P1740 SELECT SOLENOID

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[CVT: RE0F10A]

< DTC/CIRCUIT DIAGNOSIS >

P1740 SELECT SOLENOID

Description

 The lock-up select solenoid valve controls lock-up clutch pressure or forward clutch pressure (reverse brake pressure).

• When controlling lock-up clutch, the valve is turned OFF. When controlling forward clutch, it is turned ON.

DTC Logic (INFOID:0000000008277974 (

DTC DETECTION LOGIC

DTC	Trouble diagnosis name	DTC is detected if	Possible cause
P1740	Lock-up Select Solenoid Valve Circuit	 Normal voltage is not applied to solenoid due to cut line, short, etc. TCM detects as irregular by comparing target value with monitor value. 	Harness or connectors (Solenoid circuit is open or shorted.) Lock-up select solenoid valve

DTC CONFIRMATION PROCEDURE

CAUTION:

Always drive vehicle at a safe speed.

NOTE:

Immediately after performing any "DTC CONFIRMATION PROCEDURE", always turn ignition switch OFF. Then wait at least 10 seconds before performing the next test.

1. CHECK DTC DETECTION

(P)With CONSULT

- 1. Turn ignition switch ON.
- Select "Data Monitor" in "TRANSMISSION".
- Start engine and maintain the following conditions for at least 5 consecutive seconds.

RANGE : "D", "N" and "L"* positions

(At each time, wait for 5 seconds.)

*: Without manual mode

Follow the procedure "With CONSULT".

Is "P1740" detected?

YES >> Go to TM-107, "Diagnosis Procedure".

NO >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

Diagnosis Procedure

1. CHECK LOCK-UP SELECT SOLENOID VALVE

- Turn ignition switch OFF.
- Disconnect CVT unit connector.
- Check resistance between CVT unit connector terminal and ground.

CVT unit		Ground	Condition	Resistance		
	Connector	Terminal	Giodila	Condition	Resistance	
			CVT fluid temperature: 20°C (68°F)	Approx. 26.0 – 30.0 kΩ		
	F205	13	Ground	CVT fluid temperature: 50°C (122°F)	Approx. 29.0 – 34.0 kΩ	
			CVT fluid temperature: 80°C (176°F)	Approx. 32.0 – 37.0 kΩ		

Is the inspection result normal?

YES >> GO TO 2. NO >> GO TO 4.

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TM-107

P1740 SELECT SOLENOID



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< DTC/CIRCUIT DIAGNOSIS >

2.CHECK CIRCUIT BETWEEN TCM AND CVT UNIT (LOCK-UP SELECT SOLENOID VALVE) (PART 1)

1. Disconnect TCM connector.

2. Check continuity between TCM harness connector terminal and CVT unit harness connector terminal.

TCM		CVT unit		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
F25	37	F24	13	Existed	

Is the inspection result normal?

YES >> GO TO 3.

NO >> Repair or replace damaged parts.

 ${f 3.}$ CHECK CIRCUIT BETWEEN TCM AND CVT UNIT (LOCK-UP SELECT SOLENOID VALVE) (PART 2)

Check continuity between TCM harness connector terminal and ground.

TO	CM	Ground	Continuity	
Connector	Terminal		Continuity	
F25	37	Ground	Not existed	

Is the inspection result normal?

YES >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

NO >> Repair or replace damaged parts.

4. CHECK TERMINAL CORD ASSEMBLY (PART 1)

Remove terminal cord assembly. Refer to <u>TM-186, "Exploded View"</u>.

Check continuity between CVT unit harness connector terminal and control valve harness connector terminal.

CVT unit		Control valve		Continuity	
Connector	Terminal	Connector	Terminal	Continuity	
F205	13	F207	11	Existed	

Is the inspection result normal?

YES >> GO TO 5.

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NO >> Repair or replace damaged parts.

5.CHECK TERMINAL CORD ASSEMBLY (PART 2)

Check terminal cord assembly harness cladding for damage.

Is the inspection result normal?

YES >> Replace the transaxle assembly. Refer to <u>TM-211, "2WD : Removal and Installation"</u> (2WD), <u>TM-215, "AWD : Removal and Installation"</u> (AWD).

NO >> Repair or replace damaged parts.

P1745 LINE PRESSURE CONTROL

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INFOID:0000000008277978

[CVT: RE0F10A]

< DTC/CIRCUIT DIAGNOSIS >

P1745 LINE PRESSURE CONTROL

Description INFOID:0000000008277976

The line pressure solenoid valve regulates the oil pump discharge pressure to suit the driving condition in response to a signal sent from the TCM.

DTC Logic

DTC DETECTION LOGIC

DTC	Trouble diagnosis name	DTC is detected if	Possible cause
P1745	Line Pressure Control Circuit	TCM detects the unexpected line pressure.	TCM

DTC CONFIRMATION PROCEDURE

NOTE:

Immediately after performing any "DTC CONFIRMATION PROCEDURE", always turn ignition switch OFF. Then wait at least 10 seconds before performing the next test.

1. CHECK DTC DETECTION

With CONSULT

- 1. Turn ignition switch ON
- 2. Select "Data Monitor" in "TRANSMISSION".
- 3. Make sure that output voltage of CVT fluid temperature sensor is within the range below.

ATF TEMP SEN : 1.0 - 2.0 V

If out of range, drive the vehicle to decrease the voltage (warm up the fluid) or stop engine to increase the voltage (cool down the fluid)

Is "P1745" detected?

YES >> Go to TM-109, "Diagnosis Procedure".

NO >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

Diagnosis Procedure

1. CHECK DTC

(P)With CONSULT

1. Start engine.

Perform "Self Diagnostic Results" in "TRANSMISSION".

Is "P1745" detected?

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YES >> Replace TCM. Refer to TM-175, "Exploded View".

NO >> Check intermittent incident. Refer to GI-46, "Intermittent Incident".

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