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.

TF

Active torque control 4WD system

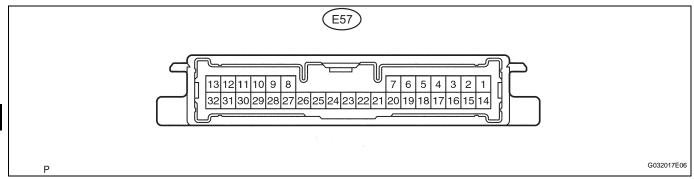
Symptom	Suspected area	See page
Phenomenon of tight-corner braking*	1.Steering angle sensor circuit	TF-27
	2.Linear solenoid circuit	TF-30
	3.4WD control ECU	
4WD indicator light remains ON	4WD indicator light circuit	TF-36
4WD indicator light does not come ON	4WD indicator light circuit	TF-40
The system is in the DTC output mode although terminals TC and CG of the DLC3 are not short circuited	1.TC and CG terminal circuit	TF-42
	2.4WD indicator light circuit	
The system is not in the DTC output mode although terminals TC and CG of the DLC3 are not short circuited	1.TC and CG terminal circuit	TF-42
	2.4WD indicator light circuit	

HINT:

*:When driving 4WD mode, the vehicle is hard to turn, as if the brakes were applied, due to the rotational difference between the front and rear tires while turning.

TERMINALS OF ECU

1. CHECK 4WD CONTROL ECU



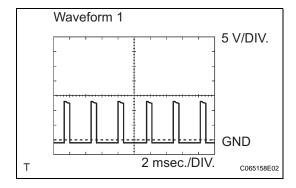
(a) Measure the voltage and resistance of the connector.

Symbols (Terminal No.)	Wiring Color	Terminal Description	Condition	Specified Condition
CANH (E57-14) - CANL (E57-16)	P - W	CAN communication	Ignition switch OFF	54 to 69 Ω
GND (E57-23) - Body ground	W-B - Body ground	Ground	Always	Below 1 Ω
4WDL (E57-7) - Body ground	R - W-B	Ground	4WD lock mode switch ON	Below 1 Ω
IG1 (E57-11) - GND (E57- 23)	L - W-B	Power source voltage	Ignition switch ON	10 to 14 V
SLC+ (E57-13) - SLC- (E57-32)	W - B	4WD linear solenoid signal	Ignition switch ON	Pulse generation (See waveform 1)
BSLC (E57-9) - GND (E57-23)	R - W-B	Power source voltage	Ignition switch ON	10 to 14 V

If the result is not as specified, the 4WD control ECU may have a malfunction.

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

Symbols (Terminal No.)	Content	
Tool setting	5 V/DIV., 2 msec. / DIV.	
Vehicle condition	Engine stop, ignition switch ON	



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