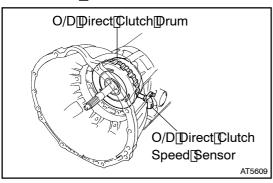
DI2LA-0

DTC

P0715

Input/Turbine Speed Sensor Circuit Malfunction O/D Direct Clutch Speed Sensor)

CIRCUIT DESCRIPTION

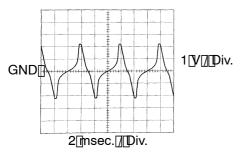


This sensor detects the rotation speed of the O/D input shaft from the rotation of the O/D direct dutch drum.

Its $\$ on struction $\$ is the same as that $\$ fine $\$ end sensor (See $\$ page $\$ II-299).

By comparing the O/D direct clutch speed signal and vehicle speed sensor signal, the Engine ECT ECU detects the shift timing of the gears and appropriately controls the engine to rque and by draulic pressure of esponse to various conditions, thus doing mooth gear that.

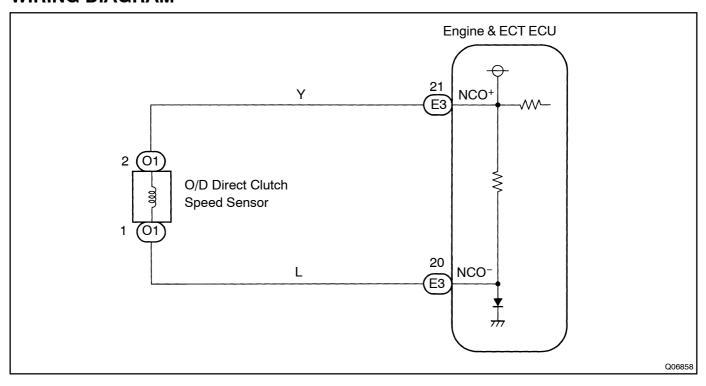
DTC[No.	DTC[Detection[Condition	Trouble _ Area
P0715	All@onditions@elow@redetectedfors@ecs.@rfmore (2-trip@etectionflogic) (a)@ear@hangeflotfbeingflerformed (b)@earfloosition:flest.pnd@rdfth (c)ff/Mflootswatefflem:flest.gndfles	Open@r\hort\n\D\D\direct\pulter\hort\n\peed\hort\n\cdot\rect\rect\rect\rect\rect\rect\rect\rec



Refer to the chart for the wave form between terminals NCO+ and NCO- during engine idling.

AT8763

WIRING DIAGRAM



INSPECTION PROCEDURE

HINT:

1

In case of using the hand-held tester, start the inspection from step 1 and in case of not using the hand-held tester, start from step 2.

Using hand-held tester, check O/D direct clutch speed signal.

PREPARATION:

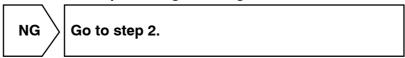
- (a) Remove the DLC3 cover.
- (b) Connect a hand-held tester to the DLC3.
- (c) Start the engine (Shift range: P).
- (d) Turn the hand-held tester main switch ON.

CHECK:

Read O/D direct clutch speed at engine idling.

OK:

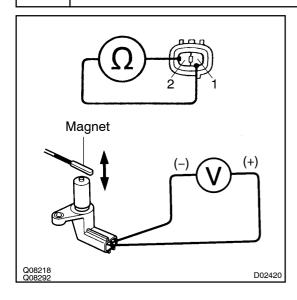
750 ± 50 rpm at engine idling



OK

Proceed@omextcircuit@nspectionshown@nproblemsymptoms@able@seepage@l-294).[However, when DTC P0715/67 is displayed, check and replace Engine & ECT ECU (see page N-30).

2 Check O/D direct clutch speed sensor.



PREPARATION:

Remove the O/D direct clutch speed sensor from the transmission.

CHECK:

- (a) Measure resistance between terminals 1 and 2 of O/D direct clutch speed sensor.
- (b) Check voltage between terminals 1 and 2 of the speed sensor when a magnet is put close to the front end of the speed sensor then kept away quickly.

<u>OK:</u>

- (a): Voltage is generated intermittently
- (b): Resistance: 560 680 Ω 20 °C (68 °F)

HINT:

The generated voltage is extremely low.

NG

Replace the O/D direct clutch speed sensor.



Check and repair harness and connector between Engine & ECT ECU and O/D direct clutch[speed[sensor](See[page][N-30).