

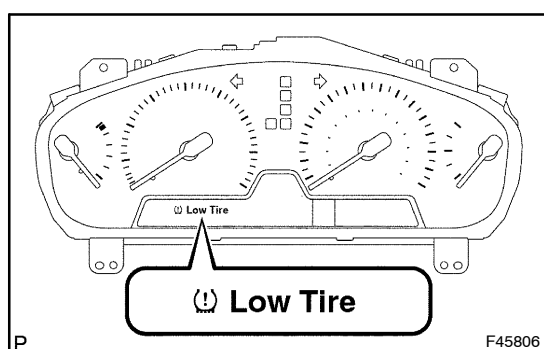
## SYSTEM DESCRIPTION

### 1. TIRE PRESSURE WARNING SYSTEM DESCRIPTION

- (a) The tire pressure warning system informs the driver that it detects low tire pressure. When the tire pressure warning system detects low tire pressure on any of the 4 wheels, which affects safe driving, the tire pressure warning indicator comes on (see page 28-1).

#### HINT:

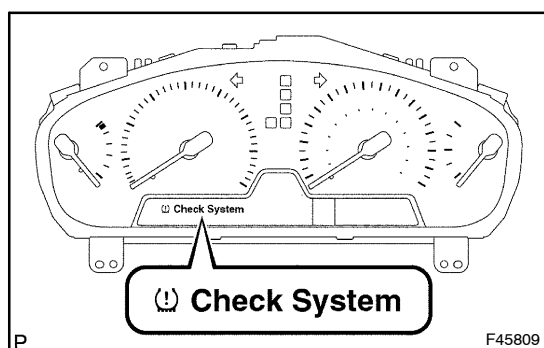
When the tire pressure warning reset switch is pushed, the tire pressure warning indicator does not come on. However, when the ignition switch is turned to the ON position again, and the vehicle is driven at more than 30 km/h (19 mph), the tire pressure warning indicator comes on again.

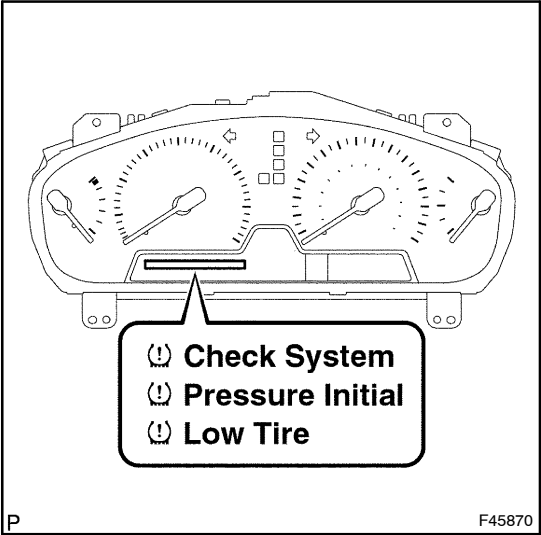


- (b) When the "Low Tire" indicator comes on, immediately check the air pressure of all tires and adjust to the specified pressure.
- (c) In the following cases, the system may not operate normally.
- Vehicle speed is 30 km/h (19 mph) or less or more than 100 km/h (62 mph).
  - Tire size is different from the specification.
  - Different sizes or types of tires are used simultaneously.
  - A spare tire, snow tires or chains are used.
  - The vehicle is driven on an unpaved, extremely rough or slippery road.
  - One of the tires on the vehicle is extremely worn or new.
  - The vehicle is towing a trailer.
  - Rapid acceleration/deceleration or sharp turns is continued.
  - Outside temperature is below 0°C (32°F) or over 40°C (104°F).

### 2. FAIL-SAFE FUNCTION

- (a) If there is a malfunction in the skid control ECU, the ECU turns the "Check System" indicator on and prohibits operating the tire pressure warning system.
- (b) The result of this diagnosis is stored in the skid control ECU.





**3. TIRE PRESSURE WARNING DISPLAY FUNCTION**  
(a) The tire pressure warning indicator comes on according to the condition of the tire pressure warning system, as shown in the table on the DIAGNOSIS SYSTEM (see page 05-355).

**4. Function of components**

Components	Function
Brake Actuator Assy (Skid Control ECU)	Calculates the tire air pressure based on the vehicle wheel speed sensor signal. Indicates the "Low Tire" indicator on the multi-information display if the calculated value is low.
Speed Sensors	Detects the speed of each wheel.
Tire Pressure Warning Indicator (Multi-Information Display)	Informs driver of insufficient tire air pressure. Requests initial settings. Informs driver when the initial settings are received. Informs driver of system malfunctions.
Stop Lamp Switch	Prevents tire pressure warning system operation when the brake pedal is depressed.
Ambient Temperature Sensor	Detects ambient temperature for tire frequency correction. Ambient temperature is detected though ECM.
Tire Pressure Warning Reset Switch	Enters the initialization mode for tire or wheel replacement, or tire rotation.