

# Long-Term Vehicle Storage Guidelines

**Service Category** General

**Section** Pre-Delivery Service

**Market** USA

Toyota Supports  
ASE Certification 

## Applicability

YEAR(S)	MODEL(S)	ADDITIONAL INFORMATION
2024	ES250, ES300H, ES350, GX550, IS300, IS350, IS500, LC500, LC500C, LC500H, LS500, LS500H, LX600, NX250, NX350, NX350H, NX450H+, RC F, RC300, RC350, RX350, RX350H, RX450H+, RZ300E, RZ450E, TX350, TX500H, TX550H+, UX250H	

### REVISION NOTICE

**December 21, 2023 Rev2:**

- Applicability has been updated to include 2024 model year GX 550 and RZ 300e vehicles.

**August 24, 2023 Rev1:**

- Applicability has been updated to include 2024 model year NX 450h+, RX 350h, RX 450h+, TX 350, TX 500h, and TX 550h+ vehicles.
- Applicability has been updated to remove 2024 model year NX 450h and RX 450h vehicles.

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 a vehicle's 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	–	–	–	–

## Long-Term Vehicle Storage Guidelines

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### Required Tools & Equipment

SPECIAL SERVICE TOOLS (SST)	PART NUMBER	QTY
DCA-8000 Battery Diagnostic Tool*	<a href="#">DCA-8000P.T</a>	1
DSS-5000 Battery Diagnostic Tool*	<a href="#">DSS-5000P.T</a>	1

\*Essential SST.

**NOTE**

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

### 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
Charge Disconnected Battery to 12.6V	After 60 days, Then Every 30 days
Disc Brake Rotor Surface Rust Removal	Every 8 Weeks
Engine/Hybrid System 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 vehicles. 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

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### Long-Term Vehicle Storage Guidelines

#### Reference and Training Materials

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

- [CRIB Bulletin #165](#), *Acid Rain Paint Finish Damage – Prevention and 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-0016-23](#), *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*.
- Service Bulletin [L-SB-0015-23](#), *Maintenance for HV/BEV Auxiliary Batteries*.

#### Parking and Paint Protection Procedure

- Storage areas should be paved, well lit, and secure. If your off-site storage lot is NOT paved, spread gravel 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 three feet apart. Leave enough space front and rear to easily walk between rows.
- 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. Ensure vehicles with electronic parking brakes do NOT engage, and the Auto function has been DISABLED (refer to the Owner's Manual for details).
- 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.
  1. Anti-rust covers (behind wheel) should be removed at PDS.
  2. Anti-rust film (applied to wheel) should be removed just prior to customer delivery.
- Wash vehicles frequently.

## Long-Term Vehicle Storage Guidelines

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### Long-Term Vehicle Storage Guidelines (continued)

#### Battery

- After 60 days, and every 30 days thereafter, either start the vehicle and let it idle for 30 minutes or charge the battery with the DCA-8000 battery diagnostic tool. Refer to the [DCA-8000 Instruction Manual](#) for complete battery maintenance procedures.
- To reduce battery drain during long-term storage, remove the battery ground (–) cable of each vehicle and reinstall it just before delivery to the customer. When the battery ground (–) cable is reconnected, check and reset electrical components, such as the clock, radio, etc., and reinitialize ALL applicable systems/functions. Refer to the applicable Repair Manual for complete details.
- If a hybrid vehicle or battery electric vehicle is put into storage, the State-Of-Charge (SOC) of its battery and auxiliary battery will gradually decrease. To prevent the auxiliary battery from becoming discharged during storage, proper maintenance is necessary. Refer to the applicable [Maintenance for HV/BEV and Auxiliary Batteries](#) Service Bulletin for procedure and additional information.

#### Tire Inflation Pressure

If the vehicle is parked for long periods 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: **43 psi**.

#### NOTE

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

#### Parts Rust

If the vehicles in your 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.

## Long-Term Vehicle Storage Guidelines

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### Long-Term Vehicle Storage Guidelines (continued)

#### Engine/Hybrid System Starting and Vehicle Movement

If the vehicle is stored over an extended period of time, starting and running the engine/hybrid system periodically will ensure smooth running operation.

1. If the vehicle is equipped with a gasoline engine, start and operate the engine at an engine speed of less than 1,500 rpm for 15 minutes or longer.

Raise the engine speed above 3,000 rpm 10 times to eliminate moisture from the exhaust.

#### NOTE

Make 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/transaxle and differential(s), and to prevent tire flat-spot damage.

#### 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 before starting the vehicle.
2. Start/Ready-On the vehicle.

If the vehicle is equipped with a gasoline engine, allow the engine to warm up until engine idle drops below 1,000 rpm.

3. Turn ON the A/C system (including the rear A/C) using the following settings:
  - A. A/C Switch: ON
  - B. Blower Speed: High
  - C. Engine Speed: Below 1,000 rpm
4. Keep the A/C ON with engine idling for AT LEAST one minute (in dual A/C vehicles, leave ON for two minutes).
5. Turn OFF the A/C system and cycle the ignition to the OFF position.

## Long-Term Vehicle Storage Guidelines

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### Long-Term Vehicle Storage Guidelines (continued)

#### Disc Brake Rotor Surface Rust Removal

The brake rotors are made of cast iron and may show gradual buildup of surface rust during long-term storage. AT LEAST once every eight weeks, drive the vehicle and use the brakes normally. 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)**



#### Refresh Brake Rotor

Drive the vehicle on a level road in a safe area and apply the brakes normally. Repeat the brake application several times. Refer to the table below to determine how many brake applications are required based on speed limits and traffic conditions in your area.

**Table 1.**

SPEED	COMPLETED STOPS
60 – 0 mph (95 – 0 km/h)	5
40 – 0 mph (65 – 0 km/h)	10
30 – 0 mph (50 – 0 km/h)	20
20 – 0 mph (30 – 0 km/h)	30

**NOTE**

- Hybrid/PHV/PHEV/BEV vehicles may require additional braking applications.
- If 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 resulted in excessive rotor thickness variation.