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Model Year Start: 2024	Model: Tacoma	Prod Date Range: [12/2023 -]
Title: AUDIO / VIDEO: AUDIO AND VISUAL SYSTEM: DIAGNOSIS SYSTEM; 2024 MY Tacoma Tacoma HV [12/2023 -]		

DIAGNOSIS SYSTEM

CHECK FOR DTCs (USING SYSTEM CHECK MODE SCREEN)

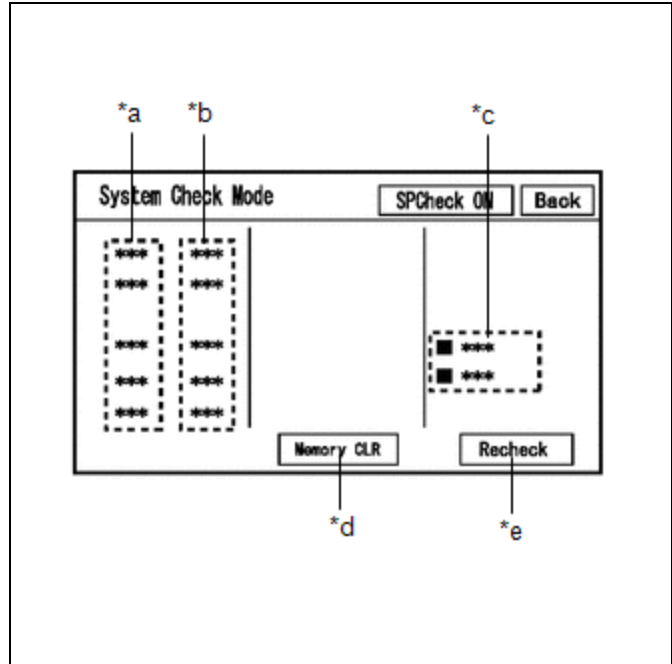
- HINT:
- When system self-diagnosis DTCs cannot be output due to a malfunction that is preventing diagnosis mode from being started or the multi-display from displaying, read the DTCs using the GTS.
 - Depending on the multi-display settings, the background will remain started even when the ignition switch is turned off. For that reason, check the multi-display setting before performing an inspection.

[Click here](#) INFO

- (a) Start diagnosis and display the "Service Menu" screen.
- (b) Select "Failure Diagnosis" on the service menu screen to display the failure diagnosis screen.
- (c) Select "System Check" of the failure diagnosis screen to display the system check mode screen.

System Check Mode Screen Description

DISPLAY	CONTENT
*a: Device Name List	Displays the components names, including additional devices (the physical address is displayed if the name is unknown)
*b: Check Result	Displays the inspection result of connected devices
*c: Optional Device Name List	Displays the components names, including aftermarket devices
*d: Memory Clear	Clear current DTCs and confirmed DTCs (press and hold for 3 seconds or more)
*e: Recheck	Performs a check again



- (1) Confirm that each of the following connected devices are displayed:

NAME	COMPONENT	CONNECTION METHOD
AVN	Radio and display receiver assembly	-
PANEL	Switch and volume assembly*1	AVC-LAN
DSP-AMP	Stereo component amplifier assembly*2	AVC-LAN
Qi	Mobile wireless charger cradle assembly*3	Local CAN
IF-BOX_USB	No. 1 stereo jack adapter assembly	USB
DCM	DCM (telematics transceiver)*4	USB

*1: for 14 Inch Display

*2: w/ "JBL" Sound System

*3: w/ Wireless Charging System

*4: w/ Telematics System

HINT:

- When diagnosis starts, the system check mode screen is displayed and the check is performed.
- System check mode displays the inspection results screen based on the response for each device during "system inspection instruction", "system inspection result demand", etc., and "Normal Diagnosis Notice", notifications.
- The displayed screen is an example only. The actual device name displayed on the screen may differ depending on the connected device (dealer installed options, etc.).

(2) CHECK SYSTEM CHECK RESULTS (AVC-LAN/USB/LOCAL BUS CONNECTED DEVICES)

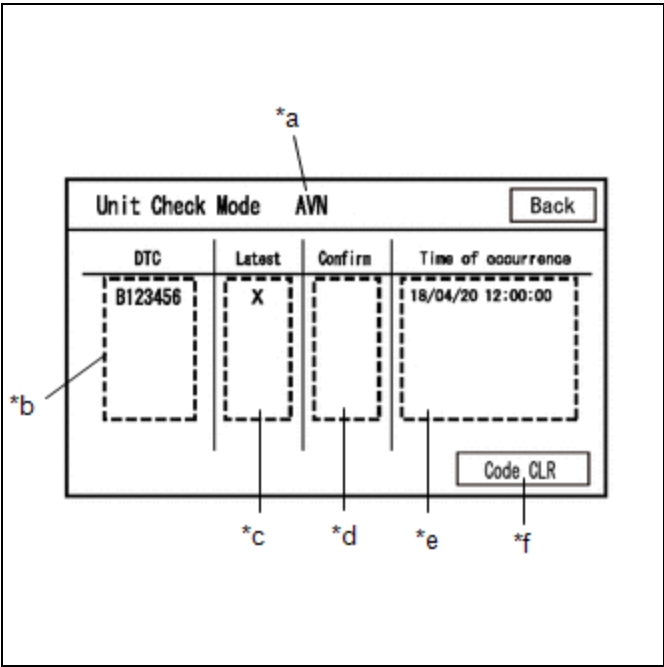
CHECK RESULT	MEANING
OK	No DTCs are stored
DETAIL (*1)	DTCs are stored
NCON (*2)	- A device that was previously registered to the system is not responding during registration - Cannot confirm a connection of a device that was previously registered to the system
NRES	No response of diagnosis information
Device name and/or system check result cannot be displayed for AVC-LAN*2/USB/LOCAL BUS CONNECTED DEVICES	No history of a device being registered to the system, and no response during the diagnosis check

*1: When the "DETAIL" button is pressed, the system transitions to the unit check mode screen.

*2: If "NCON" is displayed for all AVC-LAN connected devices or all AVC-LAN connected devices are not displayed, refer to the troubleshooting procedure for AVC-LAN malfunction.

Click here [INFO](#)

(d) Unit Check Mode



- (1) When "DETAIL" is displayed on the system check mode inspection results, the system transitions to the unit check mode screen when pressed.
- (2) Confirm and record the DTCs

Unit Check Mode Screen Description

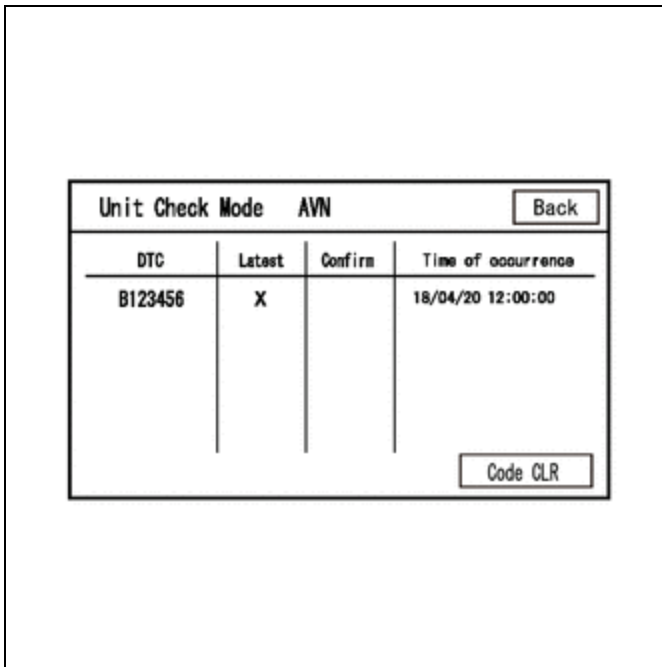
DISPLAY	CONTENT
*a: Device name	Target device name
*b: History DTC	Displays stored DTCs (up to 6 items) for the target device
*c: Latest	An "X" is displayed for the target device when latest DTCs (latest malfunction in current trip) exist
*d: Confirm	An "X" is displayed for the target device when confirmed DTCs (diagnostic trouble codes that have been confirmed up until the current time) exist
*e: Time of occurrence	Displays the time that the DTC was stored
*f: Code CLR	Clears DTC information of the target device and clears the display

NOTICE:
A maximum of 6 codes are stored for the radio and display receiver assembly. When it is suspected that more than 6 codes are output, confirm the DTCs using the GTS.

HINT:
Unit check mode screen is updated once per second.

CLEAR DTC (USING SYSTEM CHECK MODE SCREEN)

- (a) Clear the DTCs



- (1) Select "Code CLR" on the unit check mode screen (press and hold for 3 seconds or more) and clear the DTCs.

ENTER DIAGNOSTIC MODE

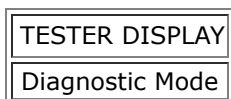
HINT:

- When system self-diagnosis DTCs cannot be output due to a malfunction that is preventing diagnosis mode from being started or the multi-display from displaying, read the DTCs using the GTS.
- Enter diagnostic mode by performing one of the following methods.

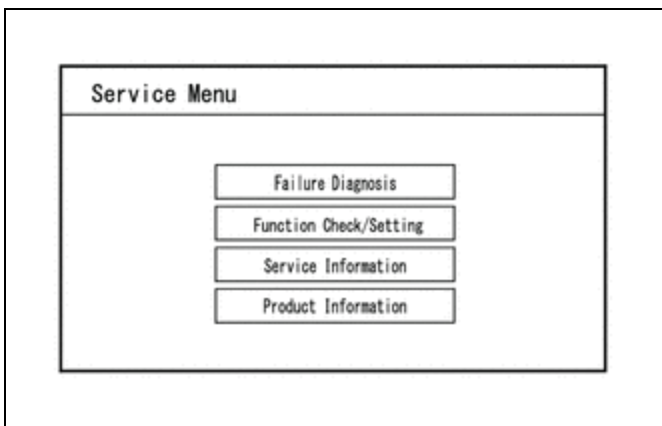
(a) Start method 1

- (1) Using the GTS, display the diagnostic mode window.

Body Electrical > Navigation System > Utility



- (2) When diagnosis starts, the "Service Menu" screen is displayed.



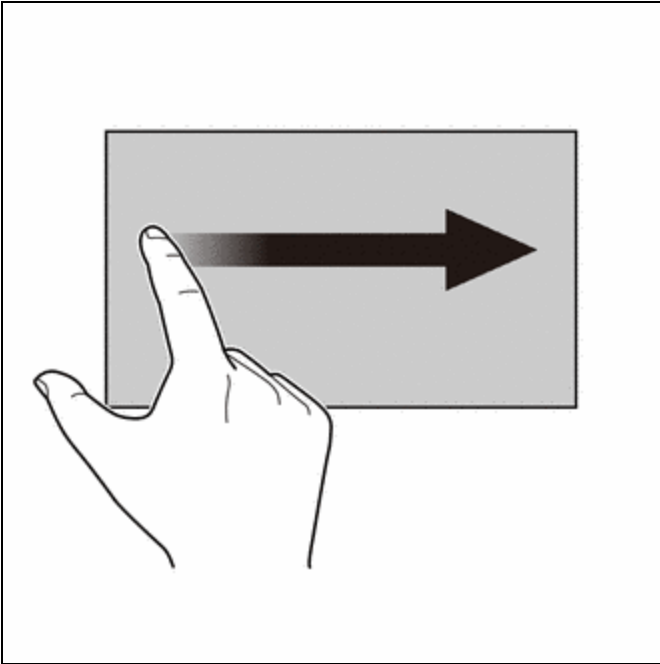
(b) Start method 2

- Ensure that the vehicle is stopped.
- Turn the ignition switch to ON.
- Turn off the audio of the radio and display receiver assembly.
- Turn off the screen from the settings screen.

(5) Perform the "Flick from left to right" operation five times on the multi-display shown in the figure.

HINT:

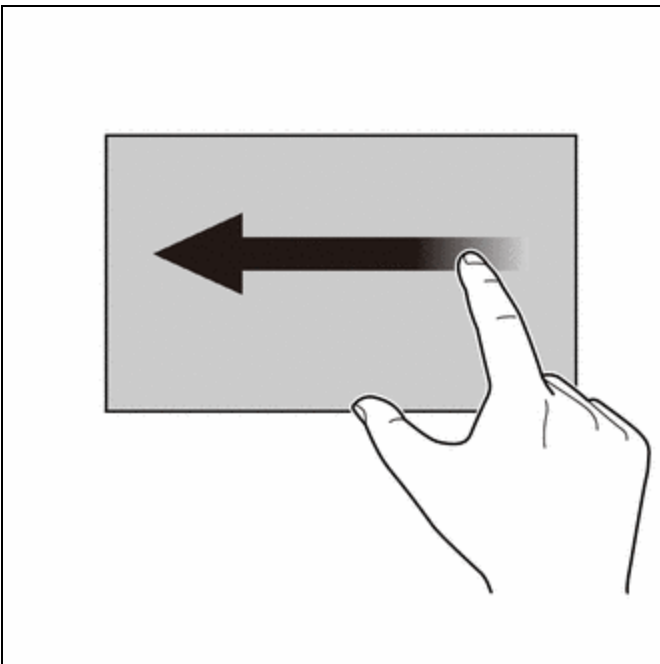
Performing flick operations may cause messages, etc. to appear on the screen, but disregard these and continue performing the flick operations.



(6) Flick the multi-display 5 times from right to left as shown in the illustration.

HINT:

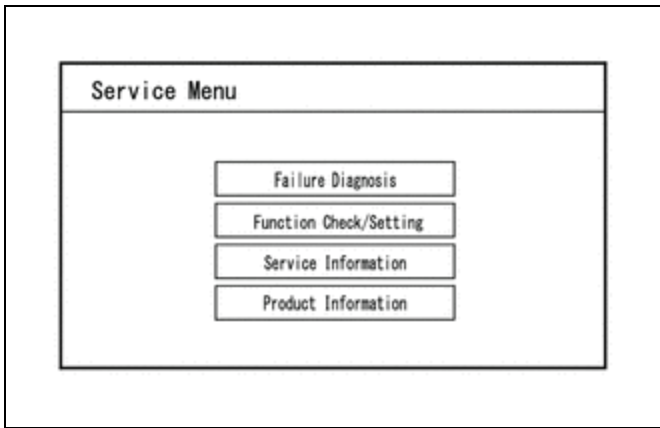
Make sure to complete the operation within 15 seconds of performing the initial flick from left to right.



(7) When diagnosis starts, the service menu screen is displayed.

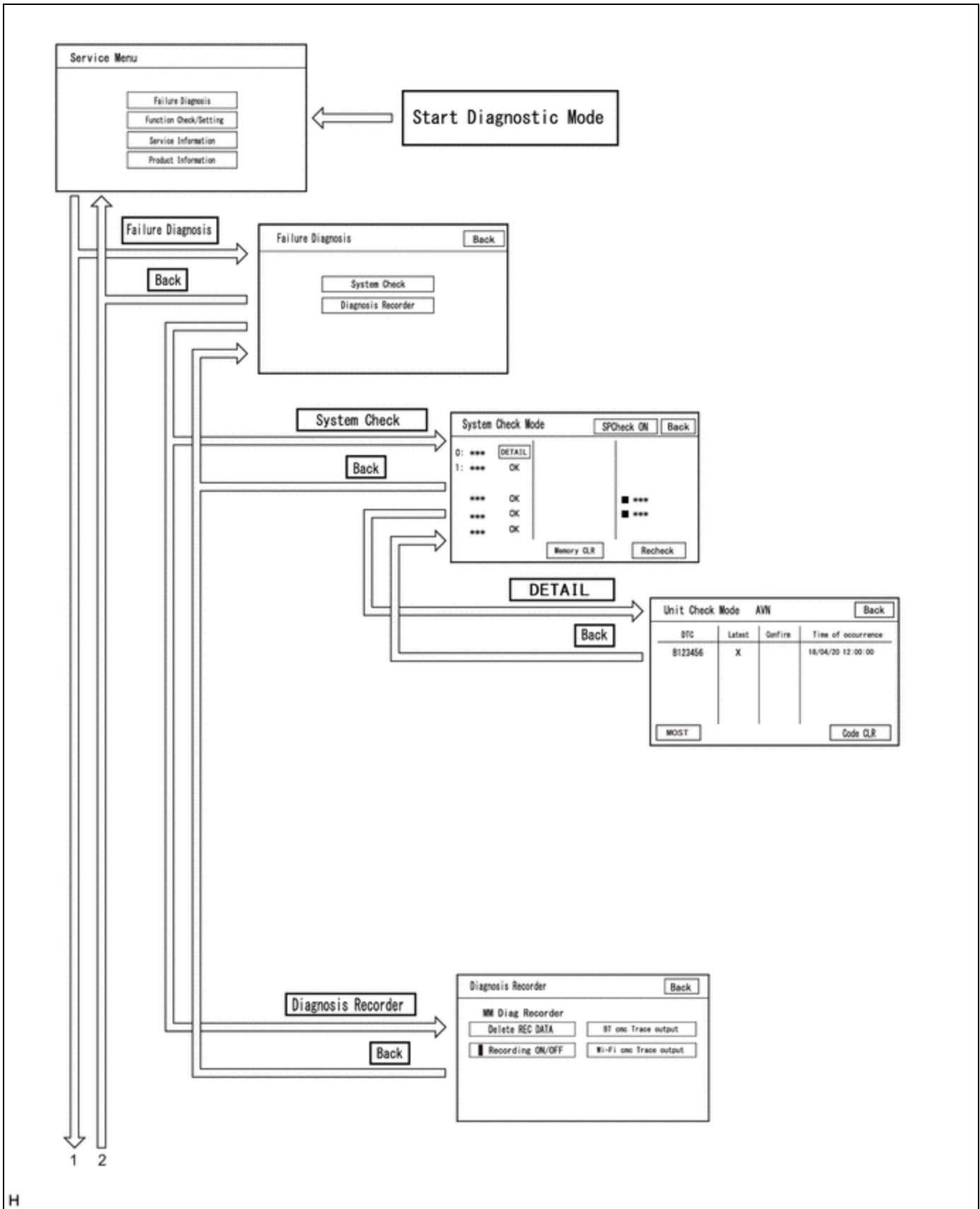
HINT:

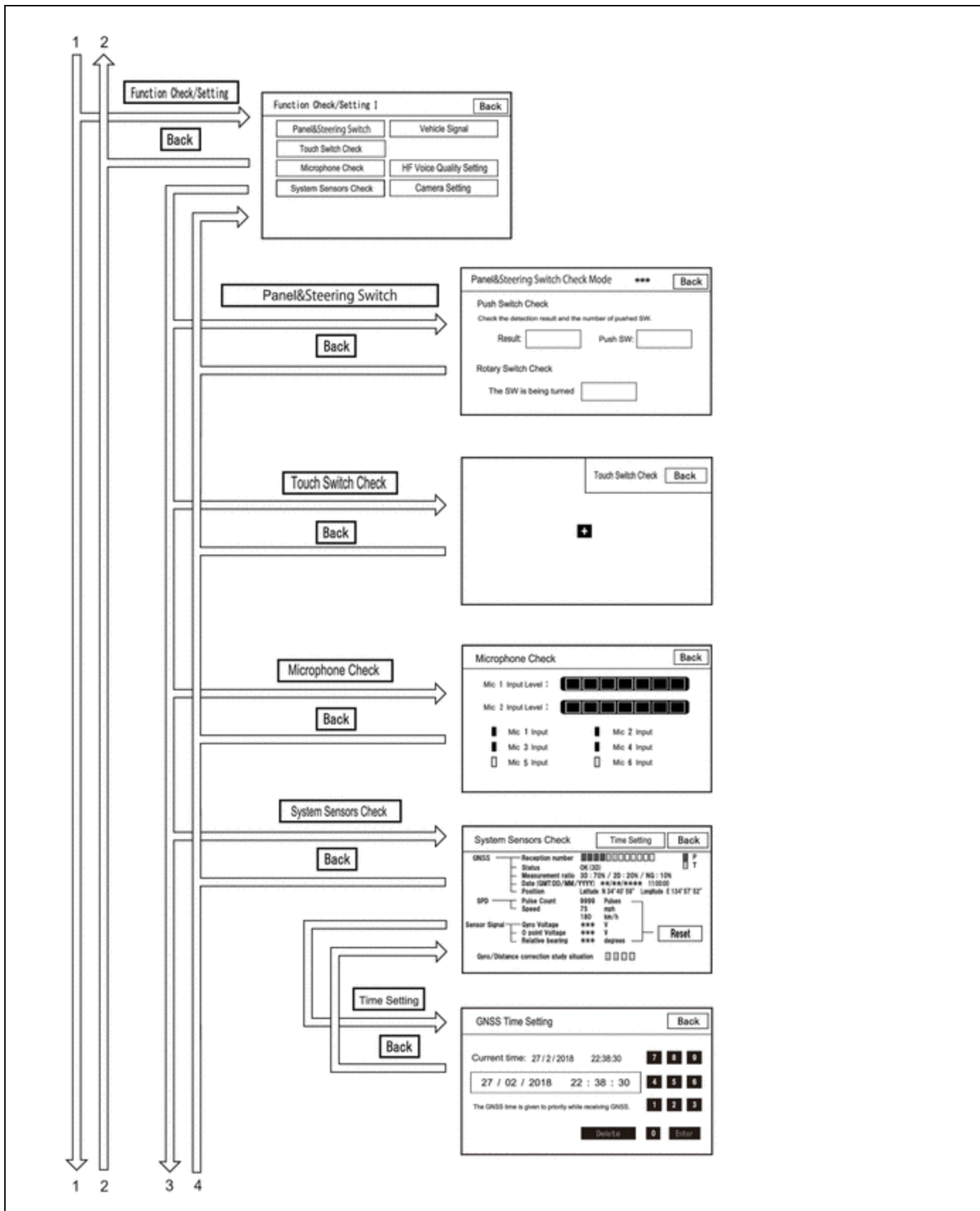
If diagnosis does not start due to a failed operation, turn the display on then off and perform the procedure from the start. (Only turning the audio of the radio and display receiver assembly from off to on is not a valid method)

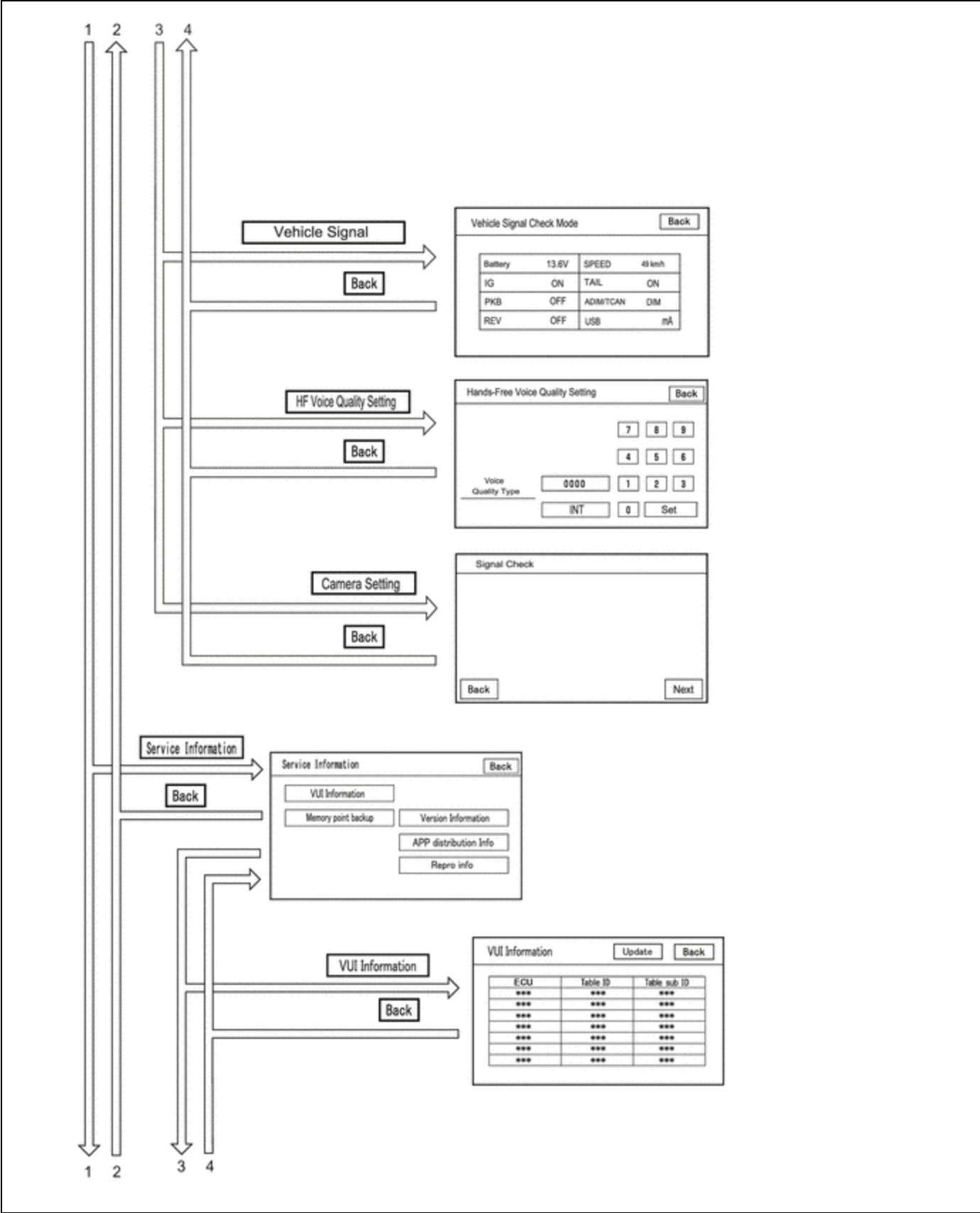


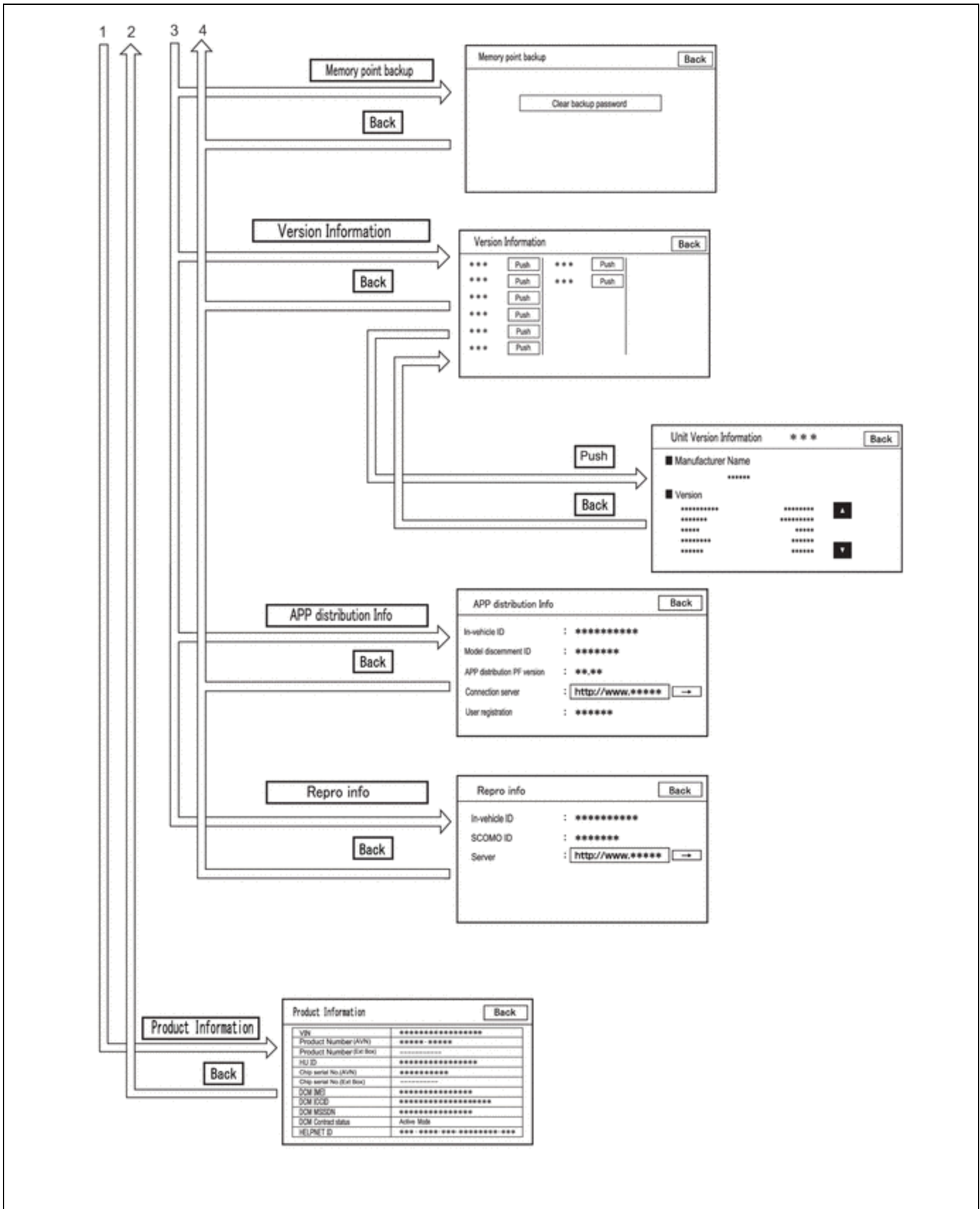
DIAGNOSTIC MODE SCREEN TRANSITION

(a) Service Menu









CANCEL DIAGNOSTIC MODE

HINT:

There are 2 methods to cancel diagnosis

(a) Cancellation method 1

(1) Press and hold the VOL switch for 3 seconds or more to restart the system.

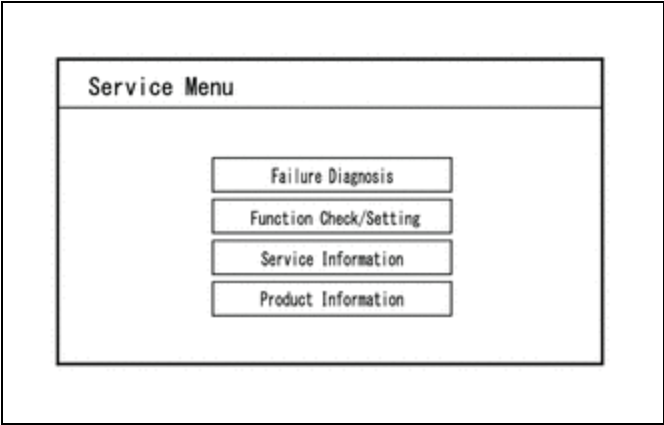
(b) Cancellation method 2

(1) Turn the ignition switch off.

SERVICE MENU

HINT:

The service menu screen can be used to perform malfunction diagnosis for each device, confirm functions and information, and collect data.



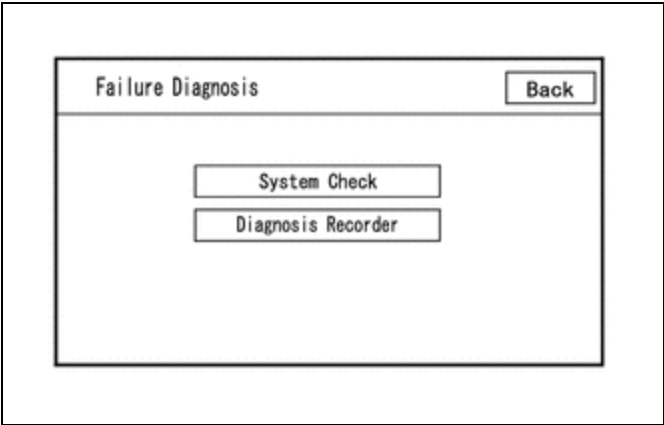
(a) Failure Diagnosis

Failure Diagnosis Screen Display Contents

DISPLAY	DETAILS	LINK
System Check	Display the names of devices connected to the system, and display current and confirmed DTCs as diagnosis results for those devices.	INFO
Diagnosis Recorder	"Bluetooth" connection history and Wi-Fi connection history can be confirmed	-

HINT:

Each failure diagnosis screen is created by the radio and display receiver assembly.



(1) Diagnosis Recorder

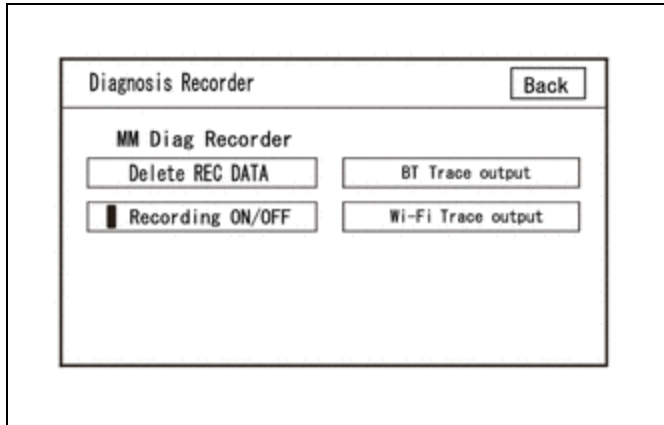
Diagnosis Recorder Screen Description

DISPLAY	DETAILS	LINK
Delete REC DATA	Recorded history data can be cleared	-
Recording ON/OFF	When performing a "Bluetooth" trace or Wi-Fi trace, the recorder function can be set to off	-

DISPLAY	DETAILS	LINK
BT Trace output	"Bluetooth" connection history can be confirmed	INFO INFO
Wi-Fi Trace output	"Wi-Fi" connection history can be confirmed	

HINT:

Each diagnosis recorder screen is created by the radio and display receiver assembly.



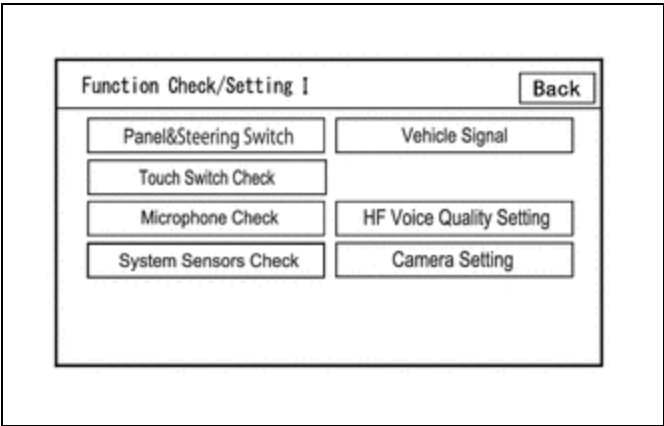
(b) Function Check/Setting I

Function Check/Setting I Screen Description

DISPLAY	CONTENT	LINK
Panel&Steering Switch	Checks the operation of the panel switch and steering switch	INFO INFO
Touch Switch Check	Checks the operation of the touch switch of the multi-display	
Microphone Check	Checks the connection status of the microphone to the radio and display receiver assembly	
System Sensors Check	- Displays GNSS related information - Sets GNSS date and time settings - Displays information regarding each sensor in the radio and display receiver assembly	
Vehicle Signal	Performs an inspection of vehicle side signal received by the radio and display receiver assembly	
HF Voice Quality Setting	HF Voice Quality Setting	INFO INFO
Camera Setting (w/ Parking Assist Monitor System)	Performs adjustment of parking assist monitor system	
Camera Setting (w/ Panoramic View Monitor System or Multi-terrain Monitor System)	Performs adjustment of panoramic view monitor system	
		w/ Panoramic View Monitor System: INFO INFO w/ Multi-terrain Monitor System: INFO INFO

HINT:

Each function check/setting I screen is created by the radio and display receiver assembly.



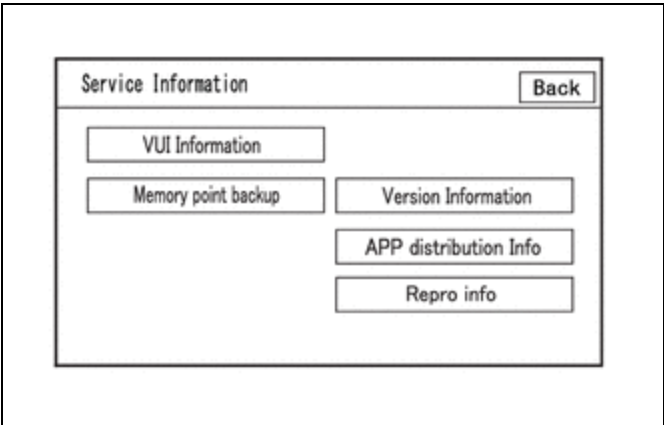
(c) Service Information

HINT:
The service information screen can be used to confirm information and read the memory.

Service Information Screen Description

DISPLAY	CONTENT	LINK
VUI Information	Displays information regarding voice recognition	INFO INFO
Memory point backup	Performs memory read using the GTS	-
Version Information	Displays connected device version information	-
APP distribution Info	Displays in-vehicle device ID, device identification ID, distribution application PF version, registered user information, etc.	-
Repro info	Displays in-vehicle device ID, SCOMO ID, etc.	-

HINT:
Each service information screen is created by the radio and display receiver assembly.

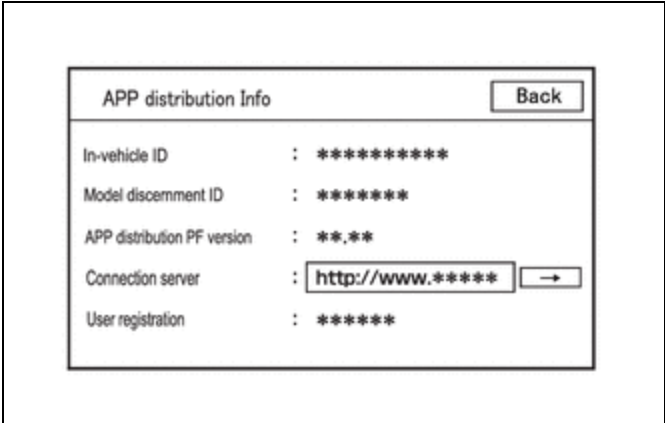


(1) APP distribution Info

APP distribution Info Screen Description

ITEM	CONTENT
In-vehicle ID	Displays in-vehicle device ID
Model discernment ID	Displays model discernment ID
APP distribution PF version	Displays platform version that the application uses

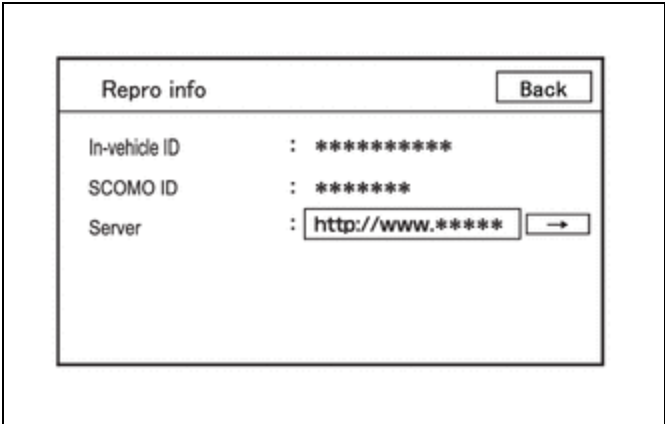
ITEM	CONTENT
Connection Server	This item is displayed but is not used
User registration	User registration information is displayed



(2) Repro info

Repro Info Screen Display Information

DISPLAY	DETAILS
In-vehicle ID	Displays in-vehicle device ID of radio and display receiver assembly
SCOMO ID	This item is displayed but is not used
Server	This item is displayed but is not used



(d) Product Information

Product Information Screen Description

DISPLAY	CONTENT
VIN	Displays VIN
Product Number (AVN)	Displays serial number of the radio and display receiver assembly
Product Number (Ext Box)	This item is displayed but is not used
HU ID	Displays serial number of the radio and display receiver assembly
Chip serial No. (AVN)	Displays IC serial number of the radio and display receiver assembly
Chip serial No. (Ext Box)	This item is displayed but is not used
DCM IMEI	Displays DCM (telematics transceiver) IMEI
DCM ICCID	Displays DCM (telematics transceiver) ICCID

DISPLAY	CONTENT
DCM MSISDN	Displays DCM (telematics transceiver) MSISDN
DCM Contract status	Displays DCM (telematics transceiver) contract status
HELNET ID	Displays DCM (telematics transceiver) HELNET ID

Product Information

Back

VIN	*****
Product Number (AVN)	*****
Product Number (Ext Box)	*****
HIU ID	*****
Chip serial No.(AVN)	*****
Chip serial No.(Ext Box)	*****
DCM IMEI	*****
DCM ICCID	*****
DCM MSISDN	*****
DCM Contract status	Active Mode
HELNET ID	***-***-***-*****