

ON-BOARD DIAGNOSTIC [Bluetooth SYSTEM]

id0920001101z6

Outline

- To facilitate malfunction diagnosis in the audio system, the Bluetooth system (Hands-Free telephone (HF/TEL)) is equipped with an on-board diagnostic function and diagnostic assist function.

Function

- The on-board diagnostic function has a malfunction detection function which detects overall malfunctions in the audio system-related parts, and a display function which indicates a system malfunction via DTC display.
- There are two methods for DTC output and clearing; one using the Mazda Modular Diagnostic System (M-MDS) and one which does not use it. Because the DTCs differ depending on whether the M-MDS is used or not, use both methods.
- The diagnostic assist function displays Bluetooth unit connection conditions and specifications in the audio unit display, and verifies the Bluetooth system connection conditions and specifications.

On-board diagnostic function

Malfunction detection function

- The malfunction detection function detects malfunctions occurring in the Bluetooth system (hands-free telephone (HF/TEL) system).

Display Function

Mazda Modular Diagnostic System (M-MDS) not used

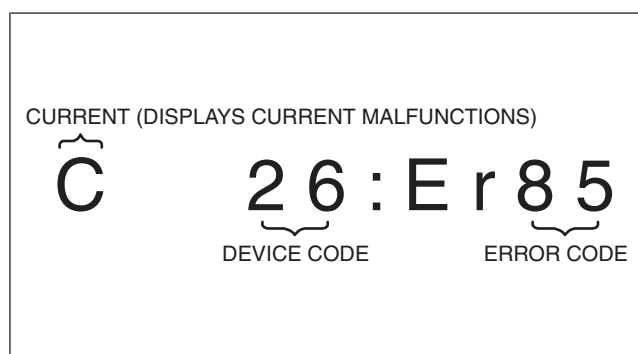
- Activates the on-board diagnostic function by operating the audio unit and displays DTCs in the audio unit display. Refer to the Workshop Manual for the activation procedure of the on-board diagnostic function.
- The DTC consists of the following codes and numbers:
 - Supplier code (supplier name)
 - Device code (malfunction location)
 - Error code (malfunction contents)

With using Mazda Modular Diagnostic System (M-MDS)

- When a DTC inspection is performed using the Mazda Modular Diagnostic System (M-MDS), the malfunction diagnostics for the audio system and Bluetooth system (hands-free telephone (HF/TEL) system) is initiated. Refer the Workshop Manual for the DTC inspection procedure.

× : Applicable

— : Not applicable



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DTC table

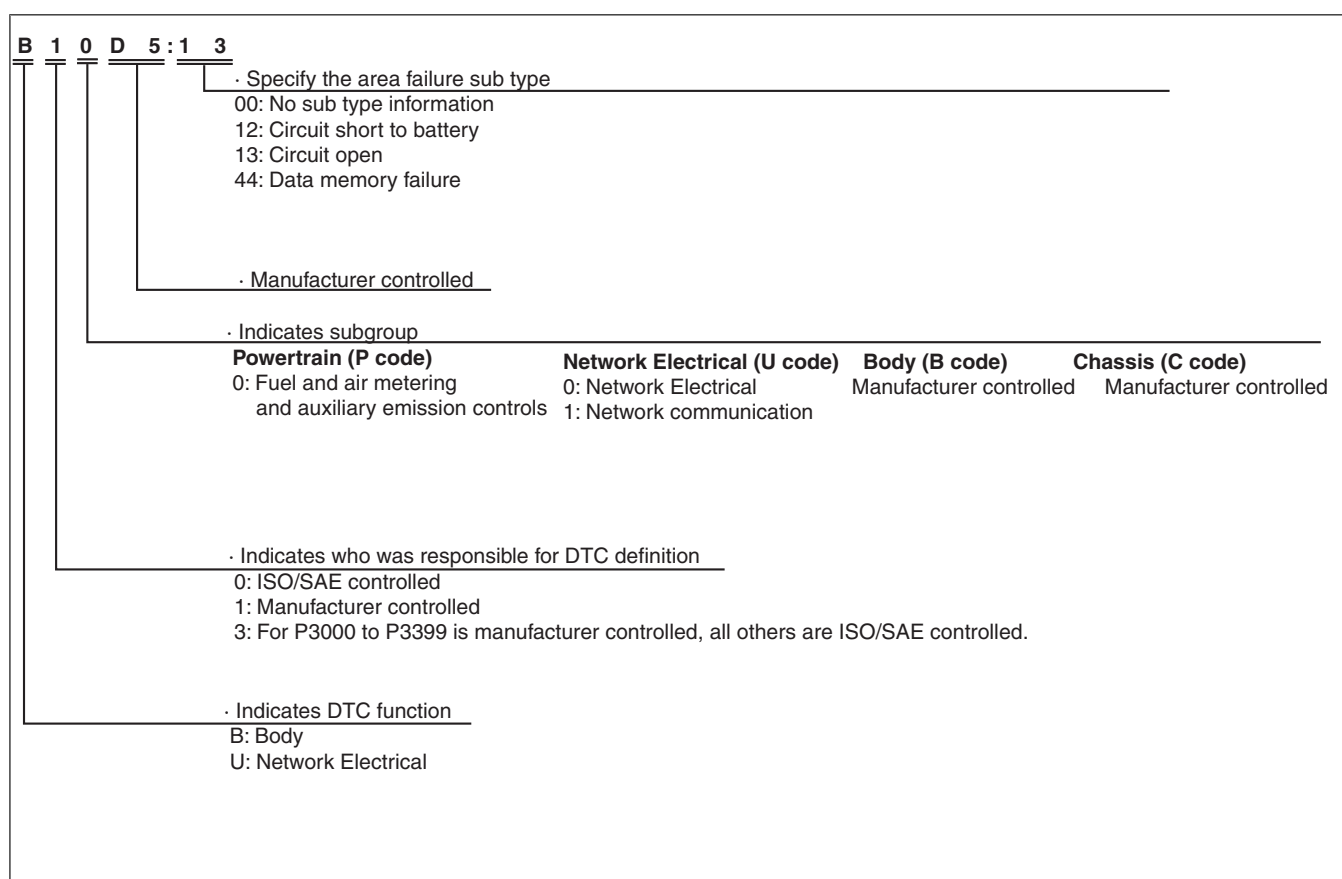
DTC No.		Security indicator light	Description	Fail-safe	Drive cycle	Self-test type ^{*1}	Memory function
Mazda Modular Diagnostic System (M-MDS) display	Information display (On-board diagnostic test mode)						
B116A:12	26:Er82	—	Microphone circuit malfunction	—	—	D	—
B116A:13	— ^{*2}	—	Microphone circuit malfunction	—	—	D	—
B116A:44	26:Er86	—	Bluetooth unit internal malfunction	—	—	D	—
—	26:Er81	—	CAN system communication error	—	—	—	—
U0197:00	— ^{*2}	—	CAN system communication error	—	—	D	—
—	—	—	DTC is not recorded.	—	—	—	—

^{*1} : D: ODDTC self test

^{*2} : It is not displayed in the audio display because the on-board diagnostic test mode is not available.

DTC 7-digit code definition

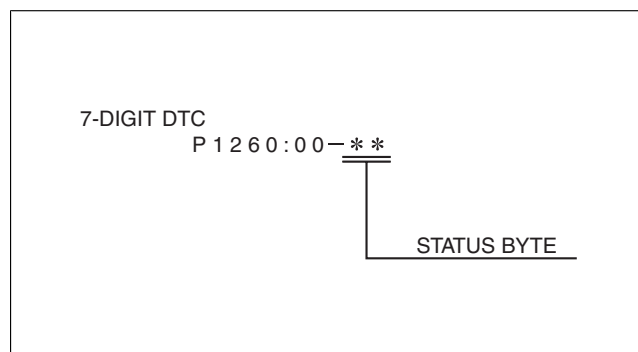
- When related systems or components have failed, the CM stores the DTC of the malfunctioning part in the CM memory, and allows for the retrieval of the store data using scanning tool when necessary. The DTCs are indicated using seven digits. Each digit indicates the following.



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Status byte for DTC

- The status byte is the two digits (two digits after hyphen (-)) after the 7-digit DTC.
- The status byte is a code which indicates the pending code, current/past malfunction status, or warning illumination status.
- The status byte can be read by performing a CMDTC self-test using the Mazda Modular Diagnostic System (M-MDS).
- For details on the status byte, refer to the explanation on the Mazda Modular Diagnostic System (M-MDS) when reading the DTC.



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Diagnostic Assist Function

- Displays the Bluetooth system connection conditions and specifications in the audio unit display, and verifies the Bluetooth system connection conditions and specifications. Refer to the workshop manual for the diagnostic assist function activation procedure.

HF unit connection information

- Displays the connection conditions in the audio unit display and verifies the Bluetooth unit connection conditions.

HF unit software version

- Displays the Bluetooth unit software version in the audio unit, and verifies the Bluetooth unit specifications.