

# PERIODIC MAINTENANCE SERVICES

***PM***

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**PERIODIC MAINTENANCE SERVICES > General Description**

**GENERAL DESCRIPTION**

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Be sure to perform periodic maintenance in order to maintain vehicle performance and find problems before they occur.

## PERIODIC MAINTENANCE SERVICES > Schedule

### MAINTENANCE SCHEDULE 1

For periodic maintenance of below 120,000 km (75,000 miles) or 96 months, carry out inspection by referring to the following table. For a maintenance period gone beyond these tables, apply them repeatedly as a set of 120,000 km (75,000 miles) or 96 months.

		Maintenance interval [Number of months or km (miles), whichever occurs first]							
Months		12	24	36	48	60	72	84	96
× 1,000 km		15	30	45	60	75	90	105	120
× 1,000 miles		9	19	28	38	47	56	66	75
Engine oil		R	R	R	R	R	R	R	R
Engine oil filter		R	R	R	R	R	R	R	R
Spark plug								R	
									Replace every 105,000 km (66,000 miles).
V-belt		I	I	I	I	I	I	I	I
Fuel line			I		I		I		I
Fuel filter	Europe area								R
	Except for Europe area						R		
Air cleaner element		Check every 12 months or 15,000 km (9,000 miles), and replace every 36 months or 45,000 km (28,000 miles).							
Cooling system			I		I		I		I
Engine coolant		Replace after the first 11 years or 220,000 km (137,500 miles), and every six years or 120,000 km (75,000 miles) thereafter.							
CVTF			I		I		I		I
Front & rear differential gear oil			I		R		I		R
Check the operation of the parking brake and service brake system, and brake line			P		P		P		P
Brake fluid			R		R		R		R
Disc brake pad and disc		I	I	I	I	I	I	I	I
Suspension			I		I		I		I

		Maintenance interval [Number of months or km (miles), whichever occurs first]								
Wheel bearing									(I)	
Axle boots and joints		I	I	I	I	I	I	I	I	Note (2)
Steering system			I		I		I		I	Note (2)
A/C filter	Europe area	I	R	I	R	I	R	I	R	Note (6)
	Except for Europe area	Replace every 12 months or 12,000 km (7,500 miles), whichever is earlier.								

Symbols used:

R: Replace

I: Inspection

P: Perform

(I): Recommended service for safe vehicle operation

**Note:**

1. When the vehicle is used under severe condition, the oil and the oil filter should be replaced more often.
2. When the vehicle is used under severe condition, check every 15,000 km (9,000 miles) or 12 months, whichever is earlier.
3. When the vehicle is used under severe condition, the air cleaner element should be replaced more frequently than the periodic replacement.
4. When the vehicle is used under severe conditions such as towing a trailer, differential gear oil (both front and rear) should be replaced more frequently.
5. When the vehicle is used under severe condition such as high humidity area or mountain area, replace every 15,000 km (9,000 miles) or 12 months, whichever is earlier.
6. When the vehicle is used in extremely dusty conditions, the A/C filter should be replaced more frequently than the periodic replacement.

PERIODIC MAINTENANCE SERVICES > Schedule

**MAINTENANCE SCHEDULE 2**

Item	Maintenance interval	Repeat short distance drive	Repeat rough/muddy road drive	Extremely cold weather area	Salt or other corrosive used or coastal area	High humidity or mountain area	Repeat towing trailer
Engine oil		Replace more frequently.		Replace more frequently.			Replace more frequently.

Item		Maintenance interval	Repeat short distance drive	Repeat rough/muddy road drive	Extremely cold weather area	Salt or other corrosive used or coastal area	High humidity or mountain area	Repeat towing trailer
Engine oil filter			Replace more frequently.		Replace more frequently.			Replace more frequently.
Fuel line		12 months				I		
		15,000 km						
		9,000 miles						
CVTF		45,000 km						R
		28,000 miles						
Front and rear differential oil								Replace more frequently.
Brake line		12 months	I	I		I		I
		15,000 km						
		9,000 miles						
Brake fluid		12 months					R	
		15,000 km						
		9,000 miles						
Brake pad		12 months	I	I		I		I
		15,000 km						
		9,000 miles						
Parking brake		12 months	I	I		I		I
		15,000 km						
		9,000 miles						
Suspension	Europe area	12 months		I	I	I		
		15,000 km						
		9,000 miles						
	Except for Europe area	6 months		I	I	I		
		12,500 km						

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## PERIODIC MAINTENANCE SERVICES > Engine Oil

### INSPECTION

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Refer to "LUBRICATION (H4DO)" section for engine oil inspection.  [Ref. to LUBRICATION\(H4DO\)>Engine Oil>INSPECTION.](#)

## PERIODIC MAINTENANCE SERVICES > Engine Oil

### REPLACEMENT


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Refer to "LUBRICATION (H4DO)" section for engine oil replacement.  [Ref. to LUBRICATION\(H4DO\)>Engine Oil>REPLACEMENT.](#)

## PERIODIC MAINTENANCE SERVICES > Engine Oil Filter

### REPLACEMENT

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Refer to "LUBRICATION (H4DO)" section for engine oil filter replacement.  [Ref. to LUBRICATION\(H4DO\)>Oil Filter.](#)



## PERIODIC MAINTENANCE SERVICES > Spark Plug

### REPLACEMENT


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Refer to "IGNITION (H4DO)" section for spark plug replacement.  [Ref. to IGNITION\(H4DO\)>Spark Plug.](#)

## PERIODIC MAINTENANCE SERVICES > V-belt

### INSPECTION

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Refer to "MECHANICAL (H4DO)" section for V-belt inspection.  [Ref. to MECHANICAL\(H4DO\)>V-belt>INSPECTION.](#)

## PERIODIC MAINTENANCE SERVICES > V-belt

### REPLACEMENT

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Refer to "MECHANICAL (H4DO)" section for V-belt replacement.  [Ref. to MECHANICAL\(H4DO\)>V-belt.](#)

## PERIODIC MAINTENANCE SERVICES > Fuel Line

### INSPECTION

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The fuel line is located mostly internally, so check pipes, areas near pipes, and engine compartment piping for rust, hose and tube damage, loose band, etc. If faulty parts are found, repair or replace them.

 [Ref. to FUEL INJECTION \(FUEL SYSTEMS\)\(H4DO\)>Fuel Delivery and Evaporation Lines>INSPECTION.](#)

## PERIODIC MAINTENANCE SERVICES > Fuel Filter

### REPLACEMENT

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For fuel filter replacement procedure, refer to "FUEL INJECTION (FUEL SYSTEMS) (H4DO)".  [Ref. to FUEL INJECTION \(FUEL SYSTEMS\)\(H4DO\)>Fuel Filter.](#)

## PERIODIC MAINTENANCE SERVICES > Fuel Filter

### INSPECTION


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If the filter is clogged, or if the replacement interval has been reached, replace it.

## PERIODIC MAINTENANCE SERVICES > Air Cleaner Element

### REPLACEMENT

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Refer to "INTAKE (INDUCTION) (H4DO)" section for air cleaner element replacement.  [Ref. to INTAKE \(INDUCTION\)\(H4DO\)>Air Cleaner Element.](#)

## PERIODIC MAINTENANCE SERVICES > Cooling System


### INSPECTION

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#### 1. RADIATOR

Check that there are no engine coolant leaks from the hose connections. Refer to "COOLING (H4DO)" section for radiator inspection.  [Ref. to COOLING\(H4DO\)>Radiator>INSPECTION.](#)

#### 2. RADIATOR CAP

Refer to "COOLING (H4DO)" section for radiator cap inspection.  [Ref. to COOLING\(H4DO\)>Radiator Cap>INSPECTION.](#)

#### 3. COOLING FAN

Refer to "COOLING (H4DO)" section for cooling fan inspection.  [Ref. to COOLING\(H4DO\)>Radiator Fan System>INSPECTION.](#)

#### 4. COOLING SYSTEM

Start the engine, and then inspect that it does not overheat or it is not cooled excessively. If it overheats or it is cooled excessively, check the cooling system.

## PERIODIC MAINTENANCE SERVICES > Engine Coolant

### INSPECTION

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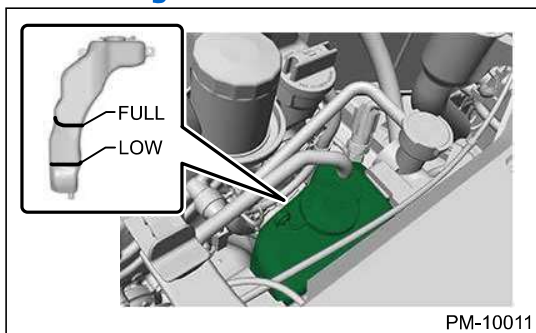
#### Caution:

- **Do not use water instead of coolant.**
- **Refer to "RECOMMENDED MATERIALS" section for recommended engine coolant.**  [Ref. to RECOMMENDED MATERIALS > ENGINE COOLANT.](#)

1. Park the vehicle on a level surface.
2. Make sure the engine coolant level in the reservoir tank is between "FULL" and "LOW" when the engine is cold.

#### Note:

**If the engine coolant level drops, make sure that there are no engine coolant leakage, and add engine coolant to the "FULL" line.**




3. Remove the radiator cap and make sure that the radiator is filled with engine coolant up to the filler neck position.

## PERIODIC MAINTENANCE SERVICES > Engine Coolant

### REPLACEMENT

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Refer to "COOLING (H4DO)" section for engine coolant replacement.  [Ref. to COOLING\(H4DO\)>Engine Coolant>REPLACEMENT.](#)

## PERIODIC MAINTENANCE SERVICES > CVTF

### INSPECTION

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For CVTF inspection, refer to “CONTINUOUSLY VARIABLE TRANSMISSION” section.  [Ref. to CONTINUOUSLY VARIABLE TRANSMISSION>CVTF>INSPECTION.](#)

## PERIODIC MAINTENANCE SERVICES > CVTF

### REPLACEMENT

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For CVTF replacement, refer to “CONTINUOUSLY VARIABLE TRANSMISSION” section.  [Ref. to CONTINUOUSLY VARIABLE TRANSMISSION>CVTF>REPLACEMENT.](#)



## PERIODIC MAINTENANCE SERVICES > Front & Rear Differential Gear Oil

### INSPECTION


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#### 1. FRONT DIFFERENTIAL

For inspection of front differential gear oil, refer to "CONTINUOUSLY VARIABLE TRANSMISSION" section.

 [Ref. to CONTINUOUSLY VARIABLE TRANSMISSION>Differential Gear Oil>INSPECTION.](#)

#### 2. REAR DIFFERENTIAL

Refer to "DIFFERENTIALS" section for rear differential gear oil inspection.  [Ref. to](#)

[DIFFERENTIALS>Differential Gear Oil>INSPECTION.](#)

## PERIODIC MAINTENANCE SERVICES > Front & Rear Differential Gear Oil

### REPLACEMENT


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#### 1. FRONT DIFFERENTIAL

For replacement of front differential gear oil, refer to "CONTINUOUSLY VARIABLE TRANSMISSION"

section.  [Ref. to CONTINUOUSLY VARIABLE TRANSMISSION>Differential Gear Oil>REPLACEMENT.](#)

#### 2. REAR DIFFERENTIAL

Refer to "DIFFERENTIALS" section for rear differential gear oil replacement.  [Ref. to](#)

[DIFFERENTIALS>Differential Gear Oil>REPLACEMENT.](#)

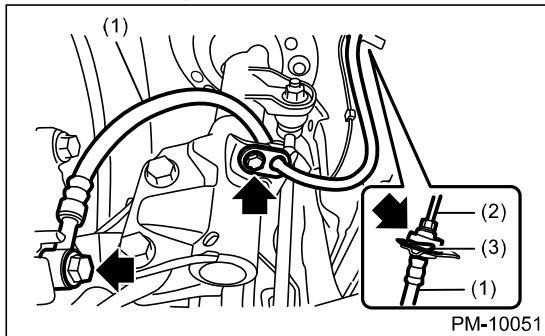
## INSPECTION

### 1. BRAKE LINE

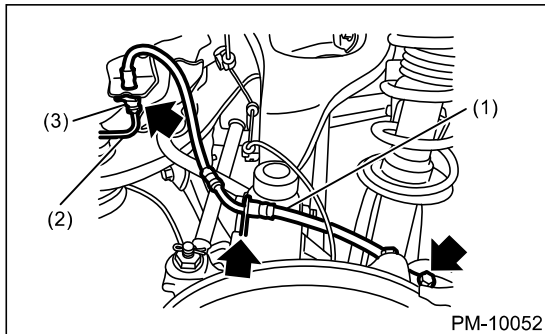
1. Check for scratches, swelling, corrosion, traces of fluid leakage on the brake hoses or pipe joints.
2. Make sure that brake pipes/hoses do not interfere with adjacent parts and there is no loose connector/clamp during driving.
3. Check any trace of fluid leakage, scratches, etc. on master cylinder, wheel cylinder and hydraulic unit.

**Note:**

- When the brake fluid level in the reservoir tank is lower than specified limit, the brake warning light on the combination meter will illuminate.
- Visually check the brake hose for damage. (Use a mirror where it is difficult to see)




- (1) Front brake hose  
(2) Front brake pipe  
(3) Clamp



- (1) Rear brake hose  
(2) Brake pipe  
(3) Clamp

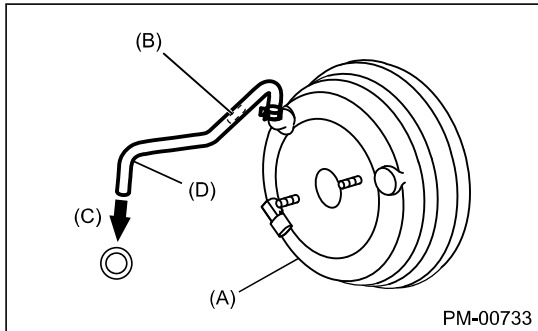
### 2. SERVICE BRAKE

Refer to "BRAKE" section for foot brake inspection.  [Ref. to BRAKE>Brake Pedal>INSPECTION.](#)

### 3. BRAKE SERVO SYSTEM

1. With the engine off, depress the brake pedal several times applying the same pedal force. Check that the travel distance should not change.

2. With the brake pedal depressed, start the engine. Check that the pedal moves slightly toward the floor.
3. With the brake pedal depressed, stop the engine and keep the pedal depressed for 30 seconds. Check that the pedal height does not change.
4. A check valve is built into the vacuum hose. Disconnect the vacuum hose to inspect function of check valve.  
Check that check valve ventilates from booster side to engine side. Also, check that there is no ventilation from engine side to booster side.



- (A) Brake booster
- (B) Check valve
- (C) Engine side
- (D) Vacuum hose

5. Check the vacuum hose for cracks or other damage.

**Caution:**

**When installing the vacuum hose on the engine and brake booster, do not use soapy water or lubricating oil on their connections.**

6. Check that the vacuum hose is securely tightened.

## PERIODIC MAINTENANCE SERVICES > Brake Fluid

### INSPECTION

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Refer to "BRAKE" section for brake fluid inspection.  [Ref. to BRAKE>Brake Fluid>INSPECTION.](#)

## PERIODIC MAINTENANCE SERVICES > Brake Fluid

### REPLACEMENT





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Refer to "BRAKE" section for brake fluid replacement.  [Ref. to BRAKE>Brake Fluid>REPLACEMENT.](#)

## PERIODIC MAINTENANCE SERVICES > Disc Brake Pad and Disc

### INSPECTION


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Refer to "BRAKE" section for disc brake pad and disc inspection.  [Ref. to BRAKE>Front Brake Pad>INSPECTION.](#)  [Ref. to BRAKE>Rear Brake Pad>INSPECTION.](#)  [Ref. to BRAKE>Front Disc Rotor>INSPECTION.](#)  [Ref. to BRAKE>Rear Disc Rotor>INSPECTION.](#)

## PERIODIC MAINTENANCE SERVICES > Parking Brake

### INSPECTION

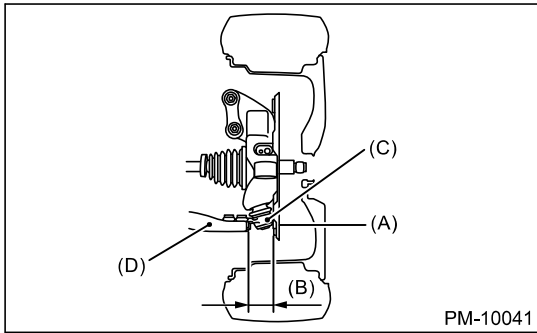
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Refer to "BRAKE CONTROL (DIAGNOSTICS)" section for parking brake inspection.  [Ref. to BRAKE CONTROL \(DIAGNOSTICS\)>Basic Diagnostic Procedure>PROCEDURE.](#)

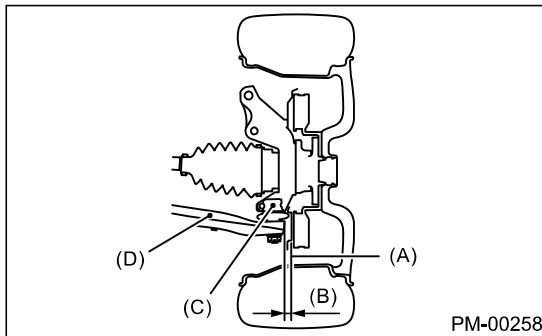
## INSPECTION

### 1. FRONT SUSPENSION BALL JOINT

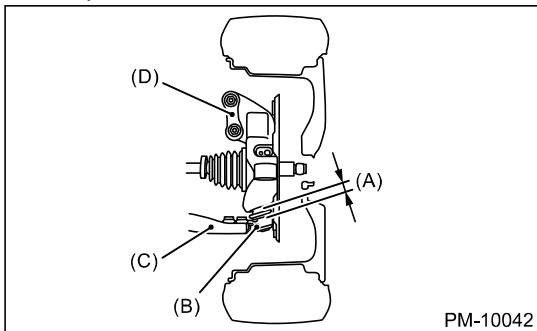
1. Lift up the vehicle until front wheels are off ground.
2. Grasp the bottom of tire and move it in and out in axial direction. If movement (B) is observed between the brake disc cover (A) and end of front arm (D), ball joint (C) may be excessively worn.  
Impreza model



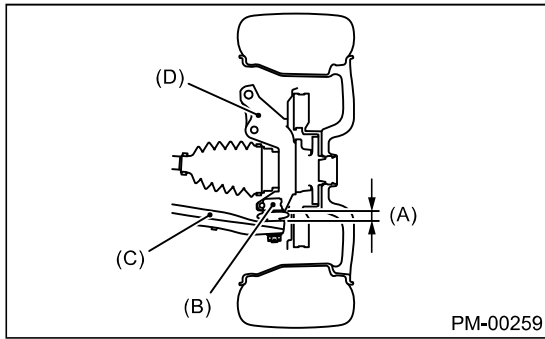
XV model




3. Next, grasp the end of front arm (C) and move it up and down. If movement (A) between the housing (D) and front arm (C) boss is observed, ball joint (B) may be excessively worn.  
Impreza model



XV model



4. If the relative movement is observed in the preceding two steps, remove and inspect the ball joint. If the free play exceeds standard value, replace the ball joint.  [Ref. to FRONT SUSPENSION>Ball Joint.](#)

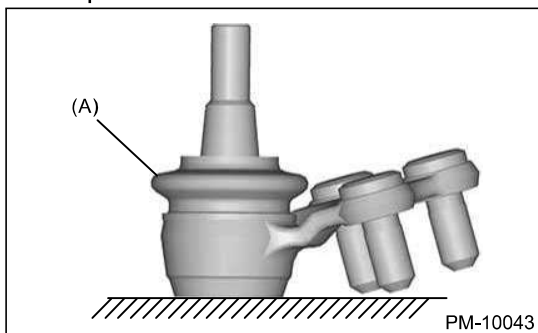
5. Damage of dust boots

Visually inspect the ball joint dust boots. Replace if ball joint is damaged.

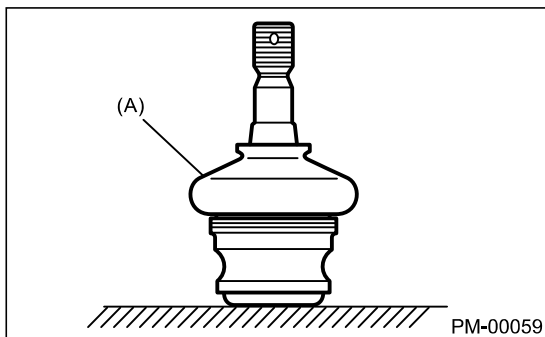
**Note:**

**When the front arm ball joint is removed or replaced, check the toe-in of front wheel. If it is not within the specified value, adjust the toe-in.**  [Ref. to FRONT SUSPENSION>Wheel Alignment.](#)

Impreza model



XV model

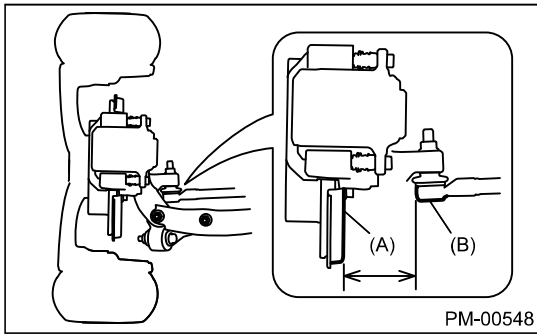


(A) Dust boots

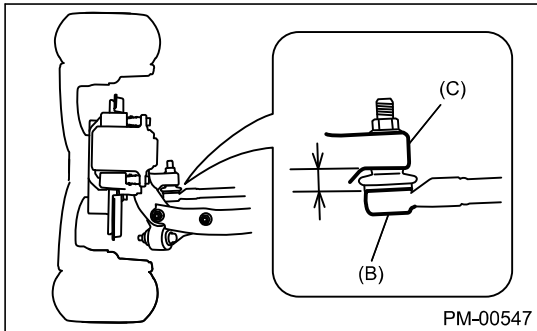
## 2. REAR SUSPENSION BALL JOINT


1. Lift up the vehicle until rear wheels are off ground.
2. Grasp the bottom of tire and move it in and out in axial direction.
3. If movement is observed between the brake disc cover (A) and end of rear lateral link assembly - front (B), ball joint may be excessively worn.

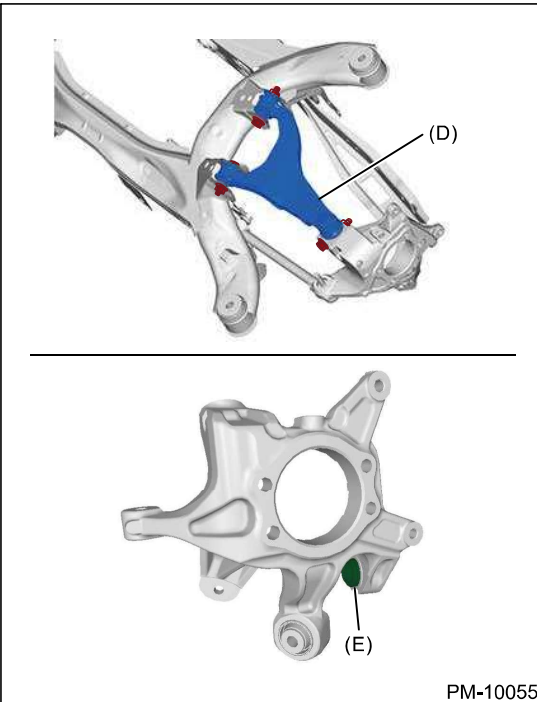




4. Grasp the end of rear lateral link assembly - front (B) and move it up and down. If movement is observed between the housing (C) and rear lateral link assembly - front (B) boss, ball joint may be excessively worn.



5. If the movement related to the previous two steps is observed, replace the rear lateral link assembly - front.  [Ref. to REAR SUSPENSION>Rear Lateral Link \(front\).](#)
6. Damage of dust boots  
Visually inspect the ball joint dust boots. Replace if rear lateral link assembly - front is damaged.
7. Check the upper arm ball joint (D) and the pillow ball bushing (E) of housing in the same manner.

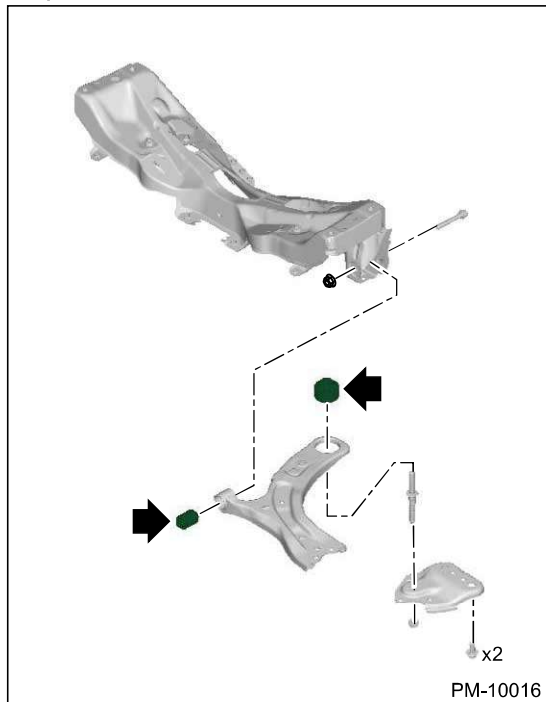


### 3. FRONT, REAR SUSPENSION BUSHING

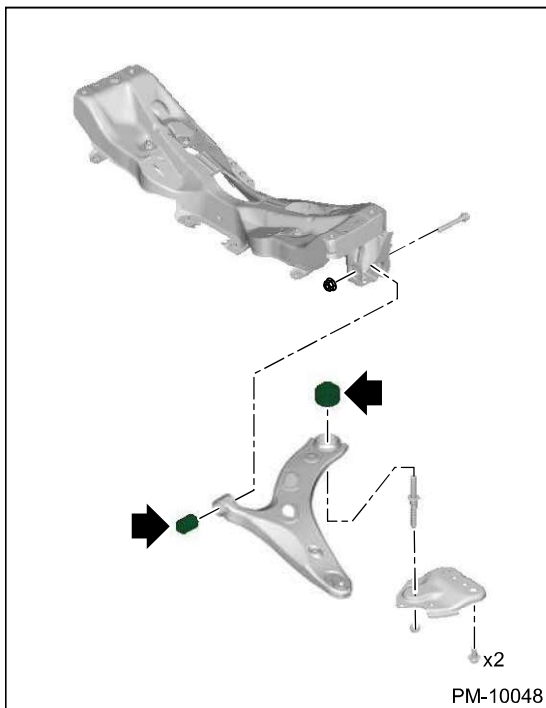
Apply pressure with tire lever etc, and inspect the bushing for excessive wear or damage. If defective, replace the bushing.

- Front suspension bushing

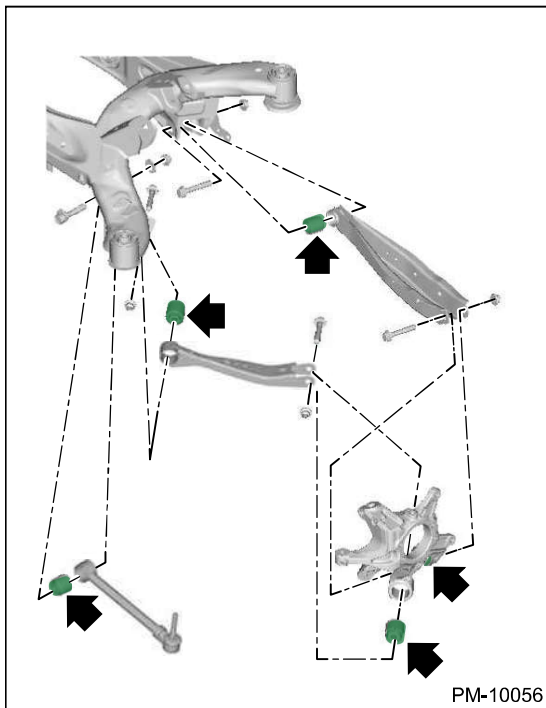
Impreza model




XV model




- Rear suspension bushing



#### 4. SUSPENSION HEIGHT

Refer to "FRONT SUSPENSION" section for suspension height inspection.  [Ref. to FRONT SUSPENSION>Wheel Alignment>INSPECTION > SUSPENSION HEIGHT.](#)



#### 5. WHEEL ALIGNMENT

Measure and adjust the front and rear wheel alignment at a time. Refer to "Front Suspension" section for measurement and adjustment of wheel alignment.  [Ref. to FRONT SUSPENSION>Wheel Alignment>INSPECTION.](#)

#### 6. OIL LEAKAGE OF STRUT AND SHOCK ABSORBER

Visually inspect the front strut and rear shock absorber for oil leakage. Replace the front strut and rear shock absorber if oil leaks excessively.

#### 7. TIGHTNESS OF BOLTS AND NUTS

Check the bolts and nuts for looseness. Retighten the bolts and nuts to specified torque. If the self-locking nuts and bolts are removed, replace them with new parts.  [Ref. to FRONT SUSPENSION>General Description.](#)  [Ref. to REAR SUSPENSION>General Description.](#)

#### 8. DAMAGE TO SUSPENSION PARTS

Check the following parts and the fastening portion of the vehicle body for deformation or excessive rusting which impairs the suspension. Thoroughly remove the deposits of the lower spring seat of strut where dust or mud are likely piled up. If necessary, replace the damaged parts with new parts. If minor rust formation, pitting, etc. are noted, remove the rust and take rust prevention measure.

- Front suspension
  - Front arm
  - Crossmember

- Strut
- Rear suspension
  - Sub frame
  - Front lateral link
  - Rear lateral link
  - Upper arm
  - Trailing link
  - Shock absorber
- In the area where salt is sprayed to melt snow on a road in winter, check suspension parts for damage caused by rust every 12 months after lapse of 60 months. Take rust prevention measures as required.

## INSPECTION

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### 1. FRONT WHEEL BEARING


**Note:**

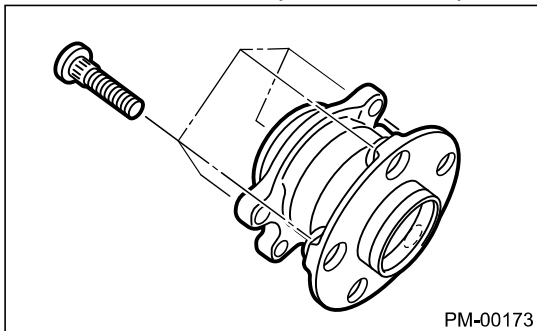
**Inspect the condition of front wheel bearing grease.**

1. Jack-up the front side of vehicle.
2. While holding the front wheel by hand, swing it in and out to check bearing free play.
3. Loosen the wheel nuts, and remove the front wheel.
4. If the bearing free play exists in step 2) above, attach a dial gauge to the hub and measure axial play in axial direction.

**Service limit:**

Straight-ahead position within 0.05 mm (0.0020 in)

5. Remove the bolts and self-locking nuts, and extract the front arm from front crossmember.
6. Remove the joint of front drive shaft from transmission.  [Ref. to DRIVE SHAFT SYSTEM>Front Axle.](#)
7. While supporting the front drive shaft horizontally with one hand, turn the hub with the other hand to check for noise or binding.  
If the hub is noisy or binds, replace the front axle.




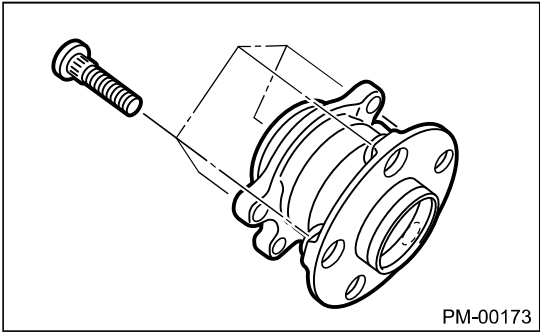
### 2. REAR WHEEL BEARING

1. Jack-up the rear side of vehicle.
2. While holding the rear wheel by hand, swing it in and out to check bearing free play.
3. Loosen the wheel nuts, and remove the rear wheel.
4. If the bearing free play exists in step 2) above, attach a dial gauge to the hub and measure axial play in axial direction.

**Service limit:**

Straight-ahead position within 0.05 mm (0.0020 in)



5. Remove the joint of rear drive shaft from rear differential.  [Ref. to DRIVE SHAFT SYSTEM>Rear Drive Shaft.](#)
6. While supporting rear drive shaft horizontally with one hand, turn the hub with the other hand to check for noise or binding.  
If the hub is noisy or binds, replace the rear axle.



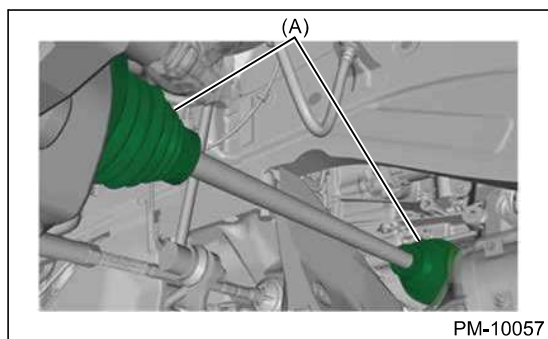
## INSPECTION

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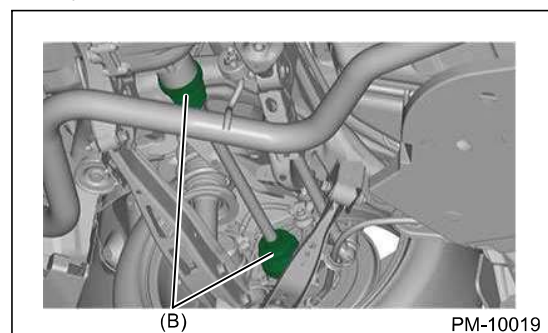
### 1. FRONT AND REAR AXLE BOOTS

Inspect the front axle boots (A) and rear axle boots (B) for deformation, damage or failure. If faulty, replace it with new part.  [Ref. to DRIVE SHAFT SYSTEM>Front Drive Shaft.](#)  [Ref. to DRIVE SHAFT SYSTEM>Rear Drive Shaft.](#)


- Front



- Rear




### 2. PROPELLER SHAFT

Inspect the propeller shaft for damage or failure. If faulty, replace it with new part.  [Ref. to DRIVE SHAFT SYSTEM>Propeller Shaft.](#)

## PERIODIC MAINTENANCE SERVICES > Tire Inspection and Rotation

### INSPECTION

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Refer to "WHEEL AND TIRE SYSTEM" section for tire inspection and rotation.  [Ref. to WHEEL AND TIRE SYSTEM>Tire and Wheel>INSPECTION.](#)



## INSPECTION

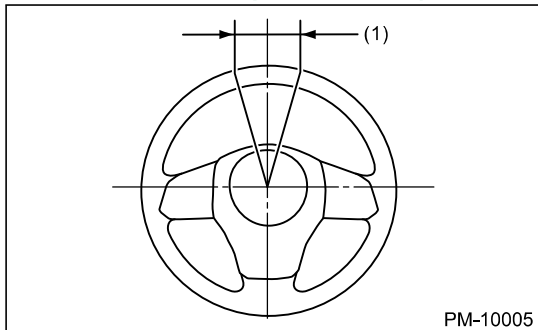
### 1. STEERING WHEEL

1. Set the steering wheel in a straight-ahead position, and check the wheel spokes to make sure they are correctly set in their specified positions.
2. Lightly turn the steering wheel to the left and right to determine the point where front wheels start to move.

Measure the distance of the movement of steering wheel (periphery).

**Steering wheel free play:**

0 — 17 mm (0 — 0.67 in)



(1) Steering wheel free play

Move the steering wheel toward the shaft to check if there is play in the direction.

**Play limit:**

0.5 mm (0.020 in)

3. Drive the vehicle and check the following items.

(1) Steering force:

The effort required for steering should be smooth and even at all points, and should not vary.

(2) Pulled to one side:

Steering wheel should not be pulled to one side while driving on a level surface.


(3) Wheel runout:

Steering wheel should not show any sign of runout.

(4) Return status:

Steering wheel should return to its original position after it has been turned and then released.

### 2. STEERING SHAFT JOINT

If steering wheel play is excessive, disconnect the universal joint of steering shaft and then check the play where the joints cross and yawing torque. Also, check the seal for damage or serrations for wear. If the joint is loose, retighten the mounting bolts to the specified torque.  [Ref. to POWER ASSISTED SYSTEM \(POWER STEERING\)>Universal Joint.](#)

**Tightening torque:**

24 N·m (2.4 kgf-m, 17.4 ft-lb)

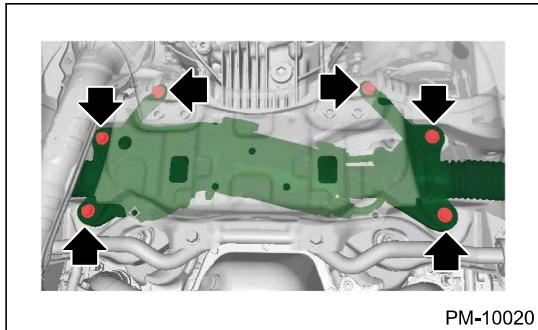
### 3. GEARBOX


1. Set the steering wheel in the straight position, then rotate it 90° in both the left and right directions.

While steering wheel is being rotated, check the looseness of the gearbox.

**Tightening torque:**

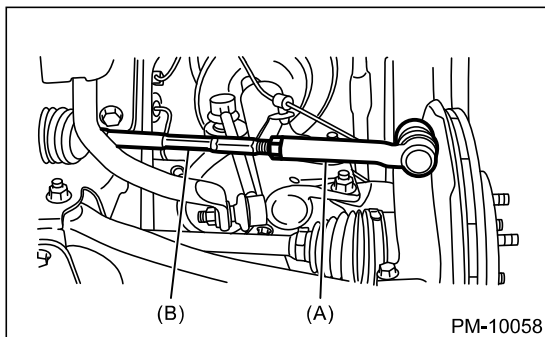
60 N·m (6.1 kgf-m, 44.3 ft-lb)



2. Check the boot for damage, cracks or deterioration.
3. With the vehicle stopped on a level surface, quickly turn the steering wheel to the left and right. While steering wheel is being rotated, check the gear backlash. If any noise is noticed, adjust the gear backlash.  [Ref. to POWER ASSISTED SYSTEM \(POWER STEERING\)>Electric Power Steering Gearbox>ADJUSTMENT > GEARBOX BACKLASH ADJUSTMENT.](#)

#### 4. TIE-ROD

1. Check the tie-rod and tie-rod end for bend, cracks or other damages.



(A) Tie-rod end

(B) Tie-rod

2. Confirm that the connections of knuckle ball joints for play, and then check for damage on dust boots and free play of ball studs. If castle nut is loose, retighten it to the specified torque, then tighten further up to a maximum of 60° until the cotter pin hole is aligned.

**Tightening torque:**

27 N·m (2.75 kgf-m, 19.9 ft-lb)

3. Check the tightening of tie-rod end lock nut. If it is loose, tighten it to the specified torque.

**Tightening torque:**

85 N·m (8.7 kgf-m, 62.7 ft-lb)

#### 5. GEARBOX BOOTS

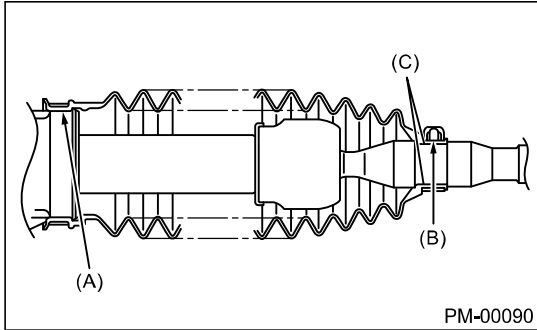
Inspect both sides of the gearbox boot as follows, and correct the defects if necessary.

1. The (A) and (B) positions of the gearbox boot are fitted in (A) and (C) grooves of gearbox and the rod.
2. Clips are fitted onto the boot grooves to the positions (A) and (B) of the boot.

**3.** Check that there is no cracks or holes in the boot.

**Note:**

**Rotate (B) position of gearbox boot against the torsion produced by the adjustment of toe-in etc. Apply grease to the groove (C).**




## 6. CHECK HARNESS

Check the harness of the electric power steering for cracks or damages.

Replace the harness or electric power steering gear box with a new part if necessary.

## 7. CHECK POWER STEERING CONTROL MODULE


Check for the electric power steering diagnostic trouble codes.  [Ref. to POWER STEERING \(DIAGNOSTICS\)>Basic Diagnostic Procedure>PROCEDURE.](#)

Replace the steering gear box with a new part if necessary.

## PERIODIC MAINTENANCE SERVICES > A/C Filter

### REPLACEMENT

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Refer to "AIR CONDITIONER" section for A/C filter replacement.  [Ref. to AIR CONDITIONER>A/C Filter>REPLACEMENT.](#)