TOUCH SELECT 2-4 AND HIGH-LOW SYSTEM, Diagnostic DTC:P17A0

DTC Code	DTC Name
P17A0	Automatic Disconnecting Differential Motor Control Circuit Open

DESCRIPTION

This DTC is output when an open circuit in the A.D.D. shift motor drive circuit is detected.

DTC No.	Detection Item	DTC Detection Condition	Trouble Area
P17A0	Automatic Disconnecting Differential Motor Control Circuit Open	• Diagnosis Condition: While switching between H2 and H4 (A.D.D. shift motor operating) with the ignition switch turned to ON • Malfunction Status: Open circuit in the A.D.D. shift motor drive circuit • Malfunction Time: 0.03 seconds or more • Other: 1 trip detection logic	• Wire harness and connector • 4 wheel drive control ECU • A.D.D. actuator (differential motor actuator assembly)

WIRING DIAGRAM

Refer to DTC P17A9.

Click here

PROCEDURE

1. **CHECK HARNESS AND CONNECTOR (4 WHEEL DRIVE CONTROL ECU - DIFFERENTIAL MOTOR ACTUATOR ASSEMBLY)**

   a. Disconnect the C40 4 wheel drive control ECU connector.

   b. Disconnect the C7 A.D.D. actuator (differential motor actuator assembly) connector.

   c. Measure the resistance according to the value(s) in the table below.

   Standard Resistance

Tester Connection	Condition	Specified Condition
C40-2 (DM1) - C7-1 (DM1)	Always	Below 1 Ω
C40-6 (DM2) - C7-2 (DM2)	Always	Below 1 Ω

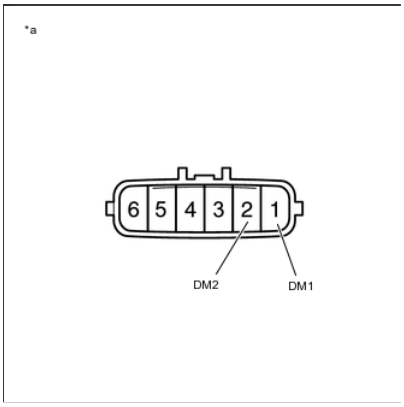
Result

Proceed to
OK
NG

NG → **REPAIR OR REPLACE HARNESS OR CONNECTOR**

OK

2. **INSPECT DIFFERENTIAL MOTOR ACTUATOR ASSEMBLY (A.D.D. SHIFT MOTOR)**



*a	Component without harness connected (A.D.D. Actuator (Differential Motor Actuator Assembly))

a. Disconnect the C7 A.D.D. actuator (differential motor actuator assembly) connector.

b. Measure the resistance according to the value(s) in the table below.

Standard Resistance

Tester Connection	Condition	Specified Condition
1 (DM1) - 2 (DM2)	Always	1.5 to 10 Ω

Result

Proceed to
OK

Proceed to
NG

OK	**REPLACE 4 WHEEL DRIVE CONTROL ECU** Click here Click here Click here
NG	**REPLACE DIFFERENTIAL MOTOR ACTUATOR ASSEMBLY** Click here