

Long-Term Vehicle Storage Guidelines

Service Category General

Section Pre-Delivery Service

Market USA

Lexus Supports
ASE Certification 

Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2020	ES300H, ES350, GS F, GS300, GS350, GX460, IS300, IS350, LC500, LC500H, LS500, LS500H, LX570, NX300, NX300H, RC F, RC300, RC350, RX350, RX450H, UX200, UX250H	

REVISION NOTICE

March 26, 2020 Rev1:

- **Parking and Paint Protection and Tire Inflation Pressure sections have been updated.**
- Any previous printed versions of this bulletin should be discarded.**

Introduction

Long-term or off-site storage requires special care to keep vehicles factory fresh and ready for delivery. The following guidelines should be performed to minimize vehicle component/part degradation due to extended vehicle storage conditions. Long-term storage can affect vehicle systems and components. Any problems that are found should be corrected immediately.

Warranty Information

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

Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
Digital Battery System Analyzer and Printer*	00002-V8150-KIT	1
Battery Diagnostic Tool*	DCA-8000P I	

*Essential SST

NOTE

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

Long-Term Vehicle Storage Guidelines

Summary Chart for Long-Term Storage

Below are items that should be checked periodically and their frequency.

ACTION	FREQUENCY
Tire Inflation Pressure Check	Monthly
Parts Rust Inspection	Monthly
A/C Compressor Lubrication	Monthly
Test/Charge Disconnected Battery to 12.6V	Monthly
Disc Brake Rotor Surface Rust Removal	Every 8 weeks
Engine Starting and Vehicle Movement	Every 6 weeks
Rapgard™ Removal	After 90 days
Tyvek® Removal	After 12 months

A combination of proper vehicle receipt, Pre-Delivery Service (PDS), and vehicle storage is the ONLY way to maintain factory fresh vehicles. Lexus' goal is to deliver 100% problem-free cars and trucks. With your commitment to quality and customer satisfaction, we can reach that goal. Review this bulletin often and be sure new employees are aware of the policies and procedures outlined herein, as individual training in proper inspection, PDS, and storage and handling techniques are essential to ensure high-quality delivery.

Long-Term Vehicle Storage Guidelines

Reference and Training Materials

Listed below are additional resources, which will help with vehicle receipt, inspection, and storage procedures.

- [CRIB Bulletin #165](#), *Acid Rain Paint Finish Damage – Prevention and Repair*
- UoT e-Learning Course E257 Vehicle Delivery Quality – Paint Finish Repair
- Service Bulletin [BO015-91](#), *Prevention and Repair of Acid Rain Damage*
- Service Bulletin [BO029-91](#), *New Vehicle Washing Schedule for Paint Protection*
- Service Bulletin [L-SB-0013-19](#), *Battery Maintenance During PDS*
- Service Bulletin [PA001-05](#), *Iron Particle Rust Contamination Repair*
- Service Bulletin [PG004-94](#), *Dealer Removal Procedures for Rapgard™ Protective Film*
- Service Bulletin [PG006-07](#), *Removal of Tyvek® Protective Film*
- Service Bulletin [PD001-04](#), *Wheel Film for Brake Rotor Rust Prevention*

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Long-Term Vehicle Storage Guidelines (continued)

Parking and Paint Protection

- Storage areas should be paved, well lit, and secure. If the off-site storage lot is NOT paved, spread gravel down to minimize mud and dust. Make sure vehicles are driven carefully when moving them to or from a long-term lot. This will help minimize damage to the paint finish from road grit or gravel.
- Park vehicles from right to left AT LEAST 3 feet apart. Leave enough space front and rear to easily walk between rows.
- DO NOT apply the parking brake. Ensure vehicles with electronic parking brakes DO NOT engage and the Auto function has been DISABLED (refer to Owner's Manual for details).
- HVAC vent controls should be set to Recirc to minimize dust and odor intrusion.
- Make sure the plastic door edge protectors are in place and fold in the side view mirror (if applicable).
- Anti-rust covers or anti-rust film should remain on vehicle during storage.
 - A. Anti-rust covers (behind wheel) should be removed during PDS.
 - B. Anti-rust film (applied to wheel) should be removed just prior to customer delivery.
- Wash vehicles frequently.

Battery

- Turn OFF ALL electrical accessories, make sure windows and sunroof are closed, and check that the transmission is in Park (First or Reverse for manual transmission vehicles). Do NOT apply the parking brake.
- Test batteries monthly (more often in high heat or cold areas), using the digital battery system analyzer. Refer to Service Bulletin [L-SB-0013-19](#), *Battery Maintenance During PDS*, for complete battery maintenance procedures.
- To reduce battery drain during long-term storage, remove the battery ground negative (–) cable of each vehicle and re-install just before delivery to the customer. Locate the current PDS Service Bulletin on TIS for complete details.
- If a hybrid 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 required. Refer to the applicable *Maintenance for HV and Auxiliary Batteries* Service Bulletin for procedure and additional information.

Long-Term Vehicle Storage Guidelines

Long-Term Vehicle Storage Guidelines (continued)

Tire Inflation Pressure

If the vehicle is parked over an extended period without being moved, a flat spot may develop on each tire surface in contact with the ground, even if the tires are inflated to specification. Tire inflation pressure should be checked once a month.

Tire inflation pressure for storage ONLY: **45 psi**.

NOTE

Tire pressures may vary due to changes in ambient temperatures and may require adjustment.

Parts Rust

If the vehicles in the storage area are exposed to a sea breeze and/or significant precipitation, corrosion with rust in some parts may occur.

If rust is found, remove it, and treat it by applying rust inhibitor to prevent recurrence.

Engine Starting and Vehicle Movement

1. If the vehicle is stored over an extended period, starting and running the engine periodically will ensure smooth running operation.

NOTE

Be sure to allow sufficient clearance at the rear of the vehicle to prevent other vehicles stored behind from getting damaged by exhaust gas.

2. Move the vehicle AT LEAST 30 feet to lubricate the transmission and differential and prevent tire flat-spot damage.
3. Raise engine speed above 3,000 rpm (N/A for hybrid vehicles) 10 times to eliminate moisture from the exhaust.

Long-Term Vehicle Storage Guidelines

Long-Term Vehicle Storage Guidelines (continued)

A/C Compressor Lubrication

To minimize the possibility of damage to the A/C compressor while storing a vehicle, perform the following recommended maintenance procedures AT LEAST once a month to lubricate the compressor.

1. Turn OFF the A/C and blower switches prior to starting the engine.
2. Start and warm up the engine until the engine idle drops below 1,000 rpm.
3. Turn ON the A/C system (including the rear A/C) using the following settings:
 - A/C Switch: ON
 - Blower Speed: High
 - Engine Speed: Below 1,000 rpm
4. Keep the A/C ON with the engine idling for AT LEAST 1 minute (in dual A/C vehicle, leave ON for 2 minutes).
5. Turn OFF the A/C system and stop the engine.

Disc Brake Rotor Surface Rust Removal

The brake rotors are made of cast iron, so they may show gradual buildup of surface rust during long-term storage. AT LEAST once every 2 months, drive the vehicle and use the brakes normally, stopping from about 30 mph AT LEAST 20 times. This regular usage will help prevent severe rust buildup and the possibility of unwanted brake vibration concerns due to rust.

Figure 1. Slight Rust on Rotor (Easy to Remove by Braking)



Figure 2. Severe Rust on Rotor (Hard to Remove by Braking)



NOTE

- If the brake vibration still occurs AFTER the braking cycle, determine the root cause of the brake vibration, and repair.
- Brake rotor resurfacing may be required if the rust is severe and results in excessive rotor thickness variation.