

Last Modified: 3-27-2012	6.4 N	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM0000019FS055X
Title: MAINTENANCE: BODY: GENERAL MAINTENANCE (2013 FR-S)		

GENERAL MAINTENANCE

1. BODY INSPECTION

- (a) Check the body exterior for dents, scratches and rust.
- (b) Check the underbody for rust and damage.

If necessary, replace the damaged part or repair the damaged area.

2. REPLACE AIR CONDITIONING FILTER

- (a) Remove the air conditioning filter INFO.
- (b) Visually inspect the surface of the air conditioning filter.
- (c) If the air conditioning filter is contaminated with foreign matter, replace it.

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) Set the parking brake shoes and drums.

4. TIGHTEN BOLTS AND NUTS ON CHASSIS AND BODY

- (a) If necessary, tighten the bolts and nuts on the chassis parts listed below.
 - Front axle and suspension
 - Drivetrain
 - Rear axle and suspension
 - Brake system
 - Engine mounts
 - Other chassis parts
- (b) If necessary, tighten the bolts and nuts on the body parts listed below.
 - Seat belt system
 - Seats
 - Doors and hood
 - Body mounts
 - Fuel tank
 - Exhaust system
 - Other body parts

5. FINAL INSPECTION

- (a) Check the operation of the body parts.
 - (1) Hood
 - Auxiliary catch operates properly.
 - Hood locks securely when closed.
 - (2) Front doors

- Door locks operate properly.
- Doors close properly.

(3) Luggage compartment door

- Luggage compartment door opens and closes properly.

(4) Seats

- Seats adjust easily and lock securely in any position.
- Front seatbacks lock securely in any position.
- Fold-down rear seatbacks lock securely.

(5) Be sure to deliver a clean car. Make sure to check the following:

- Steering wheel
- Shift lever knob
- All switches and knobs
- Door handles
- Seats



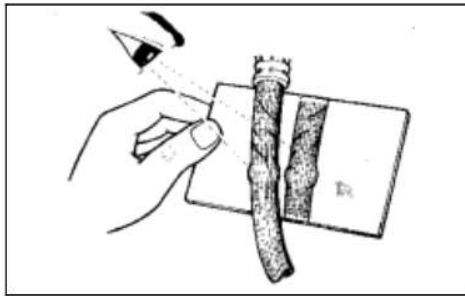
Last Modified: 3-27-2012	6.4 N	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000001AQU061X
Title: MAINTENANCE: BRAKE: GENERAL MAINTENANCE (2013 FR-S)		

GENERAL MAINTENANCE

1. INSPECT BRAKE LINE PIPES 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
- Bends
- Corrosion
- Leaks
- 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 or the exhaust system.
- (d) Check that the lines are installed properly and pass through the center of the grommets.

2. INSPECT BRAKE PEDAL

- (a) Check the brake pedal [INFO](#) for Automatic Transmission, [INFO](#) for Manual Transmission).

3. INSPECT PARKING BRAKE

- (a) Check the parking brake shoe clearance and parking brake lever travel [INFO](#) .
- (b) Check the parking brake cables to ensure that they are not deformed or binding.

4. INSPECT BRAKE LININGS AND DRUMS

- (a) Check the parking brake linings and drums.

5. INSPECT FRONT BRAKE

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

6. INSPECT REAR BRAKE

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

7. INSPECT OR CHANGE BRAKE FLUID

(a) Inspect or change the brake fluid INFO .



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Model Year: 2013	Model: FR-S	Doc ID: RM000001AQV066X
Title: MAINTENANCE: CHASSIS: GENERAL MAINTENANCE (2013 FR-S)		

GENERAL MAINTENANCE

1. INSPECT STEERING LINKAGE AND GEAR HOUSING

- (a) Check the steering wheel free play [INFO](#) .
- (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 box is not damaged.
 - (5) Check that the connectors are properly connected to the steering gear box.

2. INSPECT SUSPENSION BALL JOINT AND DUST COVER

- (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) Jack up the lower suspension arm until there is about half a load on the front suspension.
 - (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 CLUTCH FLUID LEVEL AND SYSTEM OPERATION

- (a) Check the clutch fluid level [INFO](#) .

4. INSPECT DRIVE SHAFT BOOTS

- (a) Check the drive shaft boots for loose clamps, cracks, grease leaks, kinks or damage.

5. INSPECT AUTOMATIC TRANSMISSION FLUID

- (a) Visually check the automatic transmission for fluid leakage. If fluid is leaking, find the cause and repair it.
- (b) Inspect the automatic transmission fluid [INFO](#) .

6. REPLACE AUTOMATIC TRANSMISSION FLUID

- (a) Replace the automatic transmission fluid [INFO](#) .

7. INSPECT MANUAL TRANSMISSION OIL

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

(b) Inspect the manual transmission oil [INFO](#) .

8. INSPECT REAR DIFFERENTIAL OIL

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

(b) Inspect the rear differential oil [INFO](#) .

9. PERFORM TIRE ROTATION [INFO](#)

10. INSPECT FRONT AND REAR SUSPENSION

(a) Check the front and rear suspension.

SUSPENSION TYPE	SEE PROCEDURE
Front Suspension	INFO
Rear Suspension	INFO



Last Modified: 3-27-2012	6.4 N	From: 201203
Model Year: 2013	Model: FR-S	Doc ID: RM000001AQT066X
Title: MAINTENANCE: ENGINE: GENERAL MAINTENANCE (2013 FR-S)		

GENERAL MAINTENANCE

HINT:

Perform these procedures after the engine has cooled down.

1. INSPECT DRIVE BELT

- (a) Inspect the drive belt [INFO](#) .

2. INSPECT ENGINE OIL

- (a) Inspect the engine oil [INFO](#) .

3. REPLACE ENGINE OIL AND OIL FILTER

- (a) Replace the engine oil and oil filter [INFO](#) .

4. INSPECT ENGINE COOLANT

- (a) Inspect the engine coolant [INFO](#) .

5. REPLACE ENGINE COOLANT

- (a) Replace the engine coolant [INFO](#) .

6. REPLACE SPARK PLUGS

- (a) Replace the spark plugs [INFO](#) .

7. REPLACE FUEL FILTER

- (a) Replace the fuel filter [INFO](#) .

8. INSPECT BATTERY

- (a) Check the battery [INFO](#) .

9. INSPECT AIR CLEANER FILTER ELEMENT

- (a) Remove the air cleaner filter element.
- (b) Check that the air cleaner filter element is not excessively dirty. If the air cleaner filter element is excessively dirty, replace the air cleaner filter element.
- (c) Clean the air cleaner filter element with compressed air.
- (d) Reinstall the air cleaner filter element.

10. INSPECT EXHAUST PIPES AND MOUNTINGS

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

11. INSPECT FUEL TANK CAP ASSEMBLY

- (a) Inspect the fuel tank cap gasket [INFO](#) .

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

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



Last Modified: 3-27-2012	6.4 N	From: 201203
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Title: MAINTENANCE: INSIDE VEHICLE: GENERAL MAINTENANCE (2013 FR-S)		

GENERAL MAINTENANCE

These are maintenance and inspection items that are considered to be the owner's responsibility.

The owner can do them or they can have them done at a service center.

These items include those that should be checked on a daily basis, those that in most cases do not require special tools, and those that are considered to be reasonable for the owner to do.

General maintenance items and procedures are as follows:

1. GENERAL NOTES

- Maintenance requirements vary depending on the country.
- Check the maintenance schedule in the owner's manual supplement.
- Determine the appropriate time to service the vehicle using either miles driven or time (months) 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. 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 if the horns are working correctly.

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 if the wipers streak. Replace them if necessary.

7. WINDSHIELD DEFROSTER

- (a) When the air conditioning is on the defroster setting, check that air comes out of the defroster outlets.

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 **INFO** .

11. SEATS

- (a) Check that the seat adjusters, seatback recliner and other 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 components, 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. Check that the pedal does not have uneven resistance or stick 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 **INFO** for Automatic Transmission, **INFO** for Manual Transmission).
- (c) Start the engine and check the brake booster function.
- (d) Start the engine and check the brake system indicator.

15. BRAKES

- (a) In a safe place, check that the vehicle does not pull or lead to the side when applying the brakes.

16. PARKING BRAKE

- (a) Check that the parking brake lever has the proper amount of travel **INFO** .
- (b) On a slight grade, check that the parking brake alone can hold the vehicle in place.

17. AUTOMATIC TRANSMISSION "PARK" MECHANISM

- (a) Check the shift lever for proper and smooth operation.
- (b) When the shift lever is in P and all brakes are released in an area that has a slight grade, check that the vehicle is stable.

18. FLOOR MATS

- (a) Check that the correct floor mats are used, and that they are properly installed.



Last Modified: 3-27-2012	6.4 N	From: 201203
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Title: MAINTENANCE: OUTSIDE VEHICLE: GENERAL MAINTENANCE (2013 FR-S)		

GENERAL MAINTENANCE

These are maintenance and inspection items that are considered to be the owner's responsibility.

The owner can do them or they can have them done at a service center.

These items include those that should be checked on a daily basis, those that in most cases do not require special tools, and those that are considered to be reasonable for the owner to do.

General maintenance items and procedures 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.

2. TIRES

- Check the tire inflation pressure with a gauge. Make adjustments if necessary.
- Check the surfaces of the 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

- Check under the vehicle for leaking fuel, oil, water and other fluids.

NOTICE:

If you smell fuel or notice any leaks, locate the cause and correct it.

7. DOORS AND ENGINE HOOD

- Check that all of the doors and the hood operate smoothly, and that all the latches lock securely.
- When the primary latch is released, check that the engine hood secondary latch prevents the hood from opening.



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Title: MAINTENANCE: UNDER HOOD: GENERAL MAINTENANCE (2013 FR-S)		

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 (months) elapsed, whichever reaches the specification first.
- Maintain similar intervals between periodic maintenance unless noted.
- Failing to check each maintenance item 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 and bugs.
- (b) Check the radiator and hoses for:

- Damage
- Cracks
- Kinks
- Corrosion
- Rot
- Clogging
- Leaks

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 level is near the upper level line on the see-through reservoirs.

7. ENGINE DRIVE BELT

- (a) Check the drive belt for fraying, cracks, wear or oil.

8. ENGINE OIL LEVEL

- (a) Check that the engine oil level is between the full level and low level marks on the dipstick with the engine turned off.

9. EXHAUST SYSTEM

- (a) Visually inspect for severe corrosion, cracks, holes or loose supports.

HINT:

If any change in the sound of the exhaust or smell of the exhaust fumes is noticed, inspect and repair the exhaust system.

