

OUTSIDE VEHICLE

GENERAL MAINTENANCE

Check the parts of the vehicle described below on a daily basis. Performing maintenance checks on the vehicle is the owner's responsibility. The owner may take the vehicle to a service center but it is recommended that the owner perform the checks.

In most cases, special tools are not required.

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 time (months) elapsed, whichever reaches the specification first.
- Failing to check each vehicle part could lead to poor engine performance and increase exhaust emissions.
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2. TIRES

- (a) Check the tire pressure with a gauge. Make adjustments if necessary.
- (b) Check the surfaces of 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

Check the maintenance schedule in the owner's manual supplement.

5. WINDSHIELD WIPER BLADES

- (a) Check the blades for wear or cracks when 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 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

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- Maintain similar intervals between periodic maintenance unless noted.
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2. LIGHTS

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

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 WIPER AND WASHER

- (a) Check that the washers are aimed properly. Also, check that the washer fluid hits the center of the operating range of each wiper on the windshield.
- (b) Check that the wipers streak or not. Replace the wiper if necessary.

7. WINDSHIELD DEFROSTER

- (a) When the heater or air conditioner is on the defroster setting, check that 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 free play. Also check for steering difficulty, unusual noises (See page [SR-1](#)).

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 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.

13. ACCELERATOR PEDAL

- (a) Check that the 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 pedal operates smoothly.
- (b) Check that the pedal has the proper reserve distance and free play (See page [BR-9](#)).
- (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 pedal has the proper range of motion (See page [PB-1](#)).
- (b) On a low incline, check that the parking brake alone can stabilize the vehicle.

17. AUTOMATIC TRANSAXLE "PARK" MECHANISM

- (a) On a safe incline, check that the vehicle is held securely with the selector in the "P" position and all the brakes released.

UNDER HOOD

GENERAL MAINTENANCE

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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 free of leaves, dirt and bugs.
- (b) Check the hoses for cracks, kinks, rotting or loose connections.

5. BATTERY ELECTROLYTE LEVEL

- (a) Check that the electrolyte level of all the battery cells is between the upper and lower 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 line 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 that the level of engine oil is between "F" and "L" on the dipstick with the engine turned off.

9. POWER STEERING FLUID LEVEL

- (a) Check the level on the dipstick.
- (b) The level should be in the "HOT" or "COLD" range depending on the fluid temperature.

10. AUTOMATIC TRANSAXLE FLUID LEVEL

- (a) Park the vehicle on a level surface.

- (b) With the engine idling and the parking brake applied, shift the selector into all the positions from "P" to "L", and then shift into the "P" position.
- (c) Pull out the dipstick and wipe off the fluid with a clean shop rag. Re-insert the dipstick and check that the fluid level is in the "HOT" range.
- (d) Perform this check with the fluid at the normal driving temperature (70 to 80°C, 158 to 176°F).
HINT:
Wait until the engine cools down (approx. 30 min.) before checking the fluid level after extended driving at high speed, in hot weather, in heavy traffic or pulling a trailer.

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11. EXHAUST SYSTEM

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

ENGINE

GENERAL MAINTENANCE

HINT:

Inspect these items on a cooled down engine.

1. REPLACE TIMING BELT

(See page [EM-22](#))

2. INSPECT DRIVE BELT

(See page [EM-6](#))

3. INSPECT SPARK PLUGS

(See page [IG-1](#))

4. INSPECT AIR CLEANER FILTER

(a) Remove the air filter.

(b) Visually check that the air filter is not excessively damaged, dirt or oily.

(c) Clean the filter with compressed air.
First blow from the inside throughly, and then blow from the outside of the filter.

(d) Reinstall the air filter.

5. REPLACE AIR CLEANER FILTER

(a) Replace the air filter with a new one.

6. REPLACE ENGINE OIL AND OIL FILTER

(See page [LU-1](#))

7. INSPECT ENGINE COOLANT

(See page [CO-1](#))

8. INSPECT GASKET IN FUEL TANK CAP

(See page [FU-3](#))

9. INSPECT FUEL LINES AND CONNECTIONS, FUEL TANK VAPOR VENT SYSTEM HOSES AND FUEL TANK BANDS

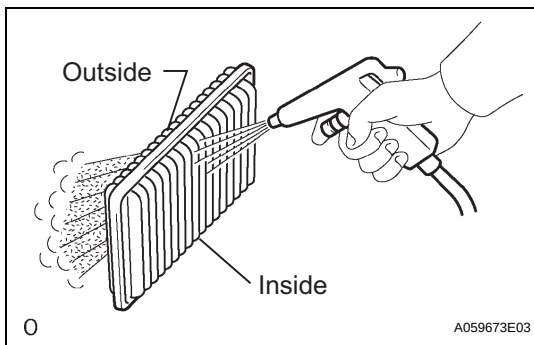
(a) Visually check the fuel lines for cracks, leakage, loose connections, deformation or tank band looseness.

10. INSPECT EXHAUST PIPES AND MOUNTINGS

(a) Visually check the pipes, hangers and connections for severe corrosion, leaks or damage.

11. INSPECT VALVE CLEARANCE

(See page [EM-151](#))



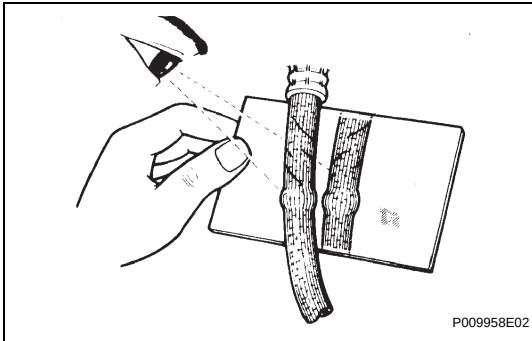
BRAKE

GENERAL MAINTENANCE

1. INSPECT BRAKE LINE PIPES AND HOSES

HINT:

Check in a well-lighted area. Check the entire circumference and length of the brake hoses using a mirror as required. Turn the front wheels fully tight or left before checking the front brake.



(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

2. INSPECT FRONT BRAKE PADS AND DISCS

(See page [BR-26](#))

3. INSPECT REAR BRAKE PADS AND DISCS

(See page [BR-33](#))

4. INSPECT PARKING BRAKE LININGS

(See page [PB-1](#))

5. INSPECT OR CHARGE BRAKE FLUID

Fluid:

SAE J1703 or FMVSS No.116 DOT3

CHASSIS

GENERAL MAINTENANCE

1. INSPECT STEERING LINKAGE

- (a) Check the steering linkage for looseness or damage.

Check that:

- Tie rod ends do not have excessive play.
- Dust seals and boots are not damaged.
- Boot clamps are not loose.

2. INSPECT STEERING GEAR HOUSING OIL

- (a) Check the steering gear housing for oil leakage.
If leakage is found, check for cause and repair it.

3. INSPECT DRIVE SHAFT BOOTS

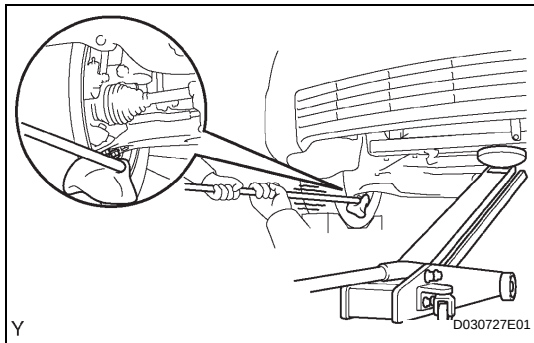
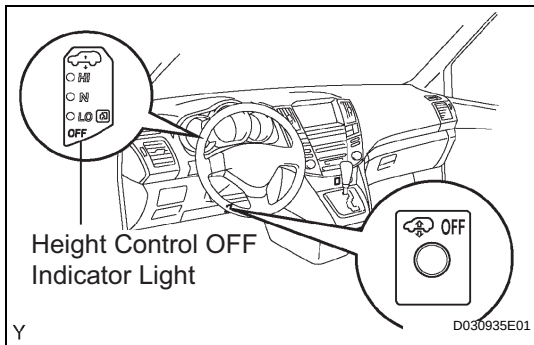
- (a) Inspect the drive shaft boots for clamp looseness, grease leakage or damage.

4. INSPECT BALL JOINT AND DUST COVER

- (a) Inspect the ball joints for excessive looseness.

HINT:

In order to stop vehicle height control for the vehicles with the air suspension system, press the height control OFF switch and make sure that the height control OFF indicator light is illuminating before jacking up the vehicle.



- (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 jack until there becomes about half a load on the front coil spring. Place stands under the vehicle for safety.
- (3) Check that the front wheels are pointing straight ahead, and block them with chocks.
- (4) Using a lever, pry up the end of the lower arm, and 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.

5. ROTATE TIRES

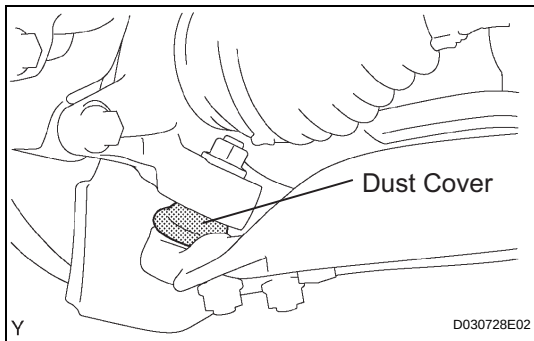
(See page [TW-1](#))

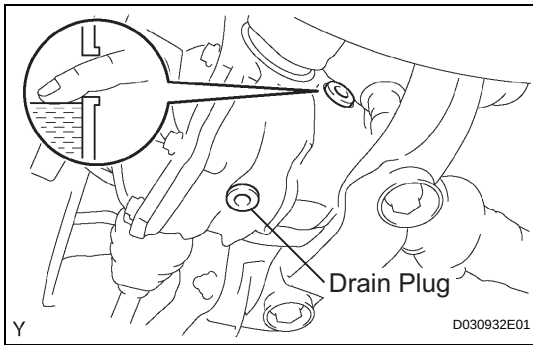
6. INSPECT TRANSAXLE FLUID

(See page [AX-130](#) for U151E, [AX-130](#) for U151F)

7. INSPECT TRANSFER OIL (for 4WD)

(See page [TF-3](#))



**8. INSPECT REAR DIFFERENTIAL OIL (for 4WD)**

- (a) Remove the filler plug and feel inside the hole with your finger. Check that the oil comes to within 5 mm (0.20 in.) of bottom edge of the hole. If the level is low, add oil until it begins to run out of the filler hole.

Grade:

(See page [DF-3](#))

BODY

GENERAL MAINTENANCE

1. TIGHTEN BOLTS AND NUTS ON CHASSIS AND BODY

- (a) Where necessary, tighten all the parts of the chassis.
 - Front axle and suspension
 - Drive train
 - Rear axle and suspension
 - Brake system
 - Engine mounting, etc.
- (b) Where necessary, tighten all the parts of the body.
 - Seat belt system
 - Seat
 - Doors and hood
 - Body mountings
 - Fuel tank
 - Exhaust pipe system, etc.

2. REPLACE AIR CONDITIONING FILTER

- (a) Remove the glove compartment assembly.
- (b) Remove the filter case from the filter outlet.
- (c) Remove the filter from the filter case.
- (d) Replace the filter with a new one.
- (e) Installation is in the reverse order.

3. ROAD TEST

- (a) Check the engine and chassis for abnormal noises.
- (b) Check that the vehicle does not wander or pull to one side.
- (c) Check that the brakes work properly and do not drag.
- (d) Do setting of the parking brake shoes.

4. BODY INSPECTION

- (a) Check the body exterior for dents, scratches and rust.
- (b) Check the underbody for rust and damage. If necessary, replace or repair.

5. FINAL INSPECTION

- (a) Check the operation of the body parts.
 - (1) Hood
 - Auxiliary catch operates properly.
 - Hood locks securely when closed.
 - (2) Front and rear doors
 - Door locks operate properly.
 - Doors close properly.
 - (3) Back door
 - Door lock operates properly.
 - (4) Seats
 - Seat adjusts easily and locks securely in any position.
 - Front seatback locks securely in any position.

- Folding-down rear seatbacks lock securely.
- (5) Be sure to deliver a clean car. Especially check.
 - Steering wheel
 - Shift lever knob
 - All switch knobs
 - Door handles
 - Seats