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Model Year Start: 2023	Model: Prius Prime	Prod Date Range: [03/2023 -]
Title: HYBRID / BATTERY CONTROL: MOTOR GENERATOR CONTROL SYSTEM (for PHEV Model): P0A9000; Drive Motor "A" Performance; 2023 - 2024 MY Prius Prime [03/2023 -]		

DTC	P0A9000	Drive Motor "A" Performance
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DTC SUMMARY

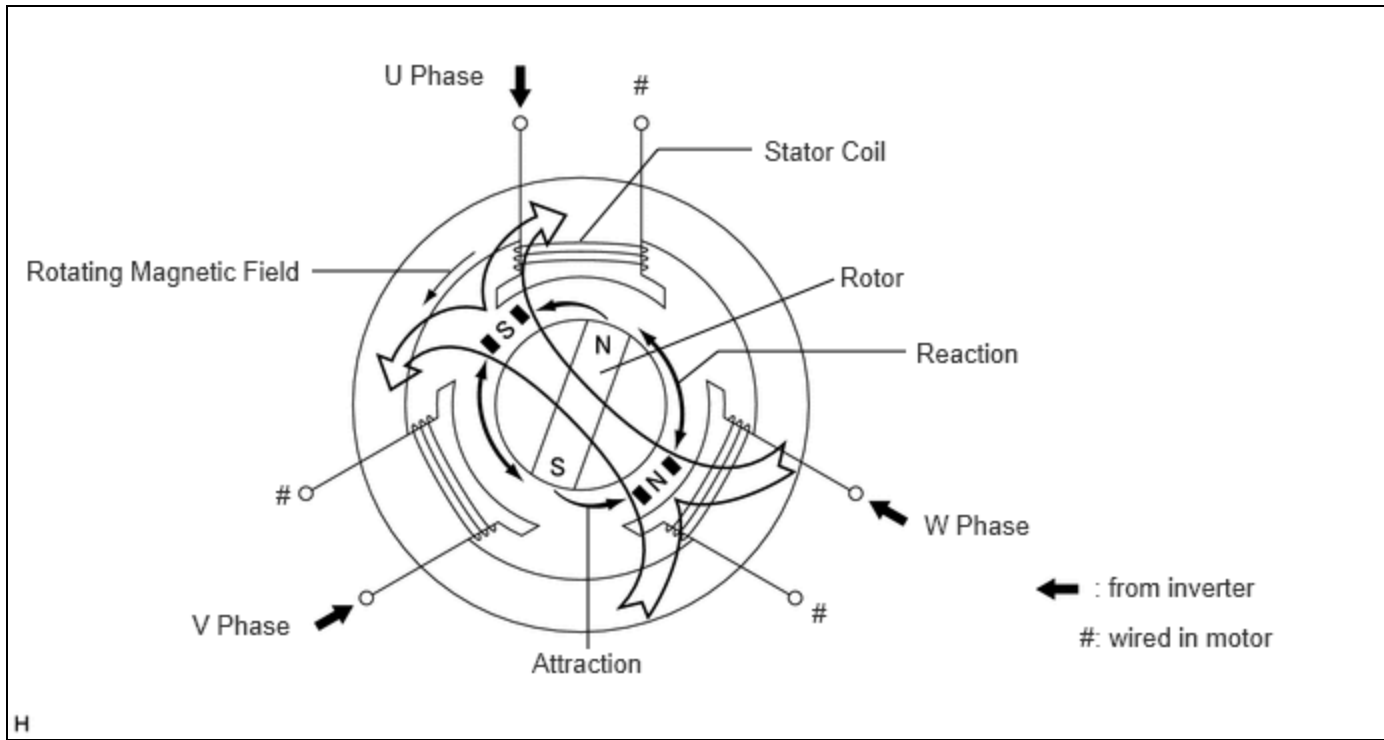
MALFUNCTION DESCRIPTION

This DTC indicates that magnetic force deterioration of the permanent magnet located in the rotor inside the motor (MG2) has been detected. The cause of this malfunction may be one of the following:

AREA	MAIN MALFUNCTION DESCRIPTION
Inverter	Inverter with converter assembly internal circuit malfunction
Hybrid vehicle transaxle assembly	<ul style="list-style-type: none"> • Motor (MG2) malfunction (entry of foreign matter, etc.) • Motor (MG2) permanent magnet magnetic force deterioration • Open or short circuit in the motor coils
Inverter low-voltage circuit	The connectors are not connected properly
Motor cable (for MG2)	<ul style="list-style-type: none"> • Defective motor cable (for MG2) connection condition • Open circuit or poor insulation in motor cable (for MG2)
Hybrid vehicle control ECU	Hybrid vehicle control ECU internal circuit malfunction

DESCRIPTION

When three-phase alternating current flows through the three-phase windings of the stator coil, a rotating magnetic field is generated in the motor (MG2). The system controls the rotation of the magnetic field in accordance with the rotating position and speed of the rotor. As a result, the permanent magnets provided in the rotor are pulled in the direction of rotation, generating torque. The generated torque is almost proportional to the amount of current. The system controls motor speed by regulating the frequency of the alternating current. Furthermore, the system properly controls the rotating magnetic field and the angle of the rotor magnets in order to generate high torque in an efficient manner, even at high speeds.



DTC NO.	DETECTION ITEM	DTC DETECTION CONDITION	TROUBLE AREA	MIL	WARNING INDICATE	DTC OUTPUT FROM	PRIORITY	NOTE
P0A9000	Drive Motor "A" Performance	Motor magnetic force deterioration: Decrease in the magnetic force of the motor (MG2) is detected. (1 trip detection logic)	<ul style="list-style-type: none"> Hybrid vehicle transaxle assembly Motor cable Inverter with converter assembly Wire harness or connector Hybrid vehicle control ECU 	Comes on	Master Warning: Comes on	Motor Generator	A	SAE Code: P0A90

MONITOR DESCRIPTION

The motor generator control ECU monitors the motor. If the motor generator control ECU detects a reduction in the magnetic force of the motor, it interprets this as a motor malfunction and the ECU will illuminate the MIL and store a DTC.

MONITOR STRATEGY

Related DTCs	P0A90 (INF P0A9000): Degauss / Same phase short circuit
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Required sensors/components	Motor (MG2), inverter, motor resolver
Frequency of operation	Continuous
Duration	TMC's intellectual property
MIL operation	1 driving cycle
Sequence of operation	None

TYPICAL ENABLING CONDITIONS

The monitor will run whenever the following DTCs are not stored	TMC's intellectual property
Other conditions belong to TMC's intellectual property	-

TYPICAL MALFUNCTION THRESHOLDS

TMC's intellectual property	-
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COMPONENT OPERATING RANGE

Motor generator control ECU	P0A90 (INF P0A9000) is not detected
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CONFIRMATION DRIVING PATTERN

HINT:

- After repair has been completed, clear the DTC and then check that the vehicle has returned to normal by performing the following All Readiness check procedure.

[Click here](#) INFO

- When clearing the permanent DTCs, refer to the "CLEAR PERMANENT DTC" procedure.

[Click here](#) INFO

- Clear the DTCs (even if no DTCs are stored, perform the clear DTC procedure).
- Turn the ignition switch off and wait for 2 minutes or more.
- Turn the ignition switch to ON (READY). [*1]
- Drive the vehicle until the cumulative traveling time driving at a vehicle speed of 40 km/h (25 mph) or more is a few minutes. (It is not necessary to drive continuously at 40 km/h (25 mph) or more.) [*2]

HINT:

[*1] to [*2]: Normal judgment procedure.

The normal judgment procedure is used to complete DTC judgment and also used when clearing permanent DTCs.

- Enter the following menus: Powertrain / Motor Generator / Utility / All Readiness.
- Check the DTC judgment result.

HINT:

- If the judgment result shows NORMAL, the system is normal.
- If the judgment result shows ABNORMAL, the system has a malfunction.
- If the judgment result shows INCOMPLETE, perform the normal judgment procedure again.

WIRING DIAGRAM

Refer to the wiring diagram for the Motor High-voltage Circuit.

Click here [INFO](#)

Refer to the wiring diagram for the Shut Down Signal Circuit.

Click here [INFO](#)

CAUTION / NOTICE / HINT

CAUTION:

Refer to the precautions before inspecting high voltage circuit.

Click here [INFO](#)

NOTICE:

- After the ignition switch is turned off, there may be a waiting time before disconnecting the negative (-) auxiliary battery terminal.

Click here [INFO](#)

- When disconnecting and reconnecting the auxiliary battery.

HINT:

When disconnecting and reconnecting the auxiliary battery, there is an automatic learning function that completes learning when the respective system is used.

Click here [INFO](#)

HINT:

P0A9000 may be output as a result of the malfunction indicated by the DTCs in table below.

- The chart above is listed in inspection order of priority.
- Check DTCs that are output at the same time by following the listed order. (The main cause of the malfunction can be determined without performing unnecessary inspections.)

Table 1

MALFUNCTION CONTENT	SYSTEM	RELEVANT DTC	
Insulation malfunction	Hybrid control system	P1C7C49	Hybrid/EV Battery Voltage System Isolation (A/C Area) Internal Electronic Failure
		P1C7D49	Hybrid/EV Battery Voltage System Isolation (Hybrid/EV Battery Area) Internal Electronic Failure
		P1C7E49	Hybrid/EV Battery Voltage System Isolation (Transaxle Area) Internal Electronic Failure
		P1C7F49	Hybrid/EV Battery Voltage System Isolation (Direct Current Area) Internal Electronic Failure
		P1C8049	Hybrid/EV Battery Voltage System Isolation (Rear Motor Area) Internal Electronic Failure
System main relay or high voltage circuit malfunction	Hybrid control system	P0AD911	Hybrid/EV Battery Positive Contactor Circuit Short to Ground
		P0AD915	Hybrid/EV Battery Positive Contactor Circuit Short to Auxiliary Battery or Open
		P0ADD11	Hybrid/EV Battery Negative Contactor Circuit Short to Ground

MALFUNCTION CONTENT	SYSTEM	RELEVANT DTC	
		P0ADD15	Hybrid/EV Battery Negative Contactor Circuit Short to Auxiliary Battery or Open
		P1C8449	High Voltage Power Resource Circuit Short during Ready ON

Table 2

MALFUNCTION CONTENT	SYSTEM	RELEVANT DTC	
Microcomputer malfunction	Motor generator control system	P0A1A47	Generator Control Module Watchdog / Safety MC Failure
		P0A1A49	Generator Control Module Internal Electronic Failure
		P0A1B1F	Generator Control Module Circuit Intermittent
		P0A1B47	Drive Motor "A" Control Module Watchdog / Safety MC Failure
		P0A1C49	Drive Motor "B" Control Module Internal Electronic Failure
		P1C2A1C	Generator A/D Converter Circuit Circuit Voltage Out of Range
		P1C2A49	Generator A/D Converter Circuit Internal Electronic Failure
		P1C2A71	Generator A/D Converter Circuit Actuator Stuck
		P1C2B1C	Drive Motor "A" Control Module A/D Converter Circuit Voltage Out of Range
		P1C2B49	Drive Motor "A" Control Module A/D Converter Circuit Internal Electronic Failure
		P1C2B71	Drive Motor "A" Control Module A/D Converter Circuit Actuator Stuck
		P1C2C1C	Drive Motor "B" Control Module AD Converter Circuit Voltage Out of Range
		P1C2C49	Drive Motor "B" Control Module AD Converter Internal Electronic Failure
		P1C2C71	Drive Motor "B" Control Module A/D Converter Circuit Actuator Stuck
		P310A83	Communication Error from Drive Motor "B" to Drive Motor "A" Value of Signal Protection Calculation Incorrect
		P310A86	Communication Error from Drive Motor "B" to Drive Motor "A" Signal (Some Circuit Quantity, Reported via Serial Data) Invalid
		P310A87	Communication Error from Drive Motor "B" to Drive Motor "A" Missing Message
		P310B83	Communication Error from Drive Motor "A" to Drive Motor "B" Value of Signal Protection Calculation Incorrect
		P310B86	Communication Error from Drive Motor "A" to Drive Motor "B" Signal (Some Circuit Quantity, Reported via Serial Data) Invalid

MALFUNCTION CONTENT	SYSTEM	RELEVANT DTC	
		P310B87	Communication Error from Drive Motor "A" to Drive Motor "B" Missing Message
		P313383	Communication Error from Generator to Drive Motor "A" Value of Signal Protection Calculation Incorrect
		P313386	Communication Error from Generator to Drive Motor "A" Signal Invalid
		P313387	Communication Error from Generator to Drive Motor "A" Missing Message
		P313483	Communication Error from Drive Motor "A" to Generator Value of Signal Protection Calculation Incorrect
		P313486	Communication Error from Drive Motor "A" to Generator Signal Invalid
		P313487	Communication Error from Drive Motor "A" to Generator Missing Message
		P32BF83	Lost Communication between Drive Motor "A" and "B" (Drive Motor "A") Value of Signal Protection Calculation Incorrect
		P32BF86	Lost Communication between Drive Motor "A" and "B" (Drive Motor "A") Signal (Some Circuit Quantity, Reported via Serial Data) Invalid
		P32BF87	Lost Communication between Drive Motor "A" and "B" (Drive Motor "A") Missing Message
		P32CF83	Lost Communication between Drive Motor "A" and "B" (Drive Motor "B") Value of Signal Protection Calculation Incorrect
		P32CF86	Lost Communication between Drive Motor "A" and "B" (Drive Motor "B") Signal (Some Circuit Quantity, Reported via Serial Data) Invalid
		P32CF87	Lost Communication between Drive Motor "A" and "B" (Drive Motor "B") Missing Message
	Hybrid control system	P0A1B49	Drive Motor "A" Control Module Internal Electronic Failure
Power source circuit malfunction	Motor generator control system	P06B01C	Generator Control Module Position Sensor REF Power Source Circuit Voltage Out of Range
		P06B31C	Drive Motor "B" Control Module Position Sensor REF Power Source Circuit Voltage Out of Range
		P06D61C	Generator Control Module Offset Power Circuit Voltage Out of Range
		P19F81C	Generator Control Module Offset Power Circuit Voltage Out of Range
		P19F91C	Drive Motor "B" Control Module Offset Power Circuit Voltage Out of Range
		P26DF1C	Generator Control Module Position Sensor REF Power Source Circuit Voltage Out of Range

MALFUNCTION CONTENT	SYSTEM	RELEVANT DTC	
Sensor and actuator circuit malfunction	Motor generator control system	P0A3F16	Drive Motor "A" Position Sensor Circuit Voltage Below Threshold
		P0A3F21	Drive Motor "A" Position Sensor Signal Amplitude < Minimum
		P0A3F22	Drive Motor "A" Position Sensor Signal Amplitude > Maximum
		P0A4516	Drive Motor "B" Position Sensor Circuit Voltage Below Threshold
		P0A4521	Drive Motor "B" Position Sensor Signal Amplitude < Minimum
		P0A4522	Drive Motor "B" Position Sensor Signal Amplitude > Maximum
		P0A4B16	Generator Position Sensor Circuit Voltage Below Threshold
		P0A4B21	Generator Position Sensor Signal Amplitude < Minimum
		P0A4B22	Generator Position Sensor Signal Amplitude > Maximum
		P0A6012	Drive Motor "A" Phase V Current (High Resolution) Circuit Short to Battery
		P0A6014	Drive Motor "A" Phase V Current (High Resolution) Circuit Short to Ground or Open
		P0A601C	Drive Motor "A" Phase V Current (High Resolution) Circuit Voltage Out of Range
		P0A6312	Drive Motor "A" Phase W Current (High Resolution) Circuit Short to Battery
		P0A6314	Drive Motor "A" Phase W Current (High Resolution) Circuit Short to Ground or Open
		P0A631C	Drive Motor "A" Phase W Current (High Resolution) Circuit Voltage Out of Range
		P0A6912	Drive Motor "B" Phase V Current(High Resolution) Circuit Short to Battery
		P0A6914	Drive Motor "B" Phase V Current(High Resolution) Circuit Short to Ground or Open
		P0A691C	Drive Motor "B" Phase V Current(High Resolution) Circuit Voltage Out of Range
		P0A6C12	Drive Motor "B" Phase W Current(High Resolution) Circuit Short to Battery
		P0A6C14	Drive Motor "B" Phase W Current(High Resolution) Circuit Short to Ground or Open
		P0A6C1C	Drive Motor "B" Phase W Current(High Resolution) Circuit Voltage Out of Range
P0BE512	Drive Motor "A" Phase U Current Sensor Circuit Short to Battery		

MALFUNCTION CONTENT	SYSTEM	RELEVANT DTC	
		P0BE514	Drive Motor "A" Phase U Current Sensor Circuit Short to Ground or Open
		P0BE528	Drive Motor "A" Phase U Current Sensor Signal Bias Level Out of Range / Zero Adjustment Failure
		P0BE912	Drive Motor "A" Phase V Current Sensor Circuit Short to Battery
		P0BE914	Drive Motor "A" Phase V Current Sensor Circuit Short to Ground or Open
		P0BE928	Drive Motor "A" Phase V Current Sensor Signal Bias Level Out of Range / Zero Adjustment Failure
		P0BED12	Drive Motor "A" Phase W Current Sensor Circuit Short to Battery
		P0BED14	Drive Motor "A" Phase W Current Sensor Circuit Short to Ground or Open
		P0BED28	Drive Motor "A" Phase W Current Sensor Signal Bias Level Out of Range / Zero Adjustment Failure
		P0BF112	Drive Motor "B" Phase U Current Sensor Circuit Short to Battery
		P0BF114	Drive Motor "B" Phase U Current Sensor Circuit Short to Ground or Open
		P0BF128	Drive Motor "B" Phase U Current Sensor Signal Bias Level Out of Range / Zero Adjustment Failure
		P0BF512	Drive Motor "B" Phase V Current Sensor Circuit Short to Battery
		P0BF514	Drive Motor "B" Phase V Current Sensor Circuit Short to Ground or Open
		P0BF528	Drive Motor "B" Phase V Current Sensor Signal Bias Level Out of Range / Zero Adjustment Failure
		P0BF912	Drive Motor "B" Phase W Current Sensor Circuit Short to Battery
		P0BF914	Drive Motor "B" Phase W Current Sensor Circuit Short to Ground or Open
		P0BF928	Drive Motor "B" Phase W Current Sensor Signal Bias Level Out of Range / Zero Adjustment Failure
		P0BFD62	Drive Motor "A" Phase U-V-W Current Sensor Signal Compare Failure
		P0BFE62	Drive Motor "B" Phase U-V-W Current Sensor Signal Compare Failure
		P0C5013	Drive Motor "A" Position Sensor Circuit "A" Circuit Open
		P0C5016	Drive Motor "A" Position Sensor Circuit "A" Circuit Voltage Below Threshold

MALFUNCTION CONTENT	SYSTEM	RELEVANT DTC	
		P0C5017	Drive Motor "A" Position Sensor Circuit "A" Circuit Voltage Above Threshold
		P0C5513	Drive Motor "B" Position Sensor Circuit "A" Circuit Open
		P0C5516	Drive Motor "B" Position Sensor Circuit "A" Circuit Voltage Below Threshold
		P0C5517	Drive Motor "B" Position Sensor Circuit "A" Circuit Voltage Above Threshold
		P0C5A13	Drive Motor "A" Position Sensor Circuit "B" Circuit Open
		P0C5A16	Drive Motor "A" Position Sensor Circuit "B" Circuit Voltage Below Threshold
		P0C5A17	Drive Motor "A" Position Sensor Circuit "B" Circuit Voltage Above Threshold
		P0C5F13	Drive Motor "B" Position Sensor Circuit "B" Circuit Open
		P0C5F16	Drive Motor "B" Position Sensor Circuit "B" Circuit Voltage Below Threshold
		P0C5F17	Drive Motor "B" Position Sensor Circuit "B" Circuit Voltage Above Threshold
		P0C6413	Generator Position Sensor Circuit "A" Circuit Open
		P0C6416	Generator Position Sensor Circuit "A" Circuit Voltage Below Threshold
		P0C6417	Generator Position Sensor Circuit "A" Circuit Voltage Above Threshold
		P0C6913	Generator Position Sensor Circuit "B" Circuit Open
		P0C6916	Generator Position Sensor Circuit "B" Circuit Voltage Below Threshold
		P0C6917	Generator Position Sensor Circuit "B" Circuit Voltage Above Threshold
		P0D2D16	Drive Motor "A" Inverter Voltage Sensor (VH) Circuit Voltage Below Threshold
		P0D2D17	Drive Motor "A" Inverter Voltage Sensor (VH) Circuit Voltage Above Threshold
		P0DFA62	Generator Phase U-V-W Current Sensor Signal Compare Failure
		P0E0012	Generator Phase U Current Sensor Circuit Short to Battery
		P0E0014	Generator Phase U Current Sensor Circuit Short to Ground or Open
		P0E0028	Generator Phase U Current Sensor Signal Bias Level Out of Range / Zero Adjustment Failure
		P0E0412	Generator Phase V Current Sensor Circuit Short to Battery

MALFUNCTION CONTENT	SYSTEM	RELEVANT DTC	
		P0E0414	Generator Phase V Current Sensor Circuit Short to Ground or Open
		P0E0428	Generator Phase V Current Sensor Signal Bias Level Out of Range / Zero Adjustment Failure
		P0E0812	Generator Phase W Current Sensor Circuit Short to Battery
		P0E0814	Generator Phase W Current Sensor Circuit Short to Ground or Open
		P0E0828	Generator Phase W Current Sensor Signal Bias Level Out of Range / Zero Adjustment Failure
		P0E3116	DC/DC Converter Voltage Sensor "A" (VL) Circuit Voltage Below Threshold
		P0E3117	DC/DC Converter Voltage Sensor "A" (VL) Circuit Voltage Above Threshold
		P0E5111	DC/DC Converter Current Sensor Circuit Short to Ground
		P0E5115	DC/DC Converter Current Sensor Circuit Short to Battery or Open
		P0E5128	DC/DC Converter Current Sensor Signal Bias Level Out of Range / Zero Adjustment Failure
		P0E512A	DC/DC Converter Current Sensor Signal Stuck In Range
		P0E9B11	DC/DC Converter Current Sensor "B" Circuit Low Circuit Short to Ground
		P0E9B15	DC/DC Converter Current Sensor "B" Circuit High Circuit Short to Battery or Open
		P0E9B28	DC/DC Converter Current Sensor "B" Circuit Range/Performance Signal Bias Level Out of Range / Zero Adjustment Failure
		P0EA011	DC/DC Converter Current Sensor "C" Circuit Low Circuit Short to Ground
		P0EA015	DC/DC Converter Current Sensor "C" Circuit High Circuit Short to Battery or Open
		P0EA028	DC/DC Converter Current Sensor "C" Circuit Range/Performance Signal Bias Level Out of Range / Zero Adjustment Failure
		P1CAC49	Generator Position Sensor Internal Electronic Failure
		P1CAD49	Drive Motor "A" Position Sensor Internal Electronic Failure
		P1CAE49	Drive Motor "B" Position Sensor Internal Electronic Failure
		P1CAF38	Generator Position Sensor REF Signal Cycle Malfunction Signal Frequency Incorrect
		P1CB038	Drive Motor "A" Position Sensor REF Signal Frequency Incorrect

MALFUNCTION CONTENT	SYSTEM	RELEVANT DTC	
		P1CB138	Drive Motor "B" Position Sensor REF Signal Frequency Incorrect
		P1F7011	DC/DC Converter Current Sensor "D" Circuit Low Circuit Short to Ground
		P1F7015	DC/DC Converter Current Sensor "D" Circuit High Circuit Short to Battery or Open
		P1F7028	DC/DC Converter Current Sensor "D" Circuit Range/Performance Signal Bias Level Out of Range / Zero Adjustment Failure
		P1F7562	DC/DC Converter Current Sensor A/C Correlation Signal Compare Failure
	Hybrid control system	P1F7662	DC/DC Converter Current Sensor B/D Correlation Signal Compare Failure
		P1CFF62	Hybrid/EV Battery Current/DC/DC Converter Current Signal Compare Failure
		P0C7600	Hybrid/EV Battery System Discharge Time Too Long
		P0D2D1C	Drive Motor "A" Inverter Voltage Sensor Voltage Out of Range
	System malfunction	Motor generator control system	P0E311C
P1C2D62			Hybrid/EV Battery "A" Voltage Sensor/Boosting Converter Voltage Sensor "A" Signal Compare Failure
P0A7873			Drive Motor "A" Inverter Actuator Stuck Closed
P0A7973			Drive Motor "B" Inverter Actuator Stuck Closed
		P0A7A73	Generator Inverter Actuator Stuck Closed
		P0C1900	Drive Motor "A" Execution Torque Performance

PROCEDURE

1. CHECK FREEZE FRAME DATA AND DIAGNOSIS RELATED INFORMATION

Pre-procedure1

(a) None

Procedure1

(b) Read the diagnosis related information and freeze frame data of DTC P0A9000.

Powertrain > Motor Generator > Utility

TESTER DISPLAY

Diagnosis Related Information

Powertrain > Motor Generator > Trouble Codes

RESULT	PROCEED TO
DTC U11B300 or U11B387 is listed in Diagnosis Related Information.	A
DTC U11B300 or U11B387 is not listed in Diagnosis Related Information and the value of freeze frame data item Emergency Shutdown Signal is ON.	B
Other than above	C

Post-procedure1

(c) Turn the ignition switch off.

A ► **GO TO DTC CHART (U11B300)****B** ► **GO TO DTC CHART (P321E9F)****C**

2.	DETERMINE CAUSE OF MALFUNCTION
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Pre-procedure1

(a) Clear the DTCs.

Powertrain > Motor Generator > Clear DTCs

(b) Turn the ignition switch to ON (READY) with the shift lever in P.

(c) Turn the air conditioning system on and wait for 1 minute with the engine stopped.

HINT:

If the engine starts before 1 minute has elapsed, wait until it stops and then perform this step again.

Procedure1

(d) Check for DTCs.

Powertrain > Motor Generator > Trouble Codes

RESULT	PROCEED TO
P0A9000 or P0BFF1D is output, or DTC is not output.	A
DTCs other than P0A9000 and P0BFF1D are also output.	B

Post-procedure1

(e) Turn the ignition switch off.

B  **GO TO DTC CHART (MOTOR GENERATOR CONTROL SYSTEM)**

A


3.	DETERMINE CAUSE OF MALFUNCTION
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Pre-procedure1

(a) Clear the DTCs.

Powertrain > Motor Generator > Clear DTCs

(b) Turn the ignition switch to ON (READY).

(c) Move the shift lever to D.

(d) Depress the accelerator pedal halfway or more and accelerate the vehicle to 20 km/h (12.4 mph).

CAUTION:

When performing the confirmation driving pattern, obey all speed limits and traffic laws.

Procedure1

(e) Check for DTCs.

Powertrain > Motor Generator > Trouble Codes

RESULT	PROCEED TO
P0A9000 or P0BFF1D is output, or DTC is not output.	A
DTCs other than P0A9000 and P0BFF1D are also output.	B

Post-procedure1

(f) Turn the ignition switch off.

B  **GO TO DTC CHART (MOTOR GENERATOR CONTROL SYSTEM)**

A


4.	CHECK CONNECTOR CONNECTION CONDITION (INVERTER WITH CONVERTER ASSEMBLY CONNECTOR)
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Click here [INFO](#)

RESULT	PROCEED TO
OK	A
NG (The connector is not connected securely.)	B
NG (The terminals are not making secure contact or are deformed, or water or foreign matter exists in the connector.)	C

B ▶ **CONNECT SECURELY**

C ▶ **REPAIR OR REPLACE HARNESS OR CONNECTOR**

A
▼

5.	CHECK SHUT DOWN SIGNAL CIRCUIT
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Click here [INFO](#)

NEXT
▼

6.	CHECK MOTOR HIGH-VOLTAGE CIRCUIT
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Click here [INFO](#)

HINT:

If the "Motor High-voltage Circuit" inspection results are normal, perform the next step.

NEXT ▶ **REPLACE HYBRID VEHICLE TRANSAXLE ASSEMBLY**

