Technical Service Bulletin

SUBJECT:	No: TSB-25-17-001
IN-CABIN FUEL SMELL WHEN VEHICLE IS IDLING OR BEING DRIVEN	DATE: **April 2025**
	MODEL: **See below**

CIRCULATE TO:	[ ] GENERAL MANAGER	[**X**] PARTS MANAGER	[**X**] TECHNICIAN
[**X**] SERVICE ADVISOR	[**X**] SERVICE MANAGER	[**X**] WARRANTY PROCESSOR	[ ] SALES MANAGER

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 a side-member that 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.

AFFECTED VEHICLES

2022-2024 Outlander
(U.S. and Puerto Rico: VIN Cut Off: JA4J4VA88RZ065658 / April 22, 2024)

PROCEDURE

Follow the steps below (pages 1-6) to replace the TUBE COMPL - FILLER, referring to the applicable Service Manual as necessary. Please refer to pages 6-11 for non-reusable part location details.

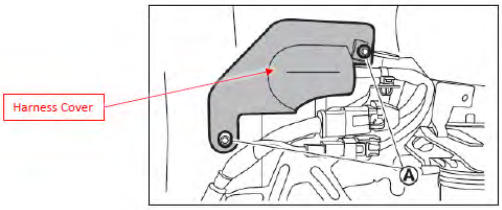
PRECAUTIONS:

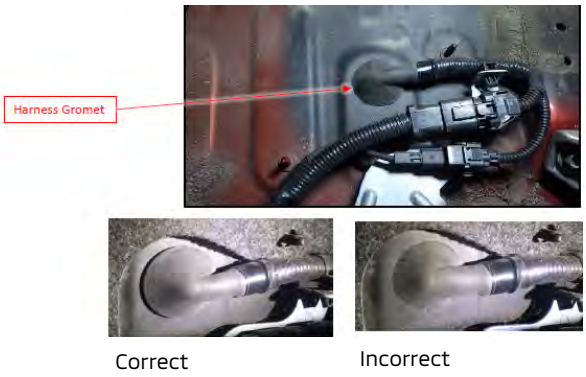
- 4WD ONLY - Place gear into N
- Release parking brake (OFF)
- Remove 12V battery negative terminal

1. Remove tire assembly according to Service Manual: Suspension, Road Wheels & Tire, Road Wheel Tire Assembly.
2. Remove rear wheel house protector according to Service Manual: Body Exterior, Doors, Roof and Vehicle Security -Exterior, Front Fender Protector/Rear Wheel House Protector.

- Remove Harness Grommet Cover.

- Make sure the harness grommet is seated correctly. The grommet may be pushed in too far as shown below. Remove and reinsert if improperly seated.





Correct Incorrect

3. Remove main muffler according to Service Manual: Engine - Exhaust System, Exhaust System.
4. Remove under cover according to Service Manual: Engine - Fuel System, Removal and Installation.
5. Remove rear suspension member stay protector according to Service Manual: Suspension, Rear Suspension, Removal and Installation.
6. FOR 4WD ONLY: Remove propeller shaft and heat insulator according to Service Manual: Transmission & Driveline - Driveline, Rear Propeller Shaft
7. Removal of rear suspension member and differential assembly:
   - Remove harness
   - Remove bracket of brake piping
   - Remove brake caliper
   - Tie up these components with string (refer to Figure 1 - green string):

Figure 1

- Place a mark on the adjusting bolt before removing rear lower link (refer to Figure 2 & 3). This mark is for alignment to the original position when re-assembling.

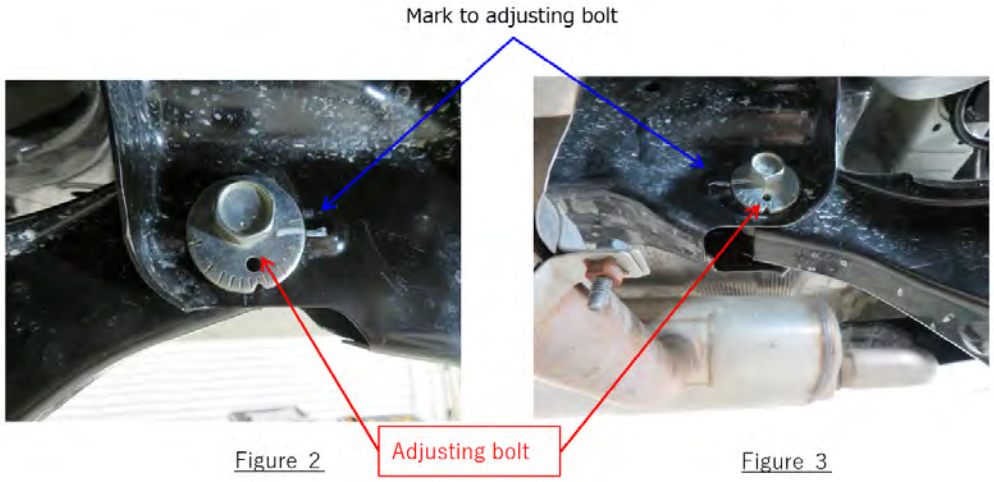


Figure 2 Figure 3

- Use jack for rear lower link (Figure 4)
- Loosen the rear lower link mounting bolts
- Remove coil spring
- Remove shock absorber
- Remove rear lower link
- Remove harness clip from rear suspension member (Figure 5)
- Refer to Service Manual: Rear Suspension, Coil Spring, Rear Shock Absorber

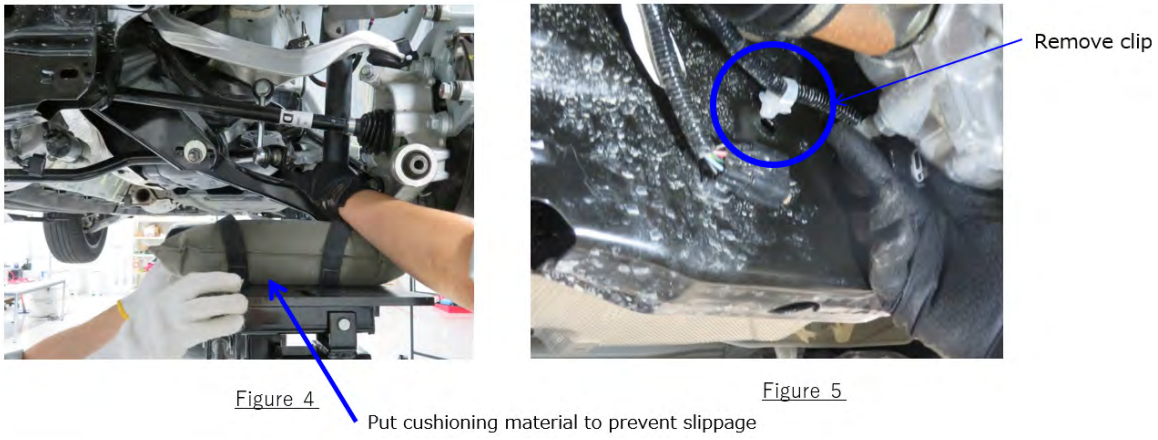


Figure 4 Figure 5

- Remove rear suspension member stay (Figure 6)
- Set jack under the rear suspension member (Figure 7, 8)
- Remove rear suspension member mounting (4) bolts (Figure 9)
- Remove rear suspension member together with differential assembly (Figure 10)
  NOTE: Additional technician support is recommended due to heaviness of the differential assembly

Figure 6

Figure 7

Figure 8

Insert cushioning material to prevent slipping

Figure 9

Figure 10

8. Disconnect vent pipe and vent hose.
   - Remove vent pipe fixing on side member (Figure 11)
   - Disconnect vent hose from vent tube assembly (Figure 11)

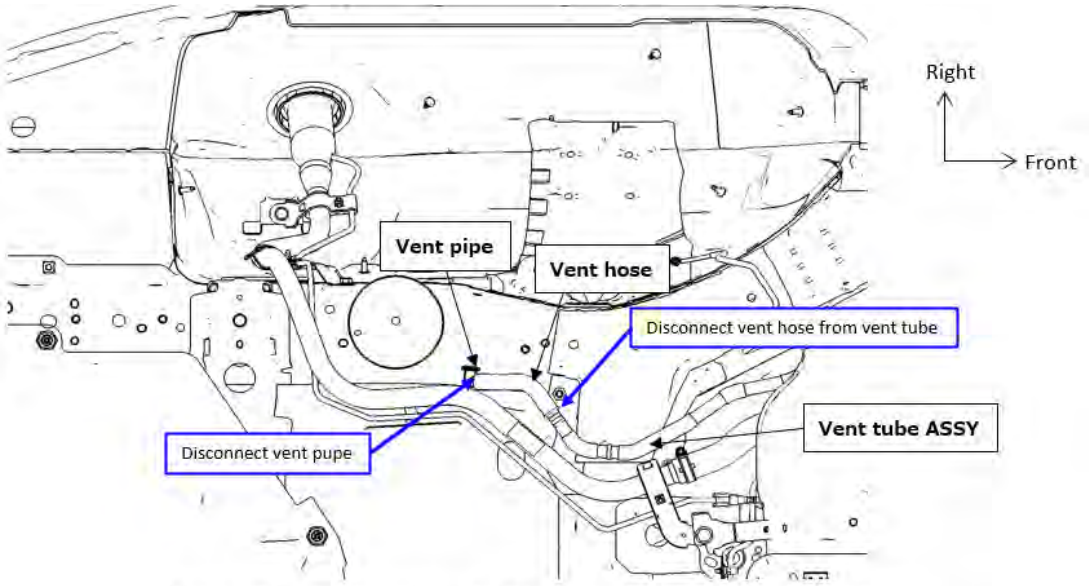


Figure 11 : Bottom view / Disconnect vent hose and vent pipe

9. Replacement of fuel filler tube:
   - Support center of fuel tank with suitable jack (Figure 12, 13)

Setup jack under fuel tank because filler neck bracket and fuel tank's band is tightend together

Figure 12

Figure 13

   - Replace filler tube COMPL (Figure 14, 15)
   - For installation position and tightening torque of filler tube COMPL refer to the Service Manual, Engine - Fuel System, Fuel Tank (removal/installation of the fuel tank is not necessary)
   - Connect filler tube COMPL and filler hose (Figure 16)
   - Connect filler tube COMPL and vent tube (Figure 16)
     - Yellow mark on vent hose should be set facing the underside of the vehicle (Figure 16)
   - Reference TSB-23-13-005

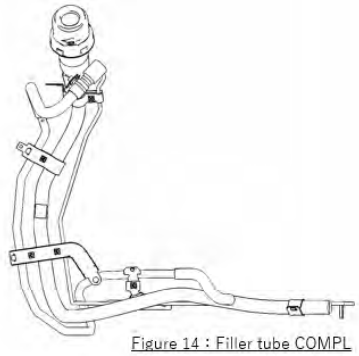


Figure 14 : Filler tube COMPL

Figure 15

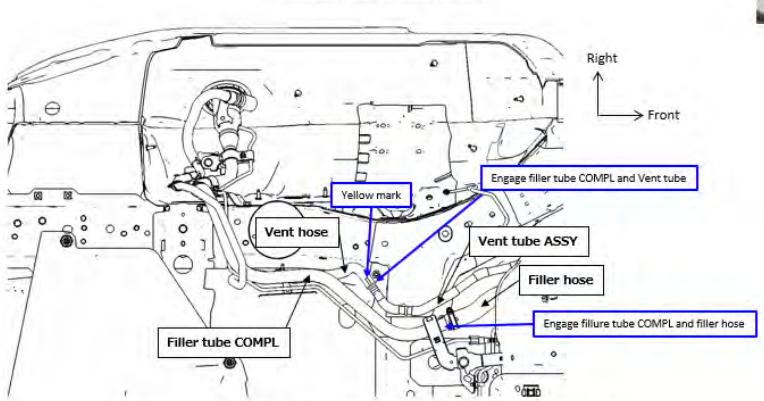


Figure 16 : Bottom view　Filler tube COMPL connection

10. Please complete the following:
    - Adjust headlight auto leveling
    - Adjust wheel alignment at the vehicle installation position (rubber bushing) with vehicle tires on level ground and without a load
    - Connect 12V battery (negative terminal)
    - Check DTC

11. Make sure the Harness Grommet is correctly seated when inserting the Harness Cover. The grommet may be pushed in too far as shown in the image below and may need to be removed and reinserted for correct seating.

Correct

Incorrect

Correct

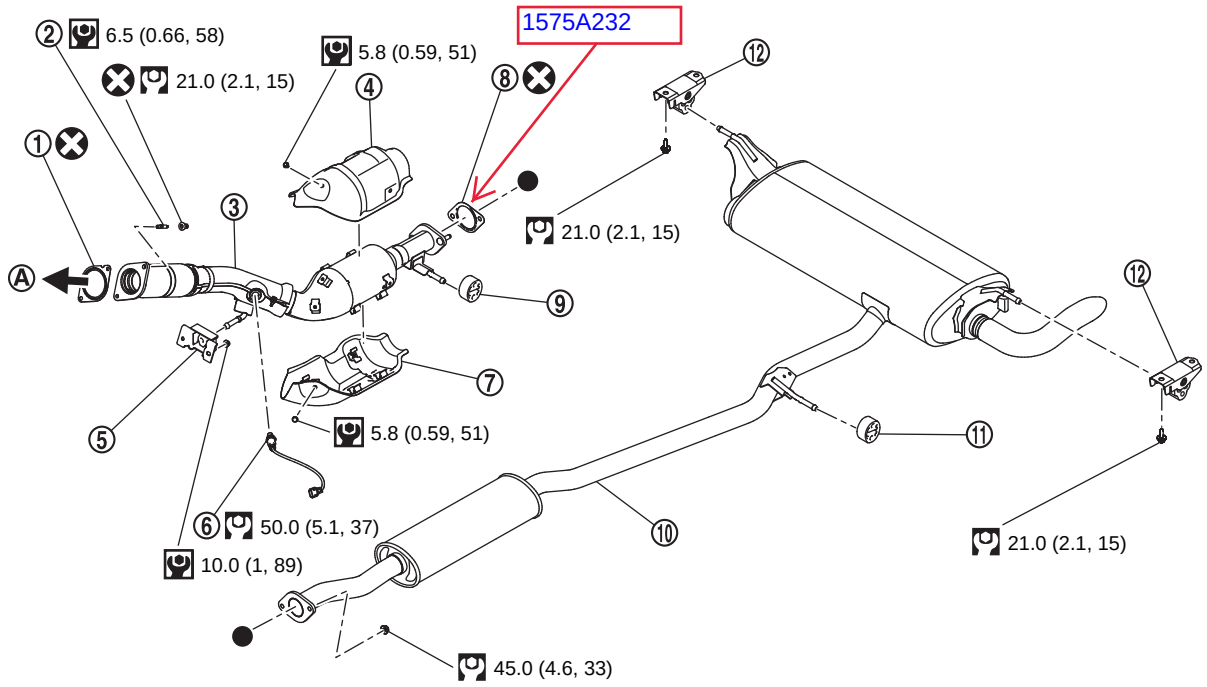
REMOVAL AND INSTALLATION

EXHAUST SYSTEM

Exploded View

2WD

SEC. 200•208

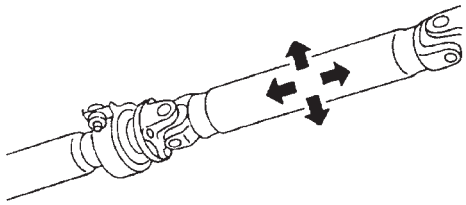


CF100A1GAA00USA

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.

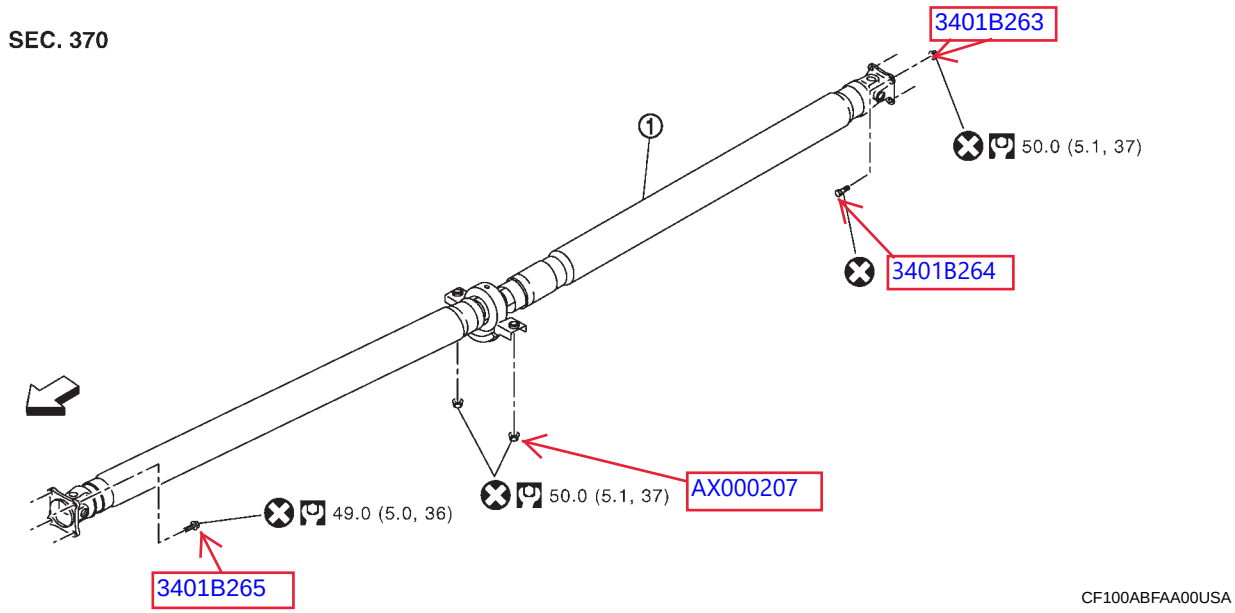
2.Perform a cruise test drive to check the propeller shaft for runout. If vibration occurs, separate propeller shaft at final drive companion flange; then change the phase between companion flange and propeller shaft by the one bolt hole at a time and install propeller shaft.

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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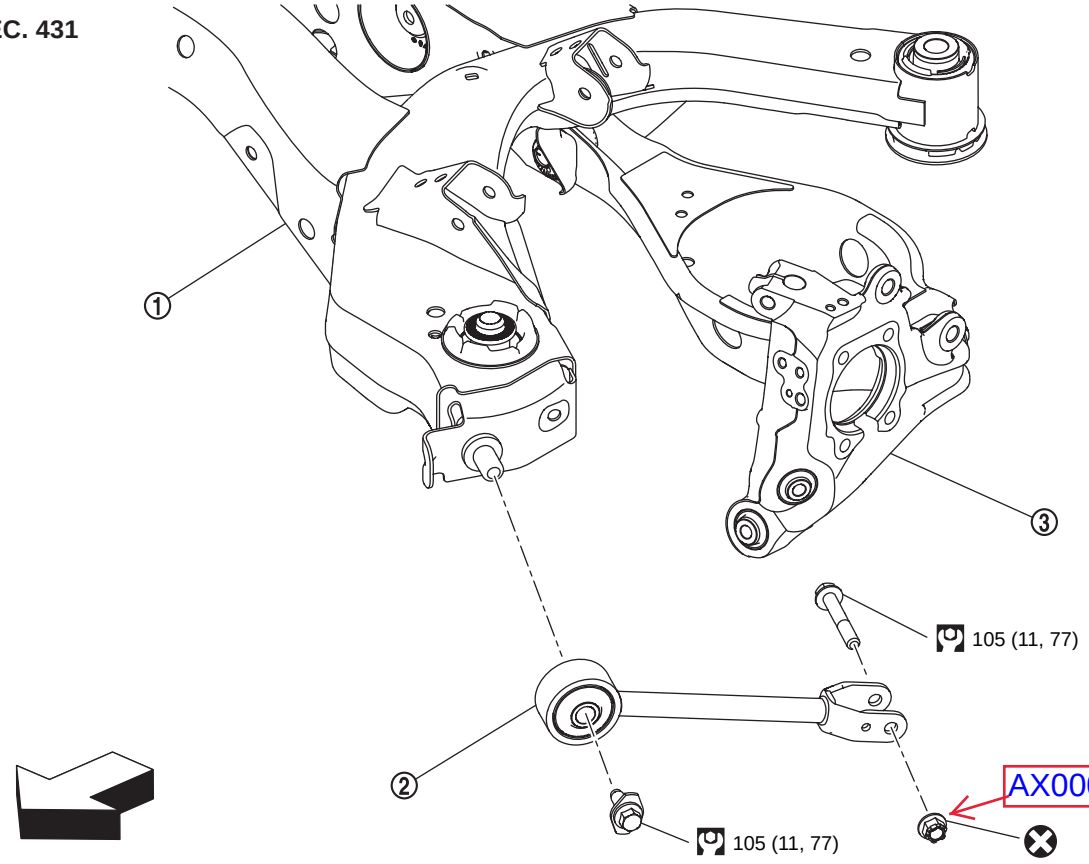
①	Propeller shaft assembly				
: Vehicle front					
: N·m (kg-m, ft-lb)					
: Always replace after every disassembly.					

RADIUS ROD

Exploded View

SEC. 431



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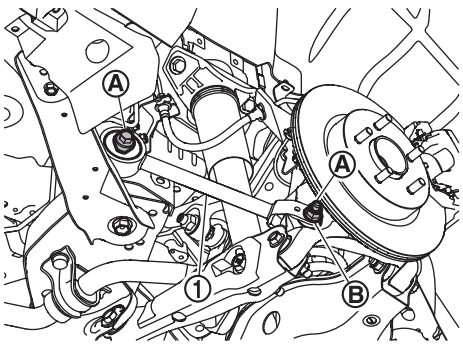
①	Rear suspension member	②	Radius rod	③	Axle housing
⇦	: Vehicle front				
	: N·m (kg-m, ft-lb)				
⊗	: Always replace after every disassembly.				

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.

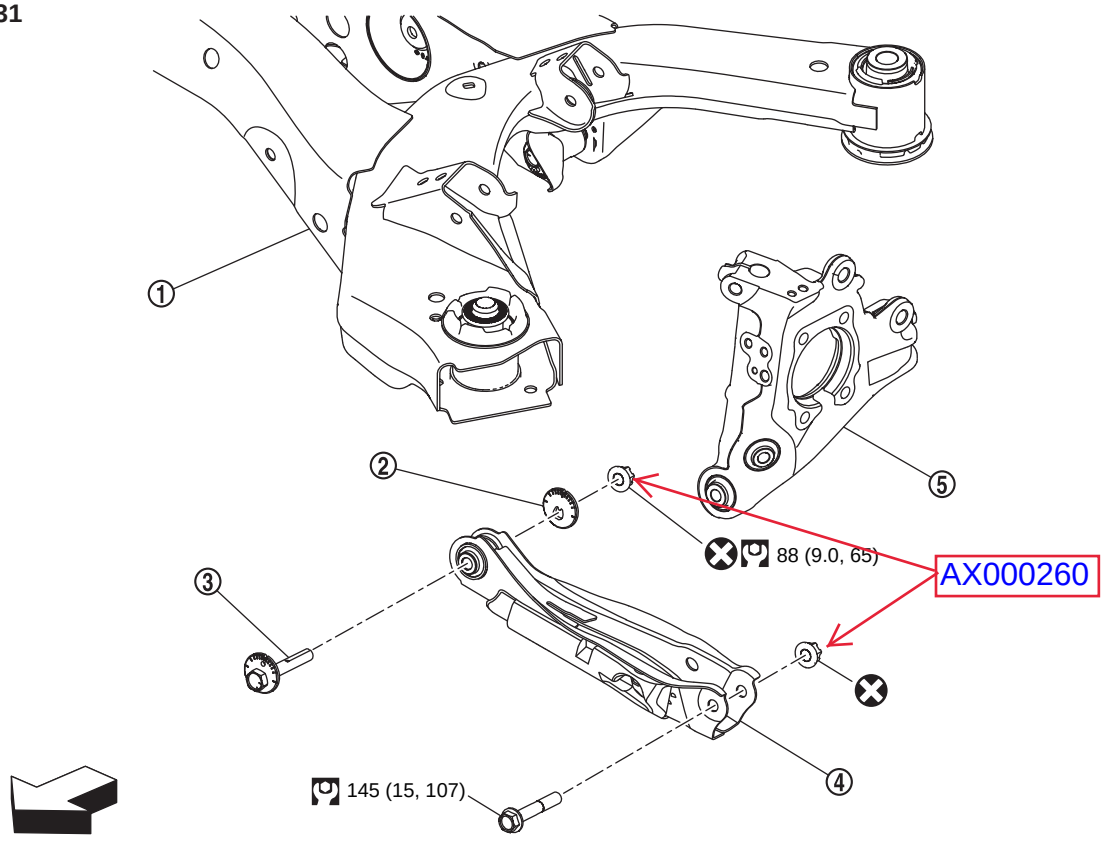
INSPECTION AFTER INSTALLATION

Check wheel alignment. Refer to Inspection.

FRONT LOWER LINK

Exploded View

SEC. 431



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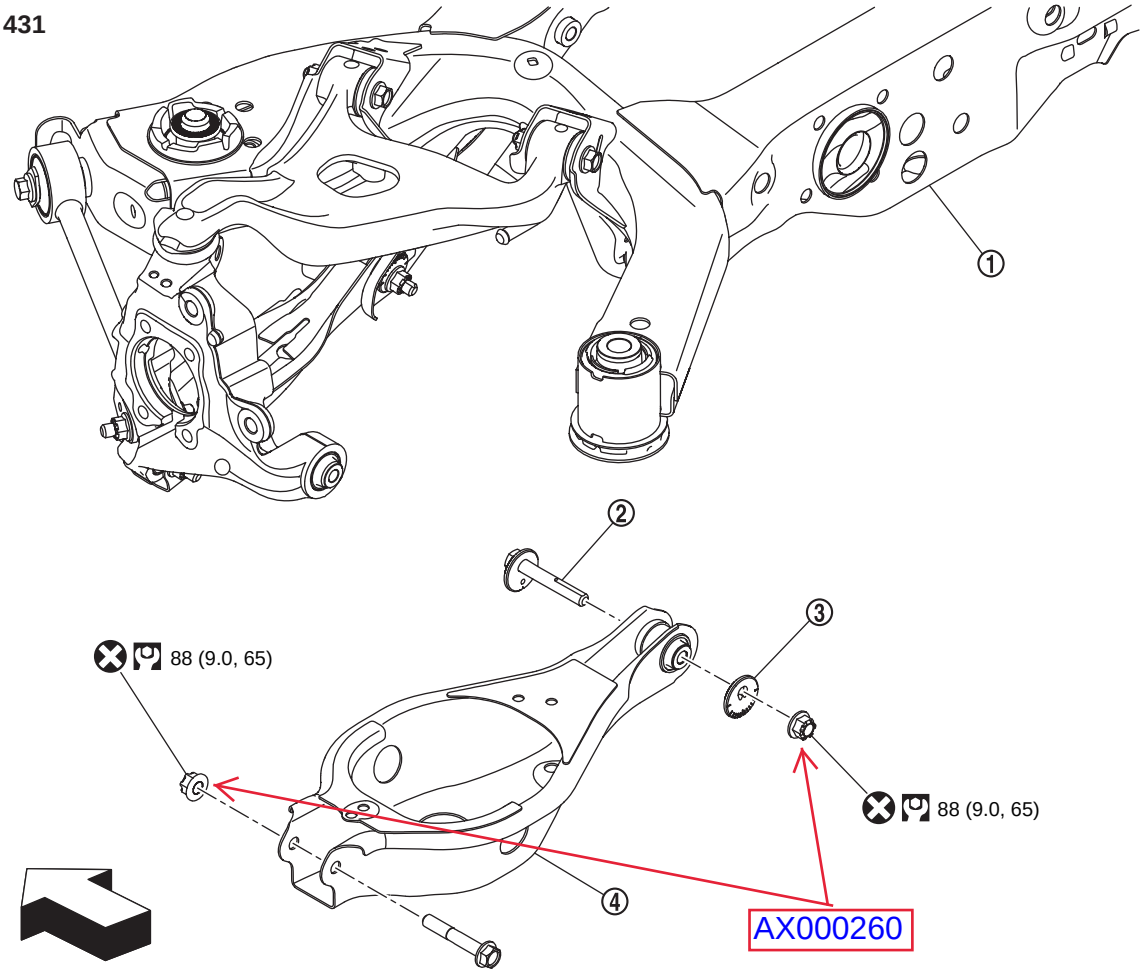
①	**Rear suspension member**	②	Eccentric disk	③	Adjusting bolt
④	**Front lower link**	⑤	Axel housing		
⇦	**: Vehicle front**				
	: N·m (kg-m, ft-lb)				
⊗	**: Always replace after every disassembly.**				

REAR LOWER LINK

Exploded View

SEC. 431



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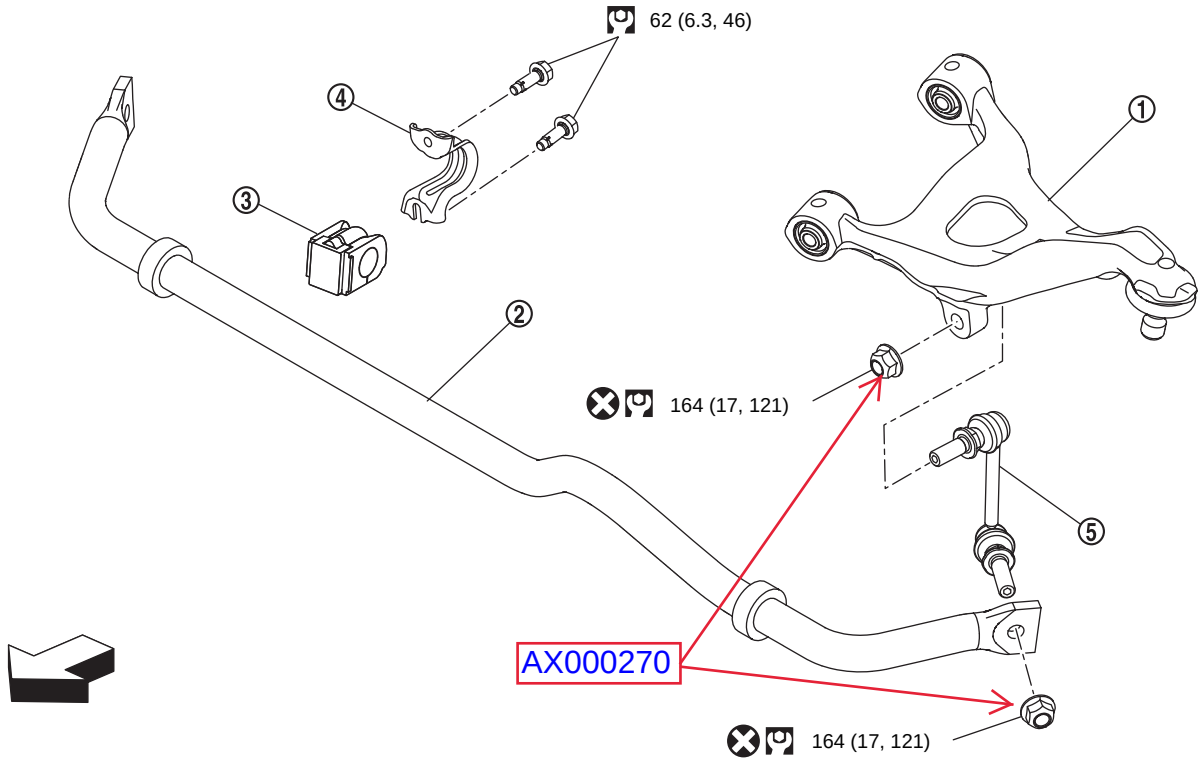
①	Rear suspension member	②	Adjusting bolt	③	Eccentric disk
④	Rear lower link				
⇦	: Vehicle front				
	: N·m (kg-m, ft-lb)				
⊗	: Always replace after every disassembly.				

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

(Parts)

Part Name	Part Number	Quantity	Remarks
TUBE COMPL – FILLER	17220W030P	1	New part number

(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
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 Operation Code	Operation	Cause Code A	Nature Code B	Nature Code C	Quantity	Labor Time	Primary Failed Part Number	Comments
173100MH	Replacement	890	99	C	1	3.2H	17220W030P	2WD
173100MJ						4.2H		4WD