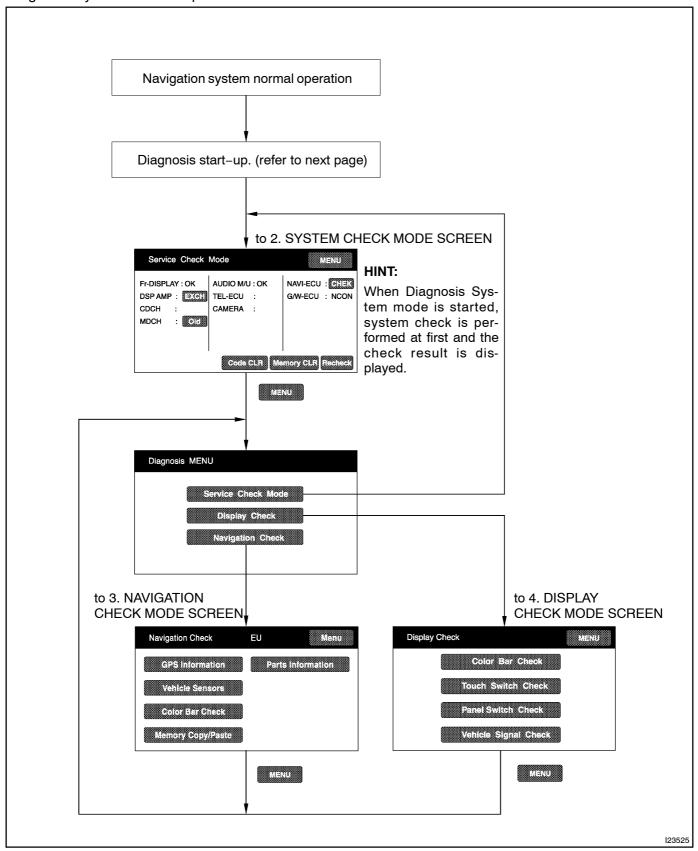
DIOMY 01

PRE-CHECK

1. DIAGNOSIS SYSTEM MODE

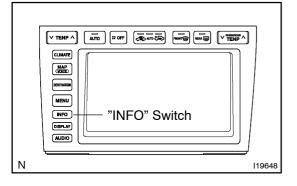
HINT:

Diagnosis System Mode is operated as follows.

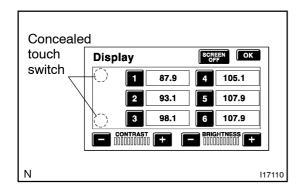


(a) DIAGNOSIS START-UP

To start the diagnosis menu, there are 3 ways: using a diagnosis check wire and using a switch.



- (b) START-UP BY SWITCH OPERATION (light control switch)
 - (1) Vehicle speed is 0 km/h (0 mph).
 - (2) Parking brake switch is pressed.
 - (3) While pressing "INFO" switch, by turning the light control switch to OFF, TAIL, OFF, TAIL, and OFF the system is started up.
- (c) START-UP BY SWITCH OPERATION (touch panel)
 - (1) Vehicle speed is 0 km/h (0 mph).
 - (2) Parking brake switch is pressed.
 - (3) Press the "INFO" switch to display the Screen Adjustment screen.



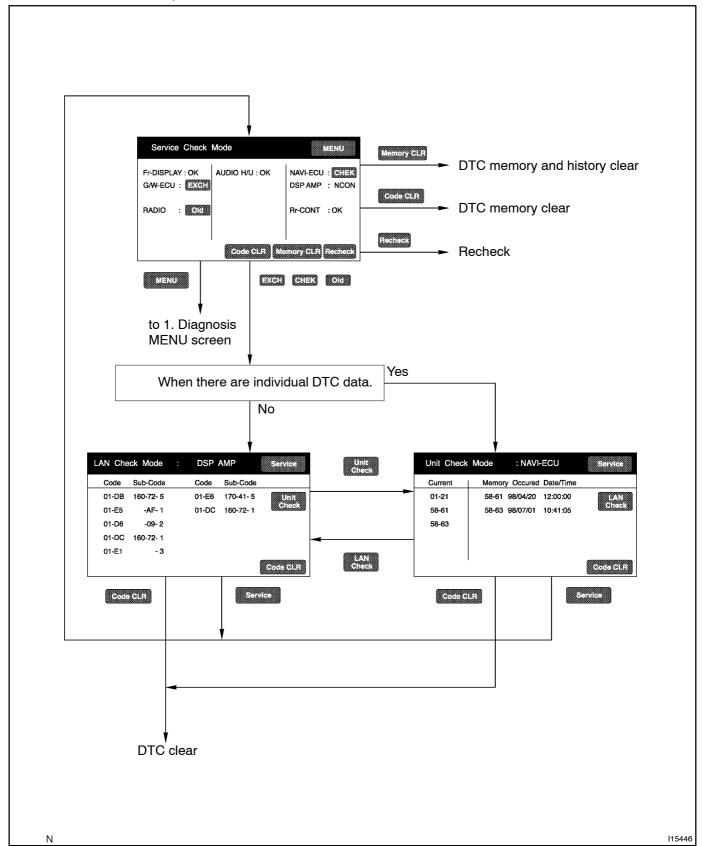
(4) Repeatedly touch the upper and lower bottom parts of the left end of the screen 3 times.

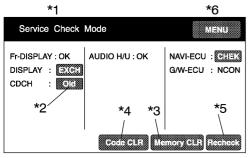
(d) FINISHING DIAGNOSIS SYSTEM MODE
Turn the ignition switch from ACC to OFF to finish the mode. If it is started by switch operation.

2. SERVICE CHECK MODE

HINT:

Service Check Mode is operated as follows.





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(a) System Check Mode

(1) Start the Diagnosis System.

Display Item	Function
Components Name/*1	List of component names including optional components (15 components max.) are displayed. When the names are not identified, their physical addresses are displayed.
Check Result/*2	Check results are displayed.
Memory Clear switch/*3	Pressing this switch for 3 sec. deletes all the information about master component registration.
DTC Clear switch/*4	Pressing this switch for 3 sec. deletes diagnosis memory of all the components. It deletes Service Check results and the screen displaying the check results.
Recheck/*5	Pressing this switch performs Service Check again.
MENU/*6	Pressing this switch activates the Diagnosis Menu screen.

HINT:

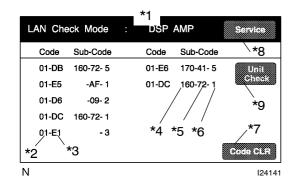
Service Check displays the check results based on the information obtained from each component's response to "System Check Execution" and "Diagnosis Memory Request", and the information of "Current DTC Notification" (the Unit Check and the LAN Check information that will be displayed on the next screens.).

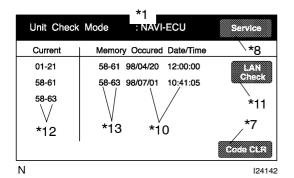
(2) Read Check Result

Check Result	Meaning
ОК	No DTC is identified.
EXCH	One or more DTC requesting for exchange are detected.
CHEK	One or more DTC requesting for check are detected.
NCON	No connection response to Diagnosis System start-up, whereas it has the connection response to the AVC LAN system when the power switch is turned on (when IG is turned to ACC).
Old	One or more DTC are detected because of old version.
NRES	No response to the information about the Diagnosis System, whereas it responds to the Diagnosis System start-up.

HINT:

- After repair and check, press "Code CLR" for more than
 3 sec. to delete diagnosis memory.
- After deleting diagnosis memory, press "Recheck" and make sure "OK" is displayed on the screen.





(3) "EXCH", "CHEK" and "Old" can be used as switches to activate "LAN Check Mode" and "Unit Check Mode" for detail information. Check troubled parts of the components in these modes by referring to the DTC code list.

Disales have	Description
Display Item	Description
Components name/*1	Names of components to be checked are displayed.
Segment/*2	Logical address codes corresponding to DTC are displayed.
DTC/*3	DTC is displayed.
Sub-Code (address numbers of related components)/*4	Physical address codes memorized together with DTC are displayed.
Sub-code (Connection confirmation number) /*5	Connection confirmation numbers memorized together with DTC are displayed.
Sub-code (Number of occurrence) /*6	The number of occurrence of the same DTC is displayed.
DTC clear switch/*7	Pressing this switch for 3 sec. deletes DTC memory of the selected diagnosis component.
Service check mode screen switch/*8	Pressing this returns to the Service Check Mode screen.
Unit check mode screen switch/*9	Pressing this switch activates the Unit Check Mode screen, which displays the logical address 01 with DTC 00-CF and the logical address 10 and up with DTC 00-FE.
Date/Time/*10	The date and time stamped at the time of DTC occurrence are displayed in the order of year-month-day-hour-minute-second. (If the date and time data is invalid, it is displayed as a blank.)
Unit check mode screen switch/*11	Pressing this switch activates the LAN Check Mode screen, which displays the logical address 01 with DTC 00–D0 –FE.
Current/ *12	Up to 6 DTC codes detected during the System Check are displayed.
Memory/ *13	DTC memories stored and current DTC Notification are displayed.

HINT:

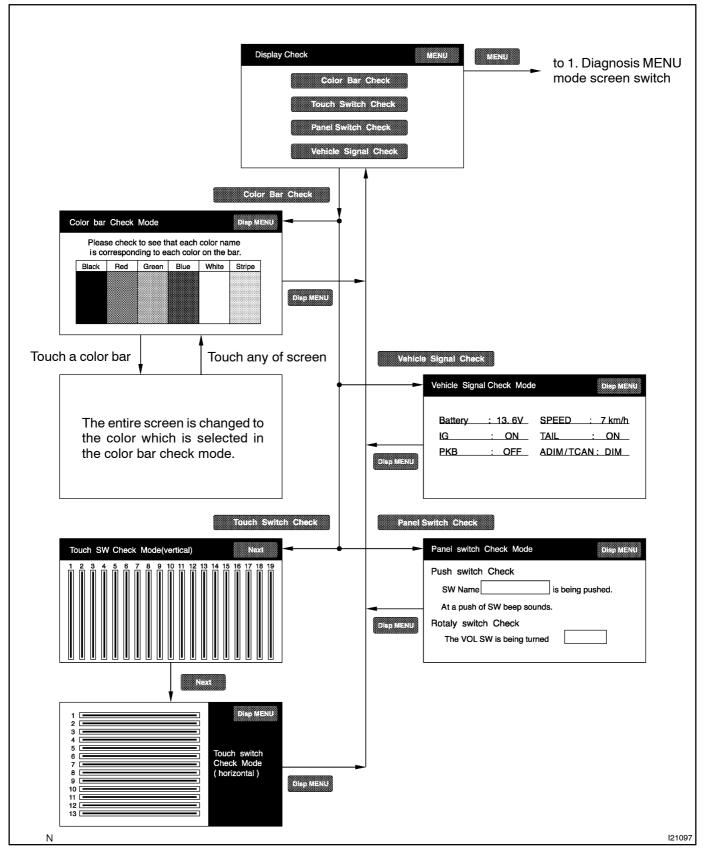
- Detecting Unit DTC activates the Unit Check Mode on the screen.
- Detecting no LAN DTC activates the LAN Check Mode on the screen.
- Use the displayed switch to change to the Unit Check Mode and the LAN Check Mode.
- The LAN Check Mode chooses and displays the LAN DTC out of DTC of components identified as "CHEK" in the Service Check.

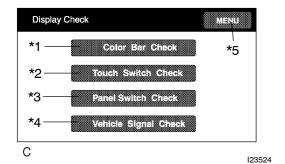
 In the Unit Check Mode, DTC which is identified as "EHCK" in the Service Check, is displayed as classified into Current DTC and Past DTC.

3. DISPLAY CHECK MODE

HINT:

Display Check Mode is operated as follows.



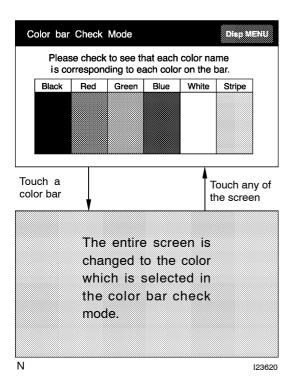


(a) Display Check Mode

Display	Contents
Color Bar Check/*1	Color display is checked.
Touch Switch Check/*2	Operating condition of touch switch display is checked.
Panel Switch Check/*3	Operating condition of switches on both sides of the display is checked.
Vehicle Signal Check/*4	Status of the vehicle signal which has been loaded into the display is checked.
MENU/*5	Pressing this switch activates the Diagnosis Menu screen.

HINT:

In Display Check Mode, above checks can be performed.

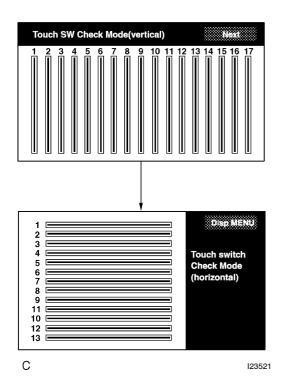


- (b) Display Color Bar Check
 - (1) Start the Diagnosis System.
 - (2) Select "MENU".
 - (3) Select "Display Check".
 - (4) Select "Color Bar Check".
 - (5) Make sure that each color name is corresponding to each color on the bar.

HINT:

Select Black, Red, Green, Blue, White and Stripe to display selected colors and stripe on the entire screen.

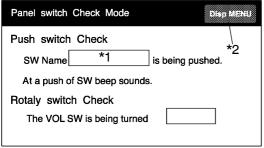
(6) Compare with the Color Bar Check in the Navigation Check and make sure that no difference is found.



- (c) Display Touch Switch Check
 - (1) Start the Diagnosis system.
 - (2) Select "MENU".
 - (3) Select "Display Check".
 - (4) Select "Touch Switch Check".
 - (5) Touch the screen and make sure that every line reacts to the touch.

HINT:

After the Touch Switch Check for vertical lines, press "Next" to check horizontal lines.



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- (d) Display Panel Switch Check
 - (1) Start the Diagnosis system.
 - (2) Select "MENU".
 - (3) Select "Display Check".
 - (4) Select "Panel Switch Check".
 - (5) Press each switch and make sure that it corresponds to the display on the screen.

<u> </u>	· ·
Names of push-button switches/*1	Names of push-button switches pressed are displayed. Pressing 2 or more push-button switches is displayed as "MULTIPLE". After that if the number of push-button switches being pressed becomes 1,the name of the push-button switch being pressed is displayed.
Direction of the rotation/*2	Direction of a rotary switch (volume switch, etc.) is displayed as "right" or "left".
Disp MENU/*3	Pressing this switch activates Display Check Menu.

- (e) Display Vehicle Signal Check
 - (1) Start the Diagnosis system.
 - (2) Select "MENU".
 - (3) Select "Display Check".
 - (4) Select "Vehicle Signal Check".
 - (5) Check the status of the vehicle signal (Battery, IG, PKB, SPEED, TAIL, ADIM/TCAN) loaded into the display.

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HINT:

Vehicle signal data is updated every 1 second.

Vehicle Signal Check Mode

Battery: 13.6V SPEED: 7 km/h

IG: ON TAIL: ON

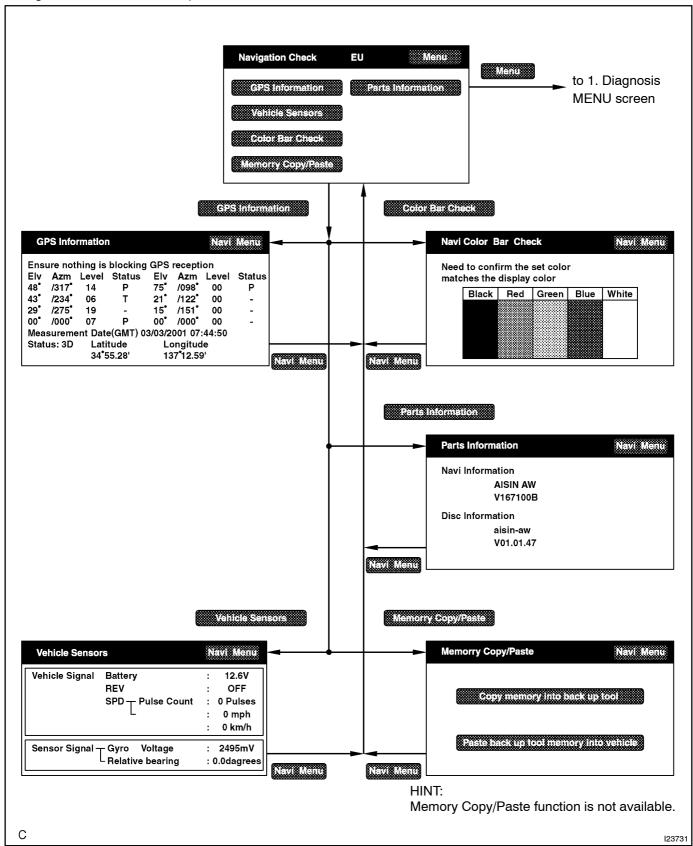
PKB: OFF ADIM/TCAN: DIM

С

4. NAVIGATION CHECK MODE

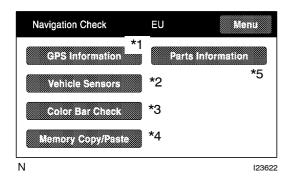
HINT:

Navigation Check Mode is operated as follows.



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GPS Information Navi Menu Ensure nothing is blocking GPS reception Elv 48° Azm Level Status /317° 14 P Azm Level /098° 00 Εĺν Status 75° Ρ 43° 21° /234° Т 06 /122° 00 /275° |29° 19 15 /151 00 <u>__00_____000____07__</u> <u>/000°</u> Measurement Date(GMT) 03/05/2001 07:44:50 Status: 3D Latitude Longitude 34°55.28' <u> 137°12.59'</u> _

(a) Navigation Check Mode

Display	Description
GPS Information/*1	Information related to GPS is displayed (updated every 1 second.).
Vehicle Sensors/*2	Vehicle signal information to be loaded in the Navigation ECU is displayed (up- dated every 1 second.).
Color Bar Check/*3	Color display of the Navigation ECU is checked. (Compare with the Color Bar Check results in the Display Check.)
Memory Copy / Paste/*4	Using hand-held tester, read and write user data such as a placement of shop, restaurant etc. stored in memory.
Parts Information/*5	Navigation program version and disc version are displayed.

HINT:

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- In the Navigation Check mode, the checks mentioned above can be conducted.
- The Navigation ECU operates each Navigation Check screen.

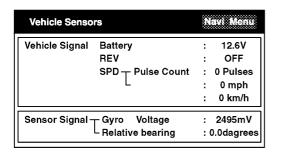
(b) GPS Information

- (1) Start the Diagnosis system.
- (2) Select "MENU".
- (3) Select "Navigation Check".
- (4) Select "GPS Information".
- (5) Check the GPS-related information.

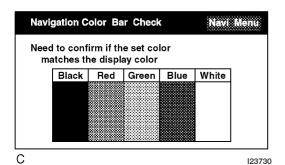
Display Data	Description
Satellite Information/*1	"Angle of elevation", "Azimuth", "Level of Signal" and "Status of Wave Reception" of the Satellite captured by the antenna are displayed (for 8 satellites max.)
Position Data/*2	The latitude and longitude of the current position are displayed in degree, minute and second.
Time Data/*3	Date and time data obtained from the GPS receiver is displayed.

Measurement Status: /*4

Display	Conditions
2D	Measurement on 2 dimensions
3D	Measurement on 3 dimensions
NG	GPS information cannot be used.
Error	Reception error occurs.
-	Other than the above



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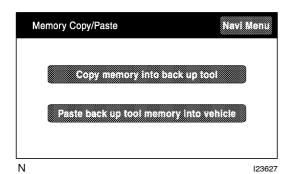
Europe: Navi Menu **Parts Information Navi Information** AISIN AW V167100B **Disc Information** aisin-aw V01.01.47 Australia: Parts Information Navi Menu **Navi Information** DENSO OBD1 **Disc Information** DENSO AF AV:2.3D, AGAV:2.3D С

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- (c) Vehicle Sensors
 - (1) Start the Diagnosis system.
 - (2) Select "MENU".
 - (3) Select "Navigation Check".
 - (4) Select "Vehicle sensors".
 - (5) Check the vehicle signals (ACC, REV, SPD) and the output signal of the gyro sensor introduced into the navigation ECU.

Items	Display Method
ACC signal status	Displayed as ON/OFF.
REV signal status	Displayed as ON/OFF.
SPD signal status	The cumulative value of input pulse count and the vehicle speed [km/h] [mph] are displayed. [The cumulative value of input pulse count is set to be 0 when this screen is displayed. When the vehicle starts to drive, it is counted and displayed continually.]
Output signal of the gyro sensor	Voltage [V] and relative azimuthal angle [degree] are displayed. [The position of the vehicle when this screen is displayed is set to be 0 degree in azimuth. Based on this, relative azimuthal angle is measured and displayed continually.]

- (d) Navigation Color Bar Check
 - (1) Start the Diagnosis system.
 - (2) Select "MENU".
 - (3) Select "Navigation Check".
 - (4) Select "Color Bar Check".
 - (5) Make sure that the set color matches the display color.
 - (6) Compare with the Color Bar Check in the Display Check and make sure that no difference is found.
- (e) Parts Information
 - (1) Start the Diagnosis system.
 - (2) Select "MENU".
 - (3) Select "Navigation Check".
 - (4) Select "Parts Information".
 - (5) Check the program and disc version.



(f) Memory/ Copy/ Paste HINT:

This function is not available.