slot hub terminal 2B
- CMU terminal 4D and auxiliary jack/USB port/SD card slot hub terminal 2D
- Short to power supply in wiring harness between the following terminals:
 - CMU terminal 4A and auxiliary jack/USB port/SD card slot hub terminal 2A
 - CMU terminal 4B and auxiliary jack/USB port/SD card slot hub terminal 2B
 - CMU terminal 4D and auxiliary jack/USB port/SD card slot hub terminal 2D
- Auxiliary jack/USB port/SD card slot hub malfunction
- CMU malfunction

System Wiring Diagram



Diagnostic Procedure

Step	Inspection	Action
1	DETERMINE IF MALFUNCTION CAUSE IS USB DEVICE <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ After obtaining the customer's consent, replace with a USB device that was not used when the malfunction occurred. 	Yes System is normal. (Explain to the customer that the USB device or internal data has a malfunction)
		No Go to the next step.

	<ul style="list-style-type: none"> ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Select the USB audio mode by operating the commander switch or the center display. ▪ Is sound from the USB audio output? 		
2	<p>INSPECT AUXILIARY JACK/USB PORT/SD CARD SLOT HUB CONNECTOR</p> <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Disconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Disconnect the auxiliary jack/USB port/SD card slot hub connector. ▪ Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. ▪ Is the connector normal? 	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 8.
3	<p>INSPECT CMU CONNECTOR</p> <ul style="list-style-type: none"> ▪ Disconnect the CMU connector. ▪ Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. ▪ Is the connector normal? 	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 8.
4	<p>VERIFY IF MALFUNCTION CAUSE IS OPEN CIRCUIT IN WIRING HARNESS</p>	Yes	Go to the next step.
		No	<ul style="list-style-type: none"> ▪ Refer to the wiring

	<p>BETWEEN CMU AND AUXILIARY JACK/USB PORT/SD CARD SLOT HUB</p> <ul style="list-style-type: none"> ▪ Verify that the CMU and the auxiliary jack/USB port/SD card slot hub connector are disconnected. ▪ Inspect the wiring harness for continuity between the following terminals (vehicle wiring harness side). ▪ CMU terminal 4A and auxiliary jack/USB port/SD card slot hub terminal 2A ▪ Is there continuity? 	<p>diagram and verify if there is a common connector between the following terminals.</p> <ul style="list-style-type: none"> ▪ CMU terminal 4A and auxiliary jack/USB port/SD card slot hub terminal 2A <p>If there is a common connector:</p> <ul style="list-style-type: none"> ▪ Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring harnesses for an open circuit to determine the malfunctioning location. ▪ Repair or replace the malfunctioning location. <p>If there is no common connector:</p> <ul style="list-style-type: none"> ▪ Repair or replace the wiring harness which has an open circuit. ▪ Go to Step 8.
<p>5</p>	<p>VERIFY IF MALFUNCTION CAUSE IS SHORT CIRCUIT TO GROUND IN WIRING HARNESS BETWEEN CMU AND AUXILIARY JACK/USB PORT/SD CARD SLOT HUB</p> <ul style="list-style-type: none"> ▪ Verify that the CMU and the auxiliary jack/USB port/SD card slot hub connector are disconnected. ▪ Inspect for continuity between the following wiring harness 	<p>Yes</p> <ul style="list-style-type: none"> ▪ Refer to the wiring diagram and verify if there is a common connector between the following terminals. ▪ CMU terminal 4B and auxiliary jack/USB port/SD card slot hub terminal 2B ▪ CMU terminal 4D and auxiliary jack/USB

	<p>terminals (vehicle wiring harness side) and body ground.</p> <ul style="list-style-type: none"> ▪ Auxiliary jack/USB port/SD card slot hub terminal 2B ▪ Auxiliary jack/USB port/SD card slot hub terminal 2D ▪ Is there continuity? 		<p>port/SD card slot hub terminal 2D</p> <p>If there is a common connector:</p> <ul style="list-style-type: none"> ▪ Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring harnesses for short to ground to determine the malfunctioning location. ▪ Repair or replace the malfunctioning location. <p>If there is no common connector:</p> <ul style="list-style-type: none"> ▪ Repair or replace the wiring harness which is shorted to ground. ▪ Go to Step 8.
		No	Go to the next step.
6	<p>VERIFY IF MALFUNCTION CAUSE IS SHORT CIRCUIT TO POWER SUPPLY IN WIRING HARNESS BETWEEN CMU AND AUXILIARY JACK/USB PORT/SD CARD SLOT HUB</p> <ul style="list-style-type: none"> ▪ Verify that the CMU and the auxiliary jack/USB port/SD card slot hub connector are disconnected. ▪ Reconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p>	Yes	<ul style="list-style-type: none"> ▪ Refer to the wiring diagram and verify if there is a common connector between the following terminals. ▪ CMU terminal 4A and auxiliary jack/USB port/SD card slot hub terminal 2A ▪ CMU terminal 4B and auxiliary jack/USB port/SD card slot hub terminal 2B ▪ CMU terminal 4D and auxiliary jack/USB

- Switch the ignition to ACC or ON (engine off or on).
- Measure the voltage at the following terminals (vehicle wiring harness side).
- Auxiliary jack/USB port/SD card slot hub terminal 2A
- Auxiliary jack/USB port/SD card slot hub terminal 2B
- Auxiliary jack/USB port/SD card slot hub terminal 2D
- Is the voltage **B+**?

port/SD card slot hub terminal 2D

If there is a common connector:

- Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring harnesses for short to power supply to determine the malfunctioning location.
- Repair or replace the malfunctioning location.

If there is no common connector:

- Repair or replace the wiring harness which is shorted to the power supply.
- Go to Step 8.

No Go to the next step.

7

VERIFY IF MALFUNCTION CAUSE IS AUXILIARY JACK/USB PORT/SD CARD SLOT HUB

- Switch the ignition off.
- Disconnect the negative battery cable.

(See [NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.](#))
- Replace the auxiliary jack/USB port/SD card slot hub.

(See [AUXILIARY JACK/USB PORT/SD CARD SLOT HUB](#))

Yes Troubleshooting completed. (Explain the contents of the servicing to the customer.)

	<p>REMOVAL/INSTALLATION.)</p> <ul style="list-style-type: none"> ▪ Connect all the connectors. ▪ Reconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Insert the USB disc when the malfunction occurred. ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Select the USB audio mode by operating the commander switch or the center display. ▪ Is sound from the USB audio output? 	<p>No</p>	<p>Replace the CMU, then go to the next step.</p> <p>(See CONNECTIVITY MASTER UNIT (CMU) REMOVAL/INSTALLATION.)</p>
<p>8</p>	<p>VERIFY IF MALFUNCTION CAUSE IS CORRECTED</p> <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Disconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Connect all the connectors. ▪ Reconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Insert the USB disc when the malfunction occurred. ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Select the USB audio mode by operating the commander switch or the center display. ▪ Is sound from the USB audio output? 	<p>Yes</p>	<p>Troubleshooting completed. (Explain the contents of the servicing to the customer.)</p>
		<p>No</p>	<p>Verify the malfunction symptom in the symptom troubleshooting chart and perform the other applicable malfunction diagnosis.</p> <p>(See SYMPTOM TROUBLESHOOTING [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].)</p>

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NO NAVIGATION GUIDANCE VOICE OUTPUT [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

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2016 – MX-5 – Body and Accessories

NO NAVIGATION GUIDANCE VOICE OUTPUT [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

Description	NO NAVIGATION GUIDANCE VOICE OUTPUT Radio, CD, AUX/USB audio, Bluetooth® audio, and Internet radio audio is output, but no navigation guidance audio
Possible Causes	<ul style="list-style-type: none"> ▪ SD card malfunction ▪ Connector poor contact or terminal damage ▪ Auxiliary jack/USB port/SD card slot hub malfunction ▪ Global positioning system (GPS) antenna malfunction ▪ CMU malfunction

Diagnostic Procedure

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Step	Inspection	Action	
1	<p>VERIFY VOLUME SETTING</p> <ul style="list-style-type: none"> ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Select the navigation mode by operating the commander switch or the center display. ▪ Operate the navigation guidance audio by operating the commander switch or the steering switch. ▪ Is navigation guidance audio output according to the operation? 	Yes	System is normal.
2	<p>VISUALLY INSPECT SD CARD</p> <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Visually inspect the SD card for looseness or damage. ▪ Is the SD card normal? 	Yes	Go to the next step.
3	<p>INSPECT GPS ANTENNA CONNECTOR</p> <ul style="list-style-type: none"> ▪ Disconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Disconnect the GPS antenna connector. ▪ Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. ▪ Is the connector normal? 	Yes	Go to the next step.
4	<p>VERIFY IF MALFUNCTION CAUSE IS</p>	Yes	Troubleshooting

	<p>AUXILIARY JACK/USB PORT/SD CARD SLOT HUB</p> <ul style="list-style-type: none"> ▪ Replace the auxiliary jack/USB port/SD card slot hub. <p>(See AUXILIARY JACK/USB PORT/SD CARD SLOT HUB REMOVAL/INSTALLATION.)</p> <ul style="list-style-type: none"> ▪ Connect all the connectors. ▪ Reconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Insert the SD card when the malfunction occurred. ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Select navigation by operating the center display or the commander switch. ▪ Set to an optional destination and operate the navigation function. ▪ Is navigation guidance audio output according to the operation? 		<p>completed. (Explain the contents of the servicing to the customer.)</p>
		<p>No</p>	<p>Go to the next step.</p>
<p>5</p>	<p>VERIFY IF MALFUNCTION CAUSE IS GPS ANTENNA</p> <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Disconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Replace the GPS antenna. <p>(See GLOBAL POSITIONING SYSTEM (GPS) ANTENNA REMOVAL/INSTALLATION.)</p> <ul style="list-style-type: none"> ▪ Connect all the connectors. 	<p>Yes</p>	<p>Troubleshooting completed. (Explain the contents of the servicing to the customer.)</p>

	<ul style="list-style-type: none"> ▪ Reconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.) ▪ Insert the SD card when the malfunction occurred. ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Select navigation by operating the center display or the commander switch. ▪ Set to an optional destination and operate the navigation function. ▪ Is navigation guidance audio output according to the operation? 	<p>No</p>	<p>Replace the CMU, then go to the next step. (See CONNECTIVITY MASTER UNIT (CMU) REMOVAL/INSTALLATION.)</p>
<p>6</p>	<p>VERIFY IF MALFUNCTION CAUSE IS CORRECTED</p> <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.) ▪ Connect all the connectors. ▪ Reconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.) ▪ Insert the SD card when the malfunction occurred. ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Select navigation by operating the center display or the commander switch. 	<p>Yes</p>	<p>Troubleshooting completed. (Explain the contents of the servicing to the customer.)</p>
		<p>No</p>	<p>Verify the malfunction symptom in the symptom troubleshooting chart and perform the other applicable malfunction diagnosis. (See SYMPTOM TROUBLESHOOTING [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].)</p>

- Set to an optional destination and operate the navigation function.
- Is navigation guidance audio output according to the operation?

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NO VOICE RECOGNITION GUIDANCE VOICE OUTPUT [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

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2016 – MX-5 – Body and Accessories

NO VOICE RECOGNITION GUIDANCE VOICE OUTPUT [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

Description	NO VOICE RECOGNITION GUIDANCE VOICE OUTPUT
	Radio, CD, AUX/USB audio, Bluetooth® audio, and Internet radio audio is output, but not voice recognition guidance voice
Possible Causes	Connectivity master unit (CMU) malfunction

Diagnostic Procedure

Step	Inspection	Action
1	VERIFY MALFUNCTION SYMPTOM	Yes System is normal.
		No Replace the CMU, then go to the next step.

	<ul style="list-style-type: none"> ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Press the TALK button on the steering switch. ▪ Is voice recognition guidance voice output? 		<p>(See CONNECTIVITY MASTER UNIT (CMU) REMOVAL/INSTALLATION.)</p>
2	<p>VERIFY IF MALFUNCTION CAUSE IS CORRECTED</p> <ul style="list-style-type: none"> ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Press the TALK button on the steering switch. ▪ Is voice recognition guidance voice output? 	Yes	<p>Troubleshooting completed (explain the contents of the servicing to the customer).</p>
		No	<p>Verify the malfunction symptom in the symptom troubleshooting chart and perform the other applicable malfunction diagnosis.</p> <p>(See SYMPTOM TROUBLESHOOTING [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].)</p>

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NO CD SOUND OUTPUT [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

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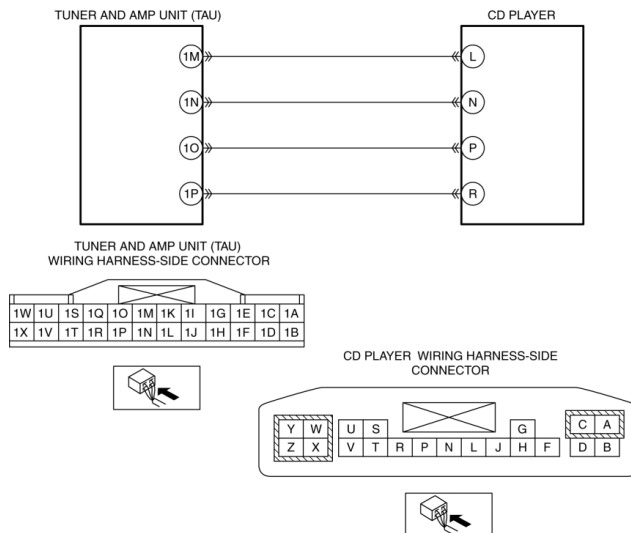
2016 – MX-5 – Body and Accessories

NO CD SOUND OUTPUT [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

Description	NO CD SOUND OUTPUT Radio, AUX audio, Bluetooth® audio, Internet radio, USB audio and guidance voice is output, but not CD sound
Possible Causes	<ul style="list-style-type: none"> ▪ CD malfunction ▪ Connector poor contact or terminal damage ▪ Open circuit in wiring harness between the following terminals: ▪ Tuner and amp unit (TAU) terminal 1M and CD player terminal L ▪ TAU terminal 1N and CD player terminal N ▪ TAU terminal 1O and CD player terminal P ▪ TAU terminal 1P and CD player terminal R ▪ Short to ground in wiring harness between the following terminals: ▪ TAU terminal 1M and CD player terminal L

- TAU terminal 1N and CD player terminal N
- TAU terminal 1O and CD player terminal P
- TAU terminal 1P and CD player terminal R
- Short to power supply in wiring harness between the following terminals:
 - TAU terminal 1M and CD player terminal L
 - TAU terminal 1N and CD player terminal N
 - TAU terminal 1O and CD player terminal P
 - TAU terminal 1P and CD player terminal R
- CD player malfunction
- TAU malfunction
- Connectivity master unit (CMU) malfunction

System Wiring Diagram



Diagnostic Procedure

Step	Inspection	Action
1	<p>DETERMINE IF MALFUNCTION CAUSE IS CD</p> <ul style="list-style-type: none"> ▪ After obtaining the customer's consent, replace with a CD that was not used when the malfunction occurred. ▪ Is CD sound produced? 	<p>Yes</p> <p>System is normal. Explain to the customer that the CD cannot be played for any one of the following reasons.</p> <ul style="list-style-type: none"> ▪ Dirt or scratches on CD

			<ul style="list-style-type: none"> ▪ Sound file not compatible
		No	Go to the next step.
2	INSPECT CD PLAYER CONNECTOR <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Disconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Disconnect the CD player connector. ▪ Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. ▪ Is the connector normal? 	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 9.
3	INSPECT TAU CONNECTOR <ul style="list-style-type: none"> ▪ Disconnect the TAU connector. ▪ Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. ▪ Is the connector normal? 	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 9.
4	VERIFY IF MALFUNCTION CAUSE IS OPEN CIRCUIT IN WIRING HARNESS BETWEEN TAU AND CD PLAYER <ul style="list-style-type: none"> ▪ Verify that the CD player and the TAU connector are disconnected. ▪ Inspect the wiring harness for continuity between the following 	Yes	Go to the next step.
		No	<ul style="list-style-type: none"> ▪ Refer to the wiring diagram and verify if there is a common connector between the following terminals. ▪ TAU terminal 1M and CD player terminal L

	<p>terminals (vehicle wiring harness side).</p> <ul style="list-style-type: none"> ▪ TAU terminal 1M and CD player terminal L ▪ TAU terminal 1N and CD player terminal N ▪ TAU terminal 1O and CD player terminal P ▪ TAU terminal 1P and CD player terminal R ▪ Is there continuity? 	<ul style="list-style-type: none"> ▪ TAU terminal 1N and CD player terminal N ▪ TAU terminal 1O and CD player terminal P ▪ TAU terminal 1P and CD player terminal R <p>If there is a common connector:</p> <ul style="list-style-type: none"> ▪ Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring harnesses for an open circuit to determine the malfunctioning location. ▪ Repair or replace the malfunctioning location. <p>If there is no common connector:</p> <ul style="list-style-type: none"> ▪ Repair or replace the wiring harness which has an open circuit. ▪ Go to Step 9.
5	<p>VERIFY IF MALFUNCTION CAUSE IS SHORT CIRCUIT TO GROUND IN WIRING HARNESS BETWEEN TAU AND CD PLAYER</p> <ul style="list-style-type: none"> ▪ Verify that the CD player and the TAU connector are disconnected. ▪ Inspect for continuity between the following wiring harness terminals (vehicle wiring harness side) and body ground. ▪ CD player terminal L 	<p>Yes</p> <ul style="list-style-type: none"> ▪ Refer to the wiring diagram and verify if there is a common connector between the following terminals. ▪ TAU terminal 1M and CD player terminal L ▪ TAU terminal 1N and CD player terminal N ▪ TAU terminal 1O and CD player terminal P

	<ul style="list-style-type: none"> ▪ CD player terminal N ▪ CD player terminal P ▪ CD player terminal R ▪ Is there continuity? 	<ul style="list-style-type: none"> ▪ TAU terminal 1P and CD player terminal R <p>If there is a common connector:</p> <ul style="list-style-type: none"> ▪ Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring harnesses for short to ground to determine the malfunctioning location. ▪ Repair or replace the malfunctioning location. <p>If there is no common connector:</p> <ul style="list-style-type: none"> ▪ Repair or replace the wiring harness which is shorted to ground. ▪ Go to Step 9.
		<p>No Go to the next step.</p>
<p>6</p>	<p>VERIFY IF MALFUNCTION CAUSE IS SHORT CIRCUIT TO POWER SUPPLY IN WIRING HARNESS BETWEEN TAU AND CD UNIT</p> <ul style="list-style-type: none"> ▪ Verify that the CD player and the TAU connector are disconnected. ▪ Reconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Measure the voltage at the following terminals (vehicle 	<p>Yes</p> <ul style="list-style-type: none"> ▪ Refer to the wiring diagram and verify if there is a common connector between the following terminals. ▪ TAU terminal 1M and CD player terminal L ▪ TAU terminal 1N and CD player terminal N ▪ TAU terminal 1O and CD player terminal P ▪ TAU terminal 1P and CD player terminal R

	<p>wiring harness side).</p> <ul style="list-style-type: none"> ▪ CD player terminal L ▪ CD player terminal N ▪ CD player terminal P ▪ CD player terminal R ▪ Is the voltage B+? 		<p>If there is a common connector:</p> <ul style="list-style-type: none"> ▪ Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring harnesses for a short to power supply. ▪ Repair or replace the malfunctioning location. <p>If there is no common connector:</p> <ul style="list-style-type: none"> ▪ Repair or replace the wiring harness which is shorted to the power supply. ▪ Go to Step 9.
<p>7</p>	<p>DETERMINE IF MALFUNCTION CAUSE IS CD PLAYER</p> <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Disconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Replace the CD player. <p>(See CD PLAYER REMOVAL/INSTALLATION.)</p> <ul style="list-style-type: none"> ▪ Connect all the connectors. ▪ Reconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p>	<p>No</p>	<p>Go to the next step.</p>
		<p>Yes</p>	<p>Troubleshooting completed (explain the contents of the servicing to the customer).</p>

	<ul style="list-style-type: none"> ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Insert the CD when the malfunction occurred. ▪ Is CD sound produced? 	No	Go to the next step.
8	<p>DETERMINE IF MALFUNCTION CAUSE IS TAU</p> <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Disconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Replace the TAU. <p>(See TUNER AND AMP UNIT (TAU) REMOVAL/INSTALLATION.)</p> <ul style="list-style-type: none"> ▪ Connect all the connectors. ▪ Reconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Insert the CD when the malfunction occurred. ▪ Is CD sound produced? 	Yes	Troubleshooting completed (explain the contents of the servicing to the customer).
		No	<p>Replace the CMU, then go to the next step.</p> <p>(See CONNECTIVITY MASTER UNIT (CMU) REMOVAL/INSTALLATION.)</p>
9	<p>VERIFY IF MALFUNCTION CAUSE IS CORRECTED</p> <ul style="list-style-type: none"> ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Insert the CD when the malfunction occurred. ▪ Is CD sound produced? 	Yes	Troubleshooting completed (explain the contents of the servicing to the customer).
		No	Verify the malfunction symptom in the symptom troubleshooting chart and perform the other applicable malfunction diagnosis.

(See [SYMPTOM TROUBLESHOOTING \[ENTERTAINMENT SYSTEM \[WITH CENTER DISPLAY\]\]](#).)

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NO AUX AUDIO SOUND OUTPUT [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

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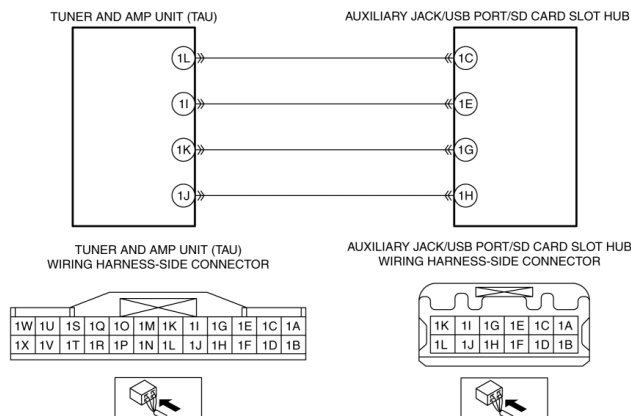
2016 – MX-5 – Body and Accessories

NO AUX AUDIO SOUND OUTPUT [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

<p>Description</p>	<p>NO AUX AUDIO SOUND OUTPUT</p> <p>Radio, CD audio, Bluetooth® audio, Internet radio, and guidance audio is output, but not AUX audio</p>
<p>Possible Causes</p>	<ul style="list-style-type: none"> ▪ External device malfunction ▪ Connector poor contact or terminal damage ▪ Open circuit in wiring harness between the following terminals: ▪ Tuner and amp unit (TAU) terminal 1L and auxiliary jack/USB port/SD card slot hub terminal 1C ▪ TAU terminal 1I and auxiliary jack/USB port/SD card slot hub terminal 1E

- TAU terminal 1K and auxiliary jack/USB port/SD card slot hub terminal 1G
- TAU terminal 1J and auxiliary jack/USB port/SD card slot hub terminal 1H
- Short to ground in wiring harness between the following terminals:
- TAU terminal 1L and auxiliary jack/USB port/SD card slot hub terminal 1C
- TAU terminal 1I and auxiliary jack/USB port/SD card slot hub terminal 1E
- TAU terminal 1K and auxiliary jack/USB port/SD card slot hub terminal 1G
- TAU terminal 1J and auxiliary jack/USB port/SD card slot hub terminal 1H
- Short to power supply in wiring harness between the following terminals:
- TAU terminal 1L and auxiliary jack/USB port/SD card slot hub terminal 1C
- TAU terminal 1I and auxiliary jack/USB port/SD card slot hub terminal 1E
- TAU terminal 1K and auxiliary jack/USB port/SD card slot hub terminal 1G
- TAU terminal 1J and auxiliary jack/USB port/SD card slot hub terminal 1H
- Auxiliary jack/USB port/SD card slot hub malfunction
- TAU malfunction
- Connectivity master unit (CMU) malfunction

System Wiring Diagram



Diagnostic Procedure

Step	Inspection		Action
1	DETERMINE IF MALFUNCTION CAUSE IS EXTERNAL DEVICE <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ After obtaining the customer's consent, replace with an external media that was not used when the malfunction occurred. ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Select the AUX audio mode by operating the commander switch or the center display. ▪ Is sound from the AUX audio output? 	Yes	System is normal. (Explain to the customer that the external device or internal data has a malfunction)
		No	Go to the next step.
2	INSPECT AUXILIARY JACK/USB PORT/SD CARD SLOT HUB CONNECTOR <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Disconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Disconnect the auxiliary jack/USB port/SD card slot hub connector. ▪ Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. ▪ Is the connector normal? 	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 10.
3	INSPECT TAU CONNECTOR	Yes	Go to the next step.

	<ul style="list-style-type: none"> ▪ Disconnect the TAU connector. ▪ Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. ▪ Is the connector normal? 	No	Repair or replace the connector, then go to Step 10.
4	<p>INSPECT CMU CONNECTOR</p> <ul style="list-style-type: none"> ▪ Disconnect the CMU connector. ▪ Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. ▪ Is the connector normal? 	Yes	Go to the next step.
5	<p>VERIFY IF MALFUNCTION CAUSE IS OPEN CIRCUIT IN WIRING HARNESS BETWEEN TAU AND AUXILIARY JACK/USB PORT/SD CARD SLOT HUB</p> <ul style="list-style-type: none"> ▪ Verify that the TAU and the auxiliary jack/USB port/SD card slot hub connector are disconnected. ▪ Inspect the wiring harness for continuity between the following terminals (vehicle wiring harness side). ▪ TAU terminal 1L and auxiliary jack/USB port/SD card slot hub terminal 1C ▪ TAU terminal 1I and auxiliary jack/USB port/SD card slot hub terminal 1E ▪ TAU terminal 1K and auxiliary jack/USB port/SD card slot hub terminal 1G 	Yes	Go to the next step.
		No	<ul style="list-style-type: none"> ▪ Refer to the wiring diagram and verify if there is a common connector between the following terminals. ▪ TAU terminal 1L and auxiliary jack/USB port/SD card slot hub terminal 1C ▪ TAU terminal 1I and auxiliary jack/USB port/SD card slot hub terminal 1E ▪ TAU terminal 1K and auxiliary jack/USB port/SD card slot hub terminal 1G ▪ TAU terminal 1J and auxiliary jack/USB

	<ul style="list-style-type: none"> ▪ TAU terminal 1J and auxiliary jack/USB port/SD card slot hub terminal 1H ▪ Is there continuity? 		<p>port/SD card slot hub terminal 1H</p> <p>If there is a common connector:</p> <ul style="list-style-type: none"> ▪ Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring harnesses for an open circuit to determine the malfunctioning location. ▪ Repair or replace the malfunctioning location. <p>If there is no common connector:</p> <ul style="list-style-type: none"> ▪ Repair or replace the wiring harness which has an open circuit. ▪ Go to Step 10.
<p>6</p>	<p>VERIFY IF MALFUNCTION CAUSE IS SHORT CIRCUIT TO GROUND IN WIRING HARNESS BETWEEN TAU AND AUXILIARY JACK/USB PORT/SD CARD SLOT HUB</p> <ul style="list-style-type: none"> ▪ Verify that the TAU and the auxiliary jack/USB port/SD card slot hub connector are disconnected. ▪ Inspect for continuity between the following wiring harness terminals (vehicle wiring harness side) and body ground. ▪ Auxiliary jack/USB port/SD card slot hub terminal 1C ▪ Auxiliary jack/USB port/SD card slot hub terminal 1E 	<p>Yes</p>	<ul style="list-style-type: none"> ▪ Refer to the wiring diagram and verify if there is a common connector between the following terminals. ▪ TAU terminal 1L and auxiliary jack/USB port/SD card slot hub terminal 1C ▪ TAU terminal 1I and auxiliary jack/USB port/SD card slot hub terminal 1E ▪ TAU terminal 1K and auxiliary jack/USB port/SD card slot hub terminal 1G

	<ul style="list-style-type: none"> ▪ Auxiliary jack/USB port/SD card slot hub terminal 1G ▪ Auxiliary jack/USB port/SD card slot hub terminal 1H ▪ Is there continuity? 	<ul style="list-style-type: none"> ▪ TAU terminal 1J and auxiliary jack/USB port/SD card slot hub terminal 1H <p>If there is a common connector:</p> <ul style="list-style-type: none"> ▪ Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring harnesses for short to ground to determine the malfunctioning location. ▪ Repair or replace the malfunctioning location. <p>If there is no common connector:</p> <ul style="list-style-type: none"> ▪ Repair or replace the wiring harness which is shorted to ground. ▪ Go to Step 10.
		<p>No Go to the next step.</p>
<p>7</p>	<p>VERIFY IF MALFUNCTION CAUSE IS SHORT CIRCUIT TO POWER SUPPLY IN WIRING HARNESS BETWEEN TAU AND AUXILIARY JACK/USB PORT/SD CARD SLOT HUB</p> <ul style="list-style-type: none"> ▪ Verify that the TAU and the auxiliary jack/USB port/SD card slot hub connector are disconnected. ▪ Reconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p>	<p>Yes</p> <ul style="list-style-type: none"> ▪ Refer to the wiring diagram and verify if there is a common connector between the following terminals. ▪ TAU terminal 1L and auxiliary jack/USB port/SD card slot hub terminal 1C ▪ TAU terminal 1I and auxiliary jack/USB port/SD card slot hub terminal 1E

	<ul style="list-style-type: none"> ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Measure the voltage at the following terminals (vehicle wiring harness side). ▪ Auxiliary jack/USB port/SD card slot hub terminal 1C ▪ Auxiliary jack/USB port/SD card slot hub terminal 1E ▪ Auxiliary jack/USB port/SD card slot hub terminal 1G ▪ Auxiliary jack/USB port/SD card slot hub terminal 1H ▪ Is the voltage B+? 	<ul style="list-style-type: none"> ▪ TAU terminal 1K and auxiliary jack/USB port/SD card slot hub terminal 1G ▪ TAU terminal 1J and auxiliary jack/USB port/SD card slot hub terminal 1H <p>If there is a common connector:</p> <ul style="list-style-type: none"> ▪ Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring harnesses for short to power supply to determine the malfunctioning location. ▪ Repair or replace the malfunctioning location. <p>If there is no common connector:</p> <ul style="list-style-type: none"> ▪ Repair or replace the wiring harness which is shorted to the power supply. ▪ Go to Step 10.
		<p>No Go to the next step.</p>
<p>8</p>	<p>VERIFY IF MALFUNCTION CAUSE IS AUXILIARY JACK/USB PORT/SD CARD SLOT HUB</p> <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Disconnect the negative battery cable. 	<p>Yes Troubleshooting completed. (Explain the contents of the servicing to the customer.)</p>

	<p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> Replace the auxiliary jack/USB port/SD card slot hub. <p>(See AUXILIARY JACK/USB PORT/SD CARD SLOT HUB REMOVAL/INSTALLATION.)</p> Connect all the connectors. Reconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> Connect the external device when the malfunction occurred. Switch the ignition to ACC or ON (engine off or on). Select the AUX audio mode by operating the commander switch or the center display. Is sound from the AUX audio output? 		
		No	Go to the next step.
9	<p>VERIFY IF MALFUNCTION CAUSE IS TAU</p> <ul style="list-style-type: none"> Switch the ignition off. Disconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> Replace the TAU. <p>(See TUNER AND AMP UNIT (TAU) REMOVAL/INSTALLATION.)</p> Connect all the connectors. Reconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> 	Yes	Troubleshooting completed. (Explain the contents of the servicing to the customer.)
		No	<p>Replace the CMU, then go to the next step.</p> <p>(See CONNECTIVITY MASTER UNIT (CMU) REMOVAL/INSTALLATION.)</p>

	<ul style="list-style-type: none"> ▪ Connect the external device when the malfunction occurred. ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Select the AUX audio mode by operating the commander switch or the center display. ▪ Is sound from the AUX audio output? 		
10	<p>VERIFY IF MALFUNCTION CAUSE IS CORRECTED</p> <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.) ▪ Connect all the connectors. ▪ Reconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.) ▪ Connect the external device when the malfunction occurred. ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Select the AUX audio mode by operating the commander switch or the center display. ▪ Is sound from the AUX audio output? 	Yes	Troubleshooting completed. (Explain the contents of the servicing to the customer.)
		No	<p>Verify the malfunction symptom in the symptom troubleshooting chart and perform the other applicable malfunction diagnosis.</p> <p>(See SYMPTOM TROUBLESHOOTING [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].)</p>

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VOICE OPERATION NOT POSSIBLE [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

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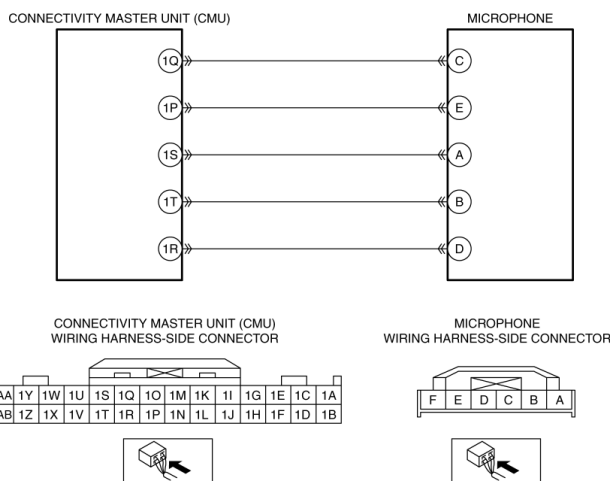
VOICE OPERATION NOT POSSIBLE [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

<p>Description</p>	<p>VOICE OPERATION NOT POSSIBLE</p> <p>Voice operation of audio function, communication function, and navigation function is not possible</p> <p>NOTE:</p> <ul style="list-style-type: none"> ▪ The following applicable voice operations are not possible. ▪ Voice operation of audio function ▪ Except for USB audio mode, voice operation for specifying, song title, artist name, and album name is not possible ▪ If the USB device audio file does not contain song information (song title, artist name, album name), the song information cannot be specified.
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	<ul style="list-style-type: none"> ▪ Hands-free telephone (HF/TEL) voice operation ▪ If the connectivity master unit (CMU) cannot read the telephone book, voice operation is not possible. ▪ If “Mr./Mrs.” is added to a person’s name when speaking, normal voice operation is not possible (non-match to name registered in telephone book) ▪ If there are several names with similar pronunciation to the name registered in the telephone book, normal voice operation is not possible (John Smith/ Juan Smith) ▪ If the person’s name that is spoken is short, normal voice operation is not possible (Ma/Pa)
<p>Possible Causes</p>	<ul style="list-style-type: none"> ▪ Malfunction due to conditions of use ▪ Abnormally slow speech ▪ Loud speech ▪ Difference between language set in the CMU and language used in voice operation ▪ Malfunction due to effects of surrounding environment ▪ Air from A/C is blown against the microphone ▪ Loud road noise, A/C operation sound, external noise ▪ Speaker malfunction ▪ Audio amplifier unit malfunction (with Bose®) ▪ Tuner and amp unit (TAU) malfunction ▪ Connector poor contact or terminal damage ▪ Microphone malfunction ▪ Open circuit in wiring harness between the following terminals ▪ CMU terminal 1P and microphone terminal E ▪ CMU terminal 1R and microphone terminal D ▪ CMU terminal 1S and microphone terminal A ▪ CMU terminal 1T and microphone terminal B

- Short to ground in wiring harness between the following terminals
- CMU terminal 1P and microphone terminal E
- Short to power supply in wiring harness between the following terminals
- CMU terminal 1P and microphone terminal E
- CMU terminal 1R and microphone terminal D
- Microphone internal malfunction
- CMU internal malfunction

System Wiring Diagram



Diagnostic Procedure

Step	Inspection	Action
1	<p>VERIFY IF MALFUNCTION DUE TO CUSTOMER USE METHOD</p> <ul style="list-style-type: none"> ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Press the TALK button on the steering switch. ▪ After the voice guidance instructs the user to speak after the beep, say, "AM" into the microphone in a normal or slightly loud voice. 	Yes System is normal. (Explain the contents of the servicing to the customer)
		No Go to the next step.

	<ul style="list-style-type: none"> Does the center display change to the AM radio screen? <p>Determination criteria</p> <ul style="list-style-type: none"> Screen changes to AM screen once or more by voicing 10 times. 		
<p>2</p>	<p>VERIFY IF MALFUNCTION DUE TO EFFECTS OF SURROUNDING ENVIRONMENT</p> <ul style="list-style-type: none"> Verify if air from the A/C is being blown against the microphone. Move the vehicle to a location with little external noise. Press the TALK button on the steering switch. After the voice guidance instructs the user to speak after the beep, say, "AM" into the microphone in a normal or slightly loud voice. Does the center display change to the AM radio screen? <p>Determination criteria</p> <ul style="list-style-type: none"> Screen changes to AM screen once or more by voicing 10 times. 	<p>Yes</p>	<p>System is normal. (Explain the contents of the servicing to the customer)</p>
		<p>No</p>	<p>Go to the next step.</p>
<p>3</p>	<p>DETERMINE IF MALFUNCTION IS SPEAKER, AUDIO AMPLIFIER RELATED</p> <ul style="list-style-type: none"> Switch the ignition to ACC or ON (engine off or on). Launch the on-board diagnostic assist function. <p>(See DIAGNOSTIC ASSIST FUNCTION [CONNECTIVITY MASTER UNIT].)</p> <ul style="list-style-type: none"> Select assist code "94". 	<p>Yes</p>	<p>The speakers and audio amplifier are normal.</p> <p>Go to the next step.</p>
		<p>No</p>	<p>Perform malfunction diagnosis according to NO SOUND OUTPUT IN ALL MODES.</p> <p>(See NO SOUND OUTPUT IN ALL MODES ENTERTAINMENT SYSTEM)</p>

	<ul style="list-style-type: none"> Press the [ENTER] and verify that the sound is output from each speaker. Is sound output from each speaker? 		[ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].
4	<p>DETERMINE IF MALFUNCTION IS TAU</p> <ul style="list-style-type: none"> Switch the ignition to ACC or ON (engine off or on). Operate the command switch or center display and verify if sound is output from the following modes. Bluetooth® audio Internet radio USB audio Is sound output? 	Yes	TAU is normal. Go to the next step.
		No	Perform malfunction diagnosis according to NO SOUND OUTPUT IN MULTIPLE MODES. (See NO SOUND OUTPUT IN MULTIPLE MODES [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].)
5	<p>DETERMINE IF MALFUNCTION IS MICROPHONE RELATED</p> <ul style="list-style-type: none"> Switch the ignition to ACC or ON (engine off or on). Launch the on-board diagnostic assist function. (See DIAGNOSTIC ASSIST FUNCTION [CONNECTIVITY MASTER UNIT].) Select assist code “61”. Press ENTER. Say, “AM” into the microphone in a normal or slightly loud voice. When speaking, verify if the “Microphone” item is displayed. Is the “Microphone” item displayed? 	Yes	The microphone is normal. Go to Step 10.
		No	Go to the next step.
6		Yes	Go to the next step.

	<p>MICROPHONE CONNECTOR INSPECTION</p> <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Disconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Disconnect the microphone connector. ▪ Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. ▪ Is the connector normal? 		
7	<p>VERIFY IF MALFUNCTION CAUSE IS OPEN CIRCUIT IN WIRING HARNESS BETWEEN CMU AND MICROPHONE</p> <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Disconnect the CMU connector. ▪ Verify that the microphone connector is disconnected. ▪ Inspect the wiring harness for continuity between the following terminals (vehicle wiring harness side). ▪ CMU terminal 1P and microphone terminal E ▪ CMU terminal 1R and microphone terminal D ▪ CMU terminal 1S and microphone terminal A ▪ CMU terminal 1T and microphone terminal B ▪ Is there continuity? 	<p>Yes</p> <p>No</p>	<p>Repair or replace the connector, then go to Step 11.</p> <p>Go to the next step.</p> <ul style="list-style-type: none"> ▪ Refer to the wiring diagram and verify if there is a common connector between the following terminals. ▪ CMU terminal 1P and microphone terminal E ▪ CMU terminal 1R and microphone terminal D ▪ CMU terminal 1S and microphone terminal A ▪ CMU terminal 1T and microphone terminal B <p>If there is a common connector:</p> <ul style="list-style-type: none"> ▪ Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring

			<p>harnesses for an open circuit to determine the malfunctioning location.</p> <ul style="list-style-type: none"> ▪ Repair or replace the malfunctioning location. <p>If there is no common connector:</p> <ul style="list-style-type: none"> ▪ Repair or replace the wiring harness which has an open circuit. ▪ Go to Step 11.
<p>8</p>	<p>VERIFY IF MALFUNCTION CAUSE IS SHORT CIRCUIT TO GROUND IN WIRING HARNESS BETWEEN CMU AND MICROPHONE</p> <ul style="list-style-type: none"> ▪ Verify that the CMU and microphone connectors are disconnected. ▪ Inspect for continuity between the following wiring harness terminals (vehicle wiring harness side) and body ground. ▪ Microphone terminal E ▪ Is there continuity? 	<p>Yes</p>	<ul style="list-style-type: none"> ▪ Refer to the wiring diagram and verify if there is a common connector between the following terminals. ▪ CMU terminal 1P and microphone terminal E <p>If there is a common connector:</p> <ul style="list-style-type: none"> ▪ Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring harnesses for short to ground to determine the malfunctioning location. ▪ Repair or replace the malfunctioning location. <p>If there is no common connector:</p> <ul style="list-style-type: none"> ▪ Repair or replace the wiring harness which is shorted to ground.

			<ul style="list-style-type: none"> Go to Step 11.
		No	Go to the next step.
9	VERIFY IF MALFUNCTION CAUSE IS SHORT CIRCUIT TO POWER SUPPLY IN WIRING HARNESS BETWEEN CMU AND MICROPHONE <ul style="list-style-type: none"> Verify that the CMU and microphone connectors are disconnected. Reconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> Switch the ignition to ACC or ON (engine off or on). Measure the voltage at the following terminals (vehicle wiring harness side). Microphone terminal E Microphone terminal D Is the voltage B+? 	Yes	<ul style="list-style-type: none"> Refer to the wiring diagram and verify if there is a common connector between the following terminals. CMU terminal 1P and microphone terminal E CMU terminal 1R and microphone terminal D <p>If there is a common connector:</p> <ul style="list-style-type: none"> Inspect the common connector and terminals for corrosion, damage, or disconnection and the common wiring harnesses for short to power supply to determine the malfunctioning location. Repair or replace the malfunctioning location. <p>If there is no common connector:</p> <ul style="list-style-type: none"> Repair or replace the wiring harness which is shorted to the power supply. Go to Step 11.
		No	<p>Replace the microphone, then go to Step 11.</p> <p>(See MICROPHONE REMOVAL/INSTALLATION.)</p>

<p>10</p>	<p>INSPECT CMU CONNECTOR</p> <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Disconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Disconnect the CMU connector. ▪ Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. ▪ Is the connector normal? 	<p>Yes</p>	<p>Replace the CMU, then go to the next step.</p> <p>(See CONNECTIVITY MASTER UNIT (CMU) REMOVAL/INSTALLATION.)</p>
<p>11</p>	<p>VERIFY IF MALFUNCTION CAUSE IS CORRECTED</p> <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Disconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Connect all the connectors. ▪ Reconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Move the vehicle to a location with little external noise. ▪ Press the TALK button on the steering switch. ▪ After the voice guidance instructs the user to speak after the beep, say, “AM” into the 	<p>Yes</p>	<p>Troubleshooting completed. (Explain the contents of the servicing to the customer.)</p>
		<p>No</p>	<p>Verify the malfunction symptom in the symptom troubleshooting chart and perform the other applicable malfunction diagnosis.</p> <p>(See SYMPTOM TROUBLESHOOTING [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].)</p>

microphone in a normal or slightly loud voice.

- Does the center display change to the AM radio screen?

Determination criteria

- Screen changes to AM screen once or more by voicing 10 times.

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Bluetooth® PAIRING NOT POSSIBLE [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

Description	<p>Bluetooth® PAIRING NOT POSSIBLE</p> <p>Bluetooth® enabled device cannot be paired to connectivity master unit (CMU)</p> <p>NOTE:</p> <ul style="list-style-type: none"> ▪ The Bluetooth® pairing procedure differs depending on the version of the Bluetooth®-enabled device. Ask the customer in advance what the Bluetooth®-enabled device's version
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	<p>was when the Bluetooth® pairing was performed.</p> <ul style="list-style-type: none"> ▪ A maximum of seven Bluetooth®-enabled devices can be programmed to one vehicle. ▪ If the Bluetooth®-enabled device has an access limitation, the pairing setting cannot be performed. Ask the customer in advance if the Bluetooth®-enabled device has an access limitation.
<p>Possible Causes</p>	<ul style="list-style-type: none"> ▪ Customer's Bluetooth®-enabled device malfunction ▪ Incompatible Bluetooth®-enabled device is used ▪ Bluetooth® setting is off ▪ Radio wave transmission setting including Bluetooth® radio wave is off ▪ If the Bluetooth® pairing has been previously performed, it will be necessary to clear the vehicle data stored in the Bluetooth®-enabled device and re-program. ▪ Bluetooth®-enabled device internal malfunction ▪ Connector poor contact or terminal damage ▪ Connectivity master unit (CMU) malfunction

Diagnostic Procedure

Step	Inspection	Action
<p>1</p>	<p>VERIFY MALFUNCTION SYMPTOM</p> <ul style="list-style-type: none"> ▪ Select the following by using the center display or the commander switch. ▪ Settings ▪ Devices ▪ Bluetooth 	<p>Yes Go to the next step.</p>
		<p>No Register/select the customer's Bluetooth®-enabled device. (See Bluetooth® PAIRING PROCEDURE.)</p>

	<ul style="list-style-type: none"> Verify if the customer’s Bluetooth®-enabled device is registered/selected. Is the customer’s Bluetooth®-enabled device registered/selected to the CMU? 		<ul style="list-style-type: none"> Verify the malfunction symptom again, and if the malfunction is not eliminated, go to the next step.
2	<p>VERIFY IF MALFUNCTION CAUSE IS Bluetooth®-ENABLED DEVICE SPECIFICATION</p> <ul style="list-style-type: none"> Verify if the customer’s Bluetooth®-enabled device is compatible according to the “Available Bluetooth®-enabled Devices”. <p>(See Available Bluetooth®-Enabled Devices.)</p> <ul style="list-style-type: none"> Is the customer’s Bluetooth device compatible? 	Yes	Go to the next step.
		No	Explain to the customer that the malfunction cause is an incompatible Bluetooth®-enabled device.
3	<p>VERIFY IF MALFUNCTION CAUSE IS Bluetooth®-ENABLED DEVICE SETTING</p> <ul style="list-style-type: none"> After obtaining the customer’s consent, verify that the Bluetooth®-enabled device setting is turned on. Is the Bluetooth®-enabled device setting turned on? 	Yes	Go to the next step.
		No	Turn it on and perform the Bluetooth® pairing. (See Bluetooth® PAIRING PROCEDURE .)
4	<p>VERIFY IF MALFUNCTION CAUSE IS RADIO WAVE TRANSMISSION SETTING FOR Bluetooth®-ENABLED DEVICE</p> <ul style="list-style-type: none"> After obtaining the customer’s consent, verify that the radio wave transmission setting for the Bluetooth®-enabled device is turned on. 	Yes	Go to the next step.
		No	Turn it on and perform the Bluetooth® pairing. (See Bluetooth® PAIRING PROCEDURE .)
			<ul style="list-style-type: none"> Verify the malfunction symptom again, and if

	<ul style="list-style-type: none"> Is the radio wave transmission setting for the Bluetooth®-enabled device turned on? 		<p>the malfunction is not eliminated, go to the next step.</p>
5	<p>VERIFY IF MALFUNCTION CAUSE IS Bluetooth®-ENABLED DEVICE RESETTING</p> <ul style="list-style-type: none"> After obtaining the customer's consent, verify that the Bluetooth®-enabled device stores the customer's vehicle data. Does the Bluetooth®-enabled device store the customer's vehicle data? 	Yes	<p>After obtaining the customer's consent, delete the vehicle data on the Bluetooth®-enabled device and re-perform the Bluetooth® pairing.</p> <p>(See Bluetooth® PAIRING PROCEDURE.)</p> <ul style="list-style-type: none"> Verify the malfunction symptom again, and if the malfunction is not eliminated, go to the next step.
		No	<p>Perform the Bluetooth® pairing.</p> <p>(See Bluetooth® PAIRING PROCEDURE.)</p> <ul style="list-style-type: none"> Verify the malfunction symptom again, and if the malfunction is not eliminated, go to the next step.
6	<p>DETERMINE IF MALFUNCTION CAUSE IS Bluetooth®-ENABLED DEVICE</p> <ul style="list-style-type: none"> After obtaining the customer's consent, perform the Bluetooth® pairing using other Bluetooth®-enabled device. <p>(See Bluetooth® PAIRING PROCEDURE.)</p> <ul style="list-style-type: none"> Is the Bluetooth® pairing completed normally? 	Yes	<p>Explain to the customer that the malfunction cause is the Bluetooth®-enabled device.</p>
		No	<p>Go to the next step.</p>
7	<p>INSPECT CMU CONNECTOR</p>	Yes	<p>Replace the CMU, then go</p>

	<p>INSPECT CMU CONNECTOR</p> <ul style="list-style-type: none"> Switch the ignition off. Disconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> Disconnect the CMU connector. Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. Is the connector normal? 		<p>to the next step.</p> <p>(See CONNECTIVITY MASTER UNIT (CMU) REMOVAL/INSTALLATION.)</p>
		No	<p>Repair or replace the connector, then go to the next step.</p>
8	<p>VERIFY IF MALFUNCTION CAUSE IS CORRECTED</p> <ul style="list-style-type: none"> Reconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> Switch the ignition to ACC or ON (engine off or on). After obtaining the customer's consent, perform the Bluetooth® pairing using the malfunctioning Bluetooth®-enabled device. <p>(See Bluetooth® PAIRING PROCEDURE.)</p> <ul style="list-style-type: none"> Is the Bluetooth® pairing completed normally? 	Yes	<p>Troubleshooting completed. (Explain the contents of the servicing to the customer.)</p>
		No	<p>Verify the malfunction symptom in the symptom troubleshooting chart and perform the other applicable malfunction diagnosis.</p> <p>(See SYMPTOM TROUBLESHOOTING [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].)</p>

Available Bluetooth®-Enabled Devices

	Item	Content
Profile	A2DP 1.0/1.2 (Advanced audio)	A2DP is a profile for transmitting high quality audio data by means of a Bluetooth® device and wireless transmission technology.

	distribution profile)	
	AVRCP 1.0/1.3/1.4 (Audio/video remote control profile)	AVRCP is a profile which provides a standard interface which controls television and audio devices. The function differs depending on the version.
Maximum number of programmable devices		7
Number of programmed devices which can be used simultaneously		2*1

***1**

A Hands-free call can be placed using another Bluetooth®-enabled device during audio playback using the other Bluetooth®-enabled device.

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2016 – MX-5 – Body and Accessories

AUTOMATIC Bluetooth® CONNECTION NOT POSSIBLE [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

Description	AUTOMATIC Bluetooth® CONNECTION NOT POSSIBLE
	<p>Bluetooth® pairing setting is possible, however, automatic Bluetooth® connection is not possible</p> <p>NOTE:</p> <ul style="list-style-type: none"> ▪ The Bluetooth® pairing procedure differs depending on the version of the Bluetooth®-enabled device. Ask the customer in advance

	<p>what the Bluetooth®-enabled device’s version was when the Bluetooth® pairing was performed.</p> <ul style="list-style-type: none"> ▪ A maximum of seven Bluetooth®-enabled devices can be programmed to one vehicle. ▪ If the Bluetooth®-enabled device has an access limitation, the automatic Bluetooth® connection cannot be performed. Ask the customer in advance if the Bluetooth®-enabled device has an access limitation.
Possible Causes	<ul style="list-style-type: none"> ▪ Customer’s Bluetooth®-enabled device malfunction ▪ Bluetooth® setting is off ▪ Radio wave transmission setting including Bluetooth® radio wave is off ▪ Bluetooth®-enabled device information has been changed (such as OS update), therefore, Bluetooth®-enabled device information programmed to vehicle is incompatible ▪ Bluetooth®-enabled device internal malfunction ▪ Connector poor contact or terminal damage ▪ Connectivity master unit (CMU) malfunction

Diagnostic Procedure

Step	Inspection	Action
1	<p>VERIFY MALFUNCTION SYMPTOM</p> <ul style="list-style-type: none"> ▪ Select the following by operating the center display or the commander switch. ▪ Settings ▪ Devices ▪ Bluetooth 	Yes Go to the next step.
		<p>No</p> <p>Register/select the customer’s Bluetooth®-enabled device.</p> <p>(See Bluetooth® PAIRING PROCEDURE.)</p> <ul style="list-style-type: none"> ▪ Verify the malfunction symptom again, and if

	<ul style="list-style-type: none"> Verify if the customer's Bluetooth®-enabled device is registered/selected. Is the customer's Bluetooth®-enabled device registered/selected to the CMU? 		the malfunction is not eliminated, go to the next step.
2	VERIFY IF MALFUNCTION CAUSE IS Bluetooth®-ENABLED DEVICE SETTING <ul style="list-style-type: none"> After obtaining the customer's consent, verify that the Bluetooth®-enabled device setting is turned on. Is the Bluetooth®-enabled device setting turned on? 	Yes	Go to the next step.
		No	Turn it on and perform the Bluetooth® pairing. (See Bluetooth® PAIRING PROCEDURE.) <ul style="list-style-type: none"> Verify the malfunction symptom again, and if the malfunction is not eliminated, go to the next step.
3	VERIFY IF MALFUNCTION CAUSE IS RADIO WAVE TRANSMISSION SETTING FOR Bluetooth®-ENABLED DEVICE <ul style="list-style-type: none"> After obtaining the customer's consent, verify that the radio wave transmission setting for the Bluetooth®-enabled device is turned on. Is the radio wave transmission setting for the Bluetooth®-enabled device turned on? 	Yes	Go to the next step.
		No	Turn it on and perform the Bluetooth® pairing. (See Bluetooth® PAIRING PROCEDURE.) <ul style="list-style-type: none"> Verify the malfunction symptom again, and if the malfunction is not eliminated, go to the next step.
4	VERIFY IF MALFUNCTION CAUSE IS OS UPDATE FOR Bluetooth®-ENABLED DEVICE <ul style="list-style-type: none"> After obtaining the customer's consent, re-perform the Bluetooth® pairing. (See Bluetooth® PAIRING PROCEDURE.) 	Yes	Troubleshooting completed (explain the contents of the servicing to the customer).
		No	Go to the next step.

	<ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Bring the malfunctioning Bluetooth®-enabled device into the vehicle. ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Is the Bluetooth® connection automatically? 		
5	<p>DETERMINE IF MALFUNCTION CAUSE IS Bluetooth®-ENABLED DEVICE</p> <ul style="list-style-type: none"> ▪ Switch the ignition to ACC or ON (engine off or on). ▪ After obtaining the customer’s consent, perform the Bluetooth® pairing using other Bluetooth®-enabled device. <p>(See Bluetooth® PAIRING PROCEDURE.)</p> <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Bring the Bluetooth®-enabled device into the vehicle. ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Is the Bluetooth® connected automatically? 	Yes	Explain to the customer that the malfunction cause is the Bluetooth®-enabled device.
		No	Go to the next step.
6	<p>INSPECT CMU CONNECTOR</p> <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Disconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Disconnect the CMU connector. ▪ Inspect the connector engagement and connection 	Yes	<p>Replace the CMU, then go to the next step.</p> <p>(See CONNECTIVITY MASTER UNIT (CMU) REMOVAL/INSTALLATION.)</p>

	<p>condition and inspect the terminals for damage, deformation, corrosion, or disconnection.</p> <ul style="list-style-type: none"> ▪ Is the connector normal? 	No	<p>Repair or replace the connector, then go to the next step.</p>
7	<p>VERIFY IF MALFUNCTION CAUSE IS CORRECTED</p> <ul style="list-style-type: none"> ▪ Switch the ignition to ACC or ON (engine off or on). ▪ After obtaining the customer’s consent, perform the Bluetooth® pairing using the malfunctioning Bluetooth®-enabled device. (See Bluetooth® PAIRING PROCEDURE.) ▪ Switch the ignition off. ▪ Bring the Bluetooth®-enabled device into the vehicle. ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Is the Bluetooth® connected automatically? 	Yes	<p>Troubleshooting completed (explain the contents of the servicing to the customer).</p>
		No	<p>Verify the malfunction symptom in the symptom troubleshooting chart and perform the other applicable malfunction diagnosis. (See SYMPTOM TROUBLESHOOTING [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].)</p>

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REAL TIME TRAFFIC FUNCTION INFORMATION NOT DISPLAYED [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

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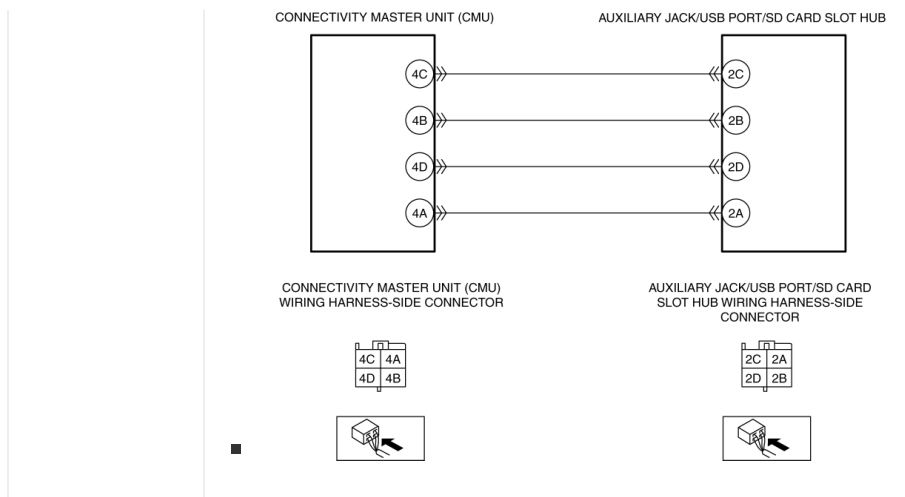
2016 – MX-5 – Body and Accessories

REAL TIME TRAFFIC FUNCTION INFORMATION NOT DISPLAYED [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

Description	<p>REAL TIME TRAFFIC FUNCTION INFORMATION NOT DISPLAYED</p> <p>Information such as gas prices, weather, and nearest restaurant is not output in navigation mode</p>
Possible Causes	<ul style="list-style-type: none"> ▪ SD card malfunction ▪ Malfunction due to effects of surrounding environment ▪ Mobile device such as Smartphone is placed where radio waves cannot be received ▪ Mobile device such as customer’s Smartphone malfunction ▪ Wi-Fi™ connection setting is off

- Mobile device internal malfunction such as Smartphone
- Connector poor contact or terminal damage
- Auxiliary jack/USB port/SD card slot hub malfunction
- Open circuit in wiring harness between the following terminals:
 - CMU terminal 4A and auxiliary jack/USB port/SD card slot hub terminal 2A
- Short to ground in wiring harness between the following terminals:
 - CMU terminal 4A and auxiliary jack/USB port/SD card slot hub terminal 2A
 - CMU terminal 4B and auxiliary jack/USB port/SD card slot hub terminal 2B
 - CMU terminal 4D and auxiliary jack/USB port/SD card slot hub terminal 2D
- Short to power supply in wiring harness between the following terminals:
 - CMU terminal 4A and auxiliary jack/USB port/SD card slot hub terminal 2A
 - CMU terminal 4B and auxiliary jack/USB port/SD card slot hub terminal 2B
 - CMU terminal 4D and auxiliary jack/USB port/SD card slot hub terminal 2D
- Auxiliary jack/USB port/SD card slot hub malfunction
- Connectivity master unit (CMU) malfunction

**System
Wiring
Diagram**



Diagnostic Procedure

Step	Inspection		Action
1	VISUALLY INSPECT SD CARD <ul style="list-style-type: none"> Visually inspect the SD card for looseness or damage. Is the SD card normal? 	Yes	Go to the next step.
		No	System is normal. (explain to the customer that there is a malfunction in SD card)
2	VERIFY IF MALFUNCTION CAUSE IS MOBILE DEVICE SETTING SUCH AS SMARTPHONE <ul style="list-style-type: none"> After obtaining the customer's consent, verify that the Wi-Fi™ connection setting for the mobile device such as a Smartphone is turned on. Is the Wi-Fi™ connection setting turned on? 	Yes	Go to the next step.
		No	Turn on the Wi-Fi™ connection setting for the mobile device, then go to Step 12.
3	VERIFY IF MALFUNCTION CAUSE IS CMU SETTING <ul style="list-style-type: none"> Verify that the CMU Wi-Fi™ connection setting is turned on. Is the CMU Wi-Fi™ connection setting turned on? 	Yes	Go to the next step.
		No	Turn on the CMU Wi-Fi™ connection setting, then go to Step 12.
4	VERIFY IF MALFUNCTION CAUSE IS	Yes	System is normal (explain

	<p>OBSTRUCTION SUCH AS BUILDING</p> <ul style="list-style-type: none"> ▪ Set the mobile device such as a Smartphone and the CMU Wi-Fi™ connection setting to on when the malfunction occurred. ▪ Select the navigation mode by operating the center display or the commander switch. ▪ Move the vehicle to an area where the mobile device such as a Smartphone can receive radio waves. ▪ Is information such as gas prices, weather, and the nearest restaurant displayed? 		<p>to the customer that Wi-Fi™ communication could not be received normally due to driving in an area with tunnels or obstructions).</p>
		<p>No</p>	<p>Go to the next step.</p>
<p>5</p>	<p>DETERMINE IF MALFUNCTION CAUSE IS MOBILE DEVICE SUCH AS SMARTPHONE</p> <ul style="list-style-type: none"> ▪ After obtaining the customer's consent, set the CMU Wi-Fi™ connection setting using a mobile device such as a Smartphone not used when the malfunction occurred. ▪ Select the navigation mode by operating the center display or the commander switch. ▪ Move the vehicle to an area where the mobile device such as a Smartphone can receive radio waves. ▪ Is information such as gas prices, weather, and the nearest restaurant displayed? 	<p>Yes</p>	<p>System is normal (explain to customer that the cause is mobile device malfunction such as Smartphone).</p>
		<p>No</p>	<p>Go to the next step.</p>
<p>6</p>	<p>INSPECT AUXILIARY JACK/USB PORT/SD CARD SLOT HUB CONNECTOR</p> <ul style="list-style-type: none"> ▪ Switch the ignition off. 	<p>Yes</p>	<p>Go to the next step.</p>

	<ul style="list-style-type: none"> ▪ Disconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Disconnect the auxiliary jack/USB port/SD card slot hub connector. ▪ Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. ▪ Is the connector normal? 	No	Repair or replace the connector, then go to Step 12.
7	<p>INSPECT CMU CONNECTOR</p> <ul style="list-style-type: none"> ▪ Disconnect the CMU connector. ▪ Inspect the connector engagement and connection condition and inspect the terminals for damage, deformation, corrosion, or disconnection. ▪ Is the connector normal? 	Yes	Go to the next step.
		No	Repair or replace the connector, then go to Step 12.
8	<p>VERIFY IF MALFUNCTION CAUSE IS OPEN CIRCUIT IN WIRING HARNESS BETWEEN CMU AND AUXILIARY JACK/USB PORT/SD CARD SLOT HUB</p> <ul style="list-style-type: none"> ▪ Verify that the auxiliary jack/USB port/SD card slot hub and the CMU connector are disconnected. ▪ Inspect the wiring harness for continuity between the following terminals (vehicle wiring harness side). ▪ CMU terminal 4A and auxiliary jack/USB port/SD card slot hub terminal 2A 	Yes	Go to the next step.
		No	<ul style="list-style-type: none"> ▪ Refer to the wiring diagram and verify if there is a common connector between the following terminals. ▪ CMU terminal 4A and auxiliary jack/USB port/SD card slot hub terminal 2A <p>If there is a common connector:</p> <ul style="list-style-type: none"> ▪ Inspect the common connector and terminals for corrosion,

	<ul style="list-style-type: none"> ▪ Is there continuity? 		<p>damage, or disconnection and the common wiring harnesses for an open circuit to determine the malfunctioning location.</p> <ul style="list-style-type: none"> ▪ Repair or replace the malfunctioning location. <p>If there is no common connector:</p> <ul style="list-style-type: none"> ▪ Repair or replace the wiring harness which has an open circuit. ▪ Go to Step 12.
<p>9</p>	<p>VERIFY IF MALFUNCTION CAUSE IS SHORT CIRCUIT TO GROUND IN WIRING HARNESS BETWEEN CMU AND AUXILIARY JACK/USB PORT/SD CARD SLOT HUB</p> <ul style="list-style-type: none"> ▪ Verify that the auxiliary jack/USB port/SD card slot hub and the CMU connector are disconnected. ▪ Inspect for continuity between the following wiring harness terminals (vehicle wiring harness side) and body ground. ▪ Auxiliary jack/USB port/SD card slot hub terminal 2A ▪ Auxiliary jack/USB port/SD card slot hub terminal 2B ▪ Auxiliary jack/USB port/SD card slot hub terminal 2D ▪ Is there continuity? 	<p>Yes</p>	<ul style="list-style-type: none"> ▪ Refer to the wiring diagram and verify if there is a common connector between the following terminals. ▪ CMU terminal 4A and auxiliary jack/USB port/SD card slot hub terminal 2A ▪ CMU terminal 4B and auxiliary jack/USB port/SD card slot hub terminal 2B ▪ CMU terminal 4D and auxiliary jack/USB port/SD card slot hub terminal 2D <p>If there is a common connector:</p> <ul style="list-style-type: none"> ▪ Inspect the common connector and terminals for corrosion, damage, or disconnection and the

			<p>common wiring harnesses for short to ground to determine the malfunctioning location.</p> <ul style="list-style-type: none"> ▪ Repair or replace the malfunctioning location. <p>If there is no common connector:</p> <ul style="list-style-type: none"> ▪ Repair or replace the wiring harness which is shorted to ground. ▪ Go to Step 12.
		No	Go to the next step.
10	<p>VERIFY IF MALFUNCTION CAUSE IS SHORT CIRCUIT TO POWER SUPPLY IN WIRING HARNESS BETWEEN CMU AND AUXILIARY JACK/USB PORT/SD CARD SLOT HUB</p> <ul style="list-style-type: none"> ▪ Verify that the auxiliary jack/USB port/SD card slot hub and the CMU connector are disconnected. ▪ Reconnect the negative battery cable. <p>(See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Measure the voltage at the following terminals (vehicle wiring harness side). ▪ Auxiliary jack/USB port/SD card slot hub terminal 2A ▪ Auxiliary jack/USB port/SD card slot hub terminal 2B 	Yes	<ul style="list-style-type: none"> ▪ Refer to the wiring diagram and verify if there is a common connector between the following terminals. ▪ CMU terminal 4A and auxiliary jack/USB port/SD card slot hub terminal 2A ▪ CMU terminal 4B and auxiliary jack/USB port/SD card slot hub terminal 2B ▪ CMU terminal 4D and auxiliary jack/USB port/SD card slot hub terminal 2D <p>If there is a common connector:</p> <ul style="list-style-type: none"> ▪ Inspect the common connector and terminals for corrosion, damage, or disconnection and the

	<ul style="list-style-type: none"> ▪ Auxiliary jack/USB port/SD card slot hub terminal 2D ▪ Is the voltage B+? 		<p>common wiring harnesses for short to power supply to determine the malfunctioning location.</p> <ul style="list-style-type: none"> ▪ Repair or replace the malfunctioning location. <p>If there is no common connector:</p> <ul style="list-style-type: none"> ▪ Repair or replace the wiring harness which is shorted to the power supply. ▪ Go to Step 12.
		No	Go to the next step.
11	<p>DETERMINE IF MALFUNCTION CAUSE IS AUXILIARY JACK/USB PORT/SD CARD SLOT HUB</p> <ul style="list-style-type: none"> ▪ Switch the ignition off. ▪ Disconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.) ▪ Replace the auxiliary jack/USB port/SD card slot hub. (See AUXILIARY JACK/USB PORT/SD CARD SLOT HUB REMOVAL/INSTALLATION.) ▪ Connect all the connectors. ▪ Reconnect the negative battery cable. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.) ▪ Switch the ignition to ACC or ON (engine off or on). 	Yes	Troubleshooting completed (explain the contents of the servicing to the customer).
		No	<p>Replace the CMU, then go to the next step.</p> <p>(See CONNECTIVITY MASTER UNIT (CMU) REMOVAL/INSTALLATION.)</p>

	<ul style="list-style-type: none"> ▪ Set the mobile device such as a Smartphone and the CMU Wi-Fi™ connection setting to on when the malfunction occurred. ▪ Select the navigation mode by operating the center display or the commander switch. ▪ Move the vehicle to an area where the mobile device such as a Smartphone can receive radio waves. ▪ Is information such as gas price, weather, nearest restaurant displayed? 		
<p>12</p>	<p>VERIFY IF MALFUNCTION CAUSE IS CORRECTED</p> <ul style="list-style-type: none"> ▪ Switch the ignition to ACC or ON (engine off or on). ▪ Set the mobile device such as a Smartphone and the CMU Wi-Fi™ connection setting to on when the malfunction occurred. ▪ Select the navigation mode by operating the center display or the commander switch. ▪ Move the vehicle to an area where the mobile device such as a Smartphone can receive radio waves. ▪ Is information such as gas price, weather, nearest restaurant displayed? 	<p>Yes</p>	<p>Troubleshooting completed (explain the contents of the servicing to the customer).</p>
		<p>No</p>	<p>Verify the malfunction symptom in the symptom troubleshooting chart and perform the other applicable malfunction diagnosis.</p> <p>(See SYMPTOM TROUBLESHOOTING [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]].)</p>

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MAP IS NOT DISPLAYED [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

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2016 – MX-5 – Body and Accessories

MAP IS NOT DISPLAYED [ENTERTAINMENT SYSTEM [WITH CENTER DISPLAY]]

Description	MAP IS NOT DISPLAYED
	Navigation map is not displayed
Possible Causes	<ul style="list-style-type: none"> ▪ SD card malfunction ▪ Auxiliary jack/USB port/SD card slot hub malfunction ▪ Connectivity master unit (CMU) malfunction

Diagnostic Procedure

Step	Inspection	Action
1	VERIFY DTCs <ul style="list-style-type: none"> ▪ Is a DTC displayed? 	Yes Perform the applicable DTC troubleshooting.
		No Go to the next step.
2	VERIFY SD CARD IDENTIFICATION CONDITION	Yes Go to the next step.

	<ul style="list-style-type: none"> ▪ Switch the ignition OFF (LOCK). ▪ Remove the SD card. ▪ Unlock the tab on the SD card. (Navigation cannot be launched with the tab locked) ▪ Lock the doors and leave the vehicle for 5 min or more. (to stop the system completely) ▪ Unlock the doors (door closed) and start the engine. ▪ Wait until FM or compass screen is displayed in the center display. (to wait for the CMU to launch) ▪ Insert the SD card. ▪ Is [SD CARD INSERTED] displayed in the center display? 	No	<ul style="list-style-type: none"> ▪ Only [SD CARD INSERTED] is displayed: ▪ Go to the next step. ▪ [INVALID SD CARD] is displayed subsequently: ▪ Replace the SD card, then go to Step 6.
3	<p>VERIFY NAVIGATION OPERATION</p> <ul style="list-style-type: none"> ▪ Start the engine. ▪ Operate the NAVI button. ▪ Is the map displayed in the center display? 	Yes	System is normal.
		No	Replace the auxiliary jack/USB port/SD card slot hub, then go to Step 6. (See AUXILIARY JACK/USB PORT REMOVAL/INSTALLATION.)
4	<p>VERIFY SD CARD TAB</p> <ul style="list-style-type: none"> ▪ Switch the ignition OFF (LOCK). ▪ Remove the SD card. ▪ Is the SD card tab unlocked? 	Yes	Go to the next step.
		No	Repeat the diagnosis from Step 2.
5	<p>RESTART CMU SYSTEM AND VERIFY IF MALFUNCTION RECURS</p> <ul style="list-style-type: none"> ▪ Disconnect the negative battery cable and wait for 1 min or more. (See NEGATIVE BATTERY CABLE DISCONNECTION/CONNECTION.) ▪ Connect the negative battery cable. (See NEGATIVE BATTERY 	Yes	<ul style="list-style-type: none"> ▪ Only [SD CARD INSERTED] is displayed: ▪ Repeat the diagnosis from Step 3. ▪ [INVALID SD CARD] is displayed subsequently: ▪ Replace the SD card, then go to the next step.

	<p>CABLE DISCONNECTION/CONNECTION.)</p> <ul style="list-style-type: none"> ▪ Switch the ignition OFF (LOCK). ▪ Lock the doors and leave the vehicle for 5 min or more. ▪ Unlock the doors and start the engine. ▪ Wait until FM or compass screen is displayed in the center display. ▪ Insert the SD card. ▪ Is [SD CARD INSERTED] displayed in the center display? 	No	<p>Replace the auxiliary jack/USB port/SD card slot hub, then go to the next step. (See AUXILIARY JACK/USB PORT REMOVAL/INSTALLATION.)</p>
6	<p>VERIFY NAVIGATION OPERATION</p> <ul style="list-style-type: none"> ▪ Operate the NAVI button. ▪ Is the map displayed in the center display? 	Yes	System is normal.
		No	<p>Repeat the diagnosis from Step 1.</p> <ul style="list-style-type: none"> ▪ If the malfunction recurs, replace the CMU. (See CONNECTIVITY MASTER UNIT (CMU) REMOVAL/INSTALLATION.)

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