**Built–in Type Amplifier
w/o In–dash CD Changer:**

P                                    I43946

**Separate Type Amplifier
w/ In–dash CD Changer:**

P                                    I43945

**Separate Type Amplifier
w/o In–dash CD Changer:**

P                                    I43940

# DTC CHECK/CLEAR

05MC4–01

## 1. DIAGNOSTIC CHECK

(a) Starting Diagnostic Mode (All elements come on during the SW check mode).

   (1) Turn off the audio system and turn the ignition switch to the ACC position. While pressing the pre-set switches "1" and "6" at the same time, press the "DISC" or "CD" 3 times.

   (2) Reference:

- When the system enters the Diagnostic Mode, a beep sound is emitted 3 times and all the elements come on during the SW check mode.
- It takes about 40 seconds to complete the check.
- Turn all the elements in the LCD on.
- When pressing the switch, confirm a beep sound is emitted.

(b) Service Check Screen.

   (1) Press the "SEEK TRACK" switch to enter the "Service Check Screen".

   (2) In the service check mode, the system check and the diagnostic memory check are performed, and the check results are displayed in ascending order of the component codes (physical address).
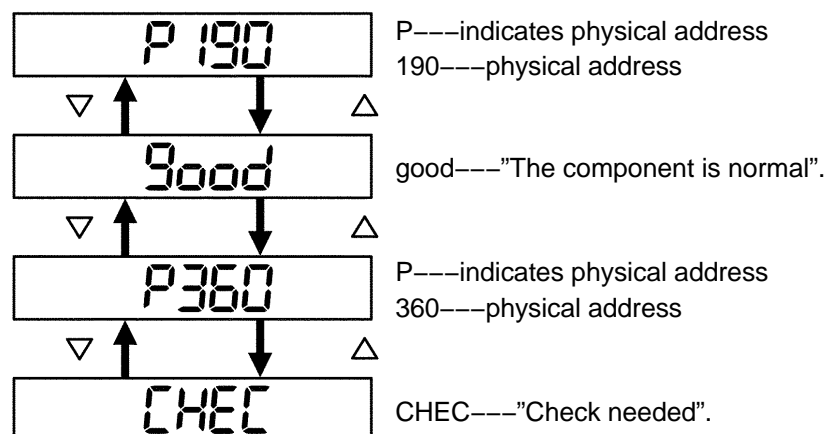
| Terms | Meaning |
|---|---|
| Component code (Physical address) | Three–digit code (in hexadecimal) given to each device comprising AVC–LAN. Corresponding to its function, individual symbol is provided. |
| Logical address | Two–digit code (in hexadecimal) given to each function and device unit in each device comprising AVC–LAN. |

### Code No. (physical address) List

| Code No. (physical address) | Equipment name |
|---|---|
| 190 | Radio receiver assy (Audio head unit) |

(c) Finishing Diagnostic Mode.

   (1) Press the "DISC" or "CD" for 2 seconds or more, or turn the ignition switch off.

(d) Service Check Mode Result Display (for checking the current and the past system conditions).
    (1)    Press the "SEEK TRACK" switch to see the check result of each component.

```
        ┌─────────────────┐
        │     P 190       │      P–––indicates physical address
        └─────────────────┘      190–––physical address
      ▽  ↑     │    △
         │     ↓
        ┌─────────────────┐
        │      good       │      good–––"The component is normal".
        └─────────────────┘
      ▽  ↑     │    △
         │     ↓
        ┌─────────────────┐
        │     P 360       │      P–––indicates physical address
        └─────────────────┘      360–––physical address
      ▽  ↑     │    △
         │     ↓
        ┌─────────────────┐
        │      CHEC       │      CHEC–––"Check needed".
        └─────────────────┘
```

△ : SEEK TRACK UP

▽ : SEEK TRACK DOWN

The illustration shows the case that the system has 2 components with codes 190 and 360, and one component (code 360) requires a check.
The check result is displayed in ascending order of component code. The component device code is displayed first, and then the check result follows.

P                                                     I34696

    (2)    Check Result Display.

| Display | Original Language | Meaning | Action to be taken |
|---------|-------------------|---------|--------------------|
| good | Good (normal) | No DTCs are detected in both "System Check Mode" and "Diagnostic Memory Mode". | – |
| NCON | No connection | The system recognized the component when it was registered, but the component gives no response to the "Diagnostic Mode ON Request". | Check the power source circuit and the communication circuit of the component indicated by the component code (physical address). |
| ECHN | Exchange | One or more DTCs for "Exchange" are detected in either "System Check Mode" or "Diagnostic Memory Mode". | Go to the detailed information mode to check the trouble area referring to the DTC list. |
| CHEC | Check | When no DTCs are detected for "Exchange", one or more DTCs for "Check" are detected in either "System Check Mode" or "Diagnostic Memory Mode". | Go to the detailed information mode to check the trouble area referring to the DTC list. |

| Display | Original Language | Meaning | Action to be taken |
|---------|-------------------|---------|--------------------|
| OLD | Old version | Old DTC application is identified and DTC is detected in either "System Check Mode" or "Diagnostic Memory Mode". | – |
| NRES | No response | The device gives no response to any one of "System Check Mode ON Request", "System Check Result Request" and "Diagnostic Memory Request". | Check the power source circuit and the communication circuit of the component indicated by the component code (physical address). |

    (3)    To perform the Service Check again, press the preset switch "1".

(e)    Detailed Information Mode (when displaying the DTC for a troubled component)

    (1)    With "CHEC" or "ECHN" being displayed, press the preset switch "2" to go to the detailed information mode.

    (2)    Press the "SEEK TRACK" switch to display the "System Check Result (SYS)" and "Diagnostic Memory Response (CODE)".

**Service Check Mode**

```
P 190
```
▽↑ △

```
CHEC
```

PRESET SWITCH "3"          PRESET SWITCH "2"

- - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - - -

**Detailed Information Mode**

(★)
```
_P 190
```
P–––indicates physical address
190–––physical address

▽↑ △

```
SYS
```
SYS–––system check result

▽↑ △

```
1L-62
```
1–––the first code
62–––logical address

Detailed information of the first code is displayed

▽↑ △

```
1d-47
```
47–––DTC

▽↑ △

Continue to display detailed information when more than one DTC are detected.

▽↑ △

```
CODE
```
CODE–––diagnostic memory response result

▽↑ △

```
2L-01
```
2–––the second code
01–––logical address

▽↑ △

```
2d-DC
```
DC–––DTC

▽↑ △

```
2P-360
```
P–––indicates physical address
360–––sub code

Detailed information of the second code is displayed

▽↑ △          (*1)

```
2n-6F
```
6F–––connection check number

▽↑ △

```
2c-05
```
05–––the number of times of occurrence (in decimal)

▽↑ △

Continue to display detailed information when more than one DTC are detected.

△ : SEEK TRACK UP
▽ : SEEK TRACK DOWN

From (★)        To (★)

The illustration shows the case that the component with code 190 has DTC "47" and "dC" as a result of the system check and the diagnostic memory response.
The detailed information mode shows the system check result first, then the diagnostic memory response result follows. (*1): As for the DTCs that do not have any sub code, sub code is not displayed.

P                                                                                                               I34695

**05–1838**

**DIAGNOSTICS** – AUDIO SYSTEM

(3) Displayed Items in Detailed Information Mode

| Division Code for DTC display | Meaning | The order of detailed information displayed when the "TUNE UP" switch is pressed. (The order is reversed when the "TUNE DOWN" switch is pressed.) |
|---|---|---|
| SYS | System check result is displayed. | Logical address → DTC |
| CODE | Diagnostic memory check result is displayed. | Logical address → DTC → Sub code → Connection confirmation number → The number of times of occurrence |

(4) Check the trouble area referring to the DTC list.

(5) To return to the service check mode, press the preset switch "3".

## 2. DTC CLEAR

(a) Clearing individual DTC memory (when clearing the memory of the DTC detected in the past individually)

    (1) Press the preset switch "5" for 2 seconds or more while the "ECHN" is displayed in the service check mode or during the detailed information mode.

HINT:
- A beep sound is emitted once when the DTC memory is completely cleared.
- When the DTC memory is cleared, only the component code (physical address) is displayed for the target component.
- To check DTCs, press the preset switch "1" and perform the service check again.

(b) Clearing all the DTC memory (when clearing all the memory of the DTCs detected in the past)

    (1) Start the diagnostic mode after repairing the trouble area.

    (2) Press the preset switch "5" for 2 seconds or more ("CLR" is displayed at this time).

HINT:
- A beep sound is emitted once when the DTC memory is completely cleared.
- When the DTC memory for all the components is cleared, only the component codes (physical address) are displayed.

    (3) Press the preset switch "1" to perform the service check again, and check that no DTCs are displayed for all the component codes (physical address).

(c) Finishing Diagnostic Mode.

    (1) Press the "DISC" or "CD" for 2 seconds or more, or turn the ignition switch off.