Last Modified: 12-04-2024	6.11:8.1.0	**Doc ID:** RM100000002AQOU
Model Year Start: 2023	**Model:** Prius Prime	**Prod Date Range:** [03/2023 -]
Title: HEATING / AIR CONDITIONING: AIR CONDITIONING SYSTEM (for PHEV Model): P0EE312; A/C High Pressure Magnetic Valve Circuit Short to Battery; 2023 - 2024 MY Prius Prime [03/2023 -]		

DTC	**P0EE312**	**A/C High Pressure Magnetic Valve Circuit Short to Battery**

DESCRIPTION

The high pressure magnetic valve (No. 2 magnet valve assembly) is installed to the accumulator assembly.

The high pressure magnetic valve (No. 2 magnet valve assembly) is open when the ignition switch is turned off.

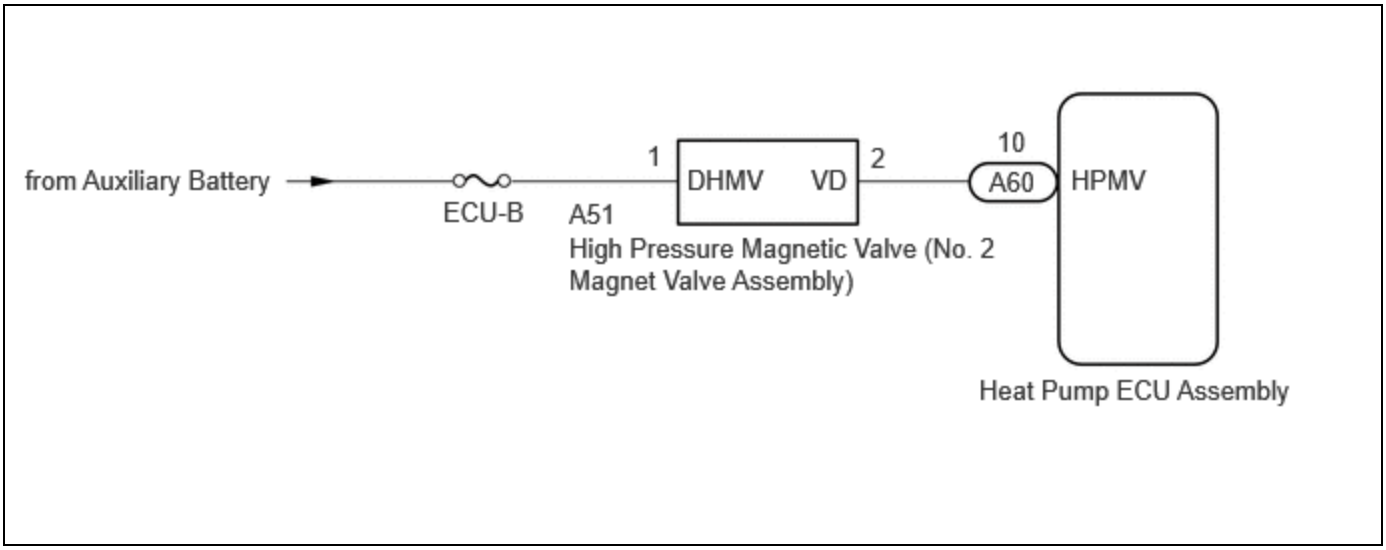
When the ignition switch is turned to ON, the high pressure magnetic valve (No. 2 magnet valve assembly) opens and closes according to heat pump air conditioning control.

When heat pump air conditioning control is performing cooling/serial dehumidification heating/cooling battery cooling/single battery cooling/heating/defrosting, the high pressure magnetic valve (No. 2 magnet valve assembly) is closed according to signals from the heat pump ECU assembly.

When heat pump air conditioning control is performing parallel dehumidification heating, the high pressure magnetic valve (No. 2 magnet valve assembly) is open.

DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	MIL	MEMORY	DTC OUTPUT FROM	PRIORITY	NOTE
P0EE312	A/C High Pressure Magnetic Valve Circuit Short to Battery	Diagnosis condition: High pressure magnetic valve (No. 2 magnet valve assembly) operating Malfunction status: Short to +B in high pressure magnetic valve (No. 2 magnet valve assembly) circuit Detection time: Continuously for 4 seconds or more	• Heat pump ECU assembly • Harness or connector	Does not come on	Memorized	Air Conditioner	A	-

WIRING DIAGRAM



PROCEDURE

1.	**CHECK HARNESS AND CONNECTOR (HIGH PRESSURE MAGNETIC VALVE (NO. 2 MAGNET VALVE ASSEMBLY) - HEAT PUMP ECU ASSEMBLY)**

Pre-procedure1

(a) Disconnect the A51 high pressure magnetic valve (No. 2 magnet valve assembly) connector

(b) Disconnect the A60 heat pump ECU assembly connector.

Procedure1

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

Standard Voltage:

EWD INFO

Click Location & Routing(A51,A60)
Click Connector(A51)
Click Connector(A60)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A51-2 (VD) or A60-10 (HPMV) - Body ground	Always	Below 1 V	V

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

Standard Resistance:

EWD INFO

Click Location & Routing(A51,A60)
Click Connector(A51)
Click Connector(A60)

TESTER CONNECTION	CONDITION	SPECIFIED CONDITION	RESULT
A51-2 (VD) or A60-10 (HPMV) - Other terminals and body ground	Always	10 kΩ or higher	kΩ

Post-procedure1

(e) None

OK ▶ **REPLACE HEAT PUMP ECU ASSEMBLY**

NG ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**