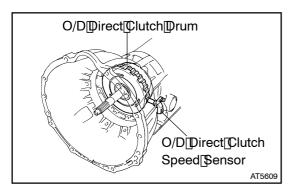
**DTC** 

# P0715/67 Input/Turbine Speed Sensor Circuit Malfunction[O/D[Direct|Clutch|Speed|Sensor)

# **CIRCUIT** DESCRIPTION

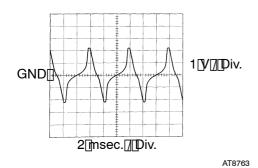


This[sensor[detects[the[rotation[speed[of[the[O/D[]nput[shaft] from the rotation of the D/D direct clutch drum.

 $Its \verb|[c] on struction | \verb|[] struction | s$ (SeepageDI-166).

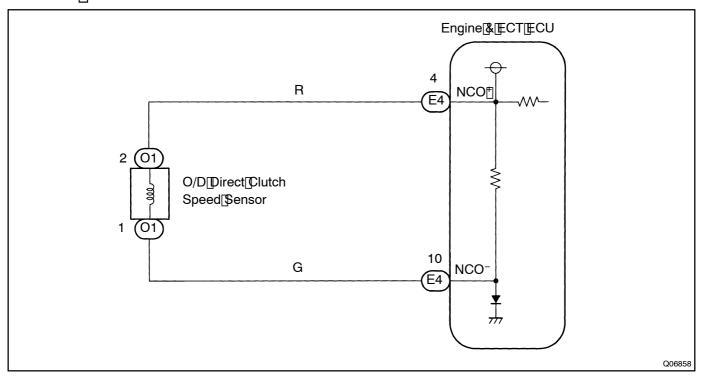
By comparing the DD direct clutch speed signal and vehicle speed[\$ensor[\$ignal,[the[Engine[&[ECT[ECU[detects[the[\$hift timing@ffthe@ears@and@ppropriately@ontrols[the@engineftorque and hydraulic pressure in response to various conditions, thus doing \$mooth gear \$hift.

DTC[No.	DTC[Detection Condition	Trouble[Area
P0715/67	All@onditions@elow@are@etected@or\$\$ecs.@r@nore (2-trip@etection@ogic) (a)@ear@hange@ot@eing@erformed (b)@ear@osition:@st,@nd@rd@rdth (c)@f/M@nput@shaft@pm:@300@pm@r@ess (d)@f/M@utput@shaft@pm:@,000@pm@r@nore (e)@Neutral@start@switch:@FF (f)@No.1,@No.2,@No.3,@No.4,@SLU@solenoid@alves@and@ehicle speed@ensor@are@n@normal@peration	Open@r\hort\n\D\D\direct\partitet\hort\n\perped\hort\n\rightarrow O/D direct clutch speed sensor Engine & ECT ECU Automatic transmission assembly



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

## WIRING DIAGRAM



# INSPECTION PROCEDURE

#### HINT:

1□

 $In \cite{Constant} in \cite{Co$ 

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

## **PREPARATION:**

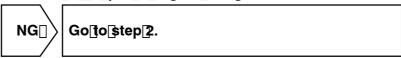
- (a) Remove the DLC3 cover.
- (b) Connectathand-heldtestertothetDLC3.
- (c) Start he engine Shift ange: P).
- (d) Turn the hand-held tester main witch ON.

## CHECK:

Read O/D direct clutch speed at engine dling.

## OK:

## 700 ± 50 rpm at engine idling

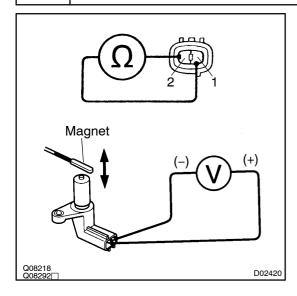


ОК

 $\label{lem:symptoms} Proceed \cite{Constant} in problem \cite{Constant} i$ 

## 2∏

## Check O/D direct clutch speed sensor.



## PREPARATION:

Remove[the[0]/D[direct[clutch[speed[sensor[from[the[transmission.

## **CHECK:**

- (a) Measure resistance between terminals and red for Dodirect clutch speed sensor.
- (b) Check[voltage[between[terminals]] [and[2]bf[the[speed sensor[when]a[magnet[]s[but[close[]o[]the[]ront[end[]off]]the speed[sensor[]then[kept[]away[quickly.]

## <u>OK:</u>

- (a):[Voltage[]s[generated[]ntermittently
- (b):[Resistance:[560[-680[Ω[20[ C[68[ F)

### HINT:

The generated voltage is extremely low.



Replace the O/D direct clutch speed sensor.



Checkandrepair harness and connector between Engine & ECT ECU and O/D direct clutch speed sensor (See page N-29).