REMOVAL

NOTICE:

When replacing the tire pressure warning ECU, read the transmitter IDs registered in the tire pressure warning ECU and make a note of them before removing the tire pressure warning ECU.

1. REMOVE ECU INTEGRATION BOX

HINT:

Refer to the procedures up to Remove ECU Integration Box INFO.

2. REMOVE TIRE PRESSURE WARNING ECU

(a) Disengage the 2 claws to remove the tire pressure warning ECU.

C

INSTALLATION

1. INSTALL TIRE PRESSURE WARNING ECU

C

(a) Engage the 2 claws to install the tire pressure warning ECU.

2. INSTALL ECU INTEGRATION BOX

HINT:

Refer to the procedures from Install ECU Integration Box INFO.

1. From the manual:

   TIRE PRESSURE WARNING SYSTEM PRECAUTION

   (a) When the tire pressure warning light comes on, immediately check the tire pressure of the tire and adjust it to the specified value (The tire pressure warning light will come on after blinking for 1 minute, the system may be malfunctioning. In this case, refer to following troubleshooting to repair the malfunction).

   (b) When the tire pressure warning light comes on after blinking for 1 minute, there is a malfunction in the system. Check for DTCs.

   (c) It is necessary to register the transmitter ID in the tire pressure warning ECU after replacing the tire pressure warning valve and transmitter and/or tire pressure warning ECU .

   (d) When replacing the tire pressure warning ECU:

   (1) Using the Data List, read the transmitter IDs registered in the ECU and make a note of them before removing the tire pressure warning ECU.

   (2) Register the transmitter IDs after installing a new tire pressure warning ECU.

   (e) When replacing the tire pressure warning valve and transmitter:

   (1) Take a note of the 7-digit number (transmitter ID) written on the new tire pressure warning valve and transmitter when replacing the old one. Register the transmitter IDs in the tire pressure warning ECU after replacing the tire pressure warning valve and transmitter and installing the tires and wheels on the vehicle.

   NOTICE:

   The transmitter ID is written on the tire pressure warning valve and transmitter. It will be unable to be read after installing the tire pressure warning valve and transmitter on the tire and wheel. Therefore, take a note of the transmitter ID before installing the tire pressure warning valve and transmitter.

   (f) Tire and wheel replacement or tire rotation:

   · After the tires or wheels are replaced with a new tire pressure warning valve and transmitter, it is necessary to register the transmitter IDs.

   · It is not necessary to register the transmitter IDs after tire rotation is performed.

   · After dropping the tire pressure warning valve and transmitter into the tire, disengage the bead from the wheel.

   NOTICE:

Be careful not to damage the tire pressure warning valve and transmitter because of interference

between the sensor and tire bead.

· The initialization is necessary to reset the warning threshold in accordance with the variant tire pressure

settings due to the tire types.

(g) When replacing the tire pressure warning ECU and the tire pressure warning valve and transmitters, it is

necessary to perform the initialization after the registration .

(h) Precautions about the tire pressure:

· Tire pressure decreases naturally.

· In winter, tire pressure may decrease due to low ambient temperatures (tire pressure decreases by approximately 10 kPa (0.1 kgf/cm2, 1.5 psi) for every 10°C (50°F) drop in the ambient temperature).

Therefore, the tire pressure warning system is more likely to indicate a warning if the tire pressures are

not adjusted appropriately. If the daily temperature variation is large, pressurize the tires high so that the

tire pressures are suitable under cold conditions. As a result, incorrect tire pressure warning operation

should decrease.

2010 Toyota Prius Repair Manual

3. IN CASE OF TIRE AND WHEEL REPLACEMENT

(a) When tires and wheels are replaced, always ensure that each transmitter ID is correctly registered.

(b) Before removing the tires from the disc wheels or reinstalling the tires to the disc wheels, be sure to follow

the correct procedures for removal and installation of the tire pressure warning valve and transmitter. Failure to

do so may cause the tire pressure warning valve and transmitters to break .

4. INITIALIZATION PRECAUTION

(a) Initialize the tire pressure warning system after any of the following is performed:

· Replacing the tire pressure warning ECU and/or the tire pressure warning valve and transmitter

· When rotating tires on vehicles with differing front and rear tire inflation pressures

HINT:

The tire pressure warning system will not operate properly if it is not initialized .

5. FAIL-SAFE FUNCTION

(a) When a system malfunction occurs in the tire pressure warning system, the tire pressure warning light and master warning light comes on after blinking for 1 minute to informs the driver of the system failure.

(b) The result of this diagnosis is stored in the tire pressure warning ECU.

6. **CHECK TIRE PRESSURE AFTER REPAIRS**

(a) After repairs confirm that the actual tire pressures are displayed in the Data List .

7. **REMOVAL AND INSTALLATION OF TIRE PRESSURE WARNING VALVE AND TRANSMITTER**

(a) When installing a tire, make sure that the tire pressure warning valve and transmitter does not interfere with

the tire bead in order to prevent damage to the tire pressure warning valve and transmitter.

(b) After completing the operation, remove the valve core to rapidly release the air in the tire and check that the

warning light comes on. If the warning light does not come on, the system may be defective.

(c) If there is air leakage, tighten the nut to a torque of 4.0 N*m (41 kgf*cm, 35 in.*lbf) and push the valve core

2 or 3 times to remove any dirt attached to the valve core. If air continues to leak, replace the grommet, washer,

and nut.

(d) When installing the tire pressure warning valve and transmitter, make sure that the rim, grommet, washer,

and nut are clean. Use a manufacturer-specified valve cap.

(e) When putting air into the tire, first install the tire pressure valve straight onto the stem of the tire pressure

warning valve and transmitter.

8. TIRE AND WHEEL REPLACEMENT

(a) To prevent damage to the tire pressure warning valve and transmitter, drop the tire pressure warning valve

and transmitter into the tire whenever removing the tire from the wheel.

NOTICE:

Always use a new grommet, washer and nut when installing the tire pressure warning valve and transmitter.

(b) If tires and wheels are replaced, register the transmitter IDs