

2008 Scion xD

2008 MAINTENANCE Maintenance - xD

2008 MAINTENANCE**Maintenance - xD****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 INSPECTION)**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.

NOTE: 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.

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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

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- 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 **ADJUSTMENT**).
- 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****1. GENERAL NOTES**

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whichever reaches the specification first.

- 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 TRANSAXLE FLUID (See ON-VEHICLE INSPECTION)**10. MANUAL TRANSAXLE OIL (See ON-VEHICLE INSPECTION)****11. 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 ON-VEHICLE INSPECTION)****2. INSPECT SPARK PLUGS (See ON-VEHICLE INSPECTION)****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.

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- 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.

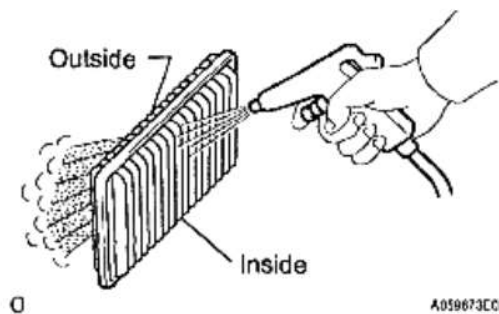


Fig. 1: Cleaning Air Filter

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

4. REPLACE AIR CLEANER FILTER

- a. Replace the air filter with a new one.

5. REPLACE ENGINE OIL AND OIL FILTER

- a. Replace engine oil and oil filter (See REPLACEMENT)

6. REPLACE ENGINE COOLANT

- a. Replace engine coolant (See REPLACEMENT)

7. INSPECT GASKET IN FUEL TANK CAP (See ON-VEHICLE INSPECTION)

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.

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.

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- a. Using a mirror, check the entire circumference and length of the brake lines and hoses for:

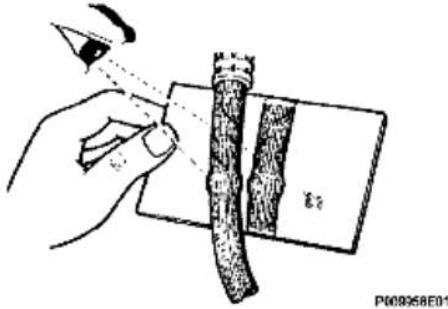


Fig. 2: Inspecting Brake Lines And Hoses

Courtesy of TOYOTA MOTOR SALES, U.S.A., INC.

- 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 INSPECTION).
 b. Check the front brake discs (See INSPECTION).

4. INSPECT REAR BRAKE

- a. Check the rear brake drums (See INSPECTION).
 b. Check the rear brake shoe linings (See INSPECTION).

CHASSIS

GENERAL MAINTENANCE

1. INSPECT STEERING LINKAGE AND GEAR HOUSING

- a. Check the steering wheel free play.

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- 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 ON-VEHICLE INSPECTION)**5. INSPECT MANUAL TRANSAXLE OIL (See ON-VEHICLE INSPECTION)****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.

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- 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 INSPECTION)