# DIAGNOSIS DISPLAY DETAILED DESCRIPTION

05HDK–01

HINT:
- This section contains a detailed description of displays within diagnostic mode.
- Illustrations may differ from the actual vehicle depending on the device settings and options. Therefore, some detailed areas may not be shown exactly the same as on the actual vehicle.

**1.   System Check**

(a)   System Check Mode Display
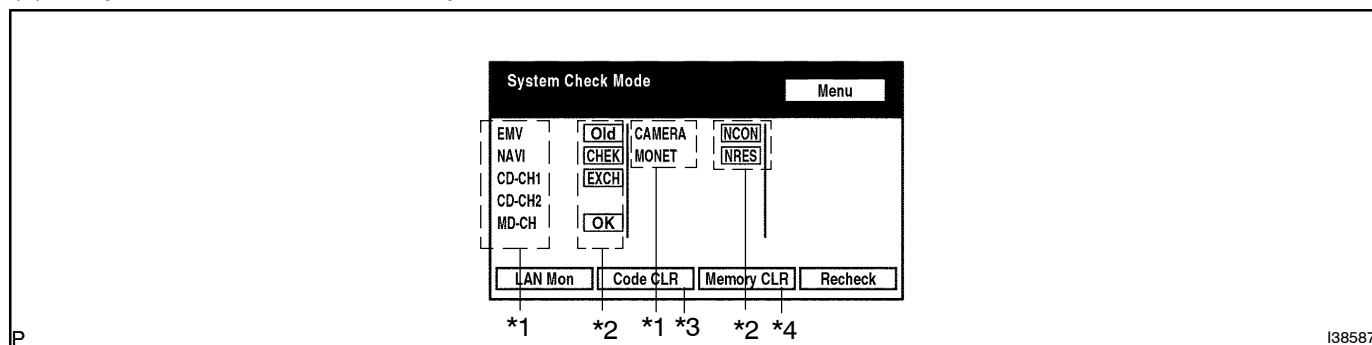


**Device Names and Hardware Address/*1**

HINT:
- Registered device names are displayed below.
- If a device name is unknown to the system, its physical address is shown instead.

| Address No. | Name | Address No. | Name |
|---|---|---|---|
| 110 | EMV | 120 | AVX |
| 128 | 1DIN TV | 140 | AVN |
| 144 | G–BOOK | 178 | NAVI |
| 17C | MONET | 190 | AUDIO H/U |
| 1AC | CAMERA–C | 1B0 | Rr–TV |
| 1C0 | Rr–CONT | 1C2 | TV–TUNER2 |
| 1C4 | PANEL | 1C6 | G/W |
| 1C8 | FM–M–LCD | 1D8 | CONT–SW |
| 1EC | Body | 1F0 | RADIO TUNER |
| 1F1 | XM | 1F2 | SIRIUS |
| 230 | TV–TUNER | 240 | CD–CH2 |
| 250 | DVD–CH | 280 | CAMERA |
| 360 | CD–CH1 | 3A0 | MD–CH |
| 17D | TEL | 440 | DSP–AMP |
| 530 | ETC | 5C8 | MAYDAY |
| 1A0 | DVD–P | 1C6 | CLOCK |
| 1F4 | RSA | 1F6 | RSE |
| 480 | AMP | – | – |

**Check Result/*2**

HINT:

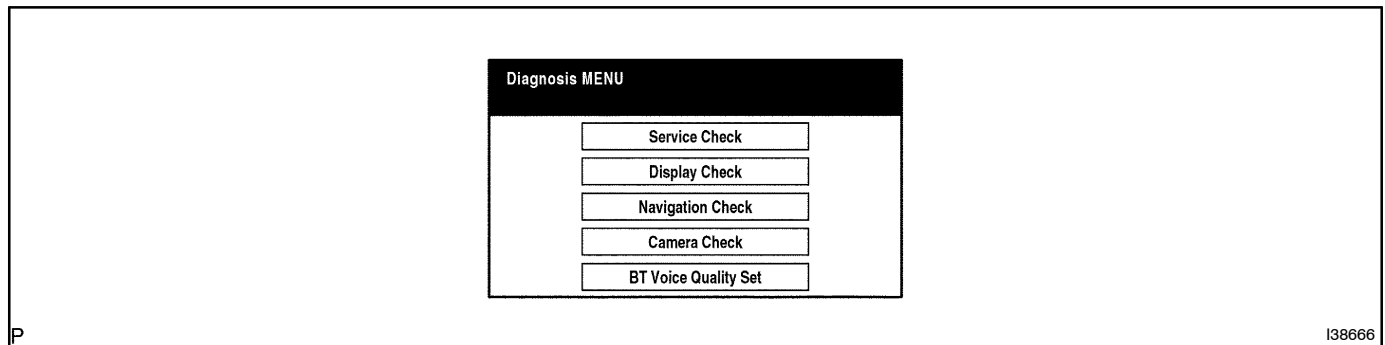Result codes for all devices are shown below.

| Result | Meaning | Action |
|---|---|---|
| OK | The device did not respond with a DTC (excluding communication DTCs from the AVC−LAN). | − |
| EXCH | The device responds with a "replace"−type DTC. | Look up the DTC in "Unit Check Mode" and replace the device. |
| CHEK | The device responds with a "check"−type DTC. | Look up the DTC in "Unit Check Mode". |
| NCON | The device was previously present, but does not respond in diagnostic mode. | 1. Check power supply wire harness of the device.<br>2. Check the AVC−LAN of the device. |
| Old | The device responds with an "old"−type DTC. | Look up the DTC in "Unit Check Mode". |
| NRES | The device responds in diagnostic mode, but gives no DTC information. | 1. Check power supply wire harness of the device.<br>2. Check the AVC−LAN of the device. |

**Code Clear/*3**

Present DTCs are cleared.

**Memory Clear/*4**

Present and past DTCs and registered connected device names are cleared.

(b)    Diagnosis MENU Display



```
Diagnosis MENU

    Service Check
    Display Check
    Navigation Check
    Camera Check
    BT Voice Quality Set
```

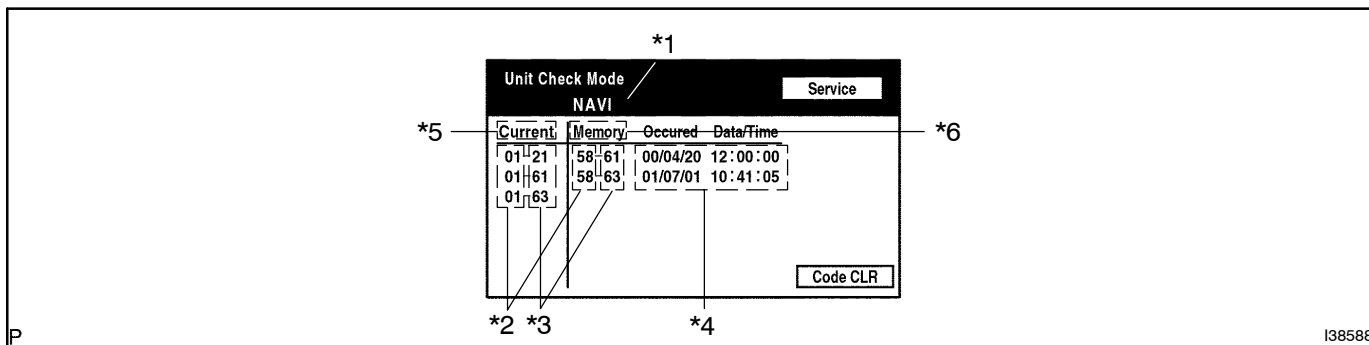P                                                                                    I38666

HINT:

Each item is grayed out or not displayed based on the device settings.

(c) Unit Check Mode Screen



**Screen Description**

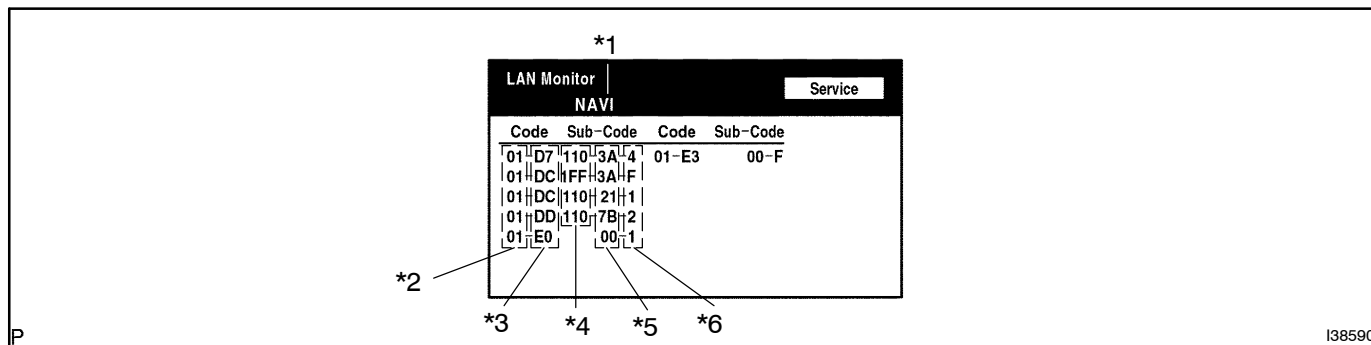| Display | Contents |
|---|---|
| Device name/*1 | Target Device |
| Segment/*2 | Target Device Logical address |
| DTC/*3 | DTC (Diagnostic Trouble Code) |
| Timestamp/*4 | The time and date of past DTCs are displayed. (The year is displayed in 2 digit format.) |
| Present Code/*5 | The DTC output at the service check is displayed. |
| Past Code/*6 | Diagnostic memory results and recorded DTCs are displayed. |

(d) LAN Monitor (Original) Screen
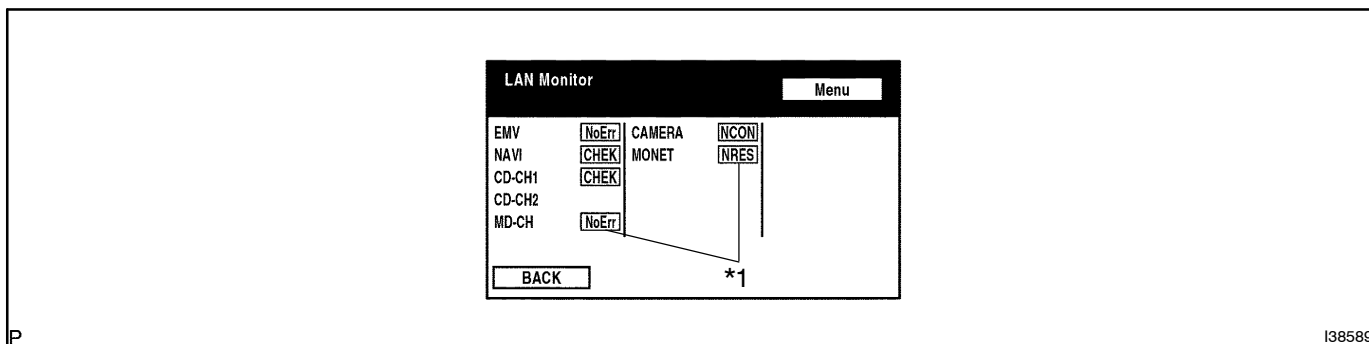


**Check Result**
HINT:
Check results of all the devices are displayed.

| Result | Meaning | Action |
|---|---|---|
| No Err (OK) | There are no communication DTCs. | − |
| CHEK | The device responds with a "check"−type DTC. | Look up the DTC in "Unit Check Mode". |
| NCON | The device was previously present, but does not respond in diagnostic mode. | 1. Check power supply wire harness of the device. 2. Check the AVC−LAN of the device. |
| Old | The device responded with an old−type DTC. | Look up the DTC in "Unit Check Mode". |
| NRES | Device responds in diagnostic mode, but gives no DTC information. | 1. Check power supply wire harness of the device. 2. Check the AVC−LAN of the device. |

(e)    LAN Monitor (Individual) Screen



## Screen Description

| Display | Contents |
|---|---|
| Device name/*1 | Target device |
| Segment/*2 | Target logical address |
| DTC/*3 | DTC (Diagnostic Trouble Code) |
| Sub−Code (device address)/*4 | Physical address stored with DTC. (If there is no address, nothing is displayed.) |
| Connection check No./*5 | Connection check number stored with DTC. |
| DTC occurrence/*6 | Number of times the same DTC has been recorded. |

## 2.    DISPLAY CHECK

(a)    Vehicle Signal Check Mode Screen
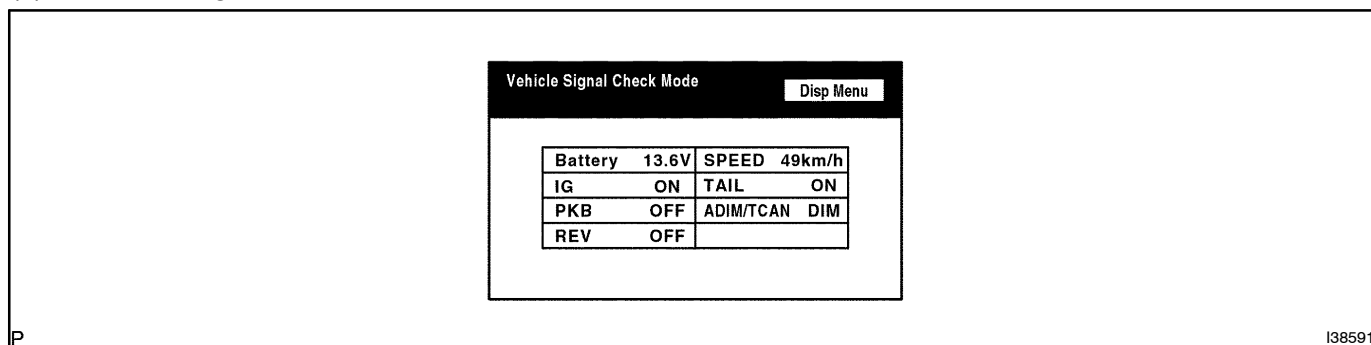


## Screen Description

| Name | Contents |
|---|---|
| Battery | Battery voltage is displayed. |
| PKB | Parking brake ON/OFF state is displayed. |
| REV | Reverse signal ON/OFF state is displayed. |
| IG | IG switch ON/OFF state is displayed. |
| ADIM/TCAN | Brightness state DIM (with)/ BRIGHT (without) is displayed. |
| SPEED | The vehicle speed, displayed in km/h. |
| TAIL | TAIL signal (Head lamp dimmer switch) ON/OFF state is displayed. |

HINT:

- Only items sending a vehicle signal will be displayed.
- This screen is updated once per second when input signals to the vehicle are changed.
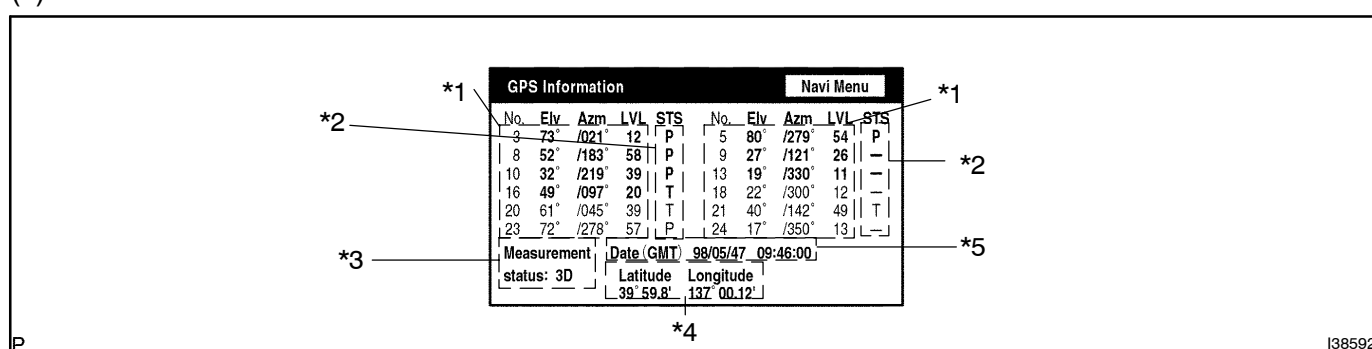
## 3. NAVIGATION CHECK

(a) Navigation Check MENU Screen
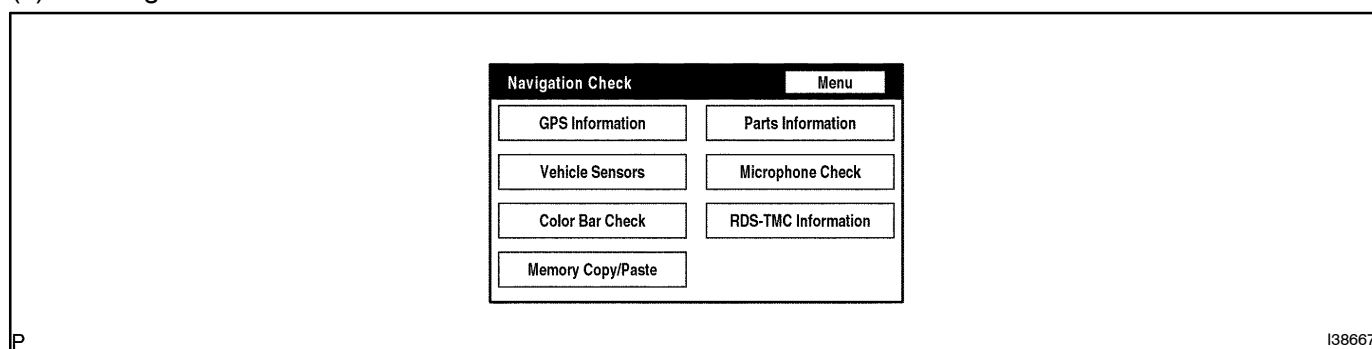


HINT:

Each item is grayed out or not displayed based on the device settings.

(b) GPS information Screen



### Satellite information/*1

Information from a maximum of 12 satellites is displayed on the screen. This information includes the target GPS satellite number, elevation angle, direction and signal level.

### Receiving condition/*2

**(DENSO model)**

| Display | Contents |
|---|---|
| T | The system is receiving a GPS signal, but is not using it for location. |
| P | The system is using the GPS signal for location. |
| − | The system cannot receive a GPS signal. |

**(AISIN AW Model)**

| Display | Contents |
|---|---|
| 01H | The system cannot receive a GPS signal. |
| 02H | The system is tracing a satellite. |
| 03H | The system is receiving a GPS signal, but is not using it for location. |
| 04H | The system is using the GPS signal for location. |

### Measurement information/*3
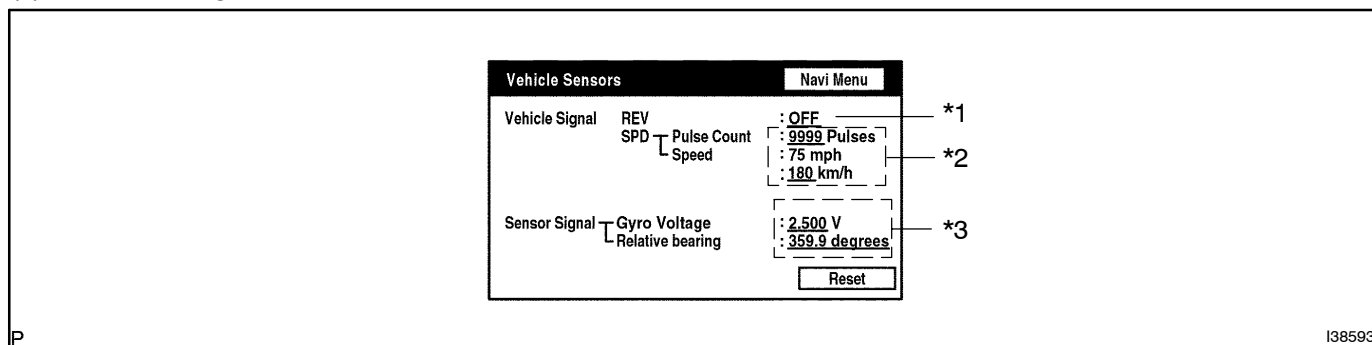
| Display | Contents |
|---|---|
| 2D | 2−dimensional location method is being used. |
| 3D | 3−dimensional location method is being used. |
| NG | Location data cannot be used. |
| Error | Reception error has occurred. |
| − | Any other state. |

## Position information/*4

| Display | Contents |
|---|---|
| Position | Latitude and longitude information on the current position is displayed. |

## Date information/*5

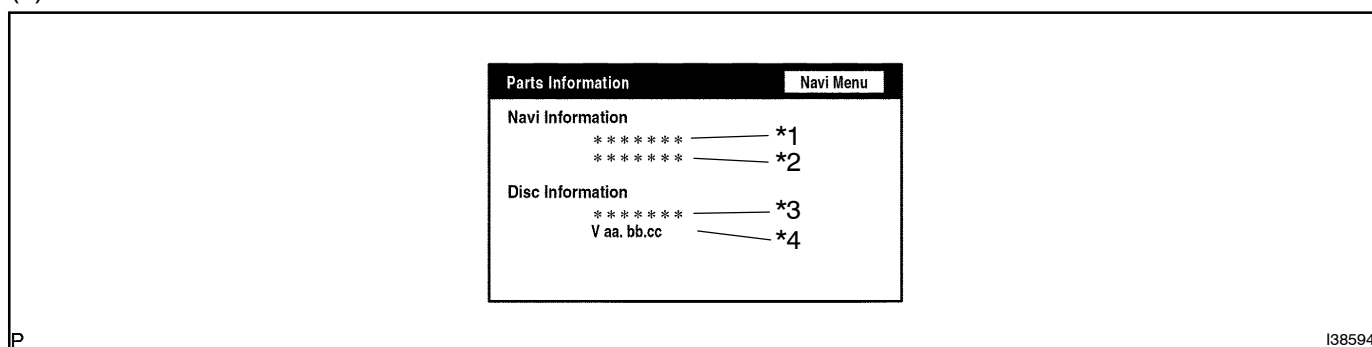| Display | Contents |
|---|---|
| Date | The date/time information obtained from GPS signal is displayed in Greenwich mean time (GMT). The last 4 digits are displayed. |

(c)  Vehicle Signal Check Screen



I38593

## Vehicle signal

| Display | Contents |
|---|---|
| REV/*1 | REV signal ON/OFF state is displayed. |
| SPD/*2 | SPD signal condition is displayed. |

## Sensor signal

| Display | Contents |
|---|---|
| Gyro sensor/*3 | Gyro sensor output condition is displayed (when the vehicle runs straight or is stationary, the voltage is approximately 2.5 V). |

HINT:

Signals are updated once per second only when vehicle sensor signals are changed.

(d)  Parts Information Screen



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## Screen description

| Display | Contents |
|---|---|
| Navigation Manufacturer/*1 | Navigation ECU manufacturer is displayed. |
| Navigation Version No./*2 | Navigation ECU version is displayed. |
| Disc Manufacturer/*3 | Map disc manufacturer is displayed. |
| Disc Version No./*4 | Map disc version is displayed. |

(e)    Memory Copy/Paste Screen

```
┌──────────────────────────────────────────────────────────┐
│                                                            │
│              ┌──────────────────────────────┐              │
│              │ MemoryCopy/Paste   │Navi Menu││              │
│              │                    └─────────┘│              │
│              │  ┌──────────────────────────┐ │              │
│              │  │ Copy memory into back up tool│              │
│              │  └──────────────────────────┘ │              │
│              │                                │              │
│              │  ┌──────────────────────────┐ │              │
│              │  │Paste back up tool memory into vehicle│     │
│              │  └──────────────────────────┘ │              │
│              │                                │              │
│              └────────────────────────────────┘             │
│P                                             I38595         │
└──────────────────────────────────────────────────────────┘
```
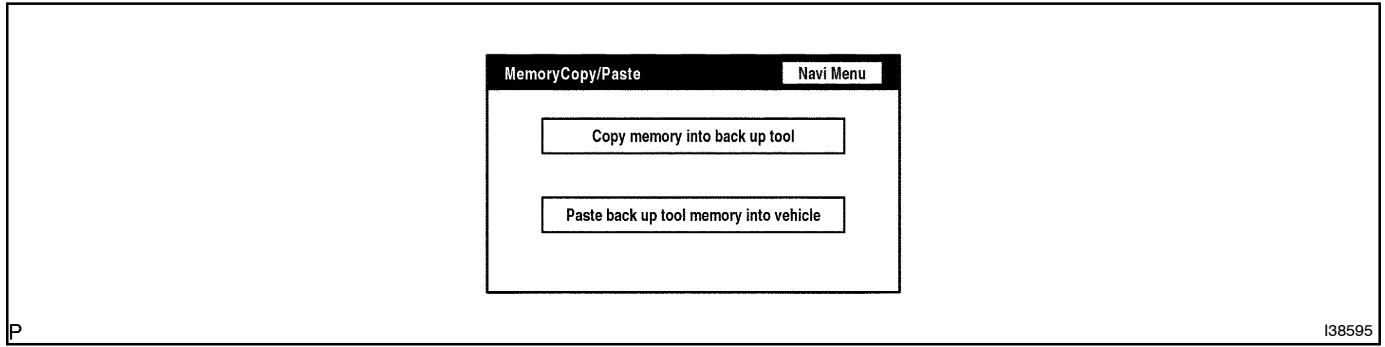
HINT:
This function cannot be used.