HV Battery longevity Ford info Warranty Manual

I would only add to the above advice two things I didn't see mentioned:

1) if not using the vehicle for an extended period of time, store it with the battery at or near 50% SOC, and

2) see the battery warranty information (an excerpt below with some pertinent things highlighted) which requires, for example, installing power up software within a reasonable amount of time (e.g., 30 days) etc.

MAINTAIN YOUR VEHICLE PROPERLY

Your Owner's Manual, provided with your vehicle, indicates the scheduled maintenance required for your vehicle. Proper maintenance guards against major repair expenses resulting from neglect or inadequate maintenance and may help increase the value you receive when you sell or trade your vehicle.

It is your responsibility to make sure that all the scheduled maintenance is performed and that the materials used meet Ford engineering specifications. <u>Failure to perform scheduled</u> <u>maintenance as specified in the Owner's Manual will invalidate</u> <u>warranty coverage on parts affected by the lack of maintenance.</u> Make sure that receipts for completed maintenance work are retained with the vehicle.

High Voltage Lithium-Ion Battery Capacity Coverage

•••

NOTE: The battery capacity degradation rate will vary based on various factors, including environmental conditions, and will also be affected by the way in which the vehicle is used. <u>Following the</u> <u>recommendations in the Preserving Your High Voltage Battery</u> <u>section of the Owner's Manual</u> may help lower the rate of capacity degradation and optimize battery life.

Ford Power-Up software updates

During the warranty coverage period, Ford Motor Company warrants that:

• you will not be charged for diagnosis, repair, replacement, or

adjustment of components that are damaged or inoperable due to a defect caused by a Ford Power-Up software update

WHAT IS NOT COVERED?

Damage Caused By:

• accidents, collision or objects striking the vehicle (including driving through a car wash)

- theft, vandalism, or riot
- fire or explosion
- using contaminated or improper fluids
- customer-applied chemicals or accidental spills

• driving through water deep enough to cause water to be

ingested into any component. i.e. powertrain components

• immersion/flooding of the high voltage battery assembly

• <u>abuse and/or misuse of the vehicle and/or high voltage battery</u> <u>pack, such as</u> driving over curbs, overloading, racing or <u>using</u> <u>the vehicle as a permanent stationary power source</u>

• exceeding the load limits specified on the certification label. See your Owner's Manual for the location of the certification label

• <u>failure to observe and resolve vehicle warnings and indications</u> of battery concerns within a reasonable amount of time, <u>typically 30 days</u>

• <u>failure to complete Ford Power-Up software updates within a</u> <u>reasonable amount of time, typically 30 days</u>

• the use of incompatible charging devices or methods

• modifications to the high voltage battery assembly, high voltage system, or associated wiring

• exposure to direct and/or intense heat sources outside of normal use, such as collision repairs that subject the vehicle to paint booth conditions that exceed Ford's recommendations

• <u>allowing the high voltage battery assembly to remain in a fully</u> <u>discharged, or near zero state of charge, for more than 14 days</u>

• repairs performed by facilities and personnel not authorized by Ford, including repairs which would have otherwise been covered under the manufacturer's warranty,

• <u>improper vehicle storage resulting in high voltage battery damage</u> (See Owner's Manual for vehicle storage recommendations)

In order to maintain your warranty coverage, be sure to follow the

<u>recommendations in the Owner's Manual under Preserving Your</u> <u>High Voltage Battery.</u>

Other Items or Conditions Not Covered The New Vehicle Limited Warranty does not cover:

high-voltage battery replacement due to improper vehicle storage. Refer to the Owner's Manual for the proper ways your vehicle's battery must be maintained in the event the vehicle is not driven or is stored for an extended period.

•••

In order to maintain optimal battery life and functionality of your vehicle, <u>it is imperative that all high voltage battery software</u> <u>updates are installed. You are responsible for ensuring all software</u> <u>updates are installed within 30 days of software availability. You</u> <u>can most easily accomplish this by keeping Automatic Updates set</u> <u>to "ON".</u> If you are unable or choose not to use your vehicle's connectivity features to update software, your Ford Dealer can determine if software updates are available for your vehicle and perform these updates. Software updates will be installed at no cost to you during the warranty period. <u>Damage resulting from</u> <u>failure to install battery system updates will not be covered under</u> <u>your New Vehicle Limited Warranty.</u>

If you do not maintain your vehicle properly, Ford may have the right to deny you warranty coverage. <u>To have repairs made under</u> this warranty, you may have to show that you have followed <u>Ford's instructions on properly maintaining and using your</u> vehicle. You will find these instructions in your Owner's Manual. Be sure to save your service receipts and to keep accurate records of all maintenance work.

NOTE: The high voltage battery assembly is not eligible for any of the extended warranty plans or packages.

From the Manual (2023 Lightning):

Overnight Charging You can increase the longevity and performance of your high voltage battery by using the charge scheduling and departure and comfort settings on your touchscreen or in the FordPass app.

With Charge Scheduling, you can improve the high voltage battery's longevity by delaying the start of charging and setting a maximum charging limit. We recommend you set your preferred charging times to be at least 2-3 hours after your typical plug in time. This allows the battery to cool before charging begins. Additionally, setting the maximum charge level to be less than 100% for everyday usage reduces strain on the battery.

You can improve driving range and performance by scheduling departure times and cabin comfort level with the Departure and Comfort feature. This not only warms or cools the cabin but also conditions the battery to ensure the best driving range and performance by the set departure time.

DC Charging

Frequent use of DC charging could result in reducing your battery's efficiency and lifespan. This is more pronounced on the standard range battery pack versus the extended range battery pack. See What is DC Charging (page 198).

Storage Temperature

Storing your vehicle in temperatures between $32^{\circ}F(0^{\circ}C)$ and $113^{\circ}F(45^{\circ}C)$ is the most beneficial range for the high voltage battery.

At temperatures just above the freezing

point or lower, plug in your vehicle to maintain battery performance and maximize driving range.

Storage State of Charge You can increase the battery life by maintaining your state of charge below 100%. When you park your vehicle for an extended period of 30 days or more, we recommend your battery be at an approximately 50% state of charge.

Storing your vehicle's high voltage battery at higher states of charge is less favorable than storing at lower states of charge. Note: To achieve this state of charge for storage, you can drive your vehicle down to 50% and set a charge limit for your location.

See Setting the Charging Schedule and Preferences (page 213).