HANDS-FREE TELEPHONE SYSTEM DOES NOT RECEIVE/TRANSMIT CALLS, DOES NOT CONNECT [Bluetooth SYSTEM (HANDS-FREE TELEPHONE (HF/TEL) SYSTEM)]

id0903h5017500

	Hands-free telephone system does not receive/transmit calls, does not connect				
Possible DTC	Using the M-MDS	B116A:12, B116A:13, B116A:44			
rossible DTC	Without using M-MDS (On-	26:Er81, 26:Er82, 26:Er86			
	board diagnostic test mode)	20.2101, 20.2102, 20.2100			
Possible cause	Problem in cellular phone A cellular phone is outside Cellular phone does not cellular phone on the collular phone rellular phone rellular phone rellular phone malfunction Malfunction in steering switch Poor connection in the collular phone phone rellular phone rellular phone phone phone rellular phone phone phone rellular phone phone phone phone rellular phone pho	te ated parts onnector e wiring harness between the microphone and Bluetooth unit related parts onnector e wiring harness between the Hang-up/Pick-up/Talk switch and itch malfunction onnector retween the audio unit and Bluetooth unit e wiring harness between the Bluetooth unit and the speaker through unit seems between the Bluetooth unit and the speaker through unit sose. It is a wiring harness between the Bluetooth unit and the speaker through unit sose. It is a wiring harness between the Bluetooth unit and the audio unit (without the wiring harness between the Bluetooth unit and the audio amplifier e wiring harness of the Bluetooth unit power supply or ground circuit.			

Diagnostic procedure

When performing an asterisked (*) troubleshooting inspection, slightly shake the wiring harness and connectors
while performing the inspection to discover whether poor contact points are the cause of any intermittent
malfunction. If there is a problem, verify that the connectors, terminals and wiring harness are connected correctly
and undamaged.

STEP	INSPECTION		ACTION
1	Verify if the customer's cellular phone is a	Yes	Go to the next step.
	Hands-free telephone system-enabled model	No	Explain to the customer that the customer's cellular phone is
	by referring to		not a Hands-free telephone system-enabled model.
http://www.mazdausa.com/MusaWeb/			·
	displayPage.action?		
	pageParameter=bluetoothHandsFreeSystem.		
	Is the customer's cellular phone a Hands-free		
	telephone system-enabled model?		
2	Verify that the cellular phone is communicating	Yes	Enter a cellular phone signal transmission area and reinspect
	with the Bluetooth unit.		the Bluetooth system operation.
	Does the cellular phone connect to the	No	Go to the next step.
	Bluetooth unit via Bluetooth when the Hands-		·
	free telephone system is activated?		

STEP	INSPECTION		ACTION
3	Inspect the cellular phone condition while the	Yes	Enter a cellular phone signal transmission area and reinspect
	hands free phone does not operate.		the Bluetooth system operation.
	 Can the following conditions be verified? 	No	Go to the next step.
	Low battery voltage		'
	Power is off		
	 Out of signal transmission area 		
4	Does the cellular phone set up to the Bluetooth	Yes	Go to the next step.
	unit?	No	Set up the cellular phone to the Bluetooth unit.
5	 Is the audio system sound output normal? 	Yes	Go to the next step.
		No	Perform the audio system troubleshooting procedure.
6	Perform the Bluetooth system (hands-free	Yes	Go to the next step.
	telephone (HF/TEL) system) DTC inspection.	No	Go to Step 8.
	Are the following DTC displayed?		
	— B116A:12/26:Er81		
	— B116A:13/26:Er82		
	— B116A:44/26:Er86		
7*	Inspect for open or short circuits in the following		Replace the microphone.
	wiring harnesses and connectors, and inspect		(See MICROPHONE REMOVAL/INSTALLATION.)
	the connector connections.	No	Repair or replace malfunctioning parts.
	Between microphone terminal A and audio		
	unit terminal 2L		
	Between microphone terminal B and audio		
	unit terminal 2N		
	Between microphone terminal C and audio unit terminal 2R		
	Between microphone terminal D and audio		
	unit terminal 2P		
	Between microphone terminal E and audio		
	unit terminal 2T		
	Are the harnesses and connector connections		
	normal?		
8	Perform the Bluetooth system (hands-free	Yes	Inspect and repair the audio system CAN communication.
	telephone (HF/TEL) system) DTC inspection.	No	Go to the next step.
	Is 26:Er81 displayed?		
9	Inspect the Hang-up/Pick-up/Talk switch.	Yes	Go to the next step.
	(See STEERING SWITCH REMOVAL/	No	Replace the steering switch.
	INSTALLATION.)		(See STEERING SWITCH REMOVAL/INSTALLATION.)
4.04	• Is the Hang-up/Pick-up/Talk switch normal?		
10*	Inspect for open or short circuits in the following wiring harmoness and connectors, and inspect		
	wiring harnesses and connectors, and inspect the connector connections.	No	Repair or replace malfunctioning parts.
	Between clock spring terminal B and audio		
	unit terminal 1H		
	Between clock spring terminal E and audio		
	unit terminal 1P		
	Are the harnesses and connector connections		
	normal?		
11	Call the hands-free cell phone using another	Yes	Go to the next step.
	cellular phone.	No	The cellular phone Bluetooth system is malfunctioning.
	Do the same symptoms appear?		
12	Is there any metallic device around the	Yes	Remove the metallic device around the Bluetooth unit, then
	Bluetooth unit?		go to the next step.
		No	Go to the next step.
13	Verify the malfunction symptom.	Yes	Troubleshooting completed.
	Is the malfunction improved?	No	Go to the next step.
14	Replace the Bluetooth unit and verify the	Yes	Troubleshooting completed.
	malfunction symptom.	No	Replace the audio unit.
	(See Bluetooth UNIT REMOVAL/		(See AUDIO UNIT REMOVAL/INSTALLATION.)
	INSTALLATION.)		
	Is the malfunction improved?		