DIAV6-01

ATF Temperature Sensor No.2 Circuit

CIRCUIT DESCRIPTION

ATF[]emperature[sensor[No.2]]s[on[]he[]ransmission[and[]ust[before[]he[oil[cooler[]nlet[]pipeline.

If Engine and ECT ECU detects the abnormally high emperature of ATF by this sensor, the abnormally high emperature of ATF by this sensor, the abnormally high emperature of ATF by this sensor, the abnormally high emperature of ATF by this sensor, the abnormally high emperature of ATF by this sensor, the abnormally high emperature of ATF by this sensor, the abnormally high emperature of ATF by this sensor, the abnormally high emperature of ATF by this sensor, the abnormally high emperature of ATF by this sensor, the abnormally high emperature of ATF by this sensor, the abnormally high emperature of ATF by this sensor, the abnormal high emperature of ATF by this sensor, the abnormal high emperature of ATF by this sensor, the abnormal high emperature of ATF by this sensor, the abnormal high emperature of ATF by this sensor, the abnormal high emperature of ATF by the ATF b

HINT:

- The perature of ATF easily raises when being, climbing hills and nstack, etc.
- If[the[ATF[temperature[sensor[No.2[shorts,[the[signal[that[indicates[the[ATF[temperature[s 150°C (302°F)]br[higher[sinput[in]Engine[and]ECT]ECU.

Vehicle@onditions@when@ensor@s@n@normal@nd@when@he@ehicle@s@n@short@re@ndicated@n@he@able below.

ATF[]emperature[]No.2[]Sensor State	Detection Condition	Symptom	Recovery[Condition
Sensor[]s[]hormal	• AT fluid emp. more than 150°C (302°E).	AT[Dil[Temp.[warning[]ight[]e-mains[]on	•AT[fluid[temp.[tess[than 135°C (275°E).[*]1
	• AT fluid emp. more han 130°C (266°E).	•Shift[point[]oo[]high.	•AT[fluid[femp.[less[fhan 110]°C (230°E).
Sensor[]s[]n[]short	•∕Any[conditions.	AT[Dil[Temp.[warning[light[le-mains[]]]]) Shift[point[]]] Shift[][] AT[Dil[Temp.[]]] AT[Dil[Temp.[]]]] AT[Dil[Temp.[]]]]	•Symptoms[₃till[occur

HINT:

WIRING DIAGRAM

SeepageDI-37.

INSPECTION PROCEDURE

1	Check A/T oil warning light.
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CHECK:

When parking the vehicle with the shift lever in P or N range, check that the AT oil warning light goes off within 5 minutes.

OK:

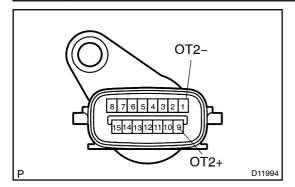
AT oil warning light goes off



NG

^{*1:} When AT fluid temperature is in normal range, it decreases to less than 135°C within 5 minutes with the shift lever in P or N range in a idling state.

2 Check transmission wire.



PREPARATION:

Disconnect the transmission wire connector from the transmission.

CHECK:

Measure resistance between terminals OT2+ and OT2- of the transmission wire connector and body ground.

OK:

Resistance: 1 M Ω or higher

ture sensor).

CHECK:

Measure the resistance between terminals OT2+ and OT2-.

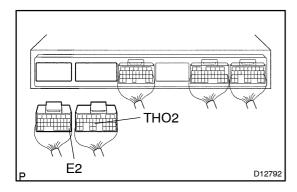
OK:

Temperature: °C (°F)	Resistance: kΩ
10 (50)	6.4
110 (230)	0.2

NG Replace the transmission wire (ATF tempera-

OK

3∏



PREPARATION:

- (a) Connect the transmission wire connector.
- (b) Disconnect the connector of the Engine and ECT ECU.

CHECK:

 $Measure \cite{Thomassimple} Measure \cite{Thomassimple} HO2 \cite{Thomassimple} and \cite{Thomassimple} E2.$

<u>OK:</u>

Temperature:[C (°E)	Resistance:[kᡚ	
10[[50]	6.4	
110[[230]	0.2	

CHECK:

OK:

Resistance: 1 MΩ or higher



Repair or replace the harness or connector (See page N-38).

OK

Proceed to next circuit inspection shown on problem symptoms table (See page DI-26).