

Maintenance for HV & Auxiliary Batteries During PDS

Service Category General

Section Pre-Delivery Service

Market USA

Lexus Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2018	LC500H	

Introduction

Hybrid vehicles are equipped with 2 types of batteries:

- Hybrid Vehicle (HV) battery
- 12-volt auxiliary battery

If the vehicle is put into storage, the State-Of-Charge (SOC) of its HV battery and auxiliary battery will gradually decrease. To prevent the auxiliary battery from becoming discharged during storage, proper maintenance is necessary.

Perform the following maintenance service for the HV battery and 12-volt auxiliary battery.

NOTE

- **BEFORE** disconnecting the auxiliary battery, confirm the shift lever is in the “P” position and apply the parking brake completely. The shift lever cannot be shifted from the “P” position with the 12-volt auxiliary battery disconnected.
- If the negative (–) terminal of the auxiliary battery is reconnected, even if the power switch is selected to the “START” mode, the hybrid system may NOT start. In this case, push the POWER switch to select “START” again to start the hybrid system (the “READY” light is ON). If the hybrid system still does NOT start (the “READY” light is OFF), refer to the Repair Manual.
- If the vehicle is equipped with VGRS, the system **MUST** be initialized **AFTER** the auxiliary battery has been reconnected. Refer to the applicable vehicle specific Service Bulletin for instructions.

Warranty Information

OP CODE	DESCRIPTION	TIME	OFP	T1	T2
N/A	Not Applicable to Warranty	–	–	–	–

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Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
GR8 Battery Diagnostic Station*	00002-MCGR8	1

NOTE

Additional SSTs may be ordered by calling 1-800-933-8335.

* Essential SST.

To Store for 30 Days or More

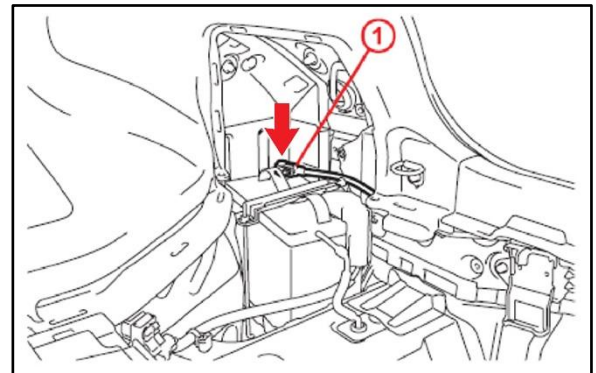
Disconnect the negative (–) terminal:

1. Turn OFF ALL lights and accessories.
2. Disconnect the negative (–) terminal.

NOTE

When it is necessary to move the vehicle, reconnect the negative (–) terminal.

Figure 1.



1 Negative (–) Terminal Cover

Every Two Months

Cycle vehicle to “READY” ON:

NOTE

- When the remaining capacity of the HV battery is low, the gasoline engine automatically starts and the HV battery is charged. The 12-volt auxiliary battery is also charged by the HV battery regardless of the gasoline engine operation.
- Be sure to reconnect the negative (–) terminal of the auxiliary battery BEFORE performing this procedure.

1. Park the vehicle in open air or connect the exhaust extraction hose to the exhaust pipe.
2. Apply the parking brake.

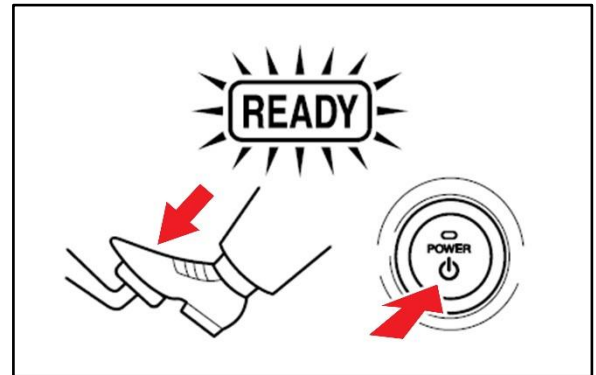
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Every Two Months

Cycle vehicle to “READY” ON:

3. With the brake pedal depressed, push the POWER switch and check that the “READY” light in the meter illuminates when the hybrid system starts (the “READY” light is ON).

Figure 2.

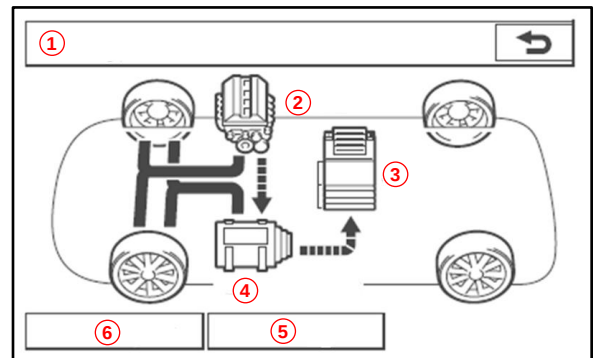


4. Turn OFF ALL lights and accessories.
5. Check that the shift lever is in the “P” position.
6. Keep the “READY” light ON and charge the HV battery for 30 minutes.

NOTE

- If the amount of charging energy is small, the display may NOT indicate the energy flow.
- Ensure there is a sufficient amount of fuel for the vehicle to run for 30 minutes.

Figure 3.



1	Energy Monitor
2	Engine
3	Battery
4	Electric Motor
5	Past Record
6	Consumption