SYSTEM DESCRIPTION

1. DESCRIPTION OF SYSTEM

(a) A tire pressure warning antenna and receiver is equipped with a tire pressure sensor and a transmitter and is installed in each tire wheel. The sensor measures the tire pressure and internal temperature of the tire. Then the measured value and transmitter ID are transmitted to the tire pressure monitor receiver on the body as radio waves, which are sent to the tire pressure warning ECU. If the transmitter ID has already been registered, the ECU compares the measured air pressure value with the standard value. When the value is less than the standard value registered in the tire pressure warning ECU, the warning light in the combination meter turns on.



2. WHEN TIRE PRESSURE WARNING LIGHT IS LIT

(a) When the tire pressure warning light does not turn off, or when it turns on during driving, check the tire pressure. If the tire pressure warning light turns on within several hours after adjusting the tire pressure, the tire may have a slow air leak.

- (b) Under the following conditions, the system may not function properly;
 - Areas, facilities or devices that use similar radio frequencies are located in the vicinity of the vehicle.
 - Devices using similar radio frequencies are used in the vehicle.
 - Large amounts of snow or ice are stuck to the vehicle, especially on the wheels and around the wheel houses.
 - The battery of the transmitter is depleted.
 - Tires and wheels without tire pressure warning valves and transmitters are used.
 - Snow tires and tire chains are used.
 - If wheels other than the specified ones are used, the system may not function properly because different radio waves are transmitted from the tire pressure warning valve and transmitter.
 - Depending on the tire type, the tire pressure warning valve and transmitter may not function properly even though the specified wheels are used.
 - The system may not function properly if it is initialized with tire pressures which are not the specified values.
- (c) The average life of the grommet of the tire pressure warning antenna and receiver is approximately 5 years, at which time it must be replaced. Retighten the valve nut if the valve is leaking air, if it is less than 5 years old, and there is no problem with the grommets.
- (d) After removing and installing the ECU or a sensor, output a diagnosis code and check that it is a normal code.

3.	FUNCTION OF COMPONENTS

Components	Function	
Tire pressure warning antenna and receiver	 Combined as a single unit with a disc wheel air valve, it measures tire pressure and temperature, and transmits an ID number for measurement value and identification Battery is built into valve 	
Tire pressure warning antenna and receiver	Receives necessary signals from tire pressure warning antenna and receiver and transmits them to tire pressure warning ECU	
Tire pressure warning ECU	 Receives signal from receiver and identifies it as vehicle's own signal. If measurement value is equal to or lower than specified value, it transmits a signal so that the air pressure warning light on combination meter turns on. 	
Tire pressure warning light	Located in the combination meter, it informs driver of lowered tire air pressure and system failure	