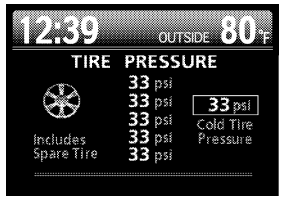
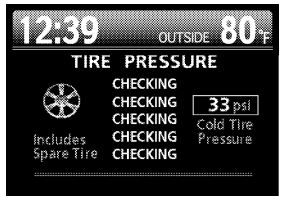
## ■SYSTEM OPERATION

### 1. General

The operation of the tire pressure warning system includes information/warning function, initial check function, and a diagnosis function.

### 2. Information Function

The multi-information display shows the following to inform the driver of the tire inflation pressure.

| Information | Multi-information Display | Condition |
|---|---|---|
| Tire Inflation Pressure |  07V0CH73C | Tire inflation pressure is normal. |
| |  07V0CH74C | Tire inflation pressure cannot be indicated.<br>• Tire inflation pressure cannot be indicated.<br>• When there is a system malfunction. |

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## 3. Warning Function Operation

The tire pressure warning ECU has two warning methods depending on the condition detected. The table below shows operation of the multi-information display, tire pressure warning light, master warning light and the buzzer in the combination meter assembly for each warning method.

○: Turns on △: Stays on after blinking for 1 minute -: OFF

| Warning | Multi-information Display | Tire Pressure Warning Light | Master Warning Light | Buzzer |
|---|---|---|---|---|
| Tire inflation pressure is below the threshold |  07V0CH75C | ○ | ○ | - |
| System malfunction |  07V0CH76C | △ | ○ | Sounds |

- If the tire pressure warning light turns on, adjust the tire inflation pressure.
- If the tire pressure warning light stays on after blinking for 1 minute, it can be turned off by repairing the malfunction in the system.

## 4. Initial Check Function

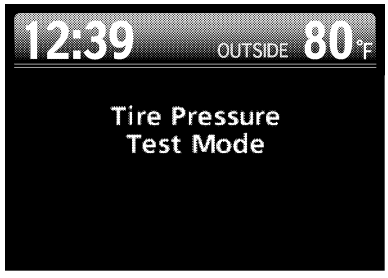
After the power source is changed to IG-ON, the tire pressure warning ECU turns on the tire pressure warning light for 3 seconds to check the warning light circuits and the tire pressure warning ECU.

### 5. Diagnosis

To inform the driver when the tire pressure warning ECU detects a malfunction in the system, the tire pressure warning ECU will blink the tire pressure warning light for 1 minute, after which the light will stay on. It will also store DTCs (Diagnostic Trouble Codes) in memory.

- 5-digit DTCs can be read by connecting Techstream to the DLC3.
- 2-digit DTCs can be read by connecting SST (09843-18040) to the TC and CG terminals of the DLC3 and monitoring the blinking of the tire pressure warning light.
- Test mode can be selected using Techstream. During test mode, the multi-information display shows the following screen.

For details, see the 2008 HIGHLANDER HYBRID VEHICLE Repair Manual (Pub. No. RM07V0U).




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## ■TIRE PRESSURE WARNING SYSTEM OPERATION PRECAUTIONS

The system will be disabled in the following conditions: (When the condition becomes normal, the system will work properly.)

- Tires not equipped with a tire pressure warning valve and transmitter are used.
- The ID number of a tire pressure warning valve and transmitter is not registered in the tire pressure warning ECU.
- The tire pressure is extremely high (500 kPa or more).

The system may be disabled in the following conditions: (When the condition becomes normal, the system will work properly.)

- Electric devices or facilities using similar radio frequencies are nearby.
- If a radio set at a similar frequency is in use in the vehicle.
- If a window tint that affects the radio wave signals is installed.
- There is a lot of snow or ice on the vehicle, in particular around the wheels or wheel housings.
- Non-genuine wheels are used.
- Tire chains are used.
- If the spare tire is in a location subject to poor radio wave signal reception*.
- If a large metallic object which can interfere with signal reception is put in the rear of the vehicle *.

*: Models with Standard Type Spare Tire