

2012 - Mazda6 - Body and Accessories

INFORMATION DISPLAY INPUT/ OUTPUT CHECK MODE

NOTE:

- In this mode, it is possible to verify the items in the following chart.

Check Code Table

Check code	Check item	Related items
01	Information display	CAN system DTC U0010:88: CAN system communication error
02	- Audio unit - Climate control unit - Instrument cluster	CAN system - DTC U0184:00: Communication error to audio unit - DTC U0164:00: Communication error to climate control unit - DTC U0155:00: Communication error to instrument cluster
04	Light switch	- Light switch - BCM
06	Ignition switch*1/Push button start*2	Ignition switch*1/Push button start*2
08	INFO switch	INFO switch
—	LCD	LCD

*1

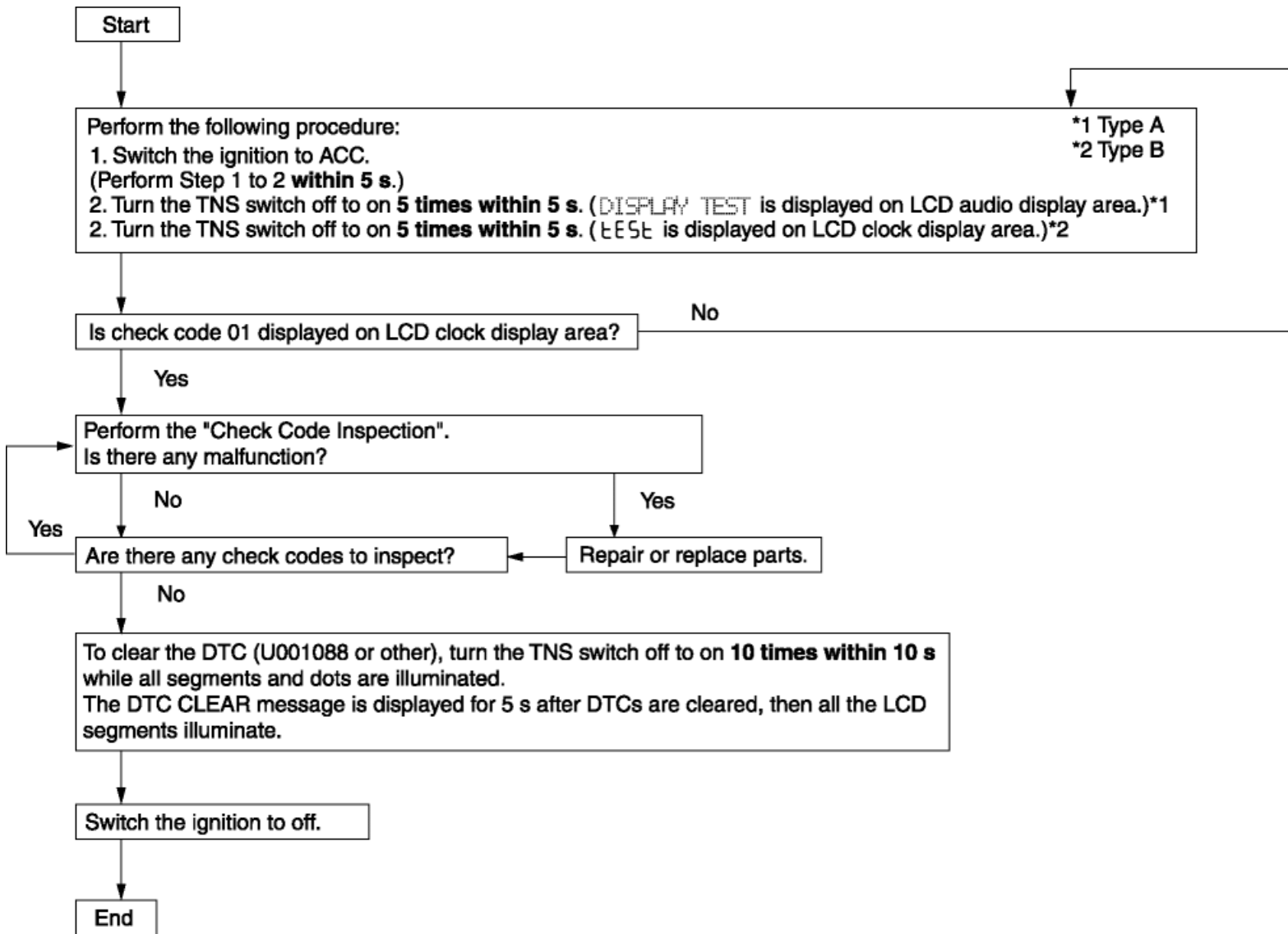
Without advanced keyless entry and push button start system

*2

With advanced keyless entry and push button start system

NOTE:

- The check codes are displayed in numerical order. (While performing the inspection, if you want to inspect a check code with a number smaller than the code number you are currently inspecting, terminate the check mode then repeat the inspection from the beginning.)



Check Code Inspection

Check code 01

Check code 01	CAN system		
INSPECTION CONDITION	DISPLAY		ACTION
	TYPE A	TYPE B	
Select the check code 01.	OK	0 1:00	CAN system of information display is normal.
	U001088	0 1:Er	CAN system communication error. (DTC U0010:88) (See FOREWORD [MULTIPLEX COMMUNICATION SYSTEM] .)

Check code 02

Check code 02

- Communication status to audio unit
- Communication status to climate control unit
- Communication status to instrument cluster

INSPECTION CONDITION

DISPLAY

ACTION

Unit

TYPE A

TYPE B

Select the check code 02.

(The diagnostic results will be displayed once each in the order of audio unit and heater control unit and instrument cluster.)

—

02 | OK

02:00

All communications are normal.

OK ACU

02:10

Communication to audio unit is normal.

U018400ACU

02:1E

Communication error to audio unit.
(DTC U0184:00)
(See [FOREWORD \[MULTIPLEX COMMUNICATION SYSTEM\]](#).)

None ACU

02:1-

Vehicle without audio unit.

OK EATC

02:20

Communication to climate control unit is normal.

U016400EATC

02:2E

Communication error to climate control unit. (DTC U0164:00) (See [FOREWORD \[MULTIPLEX COMMUNICATION SYSTEM\]](#).)

None EATC

02:2-

Vehicle without climate control unit.

OK HEC

02:30

Communication to instrument cluster is normal.

U015500HEC

02:3E

Communication error to instrument cluster. (DTC U0155:00) (See [FOREWORD \[MULTIPLEX COMMUNICATION SYSTEM\]](#).)

Check code 04

Check code 04		TNS ON/OFF signal		
STEP	INSPECTION CONDITION	DISPLAY		ACTION
		TYPE A	TYPE B	
1	Turn the light switch to the TNS position.	ON 04:on		Go to the next step.
		OFF 04:of		Verify that the voltage of information display terminal C is B+ . • If the voltage is as specified, replace the information display. • If the voltage is not as specified, inspect the following parts: ▪ Light switch ▪ Wiring harness (Light switch—information display)
2	Turn the light switch off.	ON 04:on		Verify that the voltage of the information display terminal C is 1.0 V or less . • If the voltage is as specified, replace the information display. • If the voltage is not as specified, inspect the following parts: ▪ Light switch ▪ Wiring harness (Light switch—information display)
		OFF 04:of		Input signal to the information display is normal.

Check code 06

Check code 06		Ignition switch ON/OFF signal		
STEP	INSPECTION CONDITION	DISPLAY		ACTION
		TYPE A	TYPE B	
1	Switch the ignition to ON.	ON 06:on		Go to the next step.

			Verify that the voltage of information display terminal E is B+ . • If the voltage is as specified, replace the information display. • If the voltage is not as specified, inspect the following parts: ▪ Ignition switch*¹ ▪ Push button start*² ▪ Wiring harness (Battery—ignition switch*¹—information display) ▪ Wiring harness (Battery—push button start*²—information display)
2	Switch the ignition to off.		Verify that the voltage of the information display terminal E is 1.0 V or less. • If the voltage is as specified, replace the information display. • If the voltage is not as specified, inspect the following parts: ▪ Ignition switch*¹ ▪ Push button start*² ▪ Wiring harness (Battery—ignition switch*¹—information display) ▪ Wiring harness (Battery—push button start*²—information display)
			Input signal to the information display is normal.

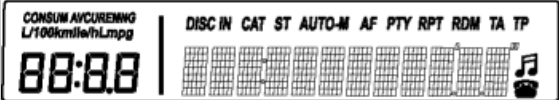
- *1
Without advanced keyless entry and push button start system
- *2
With advanced keyless entry and push button start system

Check code 08

Check code 08		INFO switch ON/OFF signal	
STEP	INSPECTION CONDITION	DISPLAY	
		TYPE A	TYPE B
1	INFO switch is pressed	ON 08:on	Go to the next step.
		OFF 08:of	Verify that the voltage of information display terminal F is B+ . • If the voltage is as specified, replace the information display. • If the voltage is not as specified, inspect the following parts:

				INFO switch Wiring harness (INFO switch—information display)
2	INFO switch is not operated		Verify that the voltage of the information display terminal F is 1.0 V or less . - If the voltage is as specified, replace the information display. - If the voltage is not as specified, inspect the following parts: - INFO switch - Wiring harness (INFO switch—information display)	
			Input signal to the information display is normal.	

LCD

Check code —	LCD	
DISPLAY	ACTION	
TYPE A 	All segments and dots illuminated.	LCD is normal.
 TYPE B  	Except above	Replace the information display.

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02	• Audio unit • Climate control unit • Instrument cluster	CAN system • DTC U0184:00: Communication error to audio unit • DTC U0164:00: Communication error to climate control unit • DTC U0155:00: Communication error to instrument cluster
04	Light switch	• Light switch • BCM
06	Ignition switch*1/Push button start*2	Ignition switch*1/Push button start*2
08	INFO switch	INFO switch
—	LCD	LCD

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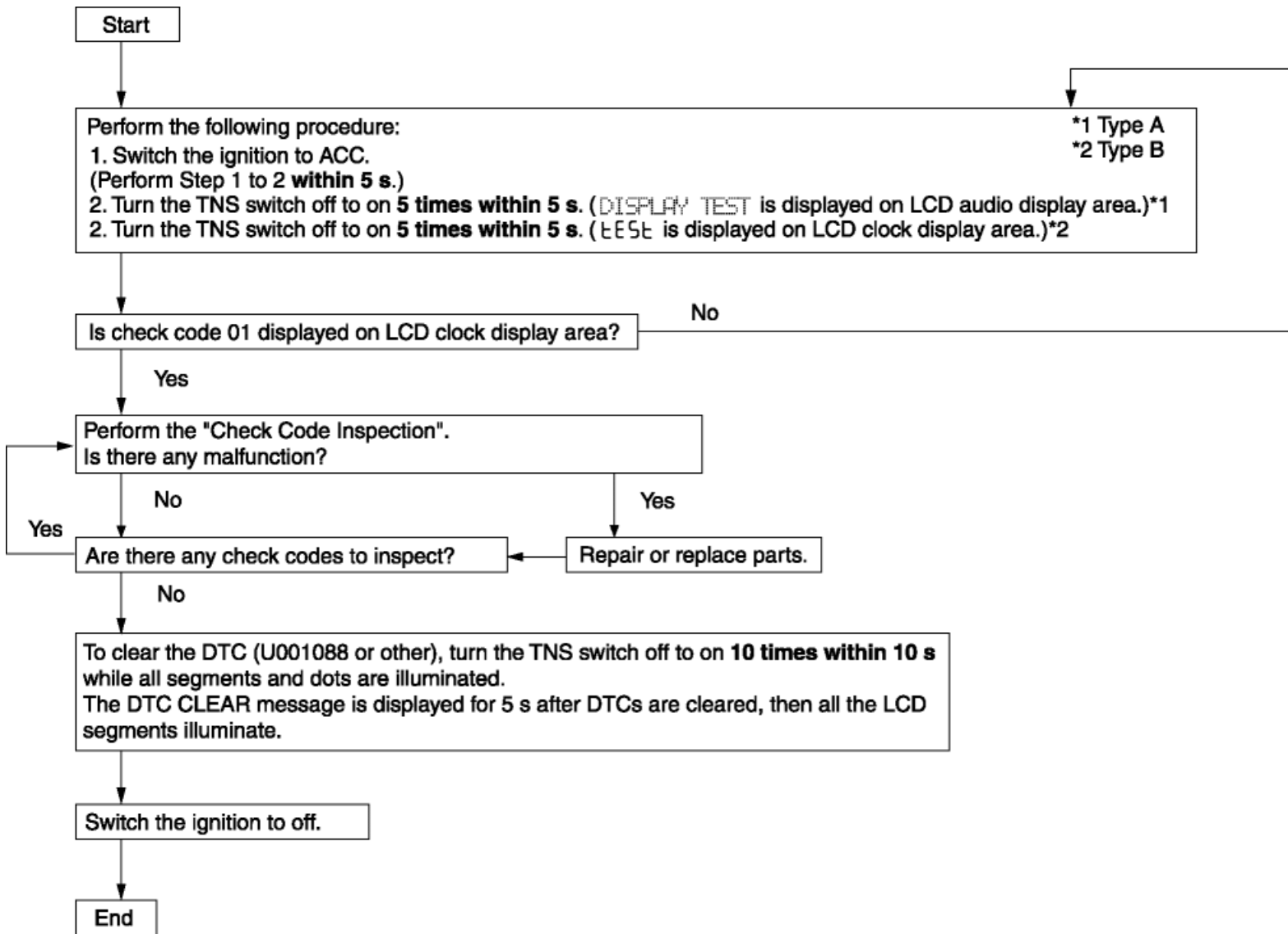
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With advanced keyless entry and push button start system

NOTE:

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Check Code Inspection

Check code 01

Check code 01	CAN system		
INSPECTION CONDITION	DISPLAY		ACTION
	TYPE A	TYPE B	
Select the check code 01.	OK	0 1:00	CAN system of information display is normal.
	U001088	0 1:Er	CAN system communication error. (DTC U0010:88) (See FOREWORD [MULTIPLEX COMMUNICATION SYSTEM].)

Check code 02

Check code 02

- Communication status to audio unit
- Communication status to climate control unit
- Communication status to instrument cluster

INSPECTION CONDITION

DISPLAY

ACTION

Unit

TYPE A

TYPE B

Select the check code 02.

(The diagnostic results will be displayed once each in the order of audio unit and heater control unit and instrument cluster.)

—

02 | OK

02:00

All communications are normal.

OK ACU

02:10

Communication to audio unit is normal.

Audio unit

U018400ACU

02:1E

Communication error to audio unit.
(DTC U0184:00)
(See [FOREWORD \[MULTIPLEX COMMUNICATION SYSTEM\]](#).)

None ACU

02:1-

Vehicle without audio unit.

Climate control unit

OK EATC

02:20

Communication to climate control unit is normal.

U016400EATC

02:2E

Communication error to climate control unit. (DTC U0164:00) (See [FOREWORD \[MULTIPLEX COMMUNICATION SYSTEM\]](#).)

None EATC

02:2-

Vehicle without climate control unit.

Instrument cluster

OK HEC

02:30

Communication to instrument cluster is normal.

U015500HEC

02:3E

Communication error to instrument cluster. (DTC U0155:00) (See [FOREWORD \[MULTIPLEX COMMUNICATION SYSTEM\]](#).)

Check code 04

Check code 04		TNS ON/OFF signal		
STEP	INSPECTION CONDITION	DISPLAY		ACTION
		TYPE A	TYPE B	
1	Turn the light switch to the TNS position.	ON 04:on		Go to the next step.
		OFF 04:of		Verify that the voltage of information display terminal C is B+ . • If the voltage is as specified, replace the information display. • If the voltage is not as specified, inspect the following parts: ▪ Light switch ▪ Wiring harness (Light switch—information display)
2	Turn the light switch off.	ON 04:on		Verify that the voltage of the information display terminal C is 1.0 V or less . • If the voltage is as specified, replace the information display. • If the voltage is not as specified, inspect the following parts: ▪ Light switch ▪ Wiring harness (Light switch—information display)
		OFF 04:of		Input signal to the information display is normal.

Check code 06

Check code 06		Ignition switch ON/OFF signal		
STEP	INSPECTION CONDITION	DISPLAY		ACTION
		TYPE A	TYPE B	
1	Switch the ignition to ON.	ON 06:on		Go to the next step.

			Verify that the voltage of information display terminal E is B+ . • If the voltage is as specified, replace the information display. • If the voltage is not as specified, inspect the following parts: ▪ Ignition switch*¹ ▪ Push button start*² ▪ Wiring harness (Battery—ignition switch*¹—information display) ▪ Wiring harness (Battery—push button start*²—information display)
2	Switch the ignition to off.		Verify that the voltage of the information display terminal E is 1.0 V or less. • If the voltage is as specified, replace the information display. • If the voltage is not as specified, inspect the following parts: ▪ Ignition switch*¹ ▪ Push button start*² ▪ Wiring harness (Battery—ignition switch*¹—information display) ▪ Wiring harness (Battery—push button start*²—information display)
			Input signal to the information display is normal.

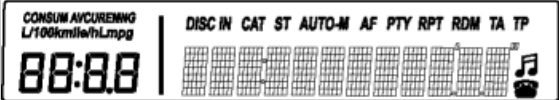
- *1
Without advanced keyless entry and push button start system
- *2
With advanced keyless entry and push button start system

Check code 08

Check code 08		INFO switch ON/OFF signal	
STEP	INSPECTION CONDITION	DISPLAY	
		TYPE A	TYPE B
1	INFO switch is pressed	ON 08:on	Go to the next step.
		OFF 08:of	Verify that the voltage of information display terminal F is B+ . • If the voltage is as specified, replace the information display. • If the voltage is not as specified, inspect the following parts:

				INFO switch Wiring harness (INFO switch—information display)
2	INFO switch is not operated		Verify that the voltage of the information display terminal F is 1.0 V or less . - If the voltage is as specified, replace the information display. - If the voltage is not as specified, inspect the following parts: - INFO switch - Wiring harness (INFO switch—information display)	
			Input signal to the information display is normal.	

LCD

Check code —	LCD	
DISPLAY	ACTION	
TYPE A 	All segments and dots illuminated.	LCD is normal.
 TYPE B  	Except above	Replace the information display.