REPAIR INSTRUCTIONS

SUBJECT

In cabin fuel smell when vehicle is idling or being driven.

AFFECTED VEHICLES

All 2022-2024 Outlander (U.S. and Puerto Rico only)

PURPOSE

This document provides instructions on how to resolve an in cabin fuel smell detected while the vehicle is idling or being driven and should be performed on a customer complaint basis.

BACKGROUND

Fuel evaporation may cause a fuel smell to be present inside the vehicle cabin while the vehicle is idling or being driven. This is a result of the canister vent positioned on the side-member which is connected to the vehicle cabin. The concern is resolved by changing the structure of the vent pipe and positioning it to the rear wheel house.

PROCEDURE

Follow the steps below to replace the TUBE COMPL - FILLER, referring to the applicable Service manual as necessary.

1. Remove rear wheel house protector.
    a. Refer to service manual: Body Exterior, Doors, Roof and Vehicle Security -Exterior, Front Fender Protector/Rear Wheel House Protector.

2. Remove rear suspension.
    a. Refer to service manual: Suspension - Rear Suspension, Rear Suspension Member and the parts chart (page 11) for replacement of non-reusable parts.

3. Remove vent pipe installed on the side member and remove vent hose from the vent tube assembly (figure 1).

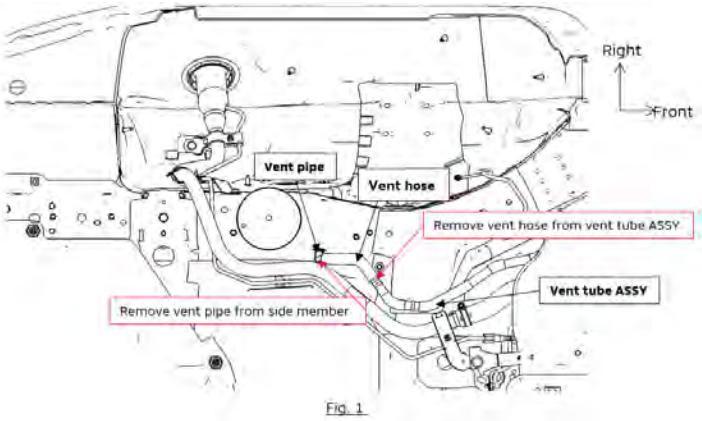


Fig. 1

4. Replace TUBE COMPL - FILLER (figure 2).
    a. Refer to service manual: Engine - Fuel System > Fuel Tank.
    b. It is not necessary to remove the fuel tank when replacing the filler tube.
    c. Tightening position and torque of filler tube COMPL may be found in the service manual.
    d. Connect TUBE COMPL - FILLER and filler hose (figure 3).
    e. Connect TUBE COMPL - FILLER and vent tube (figure 3).
    f. Make sure the yellow marking of vent hose is facing downward (figure 3).
    g. Refer to TSB-23-13-005 for further information on the removal procedure for the Fuel Filler Tube.

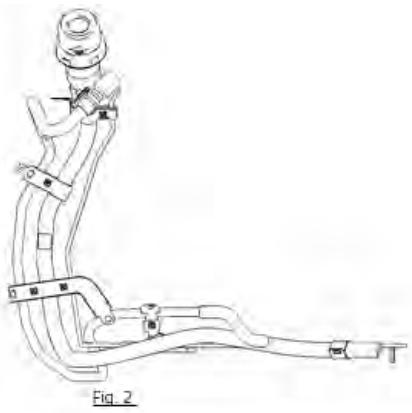


Fig. 2

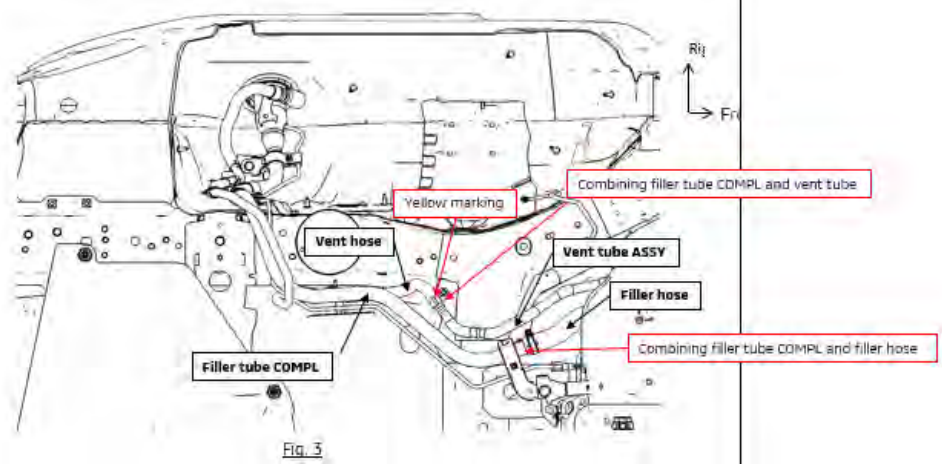
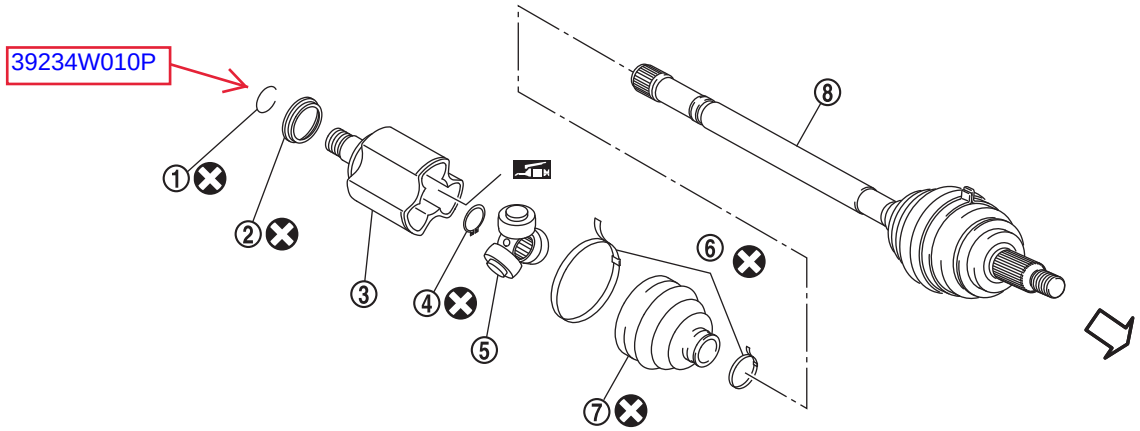


Fig. 3

REAR DRIVE SHAFT

Exploded View

SEC. 396



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DF100AGEAA00USA

①	**Circular clip**	②	Dust shield	③	Housing
④	**Snap ring**	⑤	Spider assembly	⑥	Boot band
⑦	**Boot**	⑧	Drive shaft		
⇦	**: Wheel side**				
	: Fill Mitsubishi Motors genuine grease or an equivalent.				
⊗	**: Always replace after every disassembly.**				

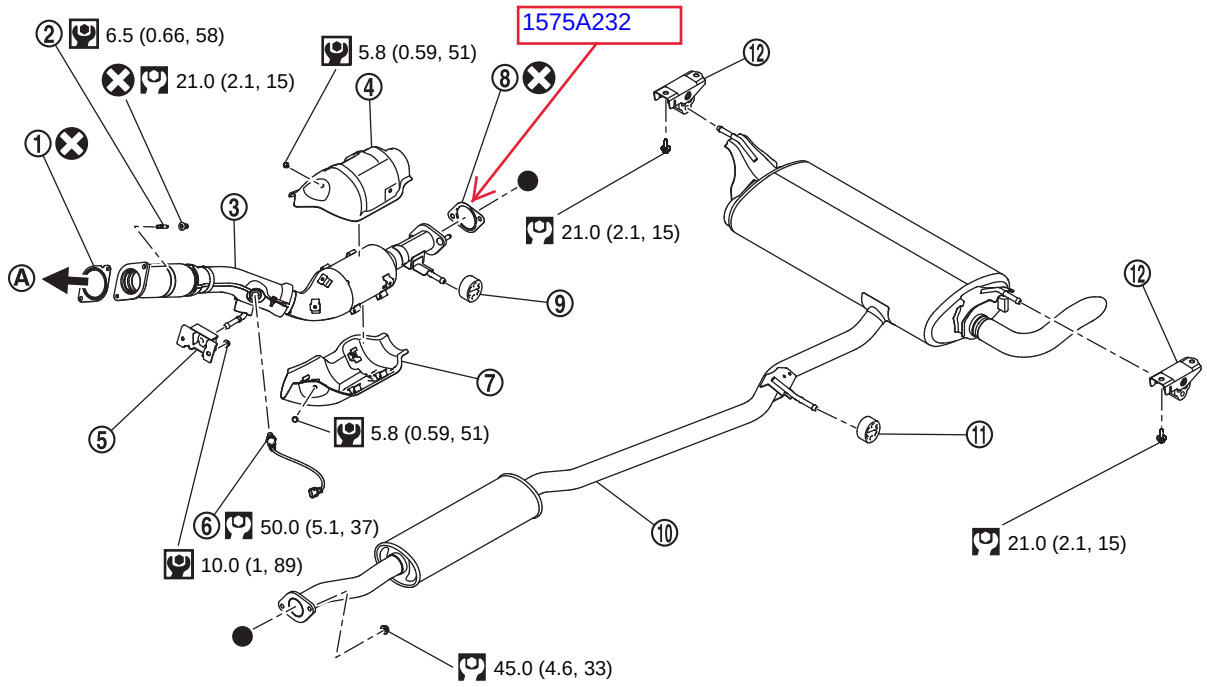
REMOVAL AND INSTALLATION

EXHAUST SYSTEM

Exploded View

2WD

SEC. 200•208



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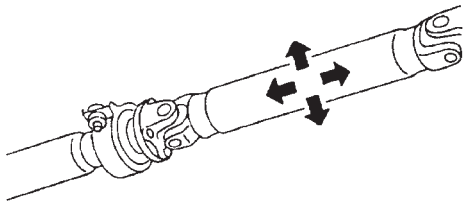
①	Gasket	②	Stud bolt	③	Exhaust front tube
④	Heat insulator (upper)	⑤	Mounting rubber	⑥	Heated oxygen sensor 2
⑦	Heat insulator (lower)	⑧	Gasket	⑨	Mounting rubber
⑩	Main muffler	⑪	Mounting rubber	⑫	Mounting rubber
Ⓐ	To exhaust manifold. Refer to Exploded View.				
	: Always replace after every disassembly.				
	: Nm (kg-m, in-lb)				
	: N·m (kg-m, ft-lb)				
● : Indicates that the part is connected at points with same symbol in actual vehicle.					

BACKLASH OF CENTER BEARING

Move the shaft near center bearing up and down and from side to side (axial direction of shaft and right angle to shaft) to check that the bearing has no backlash. If the bearing has a malfunction, remove propeller shaft and perform inspection.



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APPEARANCE AND NOISE

- Check the propeller shaft tube surface for dents or cracks. If malfunction is detected, replace propeller shaft assembly.
- If center bearing is noisy or damaged, replace propeller shaft assembly.

VIBRATION

If vibration is present at high speed, adjust the propeller shaft phase first.

1.Check the propeller shaft for bend and damage. If damaged, replace propeller shaft assembly.

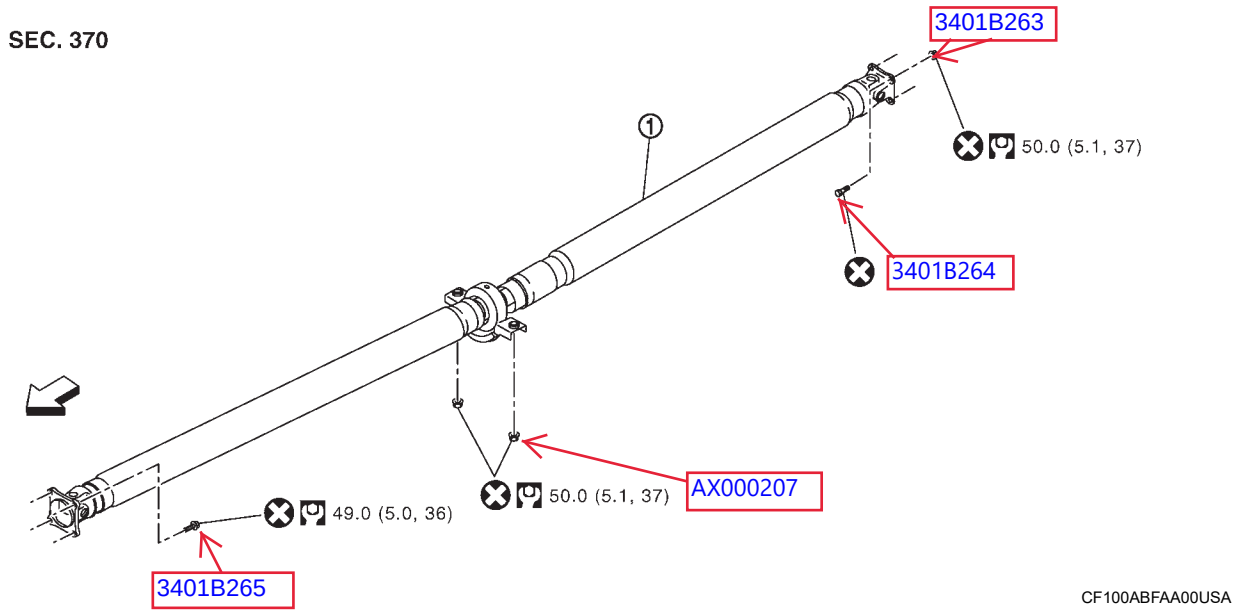
2.Perform a cruise test drive to check the propeller shaft for runout. If vibration occurs, separate propeller shaft at final drive companion flange; then change the phase between companion flange and propeller shaft by the one bolt hole at a time and install propeller shaft.

3.If vibration is still detected, measure propeller shaft runout after removing it. Refer to Inspection.

REMOVAL AND INSTALLATION

REAR PROPELLER SHAFT

Exploded View



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①	Propeller shaft assembly				

: Vehicle front

: N·m (kg-m, ft-lb)

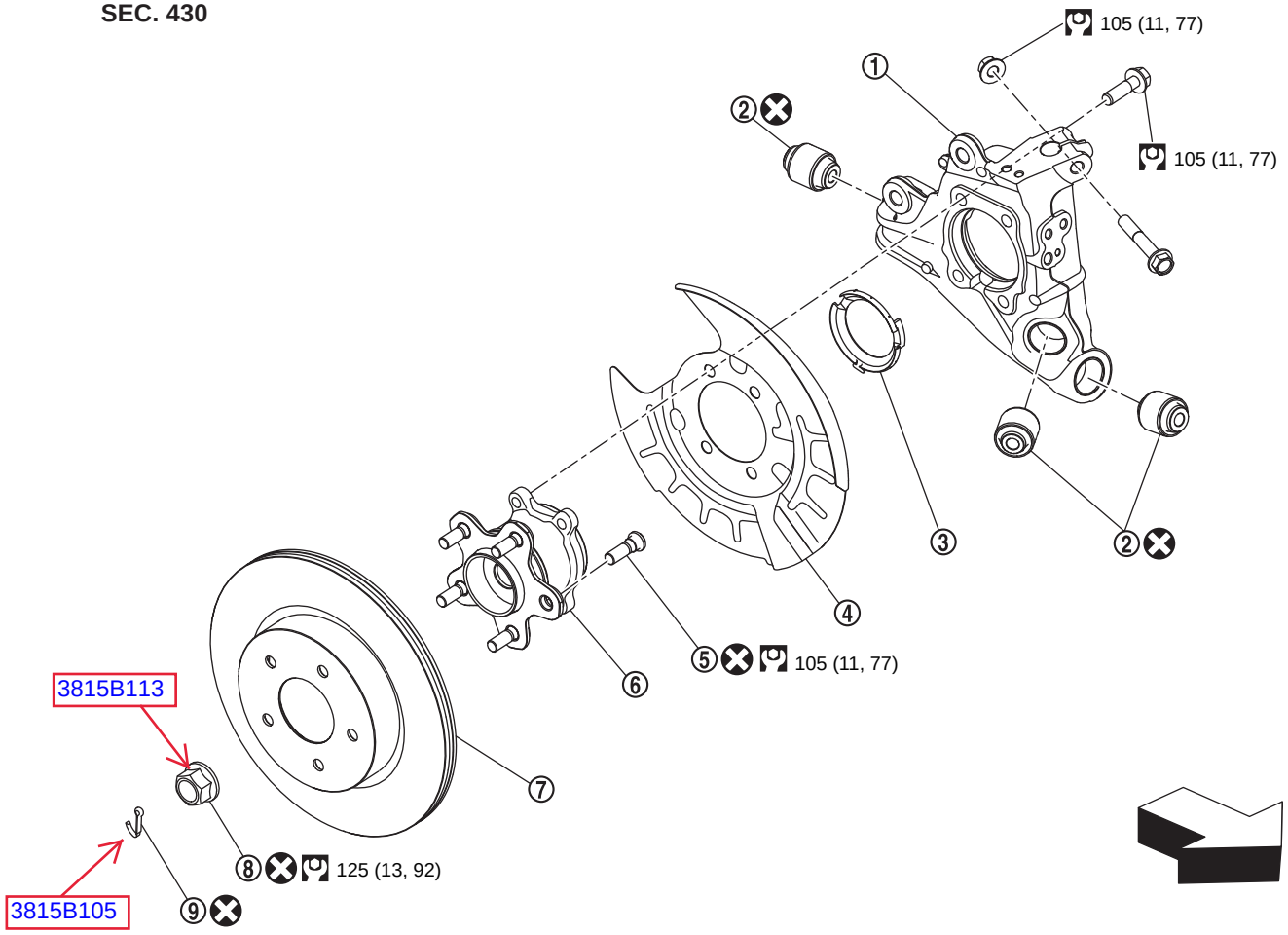
: Always replace after every disassembly.

REMOVAL AND INSTALLATION

REAR WHEEL HUB AND HOUSING

Exploded View

SEC. 430



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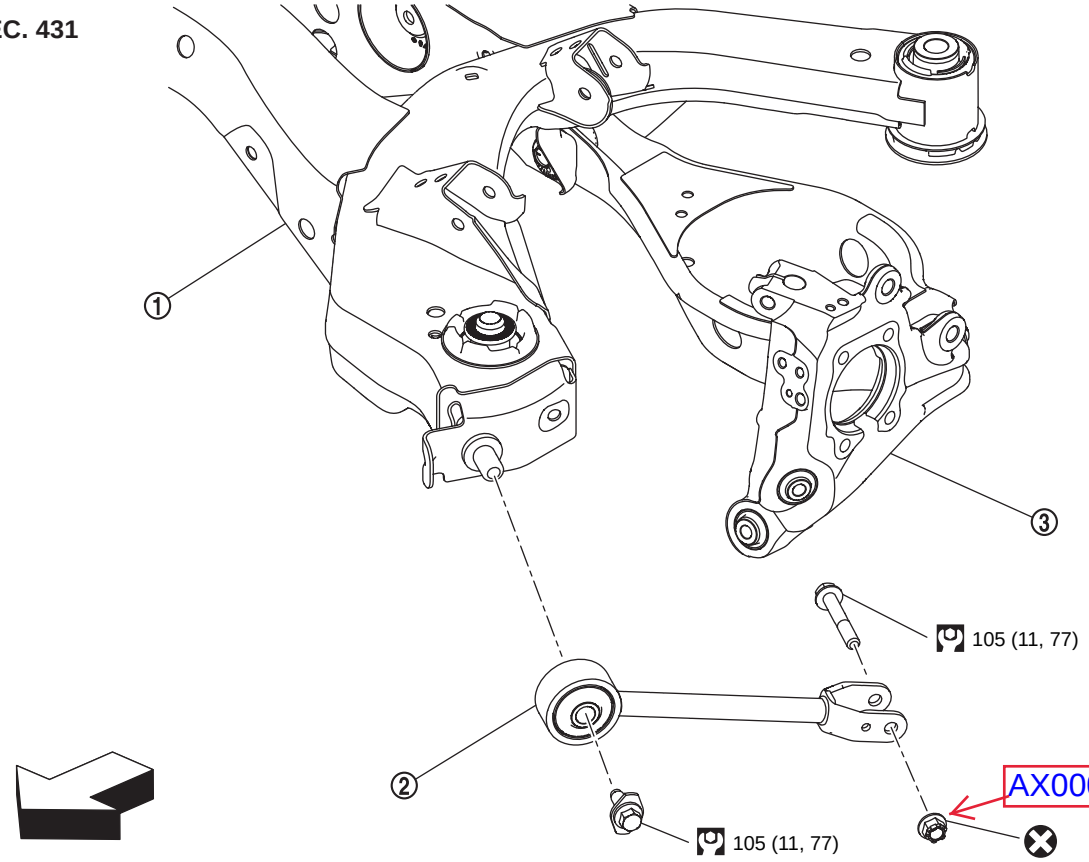
①	Axle housing	②	Bushing	③	Hub cap
④	Back plate	⑤	Hub bolt	⑥	Wheel hub and bearing assembly
⑦	Disc rotor	⑧	Wheel hub lock nut	⑨	Cotter pin
	: Vehicle front				
	: N·m (kg-m, ft-lb)				
	: Always replace after every disassembly.				

RADIUS ROD

Exploded View

SEC. 431



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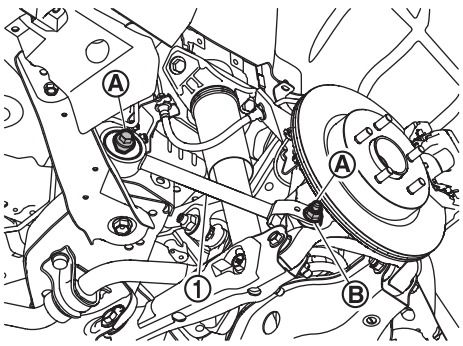
①	Rear suspension member	②	Radius rod	③	Axle housing
⇦	: Vehicle front				
	: N·m (kg-m, ft-lb)				
⊗	: Always replace after every disassembly.				

Removal and Installation

REMOVAL

1.Remove tires. Refer to Removal and InstallationRemoval & Installation.

2.Remove radius rod ① mounting bolts Ⓐ and nut Ⓑ.



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3.Remove radius rod.

4.Perform inspection after removal. Refer to Inspection.

INSTALLATION

Note the following, and install in the reverse order of removal.

- Perform final tightening of fixing parts at the vehicle installation position (rubber bushing), under unladen conditions with tires on level ground.
- Perform inspection after installation. Refer to Inspection.

Inspection

INSPECTION AFTER REMOVAL

Check radius rod and bushing for deformation, cracks, and other damage. Replace it if necessary.

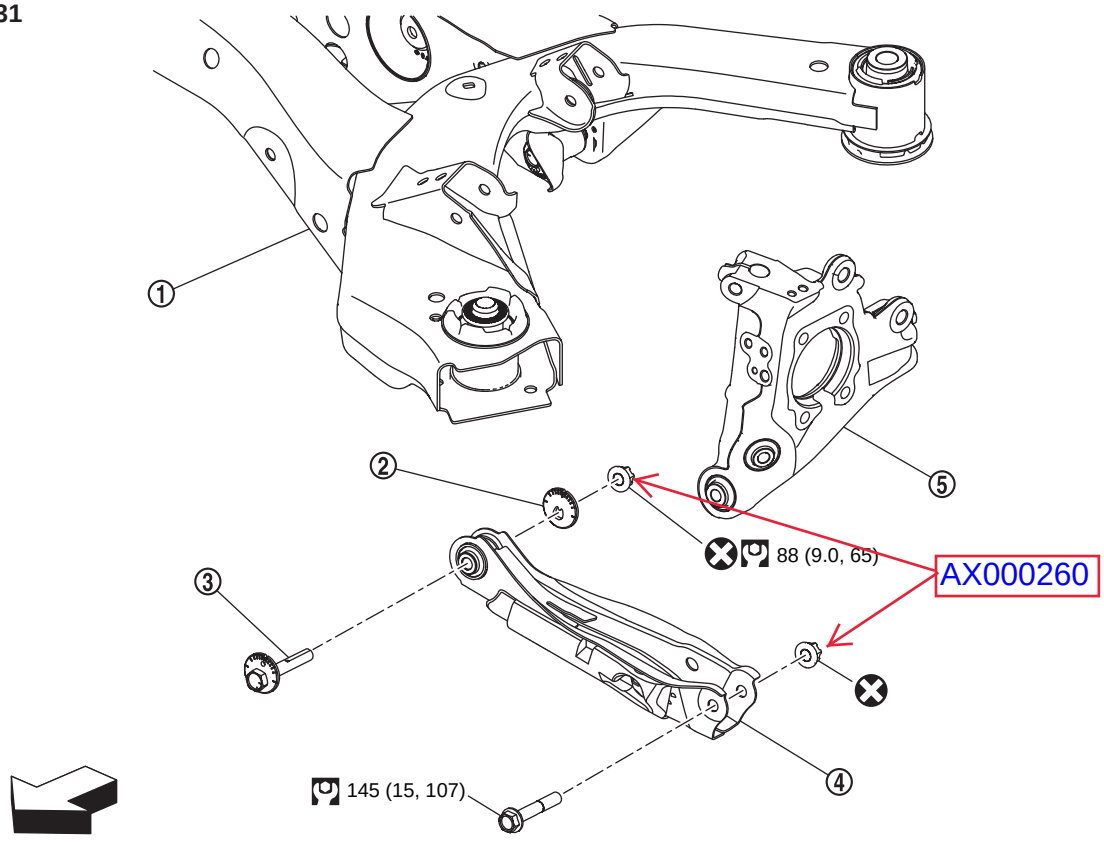
INSPECTION AFTER INSTALLATION

Check wheel alignment. Refer to Inspection.

FRONT LOWER LINK

Exploded View

SEC. 431



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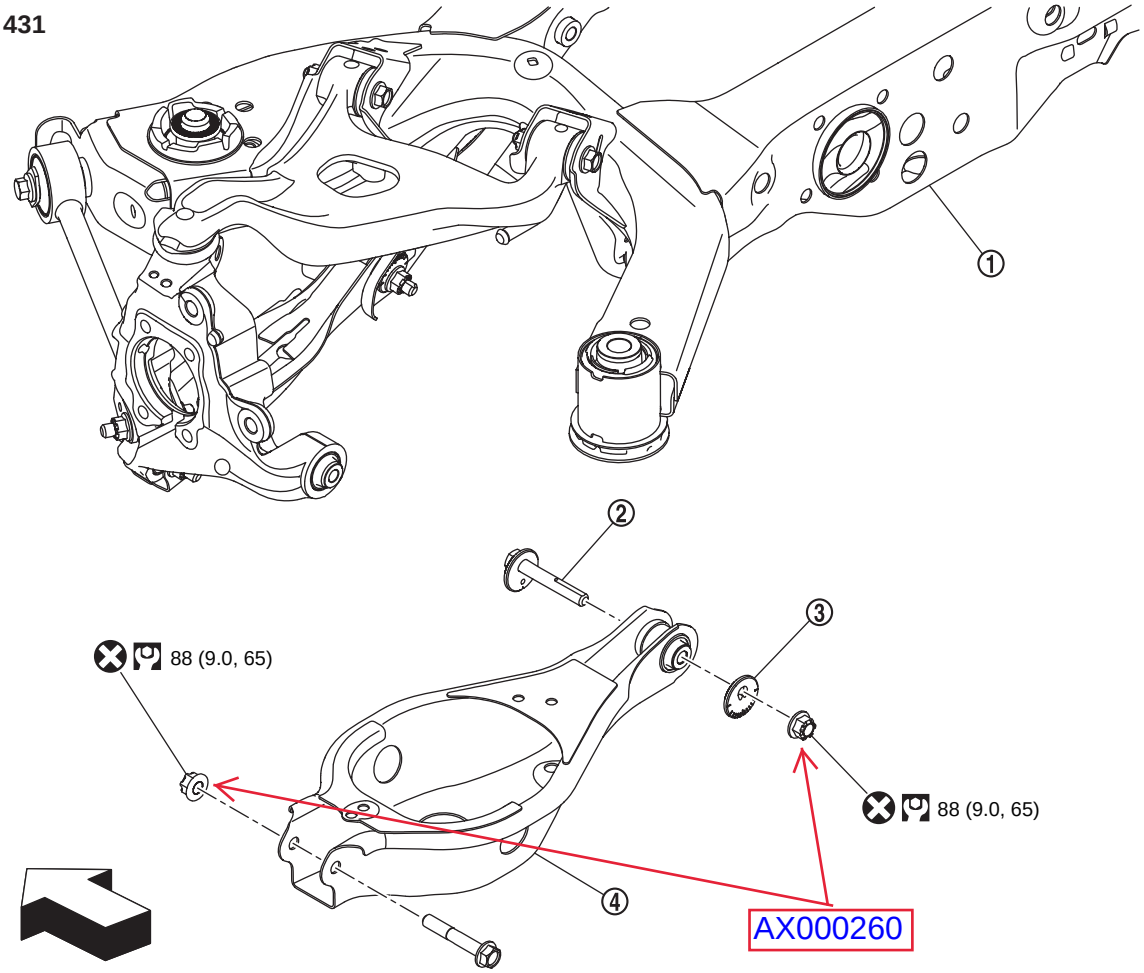
①	**Rear suspension member**	②	Eccentric disk	③	Adjusting bolt
④	**Front lower link**	⑤	Axel housing		
⇦	**: Vehicle front**				
	: N·m (kg-m, ft-lb)				
⊗	**: Always replace after every disassembly.**				

REAR LOWER LINK

Exploded View

SEC. 431



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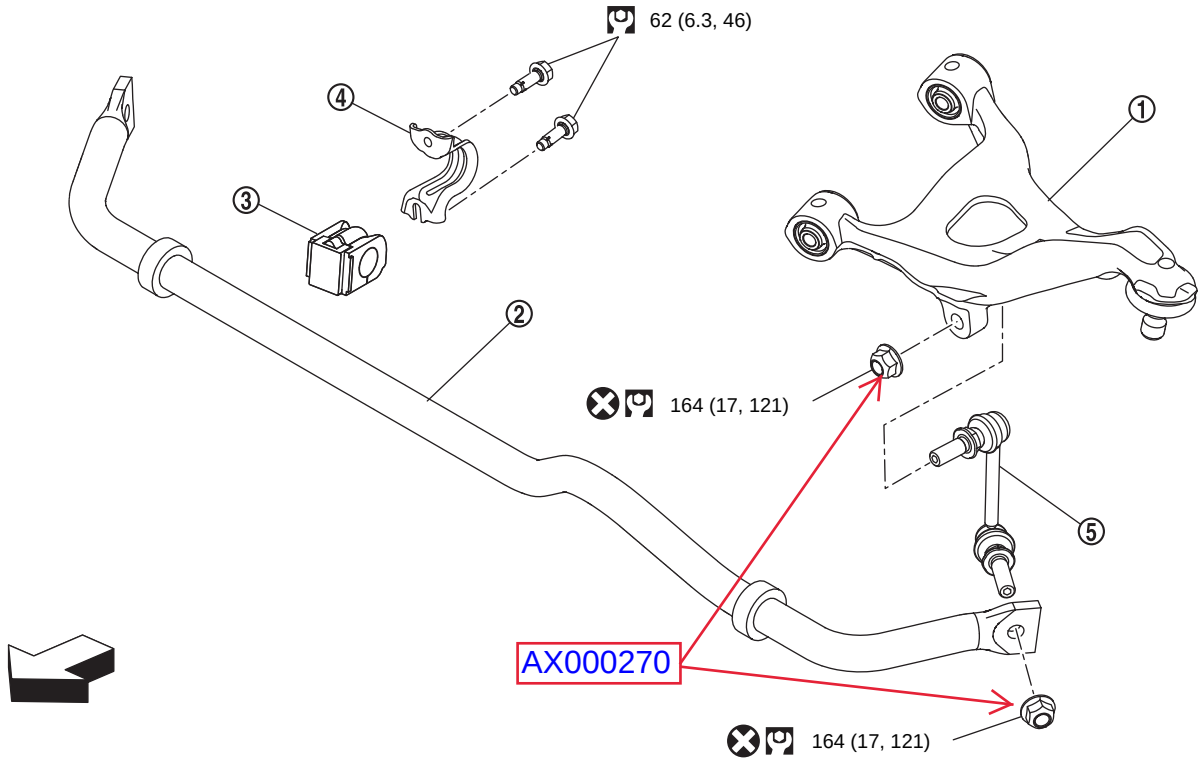
①	Rear suspension member	②	Adjusting bolt	③	Eccentric disk
④	Rear lower link				
⇦	: Vehicle front				
	: N·m (kg-m, ft-lb)				
⊗	: Always replace after every disassembly.				

REAR STABILIZER

Exploded View

SEC. 431



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①	**Rear suspension arm**	②	Rear stabilizer bar	③	Rear stabilizer bushing
④	**Rear stabilizer clamp**	⑤	Rear stabilizer connecting rod		
⇦	**: Vehicle front**				
	: N·m (kg-m, ft-lb)				
⊗	**: Always replace after every disassembly.**				

PARTS INFORMATION

Part Name	Part No.	Quantity	Remarks
TUBE COMPL – FILLER	17220W040P	1	--

(Non-reusable parts)

Part Name	Part No.	Quantity	2WD/4WD	Remarks
BOLT,PROPELLER SHAFT	3401B265	4	4WD	For Propeller shaft
NUT,PROPELLER SHAFT	AX000207	2	4WD	For Propeller shaft
BOLT,PROPELLER SHAFT	3401B264	4	4WD	For Propeller shaft
NUT,PROPELLER SHAFT	3401B263	4	4WD	For Propeller shaft
PIN,RR AXLE DRIVE SHAFT	3815B105	2	4WD	For Rear axle drive shaft
NUT,RR AXLE DRIVE SHAFT	3815B113	2	4WD	For Rear axle drive shaft
CLIP,RR AXLE DRIVE SHAFT	39234W010P	2	4WD	For Rear axle drive shaft
GASKET,CATALYTIC CONVERTER	1575A232	1	2WD/4WD	For Exhaust pipe
NUT,INDEP RR SUSP ARM	AX000260	2	2WD/4WD	For Rear suspension arm
		4	2WD/4WD	For Rear suspension assist link
		4	2WD/4WD	For Rear suspension lower arm
NUT,INDEP RR SUSP ARM	AX000270	4	2WD/4WD	For Rear suspension arm

WARRANTY

This bulletin is supplied as technical information only and is not an authorization to repair. If an affected vehicle is reported with the described condition, diagnose the condition, repair as described in this bulletin, and submit a normal warranty claim using the information below.

LABOR OP CODE	OPERATION	QUANTITY	LABOR TIME	REMARKS
173100LM	Replacement	1	4.0H	2WD
173100LN	Replacement	1	5.3H	4WD