TD

HOW TO PROCEED WITH TROUBLESHOOTING

HINT:
Troubleshoot in accordance with the procedures.

1	VEHICLE BROUGHT TO WORKSHOP

NEXT

2	CUSTOMER PROBLEM ANALYSIS CHECK AND SYMPTOM CHECK

(a) Interview the customer to confirm the trouble (See page IN-33).

NEXT

3	PROBLEM SYMPTOM TABLE

(a) If the fault is not listed on the problem symptoms table, proceed to A.
(b) If the fault is listed on the problem symptoms table, proceed to B.

B → **Go to step 5**

A

4	CIRCUIT INSPECTION AND PART INSPECTION

NEXT

5	PERFORM TROUBLESHOOTING IN THE FOLLOWING METHOD, DEPENDING ON MALFUNCTION SYMPTOM

(a) Terminals of ECU (See page TD-13)

6	ADJUSTMENT, REPAIR OR REPLACEMENT

NEXT

7	CONFIRMATION TEST

NEXT

END

PROBLEM SYMPTOMS TABLE

Proceed to the reference page shown in the table below for each malfunction symptom and troubleshoot each circuit.
HINT:
Troubleshooting of the TVIP system is based on the premise that the door lock control system and wireless door lock control system are operating normally. Accordingly, before troubleshooting the TVIP system, first make certain that the door lock control system and wireless door lock control system are operating normally.

TOYOTA VEHICLE INTRUSION PROTECTION SYSTEM:

Symptom	Suspected area	See page
TVIP system cannot be set.	1. Security Indicator Light Circuit	TD-24
	2. ECU Power Source Circuit	TD-49
	3. Unlock Warning Switch Circuit	TD-52
	4. Door Key Lock / Unlock Switch Circuit	TD-46
	5. Door Unlock Detection Switch Circuit	TD-41
	6. Door Courtesy Switch Circuit	TD-36
	7. TVIP ECU Communication Circuit	TD-26
Security indicator does not blink when TVIP system is set.	Security Indicator Light Circuit	TD-24
TVIP system does not operate when front door is unlocked (when TVIP system is set).	Door Unlock Detection Switch Circuit	TD-41
TVIP system is not canceled when ignition switch is turned ON (when TVIP system is set).	1. Ignition Switch Circuit	TD-21
	2. Unlock Warning Switch Circuit	TD-52
TVIP system still operates when door is opened with key (when TVIP system is set).	1. Door Key Lock / Unlock Switch Circuit	TD-46
	2. Door Unlock Detection Switch Circuit	TD-41
Horns do not sound while TVIP system is in warning operation.	Horn Circuit	TD-17
Headlights do not flash while TVIP system is in warning operation.	Light Control Switch Circuit	TD-34
Hazard warning lights do not flash while TVIP system is in warning operation.	Hazard Warning Switch Circuit	TD-31
Door is not locked while TVIP system is in warning operation.	Door Unlock Detection Switch Circuit	TD-41
TVIP system is still set even when rear door is open.	Door Courtesy Switch Circuit	TD-36
Horns sound even when TVIP system is not set.	Horn Circuit	TD-17
Headlights stay on even when TVIP system is not set.	Light Control Switch Circuit	TD-34
Hazard warning lights stay on even when TVIP system is not set.	Hazard Warning Switch Circuit	TD-31