

OUTSIDE VEHICLE

GENERAL MAINTENANCE

Performing the following maintenance checks on the vehicle is the owner's responsibility. The owner may perform the maintenance or take the vehicle to a service center. Check the parts of the vehicle described below on a daily basis. In most cases, special tools are not required. It is recommended that the owner perform these checks. The procedures for general maintenance are as follows.

1. GENERAL NOTES

- Maintenance requirements vary depending on the country.
- Check the maintenance schedule in the owner's manual supplement.
- Following the maintenance schedule is mandatory.
- Determine the appropriate time to service the vehicle using either miles driven or months elapsed, whichever reaches the specification first.
- Maintain similar intervals between periodic maintenance, unless otherwise noted.
- Failing to check each vehicle part could lead to poor engine performance and increase exhaust emissions.

2. TIRES

- (a) Check the tire inflation pressure with a gauge. Make adjustments if necessary.
- (b) Check the surfaces of the tires for cuts, damage or excessive wear.

3. WHEEL NUTS

- (a) Check for nuts that are loose or missing. Tighten them if necessary.

4. TIRE ROTATION (See page [TW-4](#))

5. WINDSHIELD WIPER BLADES

- (a) Check the blades for wear or cracks whenever they are unable to wipe the windshield clean. Replace them if necessary.

6. FLUID LEAKS

- (a) Check under the vehicle for leaking fuel, oil, water and other fluids.

NOTICE:

If you smell gasoline fumes or notice any leaks, locate the cause and correct it.

7. DOORS AND ENGINE HOOD

- (a) Check that all of the doors and the hood operate smoothly and that all the latches lock securely.
- (b) When the primary latch is released, check that the engine hood secondary latch prevents the hood from opening.

INSIDE VEHICLE

GENERAL MAINTENANCE

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2. LIGHTS

- (a) Check that the headlights, stop lights, taillights, turn signal lights, and other lights illuminate or blink properly. Also, check if they have enough brightness.
- (b) Check that the headlights are aimed properly.

3. WARNING LIGHTS AND BUZZERS

- (a) Check that all the warning lights and buzzers are working.

4. HORNS

- (a) Check that the horn is working.

5. WINDSHIELD GLASS

- (a) Check for scratches, pits or abrasions.

6. WINDSHIELD WIPERS AND WASHER

- (a) Check that the windshield washers are aimed properly. Also, check that the center stream of washer fluid sprays on the windshield within the operating range of the wipers.
- (b) Check if the wipers streak or not.

7. WINDSHIELD DEFROSTER

- (a) When the heater or air conditioning is on the defroster setting, check if air comes out of the defroster outlet.

8. REAR VIEW MIRROR

- (a) Check that the rear view mirror is securely mounted.

9. SUN VISORS

- (a) Check that the sun visors move freely and are securely mounted.

10. STEERING WHEEL

- (a) Check that the steering wheel has the proper amount of free play. Also check for steering difficulty and unusual noises.

11. SEATS

- (a) Check that the seat adjusters, seatback recliner and other front seat controls operate smoothly.
- (b) Check that all the latches lock securely in all positions.
- (c) Check that the locks hold securely in all latched positions.
- (d) Check that the headrests move up and down smoothly and that the locks hold securely in all latched positions.
- (e) When the rear seatbacks are folded down, check that the latches lock securely.

12. SEAT BELTS

- (a) Check that the seat belt system such as the buckles, retractors and anchors operate properly and smoothly.
- (b) Check that the belt webbing is not cut, frayed, worn or damaged. Replace if necessary.

13. ACCELERATOR PEDAL

- (a) Check that the accelerator pedal operates smoothly. In other words, check that the pedal does not have uneven pedal resistance or become stuck in certain positions.

14. BRAKE PEDAL

- (a) Check that the brake pedal operates smoothly.
- (b) Check that the pedal has the proper reserve distance and free play.
- (c) Start the engine and check the brake booster function.

15. BRAKES

- (a) In a safe place, check that the vehicle remains straight when applying the brakes.

16. PARKING BRAKE

- (a) Check that the parking brake pedal has the proper amount of travel (see page [PB-11](#)).
- (b) On a safe incline, check that the vehicle is held securely with only the parking brake applied.

17. HYBRID TRANSAXLE "PARK" MECHANISM

- (a) Check the selector lever for proper and smooth operation.
- (b) When the selector lever is in the P position and all brakes are released on a low incline, check that the vehicle is stable.

UNDER HOOD

GENERAL MAINTENANCE

1. GENERAL NOTES

- Maintenance requirements vary depending on the country.
- Check the maintenance schedule in the owner's manual supplement.
- Following the maintenance schedule is mandatory.
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- Maintain similar intervals between periodic maintenance, unless otherwise noted.
- Failing to check each vehicle part could lead to poor engine performance and increase exhaust emissions.

2. WINDSHIELD WASHER FLUID

- (a) Check that there is sufficient fluid in the tank.

3. ENGINE COOLANT LEVEL

- (a) Check that the coolant level is between the "FULL" and "LOW" lines on the see-through reservoir.

4. RADIATOR AND HOSES

- (a) Check that the front of the radiator is clean and not blocked by leaves, dirt or bugs.
- (b) Check the hoses for cracks, kinks, rot or loose connections.

5. BATTERY ELECTROLYTE LEVEL

- (a) Check that the electrolyte level of all the battery cells is between the upper and lower level lines on the case.
HINT:
If the electrolyte level is difficult to see, lightly shake the vehicle.

6. BRAKE FLUID LEVEL

- (a) Check that the brake fluid levels are near the upper level lines on the see-through reservoirs.

7. ENGINE DRIVE BELT

- (a) Check the drive belt for fraying, cracks, wear or oiliness.

8. ENGINE OIL LEVEL

- (a) Check the level on the dipstick with the engine stopped.

9. HYBRID TRANSAXLE FLUID LEVEL (See page [HX-1](#))

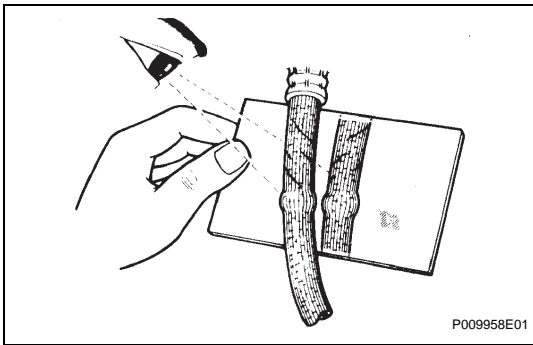
10. EXHAUST SYSTEM

- (a) Check for unusual exhaust sounds or abnormal exhaust fumes. Inspect the cause and repair it.

ENGINE

GENERAL MAINTENANCE

1. **INSPECT DRIVE BELT** (See page [EM-5](#))
2. **REPLACE SPARK PLUGS**
 - (a) Replace the spark plugs (see page [IG-5](#)).
3. **REPLACE AIR CLEANER FILTER**
 - (a) Remove the air filter.
 - (b) Visually check that the air filter is not excessively damaged or oily.
 - (c) Replace the air filter with a new one, if necessary.
4. **REPLACE ENGINE OIL AND OIL FILTER** (See page [LU-1](#))
5. **REPLACE ENGINE COOLANT** (See page [CO-2](#))
6. **INSPECT GASKET IN FUEL TANK CAP** (See page [EC-5](#))
7. **INSPECT FUEL LINES AND CONNECTIONS, FUEL TANK VAPOR VENT SYSTEM HOSES**
 - (a) Visually check the fuel lines for cracks, leakage, loose connections and deformation.
8. **INSPECT EXHAUST PIPES AND MOUNTINGS**
 - (a) Visually check the pipes, hangers and connections for severe corrosion, leaks or damage.
9. **INSPECT VALVE CLEARANCE** (See page [EM-7](#))



MA

BRAKE

GENERAL MAINTENANCE

1. INSPECT BRAKE LINES AND HOSES

HINT:

Work in a well-lighted area. Turn the front wheels fully to the right or left before beginning the inspection.

- (a) Using a mirror, check the entire circumference and length of the brake lines and hoses for:
 - Damage
 - Wear
 - Deformation
 - Cracks
 - Corrosion
 - Leaks
 - Bends
 - Twists
- (b) Check all the clamps for tightness and the connections for leakage.
- (c) Check that the hoses and lines are not near sharp edges, moving parts or the exhaust system.
- (d) Check that the lines are installed properly and pass through the center of the grommets.

2. INSPECT FRONT BRAKE

- (a) Check the front brake pads and discs (see page [BR-42](#)).

3. INSPECT REAR BRAKE LININGS AND DRUMS

- (a) Check the brake linings and drums. Also check the brake linings of parking brake (see page [BR-49](#)).

CHASSIS

GENERAL MAINTENANCE

1. **INSPECT STEERING LINKAGE AND GEAR HOUSING**
 - (a) Check the steering wheel free play (see page [PS-5](#)).
 - (b) Check the steering linkage for looseness or damage.
 - (1) Check that the tie rod ends do not have excessive play.
 - (2) Check that the dust seals and boots are not damaged.
 - (3) Check that the boot clamps are not loose.
 - (4) Check that the steering gear housing is not damaged.
 - (5) Check that the connectors are properly connected to the steering gear housing.
2. **INSPECT BALL JOINTS AND DUST COVERS**
 - (a) Inspect the ball joints for excessive looseness.
 - (1) Jack up the front of the vehicle and place wooden blocks with a height of 180 to 200 mm (7.09 to 7.87 in.) under the front tires.
 - (2) Lower the vehicle until the front coil spring has about half its ordinary load. Place stands under the vehicle for safety.
 - (3) Check that the front wheels are pointing straight ahead. Use wheel chocks on all 4 wheels.
 - (4) Using a lever, pry up the end of the lower arm. Check the amount of play.

Maximum ball joint vertical play:
0 mm (0 in.)

If there is any play, replace the ball joint.
 - (b) Check the dust cover for damage.
3. **INSPECT DRIVE SHAFT BOOTS**
 - (a) Check the drive shaft boots for loose clamps, grease leakage, kinks or damage.
4. **INSPECT HYBRID TRANSAXLE FLUID LEVEL (See page [HX-1](#))**
5. **ROTATE TIRES (See page [TW-4](#))**

BODY

GENERAL MAINTENANCE

1. TIGHTEN BOLTS AND NUTS

- (a) Tighten the bolts and nuts on the chassis parts listed below, if necessary.
 - Front axle and suspension
 - Drive train
 - Rear axle and suspension
 - Brake system
 - Engine mounting
 - Other chassis parts
- (b) Tighten the bolts and nuts on the body parts listed below, if necessary.
 - Seat belt system
 - Seats
 - Doors and hood
 - Body mountings
 - Fuel tank
 - Exhaust pipe system
 - Other body parts

2. CLEAN AIR CONDITIONING FILTER

- (a) Visually inspect the surface of the filter (see page [AC-162](#)).
- (b) If the filter is contaminated with foreign matter, clean or replace the filter.