

# Hybrid System Electrical Safety Precautions

**Service Category** General

**Section** Pre-Delivery Service

**Market** USA

Lexus Supports  
ASE Certification 

## Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2020	ES300H, LC500H, LS500H, NX300H, RX450H, UX250H	

## Introduction

This bulletin provides general high-voltage safety precautions for the hybrid system. The hybrid system circuits operate with up to 650V. These high voltages are dangerous and can cause personal injury, severe burns, electric shock, and death if proper safety precautions are NOT followed. Be sure to carefully review ALL applicable Repair Manual procedures BEFORE performing service.

As a policy, and to help ensure safety, no Lexus dealership technician is qualified to service or repair hybrid vehicles until Lexus course L071 is successfully completed.

### CAUTION

**When servicing the high-voltage system on Lexus hybrid vehicles, wait AT LEAST 10 minutes AFTER disconnecting the service plug BEFORE touching ANY of the high-voltage connectors or terminals. Failure to do so may result in personal injury, severe burns, electric shock, and death.**

## Warranty Information

OP CODE	DESCRIPTION	TIME	OFF	T1	T2
N/A	Not Applicable to Warranty	-	-	-	-

## Hybrid System Electrical Safety Precautions

### Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
Electrical Insulating Gloves*	<a href="#">01413-00072</a> (Medium) <a href="#">01413-00073</a> (Large) <a href="#">01413-00074</a> (Extra Large)	1

\*Essential SST.

#### CAUTION

**ALWAYS** inspect electrical insulating gloves **BEFORE** use for cracks, ruptures, tears, pinholes, or damage. Do **NOT** wear if damaged. Failure to do so may result in personal injury, severe burns, electric shock, and death.

#### NOTE

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

### Electrical Safety Precautions

#### CAUTION

#### HYBRID HIGH-VOLTAGE SAFETY NOTICE

A Lexus gas/electric hybrid vehicle has high-voltage DC and AC systems. Both DC and AC high-voltage are very dangerous and can cause personal injury, severe burns, electric shock, and death.

*Regular Service and Repairs (Pre-Delivery Service [PDS] and Non-High-Voltage Maintenance and Service)*

Ensure that **ALL** persons performing PDS or non-high-voltage maintenance and service:

1. Follow **ALL** caution labels attached to high-voltage parts.
2. Do **NOT** touch or attempt to remove or replace **ANY** high-voltage (orange-colored) wiring and connectors.
3. Do **NOT** touch the orange service plug.
4. Read, understand, and follow the safety procedures in the PDS Manual, Repair Manual, and **ALL** applicable Service Bulletins for the vehicle.

## Hybrid System Electrical Safety Precautions

### Electrical Safety Precautions (continued)

#### **CAUTION**

#### **HYBRID HIGH-VOLTAGE SAFETY NOTICE (continued)**

##### *High-Voltage Repairs*

Ensure that ALL technicians performing repairs to high-voltage systems:

1. Complete the hybrid training course L071 provided at the Lexus Area office.
2. Read, understand, and follow the safety procedures in the Repair Manual and ALL applicable Service Bulletins for the vehicle.
3. Use electrical insulating gloves and safety glasses whenever servicing high-voltage systems.
4. AFTER disconnecting the service plug, wait AT LEAST 10 minutes BEFORE touching ANY of the high-voltage connectors or terminals.
5. Are responsible for managing the safety of ANY hybrid vehicle or parts they are working on.
6. Maintain a “safety zone” around their work, including using yellow caution tape and “DO NOT TOUCH – HIGH-VOLTAGE” signs when high-voltage system repairs are to be left unattended.

##### *In the Event the Hybrid Vehicle is Involved in an Accident*

1. Do NOT touch ANY high-voltage wiring, connectors, or parts such as the inverter or the hybrid battery assembly.
2. Do NOT touch the potassium hydroxide electrolyte that might spill or leak from the hybrid battery as the result of an accident. If potassium hydroxide electrolyte gets on your skin or in your eyes, neutralize it IMMEDIATELY with a saturated boric acid solution (ratio: 80 grams boric acid to 2 liters water) or alternatively, flush repeatedly with large amounts of water.

**SEEK IMMEDIATE MEDICAL ATTENTION.**

3. If a vehicle fire occurs, water has been proven to be a suitable extinguishing agent.
4. See the Emergency Response Guide on Lexus TIS or Dealer Daily for more information.

If you have ANY questions, contact your District Service and Parts Manager.

Please refer to the Repair Manual for additional caution notices.