

# 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 performs 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-2](#))

### 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

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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, free play in the steering wheel 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 lever has the proper amount of travel (see page [PB-1](#)).
- (b) On a safe incline, check that the vehicle is held securely with only the parking brake applied.

**17. AUTOMATIC TRANSAXLE "PARK" MECHANISM**

- (a) Check the lock release button of the shift lever for proper and smooth operation.
- (b) When the shift 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

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- Maintain similar intervals between periodic maintenance, unless otherwise noted.
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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 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.

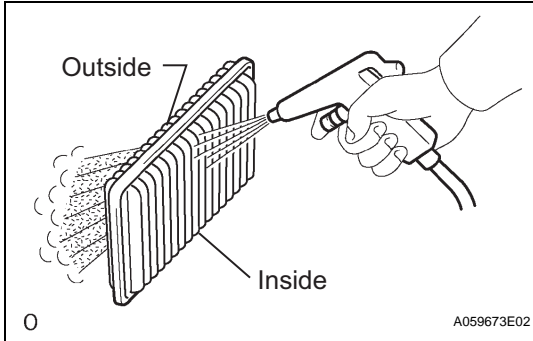
### 9. AUTOMATIC TRANSMISSION FLUID (See page [AX-93](#))

### 10. EXHAUST SYSTEM

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

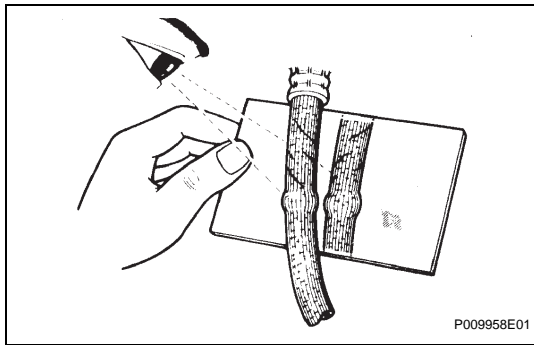
# ENGINE

## GENERAL MAINTENANCE



1. **INSPECT DRIVE BELT**
2. **INSPECT SPARK PLUGS (See page [IG-5](#))**
3. **INSPECT AIR CLEANER 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) Reinstall the air filter.
  - (d) Clean the filter with compressed air.
 

HINT:  
First blow from the inside of the filter thoroughly then repeat from the outside.
4. **REPLACE AIR CLEANER FILTER**
  - (a) Replace the air filter with a new one.
5. **REPLACE ENGINE OIL AND OIL FILTER (See page [LU-4](#))**
6. **REPLACE ENGINE COOLANT (See page [CO-8](#))**
7. **INSPECT GASKET IN FUEL TANK CAP (See page [EC-24](#))**
8. **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 and tank band looseness.
9. **INSPECT EXHAUST PIPES AND MOUNTINGS**
  - (a) Visually check the pipes, hangers and connections for severe corrosion, leaks or damage.
10. **INSPECT VALVE CLEARANCE (See page [EM-9](#))**



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## 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 BRAKE LININGS AND DRUMS
- (a) Check the brake linings and drums. Also check the brake linings of parking brake.
- #### 3. INSPECT FRONT BRAKE
- (a) Check the front brake pads (see page [BR-51](#)).
  - (b) Check the front brake discs (see page [BR-51](#)).
- #### 4. INSPECT REAR BRAKE
- (a) Check the rear brake drums (see page [BR-62](#)).
  - (b) Check the rear brake shoe linings (see page [BR-62](#)).

# CHASSIS

## GENERAL MAINTENANCE

### 1. INSPECT STEERING LINKAGE AND GEAR HOUSING

- (a) Check the steering wheel free play.
- (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 AUTOMATIC TRANSAXLE FLUID (See page [AX-93](#))

### 5. INSPECT MANUAL TRANSAXLE OIL (See page [MX-2](#))

# 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.
- (b) If the filter is contaminated with foreign matter, clean or replace the filter.

### 3. TIRE ROTATION (See page [TW-2](#))