

Last Modified: 9-7-2011	6.4 N	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM00000110I014X
Title: MAINTENANCE: BODY: GENERAL MAINTENANCE (2011 RAV4)		

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
- Drivetrain
- 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. REPLACE AIR CONDITIONING FILTER

- Remove the glove compartment assembly.
- Remove the filter case from the filter outlet.
- Remove the filter from the filter case.
- Replace the filter with a new one.
- Installation is in the reverse order.

3. 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



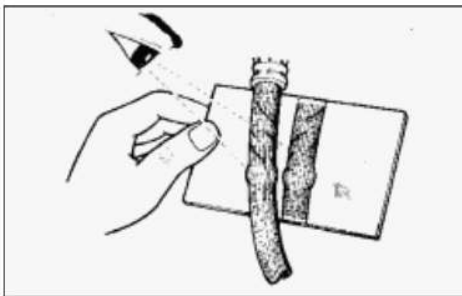
Last Modified: 9-7-2011	6.4 N	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM00000110D015X
Title: MAINTENANCE: BRAKE: GENERAL MAINTENANCE (2011 RAV4)		

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 PEDAL

HINT: [INFO](#)

3. INSPECT FRONT BRAKE PADS AND DISCS

(a) Check the front brake pads and discs [INFO](#) .

4. INSPECT REAR BRAKE PADS AND DISCS

(a) Check the rear brake pads and discs [INFO](#) .

5. INSPECT PARKING BRAKE

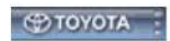
HINT: [INFO](#)

6. INSPECT BRAKE FLUID

(a) Inspect or change the brake fluid [INFO](#) .

Fluid:

SAE J1703 or FMVSS No. 116 DOT3



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Model Year: 2011	Model: RAV4	Doc ID: RM00000110E01CX
Title: MAINTENANCE: CHASSIS: GENERAL MAINTENANCE (2011 RAV4)		

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 LEVEL

- (a) Visually check the transmission for fluid leakage. If oil is leaking, find the cause and repair it.

TYPE	SEE PROCEDURES
U151E	INFO
U151F	INFO

5. INSPECT TRANSFER OIL (for 4WD)

- (a) Visually check the transfer for oil leakage. If oil is leaking, find the cause and repair it.

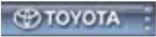
TYPE	SEE PROCEDURES
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TYPE	SEE PROCEDURES
Front Oil	INFO
Rear Oil	INFO

6. INSPECT REAR DIFFERENTIAL OIL (for 4WD)

(a) For the rear differential oil inspection, refer to the following procedures [INFO](#) .

7. ROTATE TIRES [INFO](#)



Last Modified: 9-7-2011	6.4 N	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM00000110A01CX
Title: MAINTENANCE: ENGINE: GENERAL MAINTENANCE (2011 RAV4)		

GENERAL MAINTENANCE

1. INSPECT DRIVE BELT

TYPE	SEE PROCEDURES
2GR-FE	INFO
2AR-FE	INFO

2. REPLACE SPARK PLUGS

TYPE	SEE PROCEDURES
2GR-FE	INFO
2AR-FE	INFO

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

TYPE	SEE PROCEDURES
2GR-FE	INFO
2AR-FE	INFO

5. REPLACE ENGINE COOLANT

TYPE	SEE PROCEDURES
2GR-FE	INFO
2AR-FE	INFO

6. INSPECT GASKET IN FUEL TANK CAP

TYPE	SEE PROCEDURES
2GR-FE	INFO

TYPE	SEE PROCEDURES
2AR-FE	INFO

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

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

8. INSPECT EXHAUST PIPES AND MOUNTINGS

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



Last Modified: 9-7-2011	6.4 N	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM000000UZE06CX
Title: MAINTENANCE: INSIDE VEHICLE: GENERAL MAINTENANCE (2011 RAV4)		

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. 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. CLUTCH PEDAL

- (a) Check that the clutch pedal operates smoothly.
- (b) Check that the pedal has the proper free play.

15. 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.

16. BRAKES

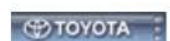
- (a) In a safe place, check that the vehicle remains straight when applying the brakes.

17. PARKING BRAKE

- (a) Check that the parking brake lever has the proper amount of travel  .
- (b) On a safe incline, check that the vehicle is held securely with only the parking brake applied.

18. 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.



Last Modified: 9-7-2011	6.4 N	From: 201008
Model Year: 2011	Model: RAV4	Doc ID: RM000000UZD060X
Title: MAINTENANCE: OUTSIDE VEHICLE: GENERAL MAINTENANCE (2011 RAV4)		

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

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.



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Model Year: 2011	Model: RAV4	Doc ID: RM000000UZFO61X
Title: MAINTENANCE: UNDER HOOD: GENERAL MAINTENANCE (2011 RAV4)		

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 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. 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.

TYPE	SEE PROCEDURES
2GR-FE	INFO
2AR-FE	INFO

9. AUTOMATIC TRANSAXLE FLUID LEVEL

TYPE	SEE PROCEDURES
U151E	INFO
U151F	INFO

10. EXHAUST SYSTEM

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

