

Regular maintenance is essential to obtaining the highest level of performance, safety and reliability from your Lexus. It can also enhance your vehicle's resale value. This section of the *Warranty and Services Guide* is designed to help you make sure your vehicle receives proper and timely maintenance. It includes factory-recommended maintenance guidelines as well as logs in which to document your vehicle's maintenance history.

In addition to scheduled maintenance, your Lexus requires ongoing general

maintenance such as fluid checks and visual inspections. These procedures are listed on pages 42–43 of this booklet and described in detail in the “Maintenance” section of the *Owner's Manual*.

With proper maintenance and care, your vehicle will last longer and deliver more dependable, economical performance. Follow this booklet's recommendations and you'll enjoy maximum reliability and peace of mind from your Lexus for many years to come.



Maintaining your vehicle according to the recommendations in this booklet is required to ensure that your warranty coverage remains intact. You should keep detailed records of vehicle maintenance, including date of service, mileage at time of service and a description of service and/or parts installation performed. The maintenance logs in this booklet are a good place to record this information. If you sell your vehicle, be sure to give your maintenance records to the new owner.

Lexus will not deny a warranty claim solely because you do not have records to show that you maintained your vehicle. However, damage or failures caused by lack of proper maintenance are not covered under warranty.

Maintenance and repair services may be performed by you or by any automotive service provider you choose. Lexus will not deny a warranty claim solely because you used a service

provider other than a Lexus dealership for maintenance and repairs. However, damage or failures caused by improper maintenance or repairs are not covered under warranty.

Your dealer may recommend more frequent maintenance intervals or more maintenance services than those listed in the scheduled maintenance log. These additional services are not required to maintain your warranty coverage. Ask your dealer for an explanation of any recommended maintenance not included in the scheduled maintenance log.

For a complete description of Lexus warranty coverages, see pages 16–33 of this booklet.

To ensure that your vehicle receives first-quality service and factory-authorized parts, Lexus recommends having maintenance performed by an authorized Lexus dealership. To locate your nearest authorized Lexus dealership, contact Lexus Customer Satisfaction at (800) 255-3987 or log on to www.lexus.com.

Lexus dealership technicians are experts in the maintenance and repair of Lexus hybrid vehicles. They stay current on the latest service information through Lexus technical bulletins, service publications and training courses. Many are also certified through the Lexus Commitment to Perfection Certification Program, which requires specialized, state-of-the-art training as well as rigorous exams through both Lexus and the National Institute for Automotive Service Excellence.

Additionally, when you have your vehicle serviced at a Lexus dealership, your service information is recorded in the Lexus National Service History database. This is the first database of its kind in the automotive industry. It can be accessed by

any Lexus dealership in the U.S. – a great convenience if you relocate or need to have your vehicle serviced while traveling.

You can be confident you're getting the best possible service for your vehicle when you take it to a Lexus dealership. Don't trust your investment to anything less than a team of Lexus specialists.

Maintenance and repairs not performed by an authorized Lexus dealership should be performed by a qualified technician following procedures in Lexus service and repair publications.

Please refer to the important safety precautions found on the inside front cover of this booklet.

In addition to scheduled maintenance, your Lexus hybrid vehicle requires ongoing general maintenance such as fluid checks and visual inspections. The recommended guidelines for inspections are listed below. Please refer to the “Maintenance” section of the *Owner’s Manual* for a detailed description of inspection procedures.

When Refueling

When refueling, perform these inspections:

- Check engine oil level using the dipstick
- Visually check engine/inverter coolant level on the see-through reservoir
- Visually check brake fluid level on the see-through reservoir
- Check level of windshield washer fluid

Every 30 Days

At least once every 30 days, perform these inspections:

- Check tire pressure
- Check tires for damage and wear

Every Several Months

If the vehicle is parked for a long time, the hybrid battery will discharge gradually. To keep the hybrid battery in good condition, drive the vehicle at least once every several months for at least 30 minutes or ten miles. If the hybrid battery becomes fully discharged and the vehicle will not start even with a jump-start to the 12-volt battery, contact your Lexus dealership.

If You Run Out of Fuel

Take all precautions to prevent the hybrid vehicle from running out of fuel. If you do run out of fuel, add fuel to the fuel tank before trying to restart the vehicle or continuing to drive.

Maintaining Charge for 12-Volt Battery

The following tips will help you keep your vehicle's 12-volt battery fully charged:

- Drive vehicle at least weekly
- Operate accessories with vehicle in "READY" mode
- When parking, make sure doors and trunk are closed and lights are turned off

Important Brake Information

The GS 450h features high-friction front brake pads, which provide a higher coefficient of friction on the rotors for superior stopping performance and pedal feel. These brakes are designed for high-performance driving. Depending on your driving habits, you may experience more aggressive wear of the brake pads and rotors.

The GS 450h also features an advanced, electronically controlled brake-by-wire system. This system controls both the regenerative braking system and the conventional hydraulic braking system. As a result, the brakes may feel different than those on a conventional vehicle.

For additional information on your brakes and their operation, refer to your *Owner's Manual*.

Determining Your Maintenance Interval: Months vs. Mileage

Lexus recommends obtaining scheduled maintenance for your vehicle every six months or 5,000 miles, whichever occurs first.

For example:

- If at six months you have driven less than 5,000 miles, you should obtain maintenance at **six months**; don't wait until 5,000 miles.
- If you drive 5,000 miles in less than six months, you should obtain maintenance at **5,000 miles**; don't wait until six months.

Be sure to keep an eye on your mileage so that you obtain maintenance when recommended. If you are a low-mileage driver, mark your calendar to remind yourself to obtain maintenance every six months.

Complimentary First Scheduled Maintenance Service

Lexus provides your first scheduled maintenance service at no charge. The service is performed at six months or 5,000 miles, whichever occurs first, and includes the service items listed on page 46. To obtain this complimentary scheduled maintenance service, contact your Lexus dealership.

Complimentary Lexus Personalized Settings

Your vehicle includes a variety of electronic features that can be personalized to your preferences. For example, doors can be programmed to remain locked when you shift into "Park."

Programming of these preferences is performed

once at no charge, pro-



vided you obtain the service at the time of delivery or within 12 months of the vehicle's in-service date. Programming of your Lexus Personalized Settings requires special equipment and may be performed only by an authorized Lexus dealership.

To obtain your Lexus Personalized Settings, please contact your Lexus dealership. The dealership may verify performance of the service in the box on this page.

Lexus Personalized Settings*

Must be obtained within 12 months of vehicle's in-service date.

In-service date: _____

Date personalized settings programmed: _____

Notes:

**This service is complimentary when performed by an authorized Lexus dealership.*

SCHEDULED MAINTENANCE LOG

6 Months or 5,000 Miles¹

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Visually inspect brake pads and rotors
- Road-test vehicle

Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Inspect axle shaft boots
- Inspect ball joints and dust covers
- Inspect engine air filter
- Inspect steering linkage and boots
- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

12 Months or 10,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Measure thickness of front brake pads and rotors
- Visually inspect brake pads and rotors
- Road-test vehicle

Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Inspect axle shaft boots
- Inspect ball joints and dust covers
- Inspect engine air filter
- Inspect steering linkage and boots
- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

¹This service is complimentary when performed by an authorized Lexus dealership.

18 Months or 15,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Clean air conditioner filter
- Visually inspect brake pads and rotors
- Road-test vehicle
- Inspect the following:

___ Axle shaft boots	___ Engine/inverter coolant (see page 68)
___ Ball joints and dust covers	___ Exhaust pipes and mountings
___ Body	___ Rack and pinion assembly
___ Brake lines and hoses	___ Steering linkage and boots
___ Differential oil	___ Variable gear ratio steering assembly

Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Inspect engine air filter
- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

SCHEDULED MAINTENANCE LOG

24 Months or 20,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Measure thickness of front brake pads and rotors
- Visually inspect brake pads and rotors
- Road-test vehicle

Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Inspect axle shaft boots
- Inspect ball joints and dust covers
- Inspect engine air filter
- Inspect steering linkage and boots
- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

30 Months or 25,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Visually inspect brake pads and rotors
- Road-test vehicle

Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Inspect axle shaft boots
- Inspect ball joints and dust covers
- Inspect engine air filter
- Inspect steering linkage and boots
- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

36 Months or 30,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Measure brake pad thickness and rotor runout
- Measure thickness of brake rotors
- Replace air conditioner filter
- Replace brake fluid
- Replace engine air filter
- Road-test vehicle
- Inspect the following:
 - Axle shaft boots
 - Ball joints and dust covers
 - Body
 - Brake lines and hoses
 - Differential oil
 - Engine/inverter coolant (see page 68)
 - Exhaust pipes and mountings
 - Fuel lines and connections, fuel tank band and fuel tank vapor vent system hoses
 - Fuel tank cap gasket
 - Rack and pinion assembly
 - Steering linkage and boots
 - Transmission for signs of leakage
 - Variable gear ratio steering assembly

Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

SCHEDULED MAINTENANCE LOG

42 Months or 35,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Visually inspect brake pads and rotors
- Road-test vehicle

Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Inspect axle shaft boots
- Inspect ball joints and dust covers
- Inspect engine air filter
- Inspect steering linkage and boots
- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

48 Months or 40,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Measure thickness of front brake pads and rotors
- Visually inspect brake pads and rotors
- Road-test vehicle

Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Inspect axle shaft boots
- Inspect ball joints and dust covers
- Inspect engine air filter
- Inspect steering linkage and boots
- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

54 Months or 45,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Clean air conditioner filter
- Visually inspect brake pads and rotors
- Road-test vehicle
- Inspect the following:

___ Axle shaft boots	___ Engine/inverter coolant (see page 68)
___ Ball joints and dust covers	___ Exhaust pipes and mountings
___ Body	___ Rack and pinion assembly
___ Brake lines and hoses	___ Steering linkage and boots
___ Differential oil	___ Variable gear ratio steering assembly

Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Inspect engine air filter
- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

SCHEDULED MAINTENANCE LOG

60 Months or 50,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Measure thickness of front brake pads and rotors
- Visually inspect brake pads and rotors
- Road-test vehicle

Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Inspect axle shaft boots
- Inspect ball joints and dust covers
- Inspect engine air filter
- Inspect steering linkage and boots
- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

66 Months or 55,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Visually inspect brake pads and rotors
- Road-test vehicle

Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Inspect axle shaft boots
- Inspect ball joints and dust covers
- Inspect engine air filter
- Inspect steering linkage and boots
- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

72 Months or 60,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Measure brake pad thickness and rotor runout
- Measure thickness of brake rotors
- Replace air conditioner filter
- Replace brake fluid
- Replace engine air filter
- Replace spark plugs¹
- Road-test vehicle
- Inspect the following:

<ul style="list-style-type: none"> <input type="checkbox"/> Axle shaft boots <input type="checkbox"/> Ball joints and dust covers <input type="checkbox"/> Body <input type="checkbox"/> Brake lines and hoses <input type="checkbox"/> Differential oil <input type="checkbox"/> Drive belt <input type="checkbox"/> Engine/inverter coolant (see page 68) <input type="checkbox"/> Exhaust pipes and mountings 	<ul style="list-style-type: none"> <input type="checkbox"/> Fuel lines and connections, fuel tank band and fuel tank vapor vent system hoses <input type="checkbox"/> Fuel tank cap gasket <input type="checkbox"/> Rack and pinion assembly <input type="checkbox"/> Steering linkage and boots <input type="checkbox"/> Transmission for signs of leakage <input type="checkbox"/> Variable gear ratio steering assembly
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Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

¹Required under the terms of the Emission Control Warranty.

SCHEDULED MAINTENANCE LOG

78 Months or 65,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Visually inspect brake pads and rotors
- Road-test vehicle

Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Inspect axle shaft boots
- Inspect ball joints and dust covers
- Inspect engine air filter
- Inspect steering linkage and boots
- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

84 Months or 70,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Measure thickness of front brake pads and rotors
- Visually inspect brake pads and rotors
- Road-test vehicle

Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Inspect axle shaft boots
- Inspect ball joints and dust covers
- Inspect engine air filter
- Inspect steering linkage and boots
- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

90 Months or 75,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Clean air conditioner filter
- Visually inspect brake pads and rotors
- Road-test vehicle
- Inspect the following:

___ Axle shaft boots	___ Engine/inverter coolant (see page 68)
___ Ball joints and dust covers	___ Exhaust pipes and mountings
___ Body	___ Rack and pinion assembly
___ Brake lines and hoses	___ Steering linkage and boots
___ Differential oil	___ Variable gear ratio steering assembly
___ Drive belt	

Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Inspect engine air filter
- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

SCHEDULED MAINTENANCE LOG

96 Months or 80,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Measure thickness of front brake pads and rotors
- Visually inspect brake pads and rotors
- Road-test vehicle

Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Inspect axle shaft boots
- Inspect ball joints and dust covers
- Inspect engine air filter
- Inspect steering linkage and boots
- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

102 Months or 85,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Visually inspect brake pads and rotors
- Road-test vehicle

Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Inspect axle shaft boots
- Inspect ball joints and dust covers
- Inspect engine air filter
- Inspect steering linkage and boots
- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

108 Months or 90,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Measure brake pad thickness and rotor runout
- Measure thickness of brake rotors
- Replace air conditioner filter
- Replace brake fluid
- Replace engine air filter
- Road-test vehicle
- Inspect the following:

<ul style="list-style-type: none"> <input type="checkbox"/> Axle shaft boots <input type="checkbox"/> Ball joints and dust covers <input type="checkbox"/> Body <input type="checkbox"/> Brake lines and hoses <input type="checkbox"/> Differential oil <input type="checkbox"/> Drive belt <input type="checkbox"/> Engine/inverter coolant (see page 68) <input type="checkbox"/> Exhaust pipes and mountings 	<ul style="list-style-type: none"> <input type="checkbox"/> Fuel lines and connections, fuel tank band and fuel tank vapor vent system hoses <input type="checkbox"/> Fuel tank cap gasket <input type="checkbox"/> Rack and pinion assembly <input type="checkbox"/> Steering linkage and boots <input type="checkbox"/> Transmission for signs of leakage <input type="checkbox"/> Variable gear ratio steering assembly
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Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

SCHEDULED MAINTENANCE LOG

114 Months or 95,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Visually inspect brake pads and rotors
- Road-test vehicle

Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Inspect axle shaft boots
- Inspect ball joints and dust covers
- Inspect engine air filter
- Inspect steering linkage and boots
- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

120 Months or 100,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Measure thickness of front brake pads and rotors
- Replace engine/inverter coolant (see page 68)
- Visually inspect brake pads and rotors
- Road-test vehicle

Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Inspect axle shaft boots
- Inspect ball joints and dust covers
- Inspect engine air filter
- Inspect steering linkage and boots
- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

126 Months or 105,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Clean air conditioner filter
- Visually inspect brake pads and rotors
- Road-test vehicle
- Inspect the following:

<input type="checkbox"/> Axle shaft boots	<input type="checkbox"/> Drive belt
<input type="checkbox"/> Ball joints and dust covers	<input type="checkbox"/> Exhaust pipes and mountings
<input type="checkbox"/> Body	<input type="checkbox"/> Rack and pinion assembly
<input type="checkbox"/> Brake lines and hoses	<input type="checkbox"/> Steering linkage and boots
<input type="checkbox"/> Differential oil	<input type="checkbox"/> Variable gear ratio steering assembly

Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Inspect engine air filter
- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

SCHEDULED MAINTENANCE LOG

132 Months or 110,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Measure thickness of front brake pads and rotors
- Visually inspect brake pads and rotors
- Road-test vehicle

Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Inspect axle shaft boots
- Inspect ball joints and dust covers
- Inspect engine air filter
- Inspect steering linkage and boots
- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

138 Months or 115,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Inspect engine/inverter coolant (see page 68)
- Visually inspect brake pads and rotors
- Road-test vehicle

Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Inspect axle shaft boots
- Inspect ball joints and dust covers
- Inspect engine air filter
- Inspect steering linkage and boots
- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

144 Months or 120,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Measure brake pad thickness and rotor runout
- Measure thickness of brake rotors
- Replace air conditioner filter
- Replace brake fluid
- Replace engine air filter
- Replace spark plugs¹
- Road-test vehicle
- Inspect the following:

<ul style="list-style-type: none"> ___ Axle shaft boots ___ Ball joints and dust covers ___ Body ___ Brake lines and hoses ___ Differential oil ___ Drive belt ___ Exhaust pipes and mountings ___ Fuel lines and connections, fuel tank band and fuel tank vapor vent system hoses 	<ul style="list-style-type: none"> ___ Fuel tank cap gasket ___ Rack and pinion assembly ___ Steering linkage and boots ___ Transmission for signs of leakage ___ Variable gear ratio steering assembly
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Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

¹Required under the terms of the Emission Control Warranty.

SCHEDULED MAINTENANCE LOG

150 Months or 125,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Visually inspect brake pads and rotors
- Road-test vehicle

Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Inspect axle shaft boots
- Inspect ball joints and dust covers
- Inspect engine air filter
- Inspect steering linkage and boots
- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

156 Months or 130,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Inspect engine/inverter coolant (see page 68)
- Measure thickness of front brake pads and rotors
- Visually inspect brake pads and rotors
- Road-test vehicle

Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Inspect axle shaft boots
- Inspect ball joints and dust covers
- Inspect engine air filter
- Inspect steering linkage and boots
- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

162 Months or 135,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Clean air conditioner filter
- Visually inspect brake pads and rotors
- Road-test vehicle
- Inspect the following:

___ Axle shaft boots	___ Drive belt
___ Ball joints and dust covers	___ Exhaust pipes and mountings
___ Body	___ Rack and pinion assembly
___ Brake lines and hoses	___ Steering linkage and boots
___ Differential oil	___ Variable gear ratio steering assembly

Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Inspect engine air filter
- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

SCHEDULED MAINTENANCE LOG

168 Months or 140,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Measure thickness of front brake pads and rotors
- Visually inspect brake pads and rotors
- Road-test vehicle

Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Inspect axle shaft boots
- Inspect ball joints and dust covers
- Inspect engine air filter
- Inspect steering linkage and boots
- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

174 Months or 145,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Inspect engine/inverter coolant (see page 68)
- Visually inspect brake pads and rotors
- Road-test vehicle

Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Inspect axle shaft boots
- Inspect ball joints and dust covers
- Inspect engine air filter
- Inspect steering linkage and boots
- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

180 Months or 150,000 Miles

- Replace engine oil and oil filter; reset reminder light
- Rotate tires
- Measure brake pad thickness and rotor runout
- Measure thickness of brake rotors
- Replace air conditioner filter
- Replace brake fluid
- Replace engine air filter
- Replace engine/inverter coolant (see page 68)
- Road-test vehicle
- Inspect the following:

<ul style="list-style-type: none"> ___ Axle shaft boots ___ Ball joints and dust covers ___ Body ___ Brake lines and hoses ___ Differential oil ___ Drive belt ___ Exhaust pipes and mountings ___ Fuel lines and connections, fuel tank band and fuel tank vapor vent system hoses 	<ul style="list-style-type: none"> ___ Fuel tank cap gasket ___ Rack and pinion assembly ___ Steering linkage and boots ___ Transmission for signs of leakage ___ Variable gear ratio steering assembly
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Additional Maintenance Required If You Drive Primarily Under the Following Conditions

Driving on dirt roads or dusty roads:

- Tighten nuts and bolts on chassis

Date: _____ Mileage: _____

Notes:

The following descriptions are provided to give you a better understanding of the maintenance services that should be performed on your vehicle. The scheduled maintenance log indicates at which time/mileage intervals each service should be performed. Please note that many maintenance services should be performed only by a qualified technician.

For further information on maintenance services that you can perform yourself, see the maintenance sections of your *Owner's Manual*.

Air Conditioner Filter

Clean or replace at specified intervals. More frequent cleaning or replacement may be required when driving in dusty conditions.

Axle Shaft Boots

Check the axle shaft boots and clamps for cracks, deterioration and damage. Replace any damaged parts and, if necessary, repack the grease. A qualified technician should perform these operations.

Ball Joints and Dust Covers

Check the suspension and steering linkage ball joints for looseness and damage. Check all dust covers for deterioration and damage. A qualified technician should perform these inspections.

Battery: 12-Volt (Auxiliary Battery)

The original-equipment 12-volt battery, located on the left side of the trunk, is a sealed, maintenance-free special-application battery that is different from a conventional automotive battery. Replacement batteries are available from your Lexus dealership.

Battery: Active Stabilizer Suspension System (if equipped)

The original-equipment battery, located below the trunk floor panel, is a sealed, maintenance-free special-application battery that is different from a conventional automotive battery. Replacement batteries are available from your Lexus dealership.

Battery: Hybrid (Traction Battery)

The hybrid battery is a NiMH (nickel metal hydride) compact, high-output battery. This battery does not require regular maintenance. However, if the vehicle is parked for a long time, the hybrid battery will discharge gradually. To keep the hybrid battery in good condition, drive the vehicle at least once every several months for at least 30 minutes or 10 miles. If the hybrid battery becomes fully discharged and the vehicle will not start even with a jump-start to the 12-volt battery, contact your Lexus dealership.

Any repairs to the hybrid battery or hybrid system should be performed by a qualified technician following procedures in Lexus service and repair publications. **Please refer to the important safety precautions found on the inside front cover of this booklet.**

Body Inspection

Visually check for corrosion, scratches and other damage. Check outer body panels, inner panels of the hood

and doors, and underneath the vehicle. Apply touch-up paint to any chips and scratches or have them repaired by a qualified technician.

Brake Fluid

Replace using fluid type specified in your *Owner's Manual*. A qualified technician should perform this operation.

Brake Lines and Hoses

Visually inspect for proper installation. Check for chafing, cracks, deterioration and signs of leakage. Replace any deteriorated or damaged parts. A qualified technician should perform these operations.

Brake Pads/Rotors and Parking Brake Linings/Drums

Check brake pads and rotors for excessive wear; check brake rotors for runout. Check brake calipers for fluid leakage. Check the parking brake linings (shoes) and drums for scoring, burning, fluid leakage, broken parts and excessive wear. A qualified technician should perform these inspections.

Differential Oil

Check for correct oil level and inspect each differential component for signs of leakage. If you discover any leakage, have it repaired immediately by a qualified technician. Refer to your *Owner's Manual* for fluid specifications.

Drive Belt

Inspect for cracks, excessive wear and oiliness. Check the belt tension and adjust if necessary. Replace the belt if it is damaged.

Engine Air Filter

Check for damage, excessive wear and oiliness. Replace if necessary.

Engine/Inverter Coolant

When inspecting, visually check the engine/inverter coolant level on the see-through reservoir. Add coolant as necessary. When replacing, drain and flush the cooling system and refill with coolant. Always use Genuine Toyota Super Long-Life Coolant or similar high-quality non-silicate, nonamine, non-borate ethylene-glycol coolant with long-life

hybrid organic acid technology (i.e., a combination of low phosphates and organic acids). A qualified technician should perform these operations.

Please refer to the important safety precautions found on the inside front cover of this booklet.

Note: Initial replacement is at 120 months/100,000 miles. Replace every 60 months/50,000 miles thereafter.

Engine Oil and Oil Filter

Replace the oil filter and drain and refill the engine oil at specified intervals. For recommended oil grade and viscosity, refer to your *Owner's Manual*. The GS 450h is equipped with a replaceable oil-filter element and oil-filter cap O-ring; replace both at each oil change. For instructions on how to reset the reminder light, refer to your *Owner's Manual*.

Engine Valve Clearance

The GS 450h is equipped with hydraulic valve lash adjusters that require no periodic clearance inspection or adjustment.

Exhaust Pipes and Mountings

Visually inspect the exhaust pipes, muffler and hangers for cracks, deterioration and damage. Start the engine and listen carefully for any exhaust leakage. Tighten connections and replace parts as necessary.

Fuel Lines and Connections, Fuel Tank Band and Fuel Tank Vapor Vent System Hoses

Visually inspect for corrosion, damage, cracks, and loose or leaking connections. Tighten connections and replace parts as necessary.

Fuel Tank Cap Gasket

Visually inspect for cracks, deterioration and damage and replace if necessary.

Nuts and Bolts on Chassis

Check that tightness of the seat-mounting bolts and front/rear suspension-member retaining bolts matches torque measurements specified in the *Repair Manual*.

Power Steering

The GS 450h is equipped with electric power steering. Inspection of power-steering fluid is not required because the system does not use fluid.

Rack and Pinion Assembly

Inspect the rack and pinion assembly for signs of leakage, damage and loose electrical connections. Tighten connections and if you discover any leakage or damage, have it repaired immediately by a qualified technician.

Road Test

While driving the vehicle, check for proper operation of engine, transmission, brakes and steering. Also check for abnormal noise or vibration from any part of the vehicle.

Spark Plugs

Replace at specified interval. A qualified technician should perform this operation. Refer to your *Owner's Manual* for spark plug specifications.

Steering Linkage and Boots

With the vehicle stopped, check for excessive freeplay in the steering wheel. Inspect the linkage for bending and damage and the dust boots for deterioration, cracks and damage. Replace any damaged parts. A qualified technician should perform these operations.

Timing Chain

The GS 450h is equipped with a timing chain that requires no periodic inspection.

Tire Rotation

Tires should be rotated according to the instructions in your *Owner's Manual*. When rotating tires, check pressure and check for damage and uneven wear. If the vehicle is equipped with a spare tire, check the condition and pressure of the spare.

Tire-Pressure Warning Sensors

A tire-pressure sensor is mounted on each full-size wheel. These sensors do not require periodic maintenance. When a sensor's long-life lithium battery becomes discharged, the battery should be replaced by a qualified technician following procedures in Lexus service and repair publications.

Transmission

Inspect each transmission component for signs of leakage. If you discover any leakage, have it repaired immediately by a qualified technician. (The electric motor/generators do not

require periodic maintenance.) Any service that requires inspecting or replacing transmission fluid should be performed by a qualified technician following procedures in Lexus service and repair publications. **Please refer to the important safety precautions found on the inside front cover of this booklet.**

Variable Gear Ratio Steering Assembly

Inspect the variable gear ratio steering assembly for damage and loose electrical connections. Tighten loose connections and if you discover any damage, have it repaired immediately by a qualified technician following procedures in Lexus service and repair publications.

VEHICLE IDENTIFICATION

Model _____

Body style _____

In-service date _____

Mileage at delivery _____

Selling dealership _____

Selling dealership phone number _____

Key number _____

Vehicle Identification Number _____

