

OUTSIDE VEHICLE

MA001-43

GENERAL MAINTENANCE

Performing these 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 time (month) elapsed, whichever reaches the specification first.
- Maintain similar intervals between periodic maintenance unless noted.
- Failing to check each vehicle part could lead to poor engine performance and increase exhaust emissions.

2. TIRES

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

3. WHEEL NUTS

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

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 fluid.
- (b) If you smell gasoline fumes or notice any leak, locate the cause, find and correct it.

7. DOORS AND ENGINE HOOD

- (a) Check that all of the doors and the trunk lid 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

MA002-51

GENERAL MAINTENANCE

Performing these 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.
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2. LIGHTS

- (a) Check that the headlights, stop lights, taillights, turn signal lights, and other lights are all working.
- (b) Check that the headlights are aimed properly.

3. WARNING LIGHTS AND BUZZERS

Check that all the warning lights and buzzers are working.

4. HORN

Check that the horn is working.

5. WINDSHIELD GLASS

Check for scratches, pits or abrasions.

6. WINDSHIELD WIPER AND WASHER

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

7. WINDSHIELD DEFROSTER

When the heater or air conditioner is on the defroster setting, check that air comes out of the defroster outlet.

8. REAR VIEW MIRROR

Check that the rear view mirror is securely mounted.

9. SUN VISORS

Check that the sun visors move freely and are securely mounted.

10. STEERING WHEEL

Check that the steering wheel has the proper freeplay. Also check for steering difficulty, freeplay in the steering wheel and unusual noises.

11. SEATS

- (a) Check that the seat adjusters operate smoothly.
- (b) Check that all the latches lock securely in all positions.
- (c) Check that the head restraints move up and down smoothly and that the locks hold securely in all latched positions.
- (d) When the rear seatbacks are folded down, check if 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

Check the pedal for smooth operation and uneven pedal effort and catching.

14. BRAKE PEDAL (See page BR-6)

- (a) Check the pedal for smooth operation.
- (b) Check that the pedal has the proper reserve distance and freeplay.
- (c) Check the brake booster function.

15. BRAKES

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

16. PARKING BRAKE (See page BR-9)

- (a) Check that the parking brake pedal has the proper range of motion.
- (b) On a low incline, check that the parking brake alone can stabilize the vehicle.

17. AUTOMATIC TRANSMISSION "PARK" MECHANISM

- (a) Check the lock release mechanism of 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 stabilized.

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.
- Determine the appropriate time to service the vehicle using either miles driven or time (month) elapsed, whichever reaches the specification first.
- Maintain similar intervals between periodic maintenance unless noted.
- Failing to check each vehicle part could lead to poor engine performance and increase exhaust emissions.

2. WINDSHIELD WASHER FLUID

Check that there is sufficient fluid in the tank.

3. ENGINE COOLANT LEVEL

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.
(see page [CO-15](#))
- (b) Check the hoses for cracks, kinks, rotting and loose connections.

5. BATTERY ELECTROLYTE LEVEL

Check that the electrolyte level of all the battery cells is between the upper and lower lines on the case.

6. BRAKE FLUID LEVEL

Check that the brake fluid levels are near the upper level line on the see-through reservoirs.

7. ENGINE DRIVE BELT

Check the drive belt for fraying, cracks, wear or oiliness.

8. ENGINE OIL LEVEL

Check if the level of engine oil is between "F" and "L" on the dipstick with the engine turned off.

9. POWER STEERING FLUID LEVEL

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

10. AUTOMATIC TRANSMISSION 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". Then shift 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:

After extended driving under harsh conditions (high speeds, hot weather, heavy traffic or pulling a trailer), let the engine cool down for approximately 30 minutes before checking the fluid level.

11. EXHAUST SYSTEM

Check for unusual exhaust sounds or abnormal exhaust fumes. Locate the cause and correct it.

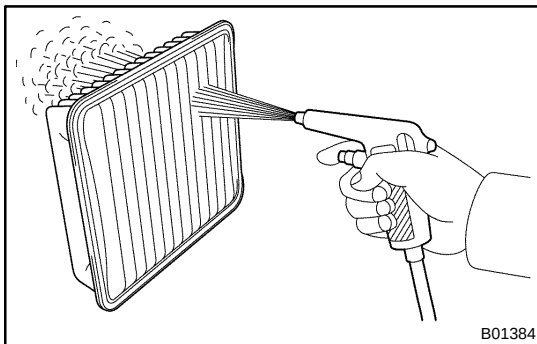
ENGINE INSPECTION

MA004-19

HINT:

Inspect these items on a cooled down engine.

1. **REPLACE TIMING BELT**
(See page [EM-17](#))
2. **INSPECT DRIVE BELT**
(See page [CH-1](#))
3. **REPLACE SPARK PLUGS**
(See page [IG-1](#))



4. **INSPECT AIR FILTER**
 - (a) Remove the air filter.
 - (b) Visually check that the air filter is not excessively damaged or oily.

If necessary, replace the air filter.

 - (c) Clean the filter with compressed air.
First blow from the inside of the filter thoroughly then repeat from the outside.
 - (d) Reinstall the air filter.

5. **REPLACE AIR FILTER**

Replace the air filter with a new one.

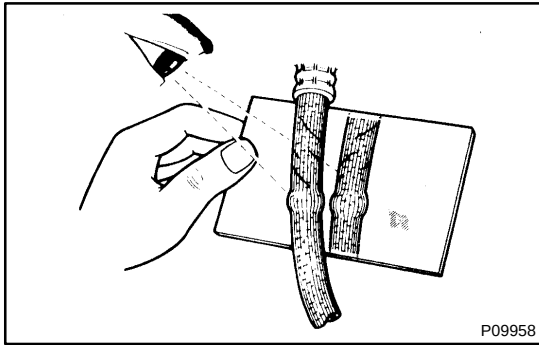
6. **REPLACE ENGINE OIL AND OIL FILTER**
(See page [LU-2](#))
7. **REPLACE ENGINE COOLANT**
(See page [CO-2](#))
8. **INSPECT GASKET IN FUEL TANK CAP**
(See page [EC-7](#))
9. **INSPECT FUEL LINES AND CONNECTIONS, FUEL TANK VAPOR VENT SYSTEM HOSES AND FUEL TANK BAND**

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

10. **INSPECT EXHAUST PIPES AND MOUNTINGS**

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

11. **INSPECT VALVE CLEARANCE**
(See page [EM-5](#))



BRAKE INSPECTION

MA01R-13

1. INSPECT BRAKE LINE PIPES AND HOSES

HINT:

Work in a well-lighted area. Check the entire circumference and length of the brake hoses using a mirror if necessary. Turn the front wheels fully to the right or left before beginning.

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

2. INSPECT FRONT AND REAR BRAKE PADS AND DISCS

(FRONT PADS: See page [BR-24](#))

(REAR PADS: See page [BR-33](#))

(FRONT DISCS: See page [BR-29](#))

(REAR DISCS: See page [BR-38](#))

3. INSPECT OR CHANGE BRAKE FLUID

(See page [BR-4](#))

Fluid: SAE J1703 or FMVSS No.116 DOT3

CHASSIS INSPECTION

MA01S-07

1. INSPECT STEERING LINKAGE

- (a) Check the steering wheel freeplay.
(see page [SR-8](#))
- (b) Check the steering linkage for looseness or damage.
Check that:
 - Check that the tie rod ends do not have excessive play.
 - Check that the dust seals and boots are not damaged.
 - Check that the boot clamps are not loose.

2. INSPECT STEERING GEAR HOUSING OIL

Check the steering gear housing for oil leakage.

3. INSPECT DRIVE SHAFT BOOTS

Check the drive shaft boots for loose clamps, leakage or damage.

4. INSPECT LOWER BALL JOINTS AND DUST COVERS

- (a) Jack up the front of the vehicle and support it with stands.
- (b) Make sure the front wheels are in a straight-ahead position, and depress the brake pedal.
- (c) Jack up the lower suspension arm until there is about half a load on the front coil spring.
- (d) Inspect the dust cover for damage.

5. CHECK AUTOMATIC TRANSMISSION AND DIFFERENTIAL

Visually check the automatic transmission and differential for oil leakage.

6. CHECK MANUAL TRANSMISSION AND DIFFERENTIAL

Visually check the manual transmission and differential for oil leakage.

If leakage is found, check for the cause and repair it.

7. **LSD torque sensing type:**
REPLACE DIFFERENTIAL OIL (See page [SA-73](#))
8. **Except wagon model:**
ROTATE TIRES (See page [SA-3](#))

BODY INSPECTION

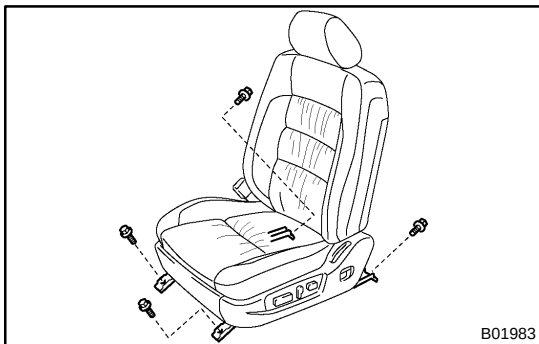
MA01T-07

1. CANADA:

TIGHTEN BOLTS AND NUTS ON CHASSIS AND BODY

(a) Where necessary, tighten all parts of the chassis.

- Front axle and suspension
- Rear axle and suspension
- Drive train
- Brake system
- Engine mounting, etc.

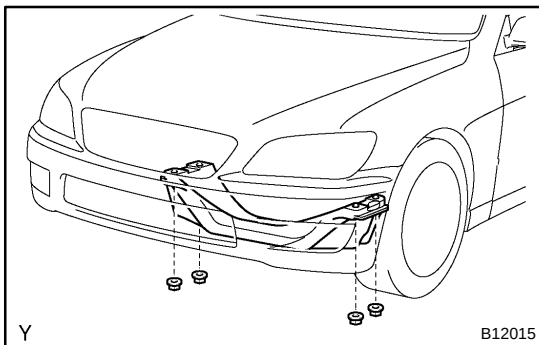


(b) Where necessary, tighten all parts of the body.

- Front seat mount bolts

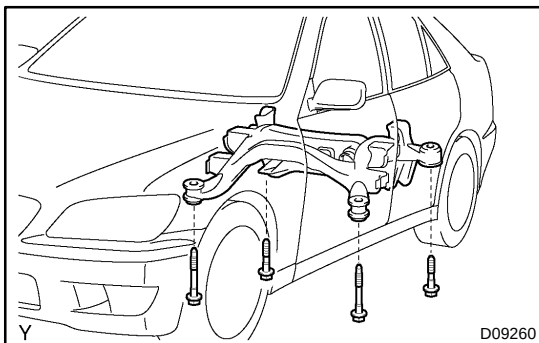
Torque: 37 N·m (375 kgf·cm, 27 ft·lbf)

- Seat belt system
- Doors and hood
- Body mountings
- Fuel tank
- Exhaust pipe system, etc.



- Front suspension member-to-body mounting bolts

Torque: 98 N·m (1,000 kgf·cm, 72 ft·lbf)



- Rear axle beam assembly-to-body mounting nuts

Torque: 127 N·m (1,300 kgf·cm, 94 ft·lbf)

2. REPLACE AIR REFINER FILTER (See page [AC-93](#))

3. 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.

4. 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 and drum.