SERVICE BULLETIN

MITSUBISHI MOTORS

GLOBAL AFTER SALES OFFICE, MITSUBISHI MOTORS CORPORATION

PURPOSE : CHANGE	ISSUE NO. : MSB-14EXL00-001	DATE : 2014-01-09
SUBJECT : DISASSEMBLY AND REASSEMBLY PROCEDURES OF THE DRIVESHAFT ASSEMBLY		<DESTINATION/MODEL> (EUR/MMAL/NZ) <M/Y> 14
GROUP : GENERAL(Gr:00)		OUTLANDER PHEV(GF0W)

1. Description :

Please refer to the attached document for the information about the change of mention in the applicable service manual. (The disassembly and reassembly procedures for the driveshaft are added since the related service parts are created)

2. Affected service manuals :

Applicable manual	Pub. No.	Applicable title (INFO-ID)	Contents
2014 OUTLANDER/ OUTLANDER PHEV WORKSHOP MANUAL	CGFE14E2-CD(ENG) CGFF14E2-CD(FRE) CGFG14E2-CD(GER) CGFS14E2-CD(SPA) CGFI14E2-CD(ITA)	SERVICE SPECIFICATIONS (M261-00-031-63400-01), LUBRICANTS (M261-00-041-84600-01)	Attached sheet 8
		DRIVESHAFT ASSEMBLY DISASSEMBLY AND REASSEMBLY (M261-00-372-79700-01)	Attached sheet 9 to 13
		DRIVESHAFT ASSEMBLY DISASSEMBLY AND REASSEMBLY (Added under M261-00-372-79700-01)	Attached sheet 14 to 19
		SERVICE SPECIFICATIONS (M271-00-031-41900-01), LUBRICANTS (M271-00-041-22301-01)	Attached sheet 20
		DRIVESHAFT ASSEMBLY DISASSEMBLY AND REASSEMBLY (M271-00-350-43100-01)	Attached sheet 21
		DRIVESHAFT ASSEMBLY DISASSEMBLY AND REASSEMBLY (Added under M271-00-350-43100-01)	Attached sheet 22 to 24

Applicable manual	Pub. No.	Applicable title (INFO-ID)	Contents
2014 OUTLANDER/ OUTLANDER PHEV WORKSHOP MANUAL	AU900408 NZ:DRAFT	GENERAL INFORMATION (M261-00-011-65200-01)	Attached sheet 25
		GENERAL INFORMATION (Added under M261-00-011-65200-01)	
		DRIVESHAFT ASSEMBLY REMOVAL AND INSTALLATION (Added under M261-00-352-60700-01)	Attached sheet 26 to 33

3. About the details :

Please refer to the attached document

4. Effective time : From the vehicle produced initially

Attached sheet 8

SERVICE SPECIFICATIONS

M1261000301634

Item		Standard value	Limit
Wheel bearing axial looseness mm		–	0.05
Wheel bearing rotation starting torque N·m		–	1.5
PTJ boot assembly dimension mm	4B1, 4J1	85 ± 3	–
<Changed>	4N1	95 ± 3	–
Opening dimension of boot band clipping tool (Special tool: MB991561) mm	EBJ boot band (small) crimping	2.9	–
	EBJ boot band (large) crimping	3.2	–
EBJ boot band crimping size mm		2.4 – 2.8	–

LUBRICANTS

M1261000401846

Item	Specified lubricant				Quantity
Inside of knuckle bore	Shell Sunlight Grease BD2 or equivalent				As required (1.0 – 1.5 g)
PTJ	Repair kit grease	2WD	4J1 (M/T)	LH	185 ± 10 g
				RH	210 ± 10 g
			4N1 (M/T)	LH/RH	255 ± 10 g
			4B1, 4J1 (CVT)	LH/RH	210 ± 10 g
		4WD	4N1 (M/T)	LH/RH	255 ± 10 g
	<Changed>		4B1, 4J1 (CVT)	LH	210 ± 10 g
				RH	200 ± 10 g
			4N1 (A/T)	LH	245 ± 10 g
				RH	255 ± 10 g
EBJ	Repair kit grease	2WD	4B1, 4J1	LH/RH	120 ± 10 g
	<Changed>		4N1	LH/RH	140 ± 10 g
		4WD	4B1, 4J1	LH/RH	120 ± 10 g
			4N1	LH/RH	140 ± 10 g

Inboard joint boots dimension mm	4B1 (Except for PHEV), 4J1	85 ± 3	–
	4B1 (PHEV)	80 ± 3	–

4B1 (Except for PHEV), 4J1	LH/RH	120 ± 10 g
4B1 (PHEV)	LH/RH	95 ± 10 g

4B1 (Except for PHEV), 4J1 (CVT)	LH	210 ± 10 g
	RH	200 ± 10 g
4B1 (PHEV)	LH/RH	115 ± 10 g

Attached sheet 9

Adjust the distance between the boot bands to the standard value to make the air volume inside the PTJ boot to the specified value, then be sure to tighten the PTJ boot band (large) and PTJ boot band (small).

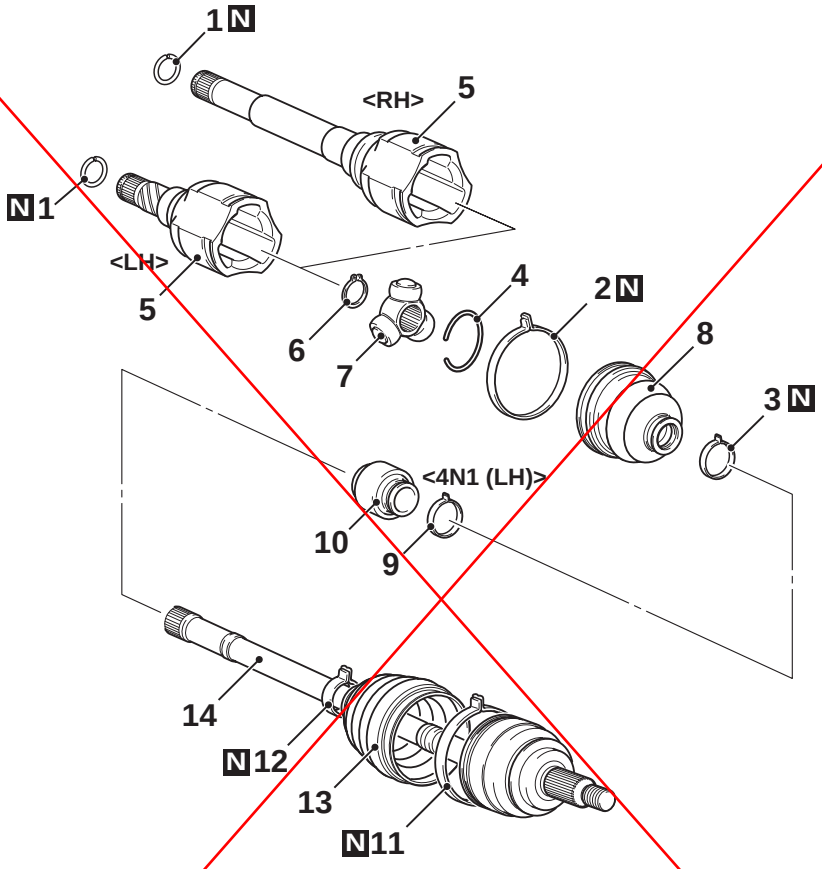
Standard value:
85 ± 3 mm <4B1, 4J1>
95 ± 3 mm <4N1>

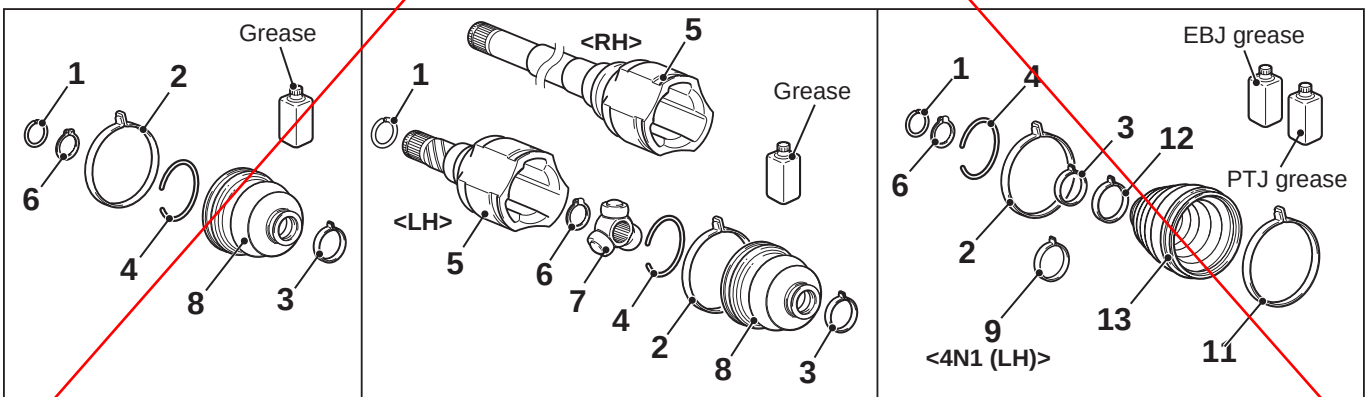
<Changed>
Attached sheet 11 "A"

DISASSEMBLY AND REASSEMBLY <4WD>

M1261003702797

⚠ CAUTION
As for the EBJ assembly, only the EBJ boot can be replaceable, and other parts cannot be disassembled.





PTJ boots repair kit	PTJ repair kit	EBJ boots repair kit <Except for 4N1-RH>

ACC00867AB

<Changed>
Attached sheet 11 "B"

Attached sheet 10

		Disassembly steps
	1.	Circlip
>>D<<	2.	PTJ boot band (large)
>>D<<	3.	PTJ boot band (small)
	4.	Circlip
<<A>> >>C<<	5.	PTJ case
	6.	Snap ring
>>C<<	7.	Spider assembly
<<B>> >>B<<	8.	PTJ boot
>>A<<	9.	Damper band <LH (4N1)>
>>A<<	10.	Dynamic damper <LH (4N1)>

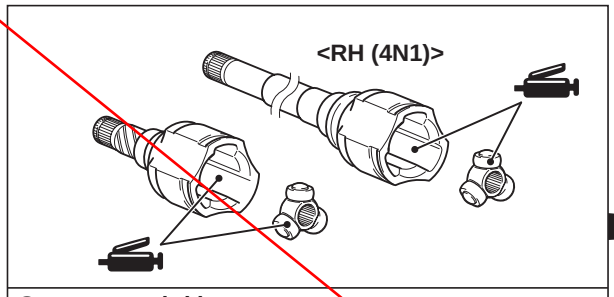
Disassembly steps (Continued)

11. EBJ boot band (large)
12. EBJ boot band (small)
13. EBJ boot
14. EBJ assembly

NOTE:

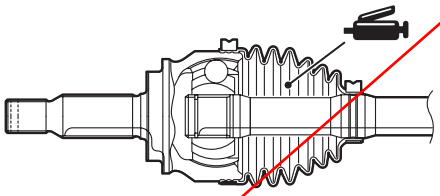
- *PTJ: Pillow Tripod Joint*
- *EBJ: High Efficiency Compact Birfield Joint*

LUBRICATION POINTS



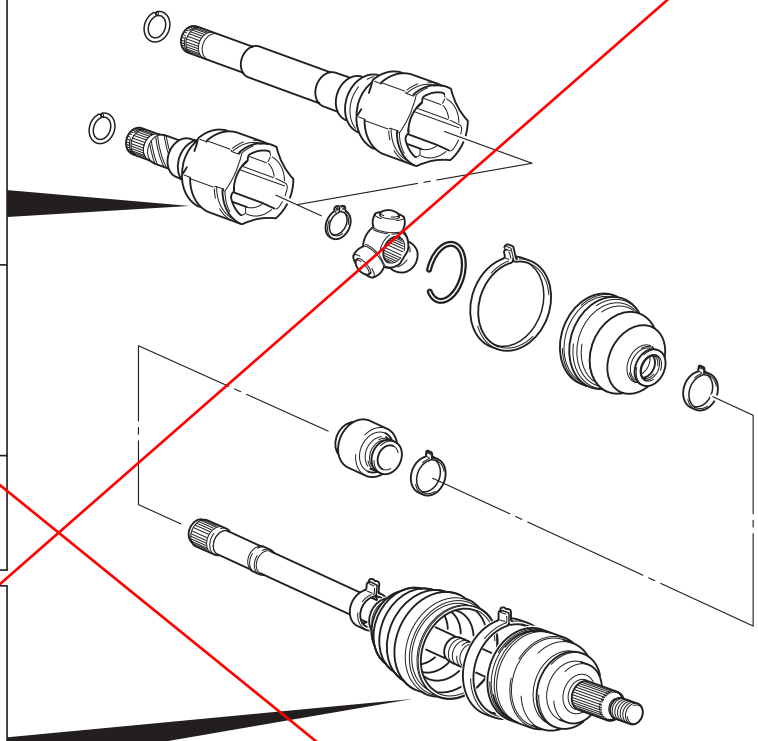
Grease: repair kit grease
Amount used:
210 ± 10 g <4B1 - LH, 4J1 - LH>
200 ± 10 g <4B1 - RH, 4J1 - RH>
255 ± 10 g <4N1 (M/T), 4N1 (A/T) - RH>
245 ± 10 g <4N1 (A/T) - LH>

⚠ CAUTION
The drive shaft joint uses special grease.
Do not mix old and new or different types of grease.



Grease: repair kit grease
Amount used:
120 ± 10 g <4B1, 4J1>
140 ± 10 g <4N1>

⚠ CAUTION
The drive shaft joint uses special grease.
Do not mix old and new or different types of grease.



ACC00905AB

DISASSEMBLY SERVICE POINT

<<A>> PTJ CASE REMOVAL

⚠ CAUTION
Pay attention to the spider assembly roller because it may be disconnected easily.

<<B>> PTJ BOOT REMOVAL

1. Wipe off the grease on the shaft spline.
2. If the PTJ boot is reused, protect the shaft spline area with a tape from damage in pulling out the boot.

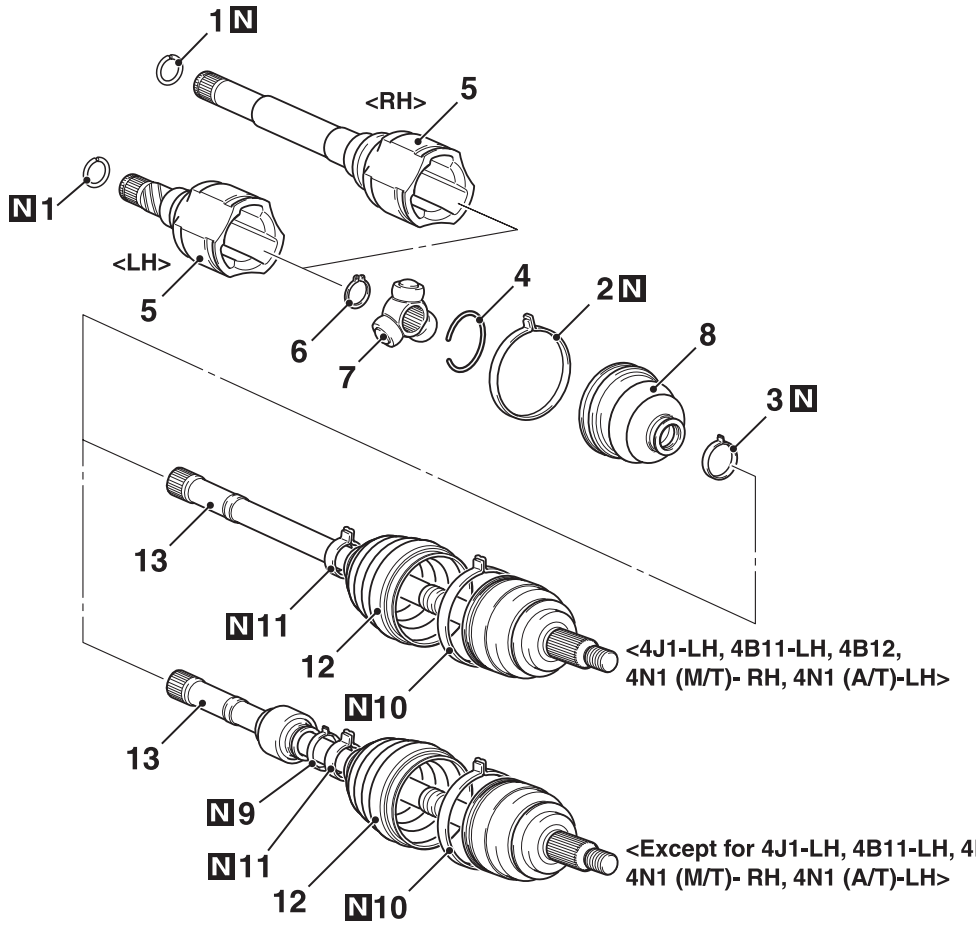
<Changed>
Attached sheet 12

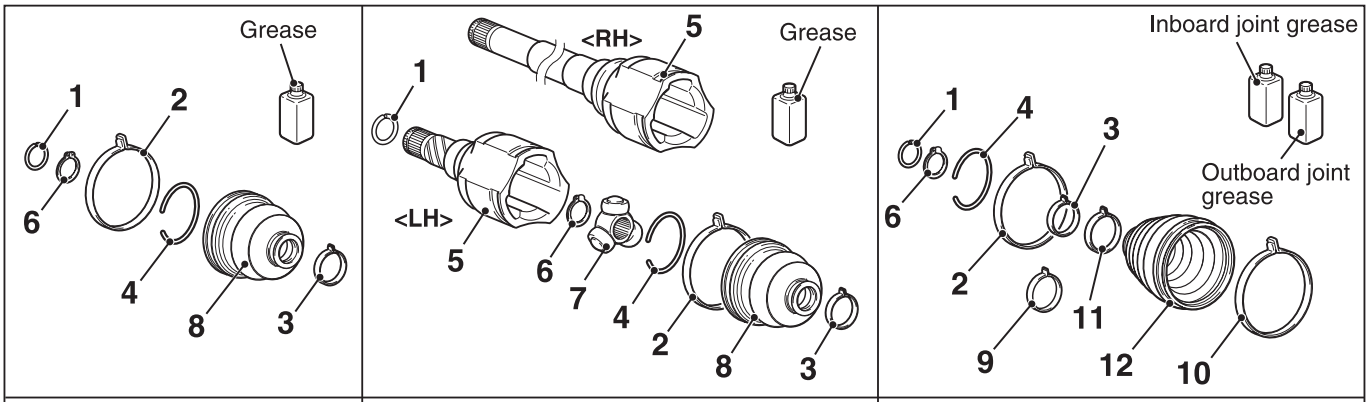
"A"

DISASSEMBLY AND REASSEMBLY <4WD (EXCEPT FOR PHEV)>

⚠ CAUTION

As for the outboard joint assembly, only the outboard joint boot can be replaceable, and other parts cannot be disassembled.





Inboard joint boots repair kit	Inboard joint repair kit	Outboard joint boots repair kit <Except for 4N1-RH>

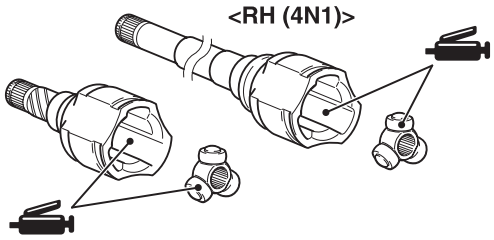
ACE00106AB

			Disassembly steps
		1.	Circlip
	>>D<<	2.	Inboard joint boot band (large)
	>>D<<	3.	Inboard joint boot band (small)
		4.	Circlip
<<A>>	>>C<<	5.	Inboard joint case
		6.	Snap ring
	>>C<<	7.	Spider assembly

			Disassembly steps
<<B>>	>>B<<	8.	Inboard joint boot
	>>A<<	9.	Damper band <LH (4N1)>
		10.	Outboard joint boot band (large)
		11.	Outboard joint boot band (small)
		12.	Outboard joint boot
		13.	Outboard joint assembly

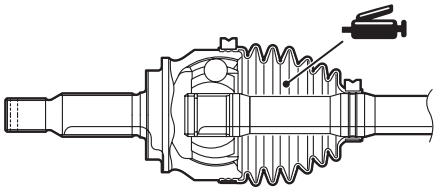
"B"

LUBRICATION POINTS



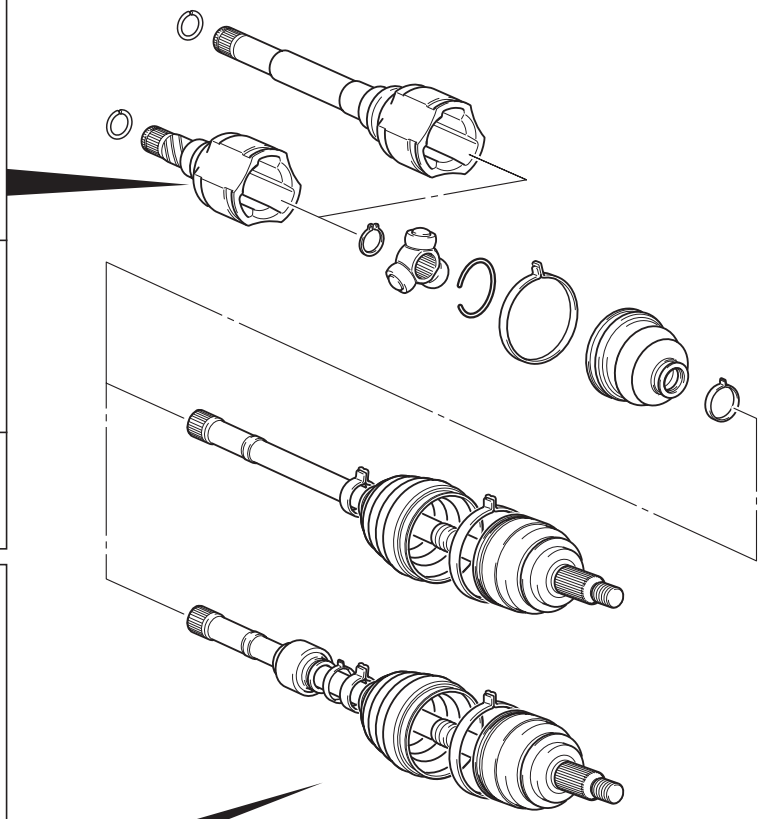
Grease: repair kit grease
Amount used:
210 ± 10 g <4B1 - LH, 4J1 - LH>
200 ± 10 g <4B1 - RH, 4J1 - RH>
255 ± 10 g <4N1 (M/T), 4N1 (A/T) - RH>
245 ± 10 g <4N1 (A/T) - LH>

⚠ CAUTION
The drive shaft joint uses special grease.
Do not mix old and new or different types of grease.



Grease: repair kit grease
Amount used:
120 ± 10 g <4B1, 4J1>
140 ± 10 g <4N1>

⚠ CAUTION
The drive shaft joint uses special grease.
Do not mix old and new or different types of grease.



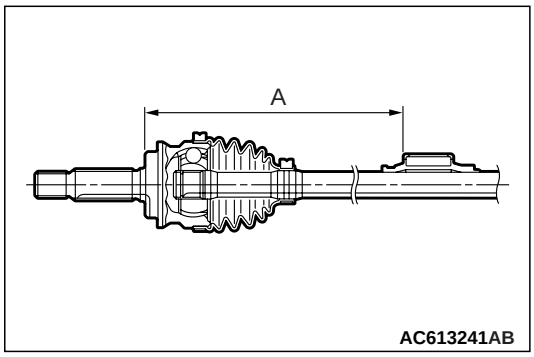
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Attached sheet 13

ASSEMBLY SERVICE POINT

>>A<< ~~DYNAMIC DAMPER~~/DAMPER BAND INSTALLATION <Deleted>

⚠ CAUTION
There should be no grease adhered to the rubber part of the dynamic damper.



1. Install the dynamic damper in the position (A) shown in the figure.

~~**A:**~~
~~**231 ± 3 mm <LH (4N1)>**~~
~~**312 ± 3 mm <RH (4B1, 4J1)>**~~ <Incorrect>

2. Secure the damper band.
3. Wrap plastic tape around the shaft spline, and then install the PTJ boot band (small) and PTJ boot.

>>B<< PTJ BOOT INSTALLATION

Apply a tape to the shaft spline area, and then incorporate the PTJ boot.

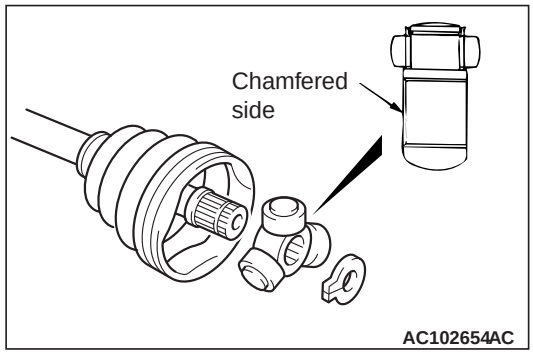
>>C<< SPIDER ASSEMBLY/PTJ CASE INSTALLATION

⚠ CAUTION
- **Special grease is used for the joint. Do not mix the new and previous types of grease or different types of grease.**
- **When the spider assembly is cleaned, apply the specified grease carefully more than usual.**

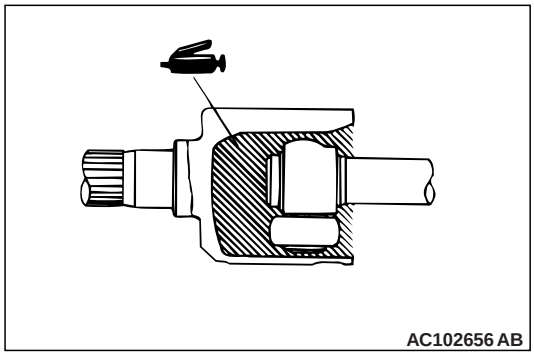
1. Fill the specified grease fully into the clearance between the spider shaft of the spider assembly and the roller.

Specified grease: Repair kit grease

A:
231 ± 3 mm <4N1-M/T (LH)>
312 ± 3 mm <4J1 (RH), 4B11 (RH)>
326.5 ± 3 mm <4N1-A/T (RH)> <Correct>



2. Install the spider assembly to the shaft of the spline area from the bevelling side.

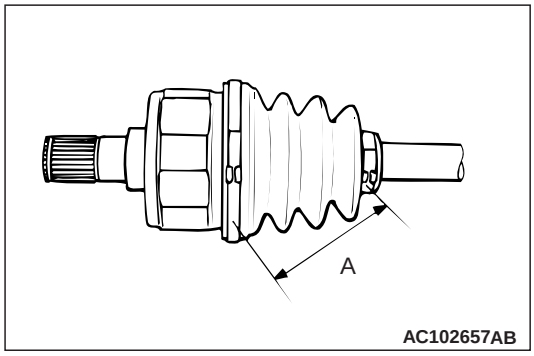


3. Insert the driveshaft into the PTJ case after filling the specified grease to the PTJ case, and then fill the grease again.

Specified grease: Repair kit grease
Application amount:
210 ± 10 g <4B1-LH, 4J1-LH>
200 ± 10 g <4B1-RH, 4J1-RH>
255 ± 10 g <4N1 (M/T), 4N1 (A/T)-RH>
245 ± 10 g <4N1 (A/T)-LH>

NOTE: When using the repair kit grease, fill the half of the grease into the joint and the other half into the boot as a guideline, and consume the grease completely.

>>D<< PTJ BOOT BAND (SMALL)/PTJ BOOT BAND (LARGE) INSTALLATION

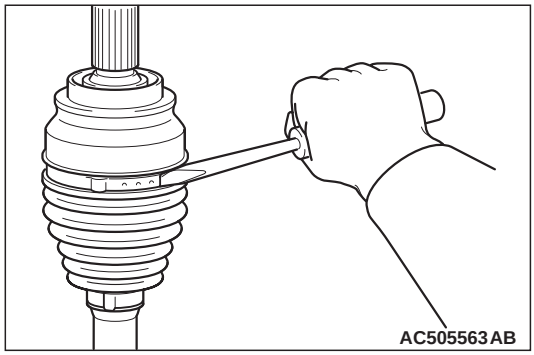


Adjust the distance between the boot bands to the standard value to make the air volume inside the PTJ boot to the specified value, then be sure to tighten the PTJ boot band (large) and PTJ boot band (small).

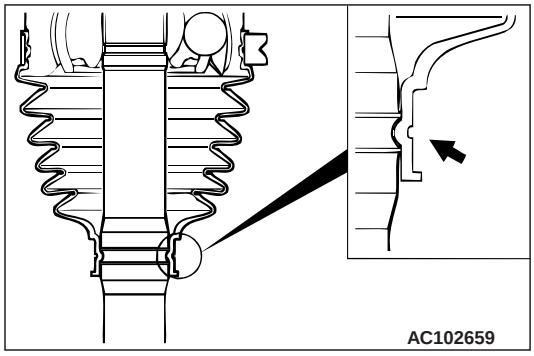
Standard value:
85 ± 3 mm <4B1, 4J1>
85 ± 3 mm <4N1>

EBJ BOOT REPLACEMENT

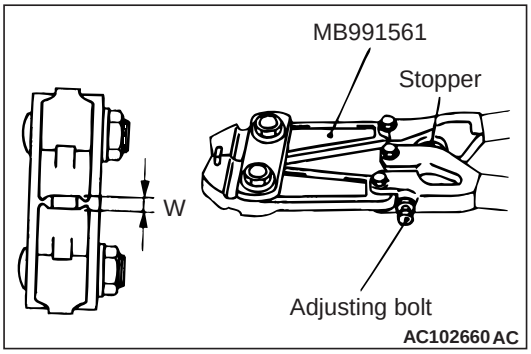
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1. Remove the boot band (large) and (small).
   NOTE: Boot band cannot be reused.
2. Remove the boot.
3. Apply a tape to the shaft spline area, and then incorporate the boot band and boot.



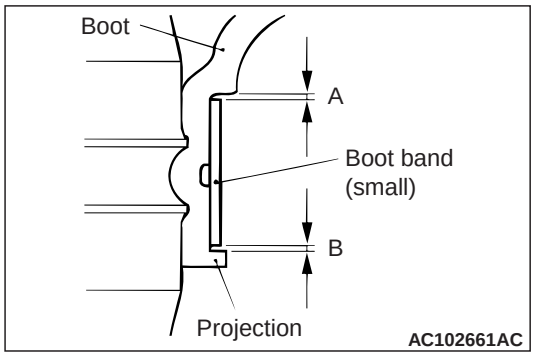
4. Install the boot, aligning with the centre groove on the boot small diameter.



5. Turn the adjusting bolt of the boot band clipping tool (Special tool: MB991561) to adjust the opening dimension (W) to the standard value.

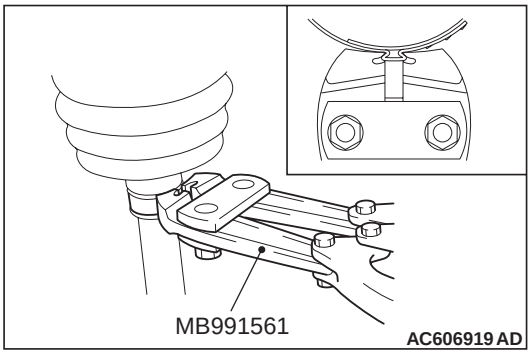
Standard value (W): 2.9 mm
<Over 2.9 mm> Tighten the adjusting bolt.
<Below 2.9 mm> Loosen the adjusting bolt.

NOTE:
- *The adjusting bolt changes W approximately 0.7 mm for each rotation.*
- *Do not rotate the adjusting bolt more than one rotation.*

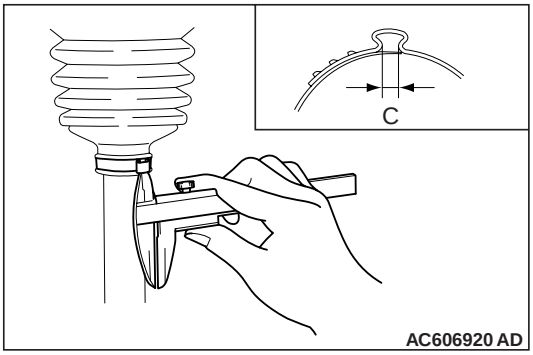


6. Roughly position the boot band (small) at the centre so that there are clearance at both ends (A and B).

⚠ CAUTION
- **Fix the driveshaft in an upright position, and pinch the crimping area of the boot band securely between the jaws of the special tool.**
- **Be sure to compress the boot band until the special tool touches the stopper.**



7. Using the special tool to crimp the boot band (small).

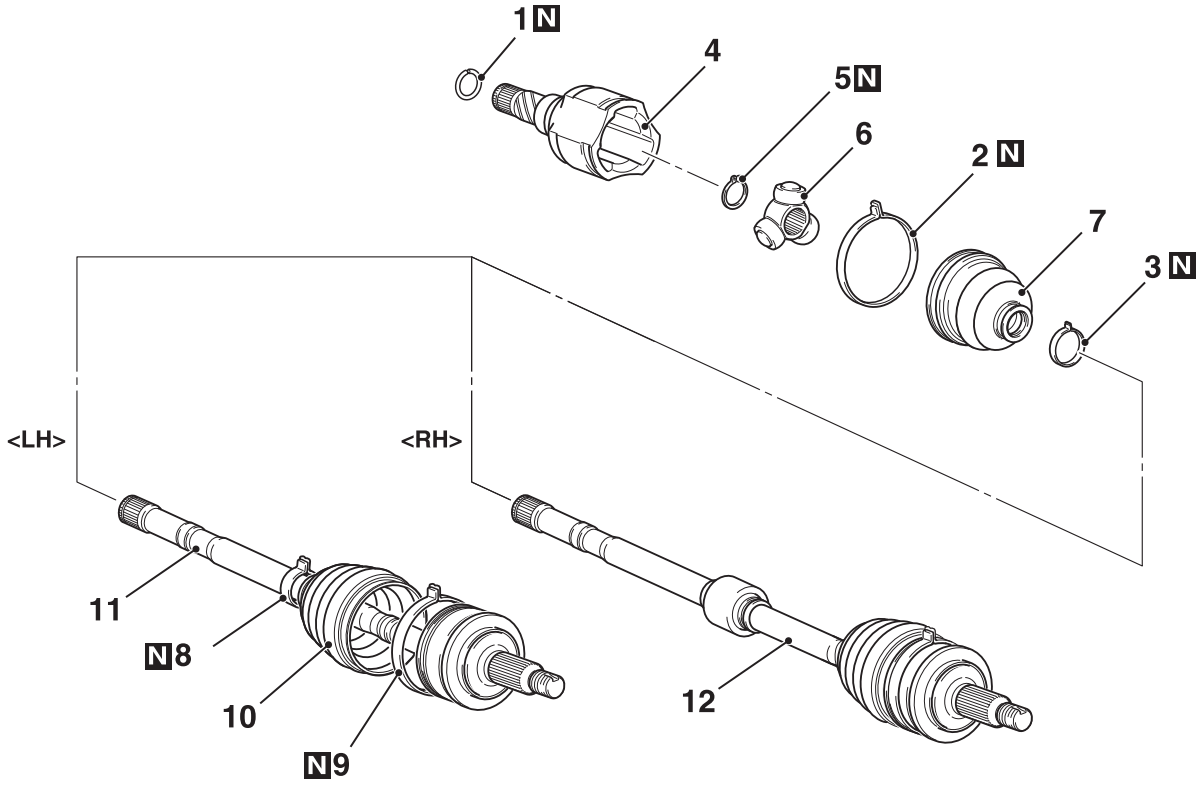


Attached sheet 15

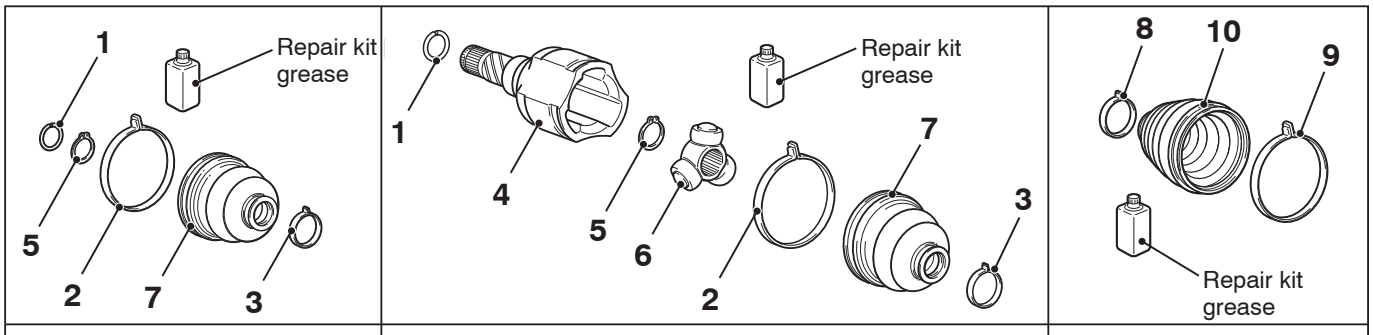
DISASSEMBLY AND REASSEMBLY <4WD (PHEV)>

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⚠ CAUTION
The outboard joint assembly <RH> cannot be disassembled.



ACD03835AB



Inboard joint boots repair kit	Inboard joint repair kit	Outboard joint boots repair kit <LH>

ACD03829AB

Disassembly steps

1. Circlip
>>C<< 2. Inboard joint boot band (large)
>>C<< 3. Inboard joint boot band (small)
>>B<< 4. Inboard joint case
5. Snap ring

Disassembly steps (Continued)

>>B<< 6. Spider assembly
<<A>> >>A<< 7. Inboard joint boot
8. Outboard joint boot band (large) <LH>

Attached sheet 16

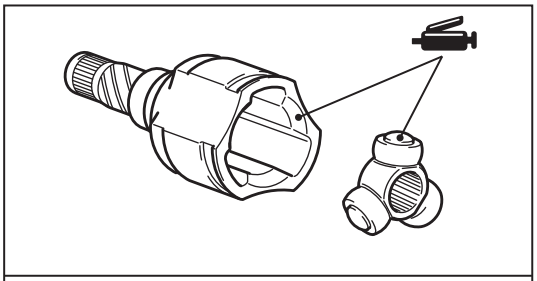
Disassembly steps (Continued)

9. Outboard joint boot band (small) <LH>
10. Outboard joint boot <LH>

Disassembly steps (Continued)

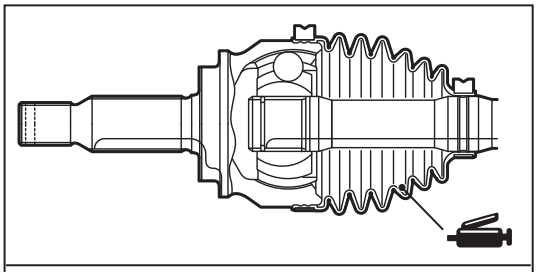
11. Outboard joint assembly <LH>
12. Outboard joint assembly <RH>

LUBRICATION POINTS



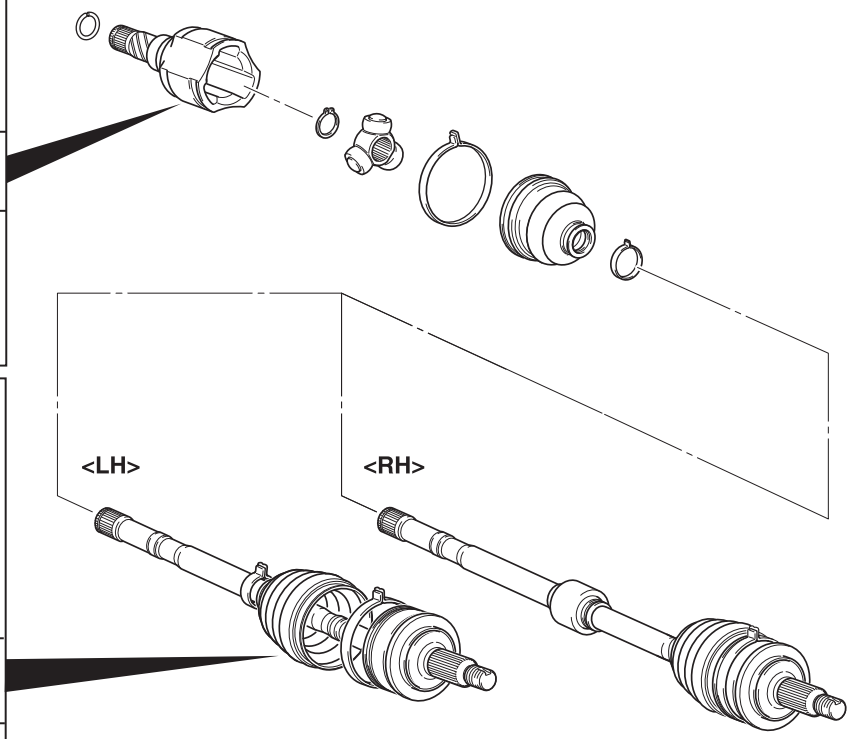
Grease: repair kit grease
Amount used: 115 ± 10 g

⚠ CAUTION
The drive shaft joint uses special grease. Do not mix old and new or different types of grease.



Grease: repair kit grease
Amount used: 95 ± 10 g

⚠ CAUTION
The drive shaft joint uses special grease. Do not mix old and new or different types of grease.



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DISASSEMBLY SERVICE POINT

<<A>> INBOARD JOINT BOOT REMOVAL

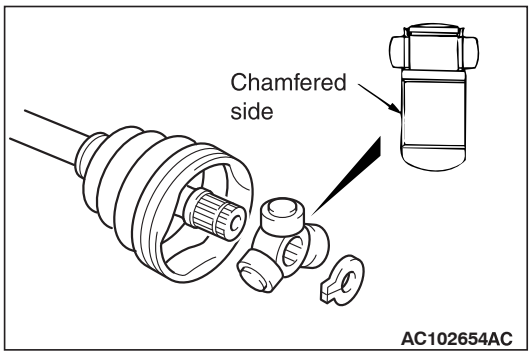
1. Wipe off the grease on the shaft spline.
2. If the inboard joint boot is reused, protect the shaft spline area with a tape from damage in pulling out the boot.

REASSEMBLY SERVICE POINTS

>>A<< INBOARD JOINT BOOT INSTALLATION

Apply a tape to the shaft spline area, and then incorporate the inboard joint boot.

>>B<< SPIDER ASSEMBLY/INBOARD JOINT CASE INSTALLATION



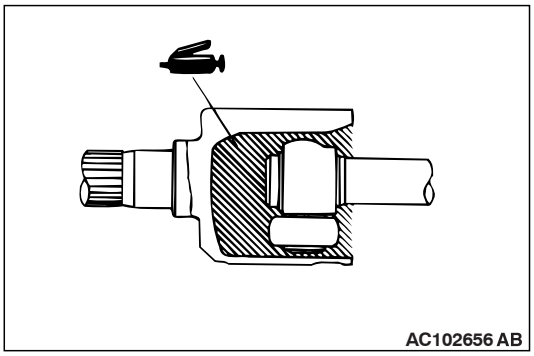
AC102654AC

1. Install the spider assembly to the shaft of the spline area from the bevelling side.

Attached sheet 17

⚠ CAUTION

- **Special grease is used for the joint. Do not mix the new and previous types of grease or different types of grease.**
- **When the spider assembly is cleaned, apply the specified grease carefully more than usual.**

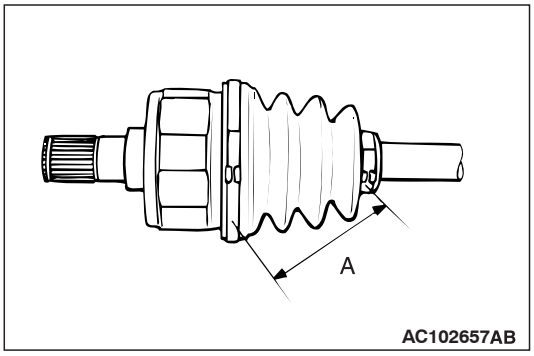


2. Fill the specified grease fully into the clearance between the spider shaft of the spider assembly and the roller.

   Specified grease: Repair kit grease
   Application amount: 115 ± 10 g

   NOTE: When using the repair kit grease, fill the half of the grease into the joint and the other half into the boot as a guideline, and consume the grease completely.

>>C<< INBOARD JOINT BOOT BAND (SMALL)/ INBOARD JOINT BOOT BAND (LARGE) INSTALLATION

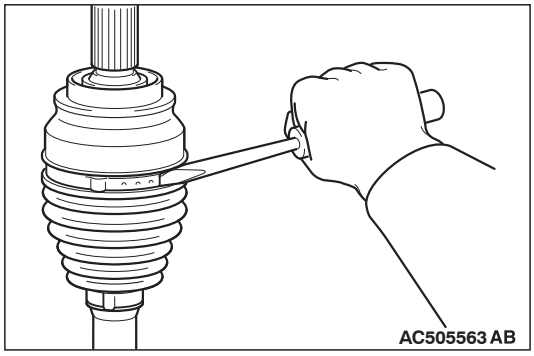


Adjust the distance between the boot bands to the standard value to make the air volume inside the inboard joint boot to the specified value, then be sure to tighten the inboard joint boot band (large) and inboard joint boot band (small).

Standard value: 80 ± 3 mm

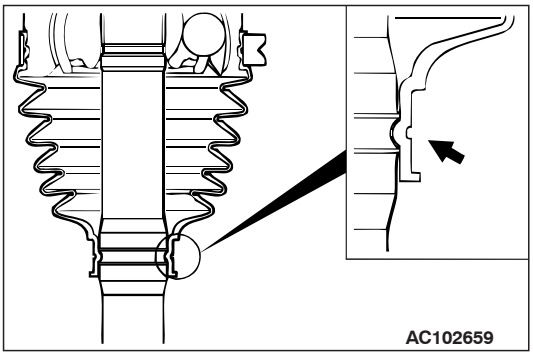
EBJ BOOT REPLACEMENT

M1261007500476

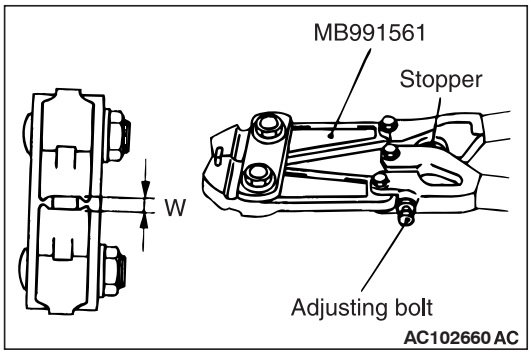


1. Remove the boot band (large) and (small).

   NOTE: Boot band cannot be reused.
2. Remove the boot.
3. Apply a tape to the shaft spline area, and then incorporate the boot band and boot.



4. Install the boot, aligning with the centre groove on the boot small diameter.

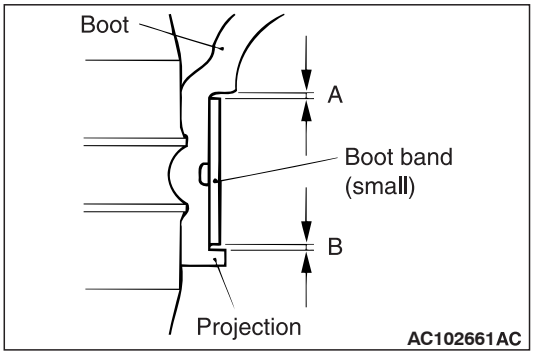


5. Turn the adjusting bolt of the boot band clipping tool (Special tool: MB991561) to adjust the opening dimension (W) to the standard value.

   Standard value (W): 2.9 mm
   <Over 2.9 mm> Tighten the adjusting bolt.
   <Below 2.9 mm> Loosen the adjusting bolt.

   NOTE:
   - *The adjusting bolt changes W approximately 0.7 mm for each rotation.*
   - *Do not rotate the adjusting bolt more than one rotation.*

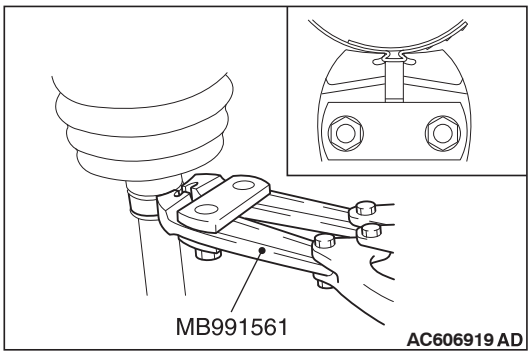
Attached sheet 18



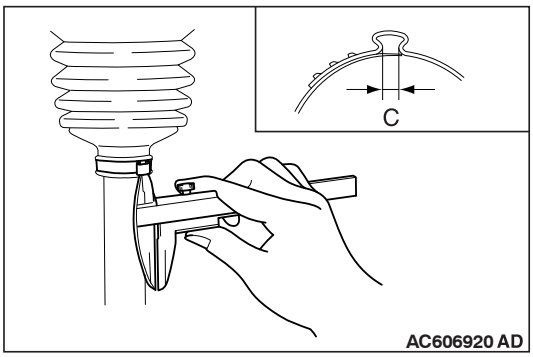
6. Roughly position the boot band (small) at the centre so that there are clearance at both ends (A and B).

⚠ CAUTION

- **Fix the driveshaft in an upright position, and pinch the crimping area of the boot band securely between the jaws of the special tool.**
- **Be sure to compress the boot band until the special tool touches the stopper.**



7. Using the special tool to crimp the boot band (small).



8. Check that the crimping value of the boot band (C) is equal to the standard value.

Standard value (C): 2.4 to 2.8 mm
<When the crimping value is over 2.8 mm>
Readjust W in step 5 according to the following expression, and then perform the operation in step 7 again.
W = 5.5 − C (Example: W = 2.6 for C = 2.9)

<When the crimping value is below 2.4 mm>
Remove the boot band, readjust W in step 5 according to the following expression, and then perform the operations in steps 6 and 7 again using a new boot band.
W = 5.5 − C (Example: W = 3.2 for C = 2.3)

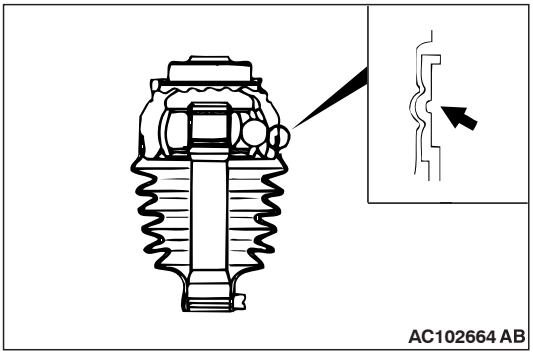
9. Check that the boot band is seated within the installation area. If it is not seated within the area, remove the band and use a new band to perform the operations shown in steps from 6 to 8.

⚠ CAUTION

- **The special grease is used for the joint: Do not mix old and new grease, or grease in different types.**

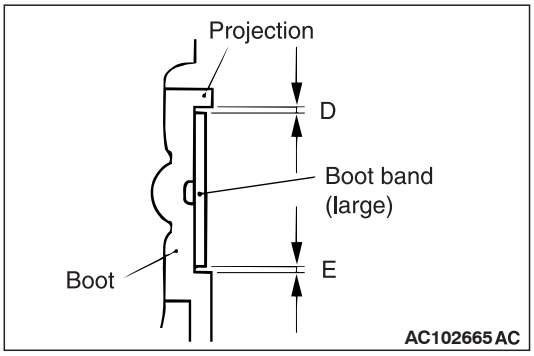
10. Fill the boot with the specified amount of specified grease.

Specified grease: Repair kit grease
Amount used: Refer to .



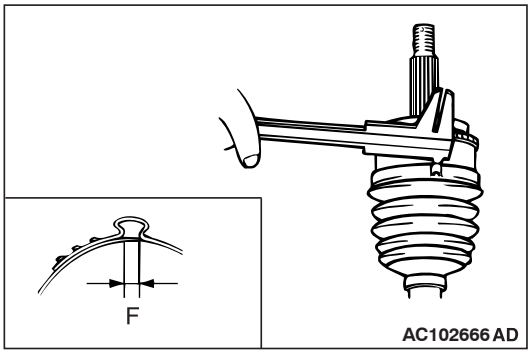
11. Align the centre groove on the resin boot large diameter with the shaft groove.
12. As shown in step 5, using the special tool (MB991561), adjust the opening dimension (W) to the standard value.

Standard value (W): 3.2 mm



13. Roughly position the boot band (large) at the centre so that there are clearance at both ends (D and E).
14. As shown in step 7, use the special tool to crimp the boot band (large).

Attached sheet 19



15.Check that the crimping value of the boot band (F) is equal to the standard value.

Standard value (C): 2.4 to 2.8 mm

<When the crimping value is over 2.8 mm>
Readjust W in step 12 according to the following expression, and then perform the operation in step 14 again.
W = 5.8 – F (Example: W = 2.9 for F = 2.9)
<When the crimping value is below 2.4 mm>
Remove the boot band, readjust W in step 12 according to the following expression, and then perform the operations in steps 13 and 14 again using a new boot band.
W = 5.8 – F (Example: W = 3.5 for F = 2.3)

16.Check that the boot band is seated within the installation area. If it is not seated within the area, remove the band and use a new band to perform the operations shown in steps from 13 to 15.

Attached sheet 20

SERVICE SPECIFICATIONS

M1271000301419

Item		Standard value	Limit
Rear axle total backlash mm		–	5
Wheel bearing axial looseness mm		–	0.05
Hub rotation starting torque N·m		–	1.4
Electronic control coupling stud bolt length mm		21.6 – 24.4	–
Final drive gear backlash mm		0.08 – 0.15	–
Drive gear runout on backside mm		–	0.05
Differential gear backlash mm		0 – 0.076	0.2
Drive pinion rotation torque N·m	When replaced with new one (coated with rust inhibitor oil)	0.7 – 1.2	–
ETJ boot assembly dimension mm		75 ± 3	–

LUBRICANTS

M1271000401223

Item	Specified lubricant	Quantity
Gear oil	MITSUBISHI MOTORS GENUINE super hypoid gear oil API classification GL-5, SAE 80W	Approx. 0.4 L
ETJ joint	Repair kit grease	75 ± 10 g

SEALANT AND ADHESIVE

M1271000500711

Item	Specified sealant and adhesive	Remark
Differential cover assembly	ThreeBond 1217	Semi-drying sealant
Vent plug	ThreeBond 1215, 1216, 1217 or equivalent	
Joint between differential carrier and electronic control coupling		
Tightening area between drive gear and differential case	LOCTITE No.271	Anaerobic adhesive

<Changed>

Inboard joint	Repair kit grease	Except for PHEV	75 ± 10 g
		PHEV	55 ± 10 g

<Changed>

Inboard joint boots dimension mm	Except for PHEV	75 ± 3	–
	PHEV	70 ± 3	–

DISASSEMBLY AND REASSEMBLY

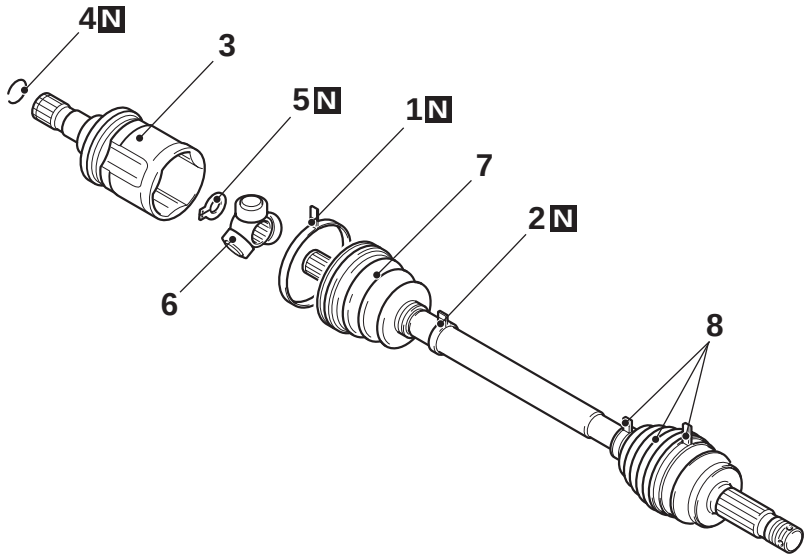
M1271003500431

<Added>

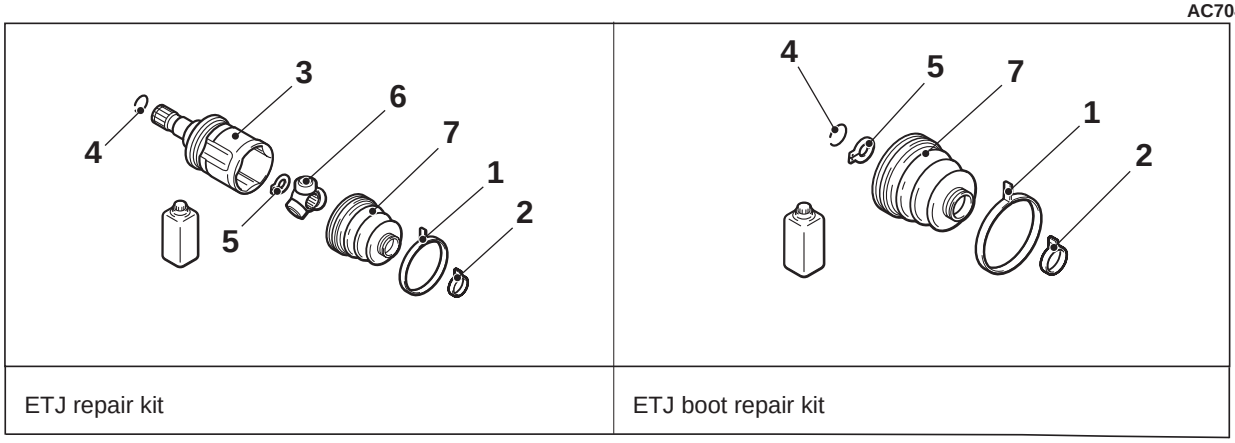
<EXCEPT FOR PHEV>

⚠ CAUTION

EUJ assembly cannot be disassembled.



AC704468 AB



ETJ repair kit	ETJ boot repair kit

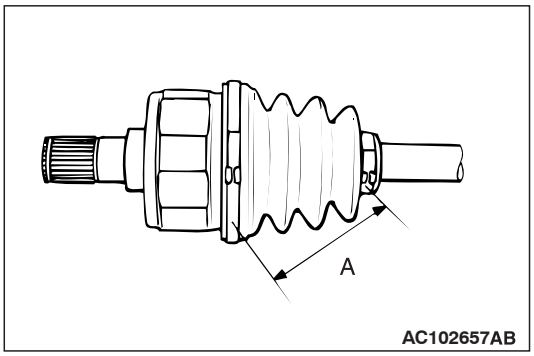
Disassembly steps

	>>**B**<<	1.	ETJ boot band (large)
	>>**B**<<	2.	ETJ boot band (small)
<<**A**>>	>>**A**<<	3.	ETJ case
		4.	Circlip
		5.	Snap ring

Disassembly steps (Continued)

<<**A**>>	>>**A**<<	6.	Spider assembly
<<**B**>>		7.	ETJ boot
		8.	EUJ assembly

>>B<< INBOARD JOINT BOOT BAND (SMALL)/ INBOARD JOINT BOOT BAND (LARGE) TIGHTENING



Adjust the distance between the boot bands to the standard value to adjust the air volume inside the inboard joint boot to the specified value, then be sure to tighten the inboard joint boot band (large) and inboard joint boot band (small).

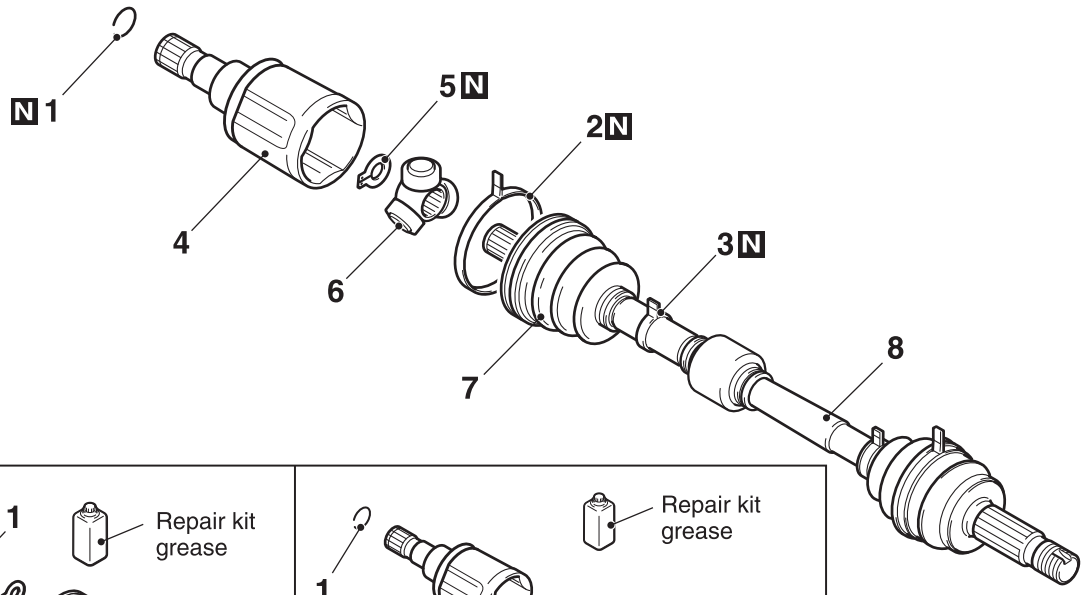
Standard value (A): 75 ± 3 mm

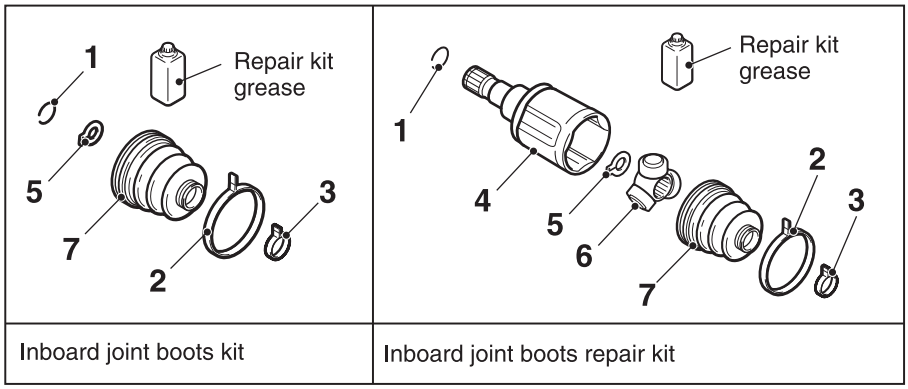
<Added>

DISASSEMBLY AND REASSEMBLY <PHEV>

M1271003500635

⚠ CAUTION
The outboard joint assembly cannot be disassembled.





Inboard joint boots kit	Inboard joint boots repair kit

ACD03838AB

Disassembly steps

		1.	Circlip
	>>B<<	2.	Inborad joint boot band (large)
	>>B<<	3.	Inborad joint boot band (small)
<<A>>	>>A<<	4.	Inborad joint case

Disassembly steps (Continued)

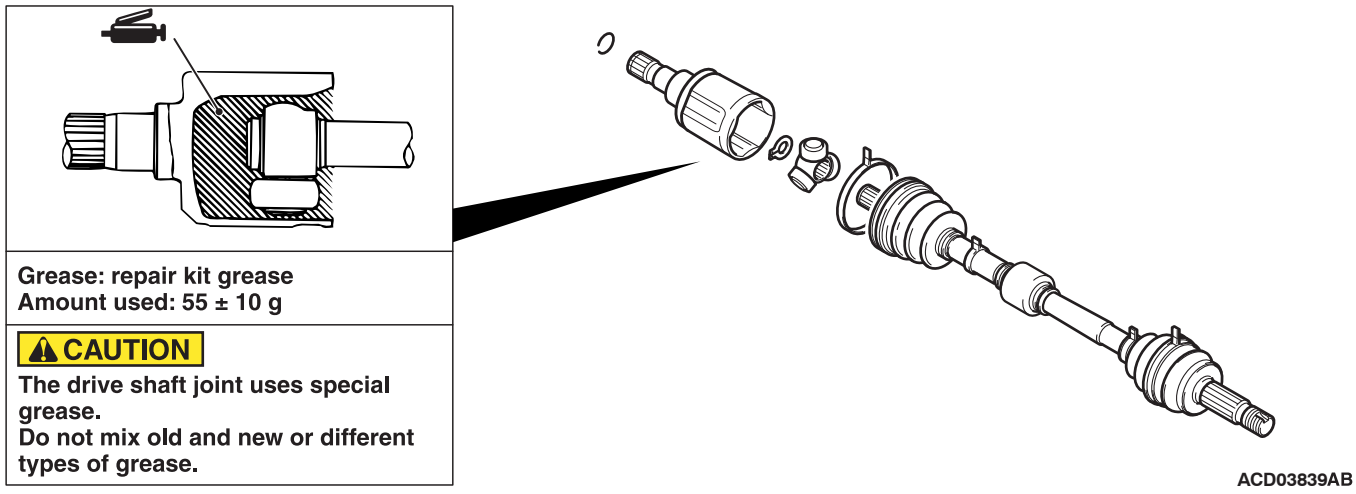
<<A>>	>>A<<	5.	Snap ring
<<B>>		6.	Spider assembly
		7.	Inborad joint boot
		8.	Outborad joint assembly

<Added>

Attached sheet 23, 24

Attached sheet 23

LUBRICATION POINTS



Grease: repair kit grease
Amount used: 55 ± 10 g

⚠ CAUTION
The drive shaft joint uses special grease.
Do not mix old and new or different types of grease.

ACD03839AB

DISASSEMBLY SERVICE POINTS

<<A>> INBOARD JOINT CASE/SPIDER ASSEMBLY REMOVAL

⚠ CAUTION
Do not disassemble the spider assembly.

1. Wipe off the grease inside the inboard joint case and on the spider assembly.
2. If the grease is contaminated with the foreign material (water, dust, etc.), be sure to wash the spider assembly.

<<B>> INBOARD JOINT BOOT REMOVAL

1. Wipe off the grease on the shaft spline.
2. If the inboard joint boot is reused, protect the shaft spline area with taping from the damage in removal of the boot.

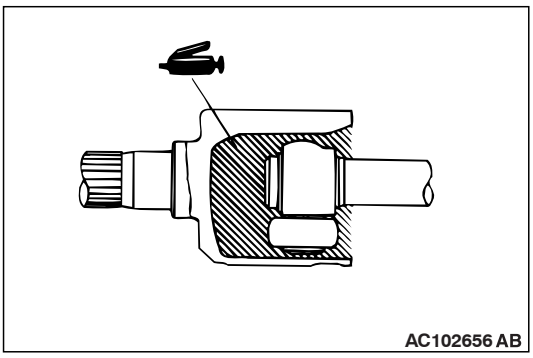
>>B<< INBOARD JOINT BOOT BAND (SMALL)/ INBOARD JOINT BOOT BAND (LARGE) INSTALLATION

REASSEMBLY SERVICE POINT

>>A<< SPIDER ASSEMBLY/INBOARD JOINT CASE INSTALLATION

⚠ CAUTION

- **Special grease is used for the joint. Do not mix the new and previous types of grease or different types of grease.**
- **When the spider assembly is cleaned, apply the specified grease carefully more than usual.**



AC102656 AB

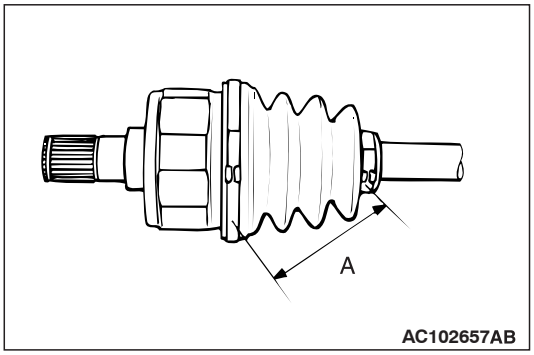
Fill the specified grease fully into the clearance between the spider shaft of the spider assembly and the roller.

Specified grease: Repair kit grease

Application amount: 55 ± 10 g

NOTE: When using the repair kit grease, fill the half of the grease into the joint and the other half into the boot as a guideline, and consume the grease completely.

Attached sheet 24



Adjust the distance between the boot bands to the standard value to make the air volume inside the inboard joint boot to the specified value, then be sure to tighten the inboard joint boot band (large) and inboard joint boot band (small).

Standard value (A): 70 ± 3 mm

General

M1261000101652

A front drive shaft heat protector has been added.

<Added>

・The disassembly and reassembly procedure for the front drive shaft assembly has been changed.

<Added>

SERVICE SPECIFICATION

M1261000301742

Item	Standard value
Inboard joint boots dimension	80 ± 3 mm

LUBRICANTS

M1261000401987

Item	Specified lubricant	Quantity
Inboard joint	Repair kit grease	115 ± 10 g
Outboard joint		95 ± 10 g

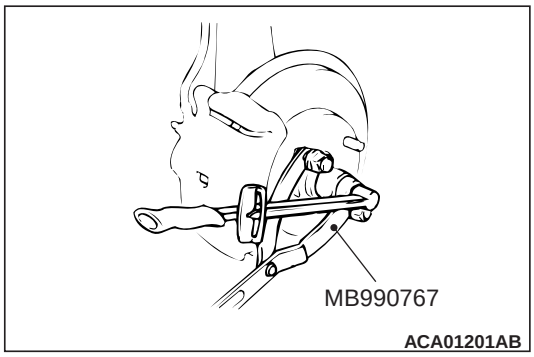
Attached sheet 26

>>C<< DRIVESHAFT NUT INSTALLATION

⚠ CAUTION

Do not apply the vehicle weight on the front wheel hub assembly before fully tightening the driveshaft nut. Otherwise, the wheel bearing may be broken.

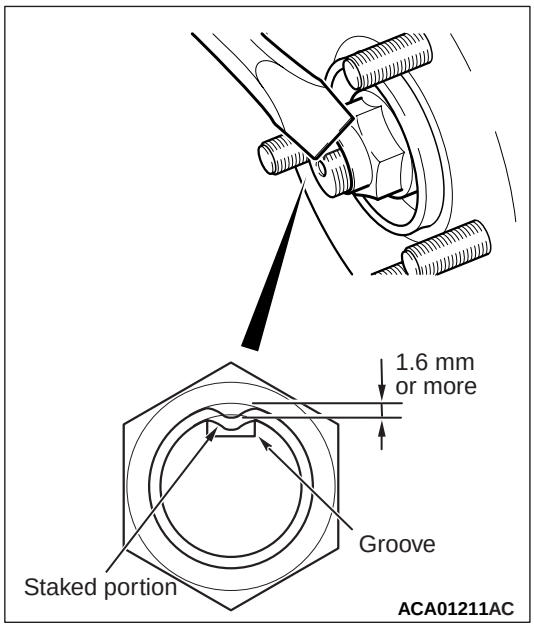
1. Check the hub seated surface for damage or corrosion. Whenever solvent is used for removing the corrosion, the surface should be degreased.
2. Check that the new driveshaft nut can be turned smoothly by hand. Then tighten it until it is seated.



3. Using special tool front hub and flange yoke holder (MB990767), tighten the driveshaft nut.

   Tightening torque: 270 ± 27 N·m

4. After tightening to the specified torque, check that the nut is seated securely.



5. Use the chisel and a hammer to stake the nut until the centre in the staked portion reaches the shown dimension.
6. Finally, check that the nut is not cracked at its staked portion.

<Added>

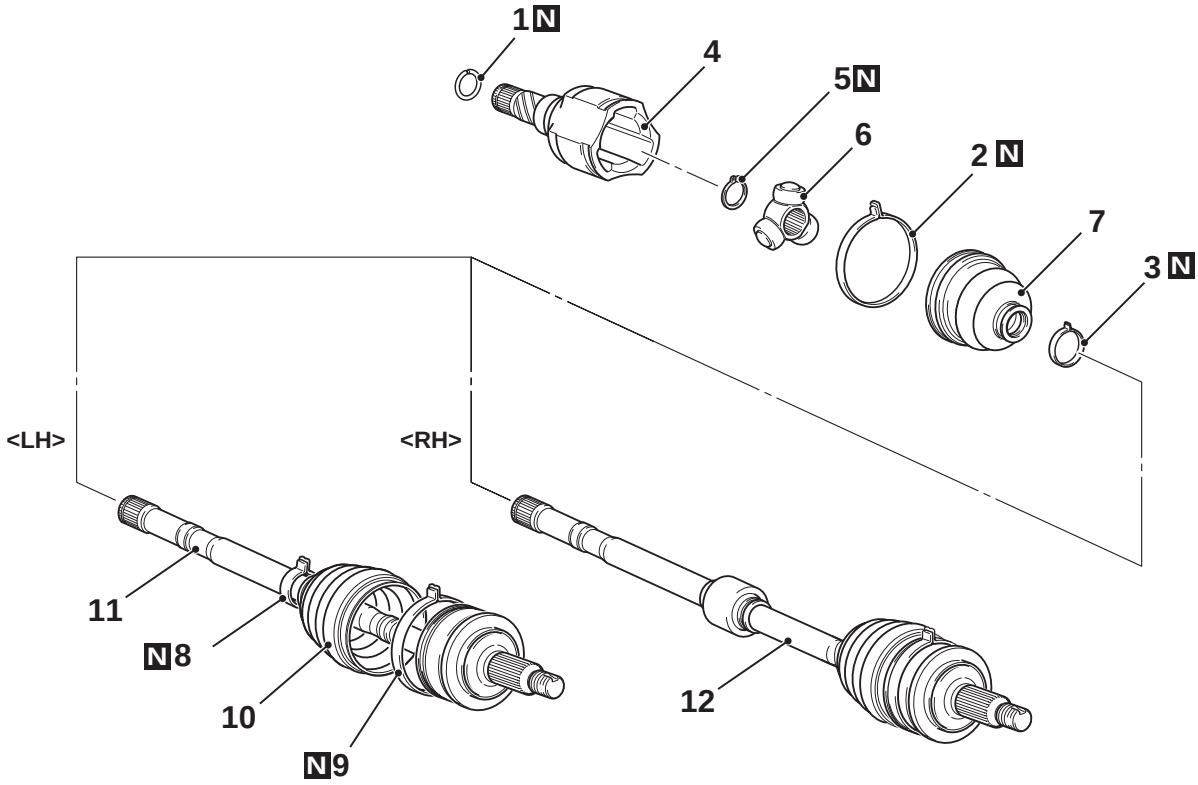
Attached sheet 27 to 33

Attached sheet 27

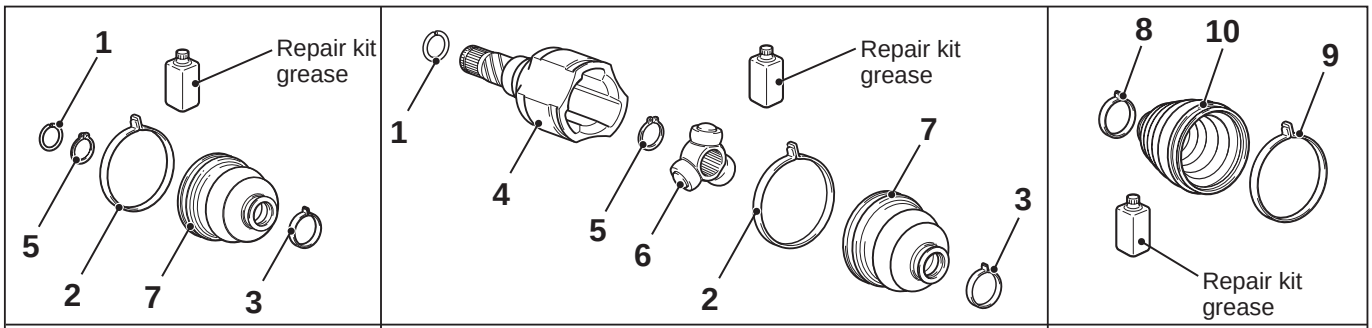
DISASSEMBLY AND REASSEMBLY

M1261003703002

⚠ CAUTION
The outboard joint assembly <RH> cannot be disassembled.



ACD03835AB



Inboard joint boots repair kit	Inboard joint repair kit	Outboard joint boots repair kit <LH>

ACD03829AB

Disassembly steps

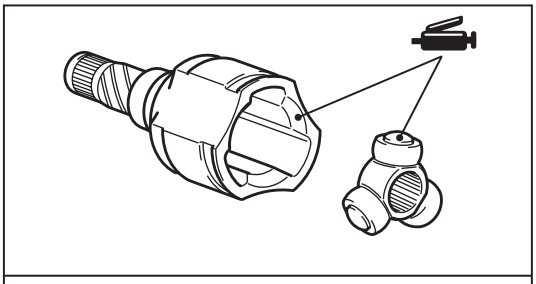
	1.	Circlip
>>C<<	2.	Inboard joint boot band (large)
>>C<<	3.	Inboard joint boot band (small)
>>B<<	4.	Inboard joint case
	5.	Snap ring
>>B<<	6.	Spider assembly
<<A>> >>A<<	7.	Inboard joint boot

Disassembly steps (Continued)

8. Outboard joint boot band (large) <LH>
9. Outboard joint boot band (small) <LH>
10. Outboard joint boot <LH>
11. Outboard joint assembly <LH>
12. Outboard joint assembly <RH>

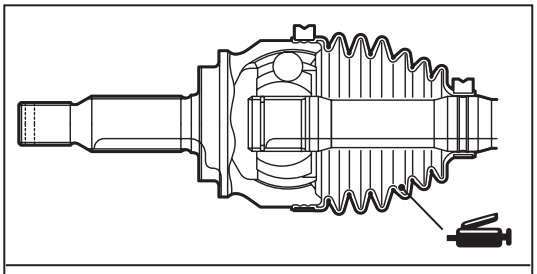
Attached sheet 28

LUBRICATION POINTS



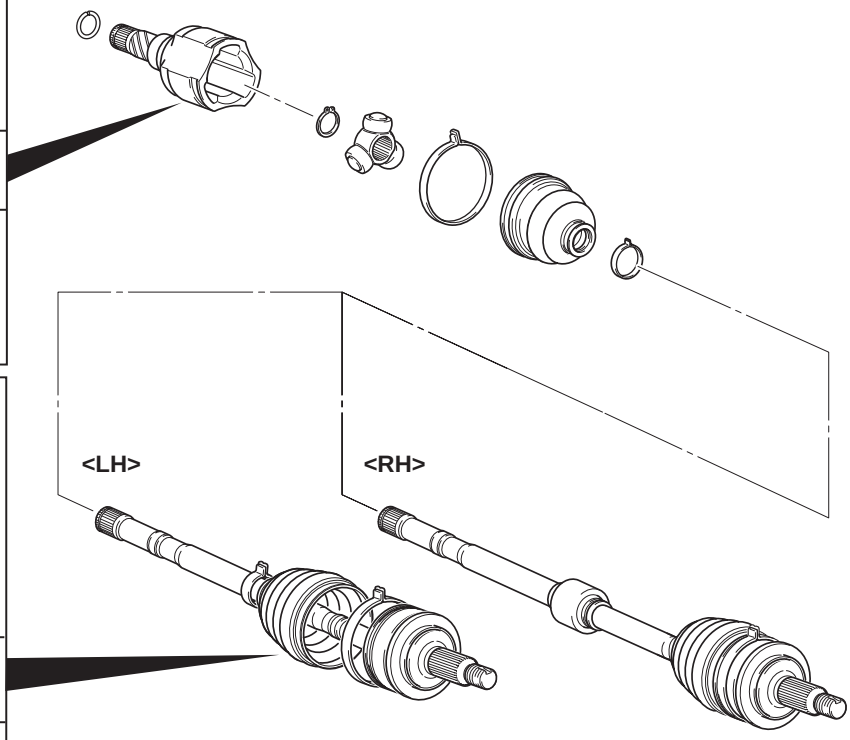
Grease: repair kit grease
Amount used: 115 ± 10 g

⚠ CAUTION
The drive shaft joint uses special grease. Do not mix old and new or different types of grease.



Grease: repair kit grease
Amount used: 95 ± 10 g

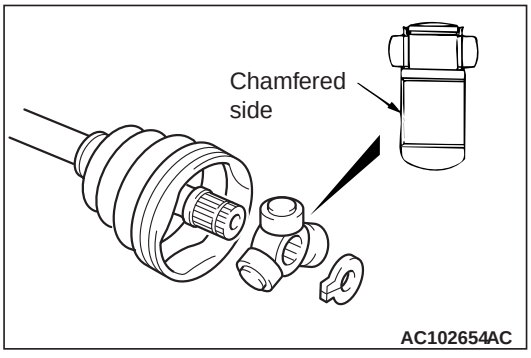
⚠ CAUTION
The drive shaft joint uses special grease. Do not mix old and new or different types of grease.



ACD03519AB

REASSEMBLY SERVICE POINTS

>>B<< SPIDER ASSEMBLY/INBOARD JOINT CASE INSTALLATION

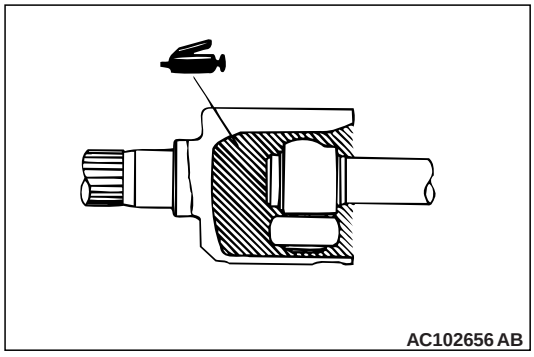


AC102654AC

1. Install the spider assembly to the shaft of the spline area from the bevelling side.

⚠ CAUTION

- **Special grease is used for the joint. Do not mix the new and previous types of grease or different types of grease.**
- **When the spider assembly is cleaned, apply the specified grease carefully more than usual.**



AC102656 AB

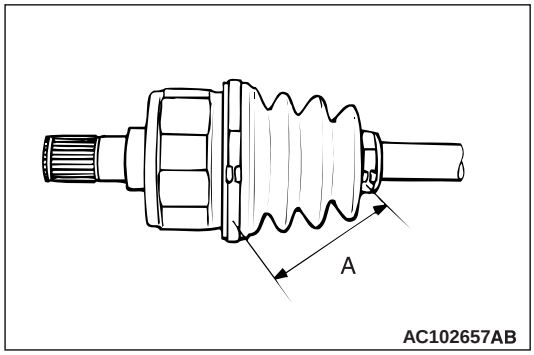
2. Fill the specified grease fully into the clearance between the spider shaft of the spider assembly and the roller.

Attached sheet 29

Specified grease: Repair kit grease
Application amount: 115 ± 10 g

NOTE: When using the repair kit grease, fill the half of the grease into the joint and the other half into the boot as a guideline, and consume the grease completely.

>>C<< INBOARD JOINT BOOT BAND (SMALL)/INBOARD JOINT BOOT BAND (LARGE) INSTALLATION



Adjust the distance between the boot bands to the standard value to make the air volume inside the inboard joint boot to the specified value, then be sure to tighten the inboard joint boot band (large) and inboard joint boot band (small).

Standard value (A): 80 ± 3 mm

GROUP 27B

REAR AXLE

CONTENTS

GENERAL INFORMATION 27B-2
SERVICE SPECIFICATION(S) 27B-2
LUBRICANT(S). 27B-2
DRIVESHAFT ASSEMBLY. 27B-3
DRIVESHAFT ASSEMBLY DISASSEMBLY AND REASSEMBLY 27B-3

Attached sheet 31

GENERAL INFORMATION

M1271000101620

The disassembly and reassembly procedure for the rear drive shaft assembly has been changed.

SERVICE SPECIFICATION

M1271000301505

Item	Standard value
Inboard joint boots dimension	70 ± 3 mm

LUBRICANT

M1271000401319

Item	Specified lubricant	Quantity
Inboard joint	Repair kit grease	55 ± 10 g

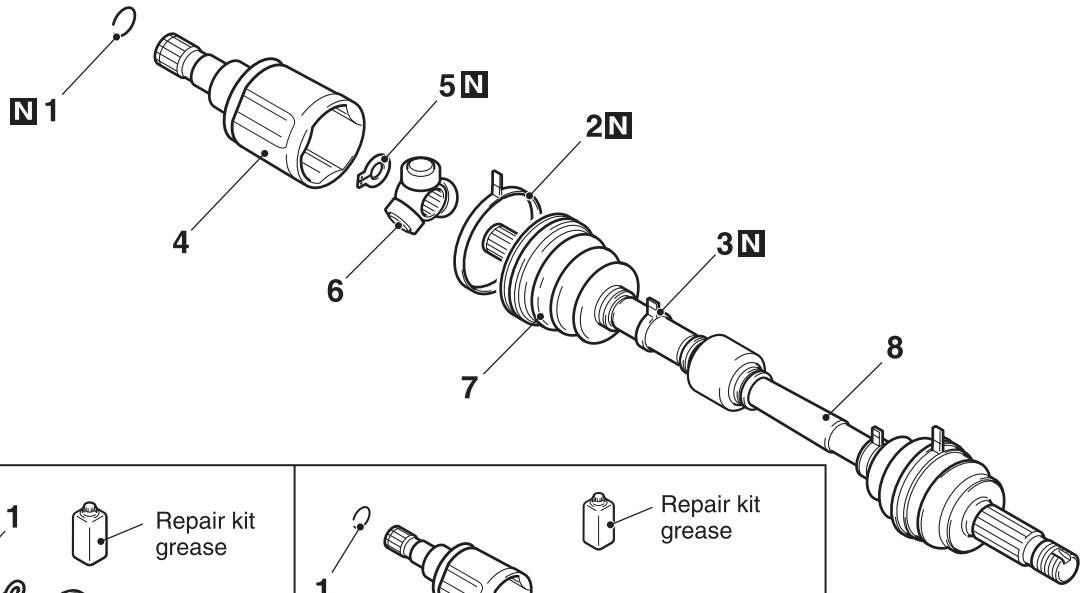
Attached sheet 32

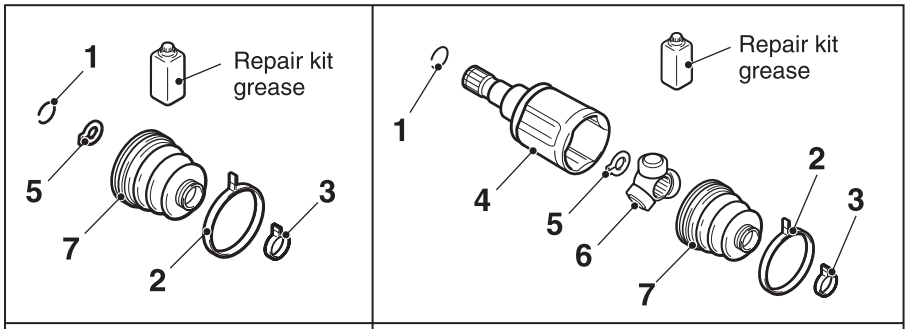
DRIVESHAFT ASSEMBLY

DISASSEMBLY AND REASSEMBLY

M1271003500624

⚠ CAUTION
The outboard joint assembly cannot be disassembled.





Inboard joint boots kit	Inboard joint boots repair kit

ACD03838AB

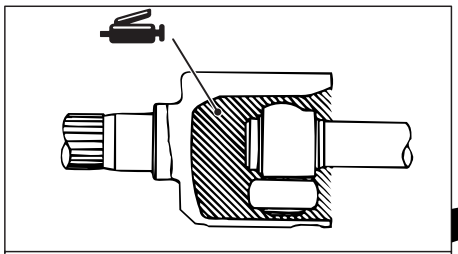
Disassembly steps

		1. Circlip
	>>B<<	2. Inborad joint boot band (large)
	>>B<<	3. Inborad joint boot band (small)
<<A>>	>>A<<	4. Inborad joint case
		5. Snap ring

Disassembly steps (Continued)

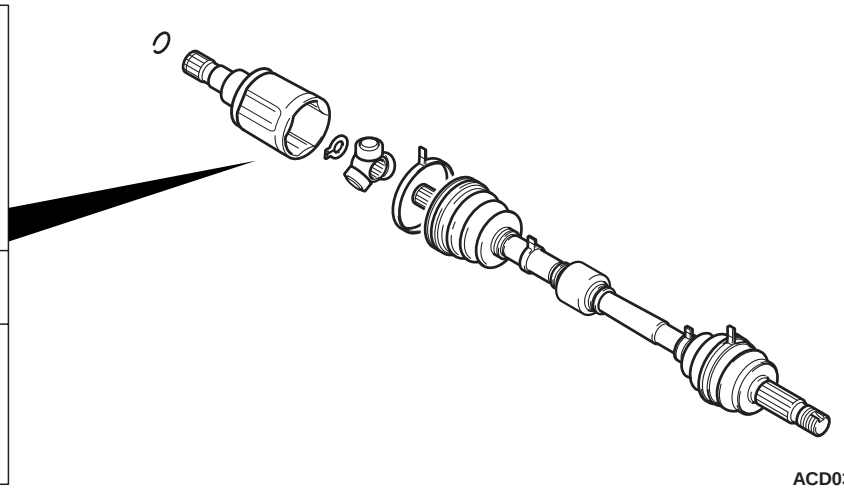
<<A>> <<B>>	>>A<<	6. Spider assembly
		7. Inborad joint boot
		8. Outborad joint assembly

LUBRICATION POINTS



Grease: repair kit grease
Amount used: 55 ± 10 g

⚠ CAUTION
The drive shaft joint uses special grease.
Do not mix old and new or different types of grease.



ACD03839AB

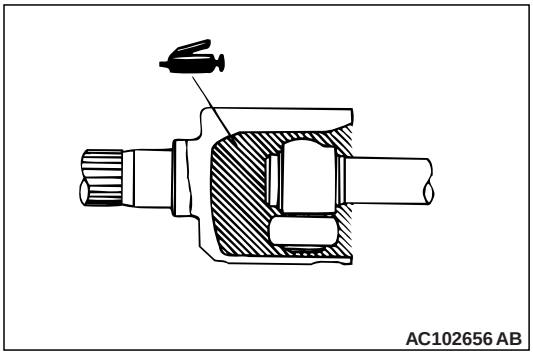
Attached sheet 33

REASSEMBLY SERVICE POINT

>>A<< SPIDER ASSEMBLY/INBOARD JOINT CASE INSTALLATION

⚠ CAUTION

- **Special grease is used for the joint. Do not mix the new and previous types of grease or different types of grease.**
- **When the spider assembly is cleaned, apply the specified grease carefully more than usual.**



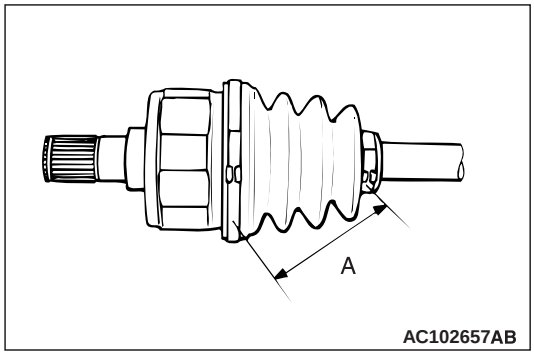
Fill the specified grease fully into the clearance between the spider shaft of the spider assembly and the roller.

Specified grease: Repair kit grease

Application amount: 55 ± 10 g

NOTE: When using the repair kit grease, fill the half of the grease into the joint and the other half into the boot as a guideline, and consume the grease completely.

>>B<< INBOARD JOINT BOOT BAND (SMALL)/INBOARD JOINT BOOT BAND (LARGE) INSTALLATION



Adjust the distance between the boot bands to the standard value to make the air volume inside the inboard joint boot to the specified value, then be sure to tighten the inboard joint boot band (large) and inboard joint boot band (small).

Standard value (A): 70 ± 3 mm