PROBLEM SYMPTOMS TABLE

HINT:

- Use the table below to help determine the cause of the problem symptom. The potential causes of the symptoms are listed in order of probability in the "Suspected Area" column of the table. Check each symptom by checking the suspected areas in the order they are listed. Replace parts as necessary.
- Inspect the fuses and relays related to this system before inspecting the suspected areas below.

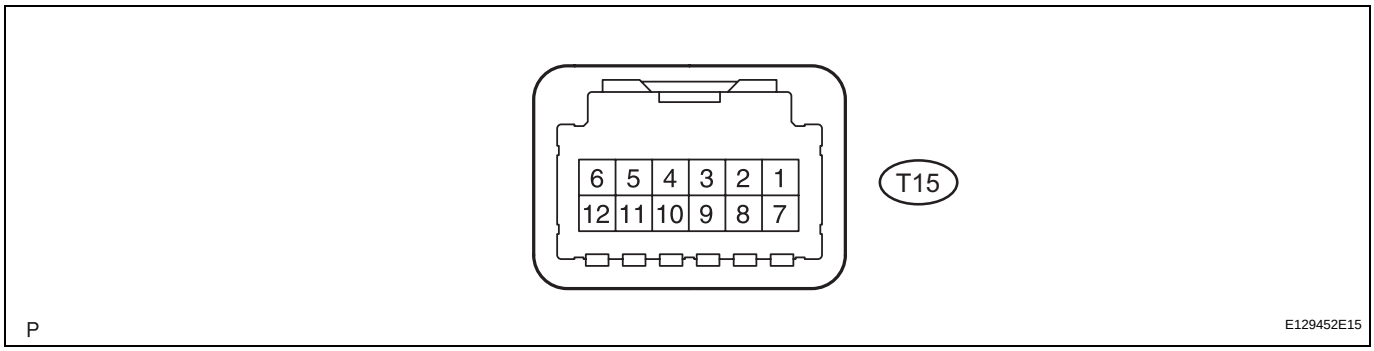
TIRE PRESSURE WARNING SYSTEM:

Symptom	Suspected Area	See page
Tire pressure warning light does not illuminate, despite tire pressure decreasing	Initialization	TW-23
	Check DATA LIST (Tire inflation pressure)	TW-35
	ID code check (Registration)	TW-20
Tire pressure warning light illuminated (Goes off during initial check)	ECU power source circuit	TW-77
	Tire pressure warning light circuit	TW-74
Tire pressure warning light illuminated (Comes on during initial check)	Check DATA LIST (Tire inflation pressure)	TW-35
	Tire pressure warning light circuit	TW-74
	ID code check (Registration)	TW-20
Initialization cannot be done	Tire pressure reset switch circuit	TW-72
DTC check cannot be done	ECU power source circuit	TW-77
	TC and CG terminal circuit	TW-79

TERMINALS OF ECU

1. CHECK TIRE PRESSURE WARNING ECU

HINT:
Inspect the connectors from the back side while the connectors are connected.



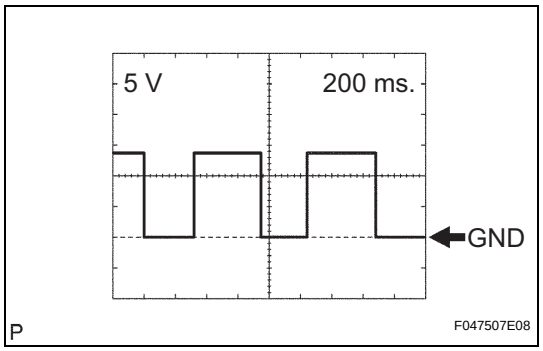
(a) Disconnect the tire pressure warning antenna and receiver connector.

(b) Measure the voltage according to the value(s) in the table below.

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
T15-1 (CLSW) - T15-9 (GND)	L-O - W-B	Tire pressure warning reset switch	• Ignition switch ON • Tire pressure warning reset switch on	8.5 to 15 V
T15-1 (CLSW) - T15-9 (GND)	L-O - W-B	Tire pressure warning reset switch	• Ignition switch ON • Tire pressure warning reset switch OFF	Below 1.5 V
T15-2 (SPD) - T15-9 (GND)	V-W - W-B	Vehicle speed signal	Vehicle is running	Pulse generation
T15-5 (IND) - T15-9 (GND)	GR-L - W-B	Tire pressure warning light output signal	• Ignition switch ON • Tire pressure warning light off	Below 0.5 V
T15-5 (IND) - T15-9 (GND)	GR-L - W-B	Tire pressure warning reset switch	After ignition switch is turned ON, tire pressure warning light illuminates for 3 seconds.	2.2 to 4.4 V
T15-6 (RF5V) - T15-9 (GND)	P-L - W-B	Tire pressure warning antenna and receiver power source	Ignition switch ON	11 to 14 V
T15-7 (IG) - T15-9 (GND)	B-R - W-B	IG power source	Ignition switch ON	11 to 14 V
T15-10 (SIL) - T15-9 (GND)	W - W-B	Diagnostic communication	Ignition switch ON	8 to 14 V
T15-11 (GND2) - T15-9 (GND)	P - W-B	Tire pressure warning antenna and receiver ground	Always	Below 1 Ω
T15-12 (RDA) - T15-9 (GND)	G-B - W-B	Tire pressure warning antenna and receiver signal	Ignition switch ON	11 to 14 V

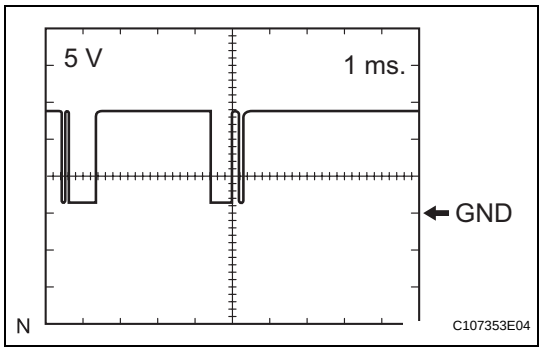
(c) Connect the tire pressure warning antenna and receiver connector.

(d) Measure the voltage and resistance according to the value(s) in the table below. If the result is not as specified, the ECU may have a malfunction.



(e) Using an oscilloscope, check the waveform 1.
(1) Waveform 1 (Reference)

Item	Contents
Terminal	SPD - GND
Tool setting	5 V/DIV, 200 ms./DIV.
Vehicle condition	While driving at approximately 12 mph (20 km/h)



(2) Waveform 2 (Reference)

Item	Contents
Terminal	SIL - Body ground
Tool setting	5 V/DIV., 1 ms./DIV.
Vehicle condition	Communicating using intelligent tester