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## GROUP 26

# FRONT AXLE

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## GENERAL INFORMATION

M1261000100626

The front axle consists of front hub unit bearings, knuckles and driveshafts, and it has the following features:

- The wheel bearing is a unit ball bearing (double-row angular contact ball bearing) for reduced friction.
- The wheel bearing incorporates magnetic encoder for wheel speed sensing.
- The front wheel hub assembly combines the hub, wheel bearing and oil seal in a single unit for fewer parts, better durability, improved assembly precision, and better structural organization.
- The driveshaft incorporates BJ-TJ type constant velocity joints with high transmission efficiency for low vibration and noise.

- The dynamic damper is mounted on the left driveshaft <M/T, A/T> and on the right driveshaft <Vehicles for Hong Kong, Singapore, Australia and New Zealand> to reduce differential gear noise.
- Due to the use of the inner shaft and bracket assembly, the right and left driveshafts are approximately the same in length. This reduces noise, vibration and torque steer. <M/T, A/T for General Export, GCC and Brazil>
- For environmental protection, a lead-free grease is used on the joints.

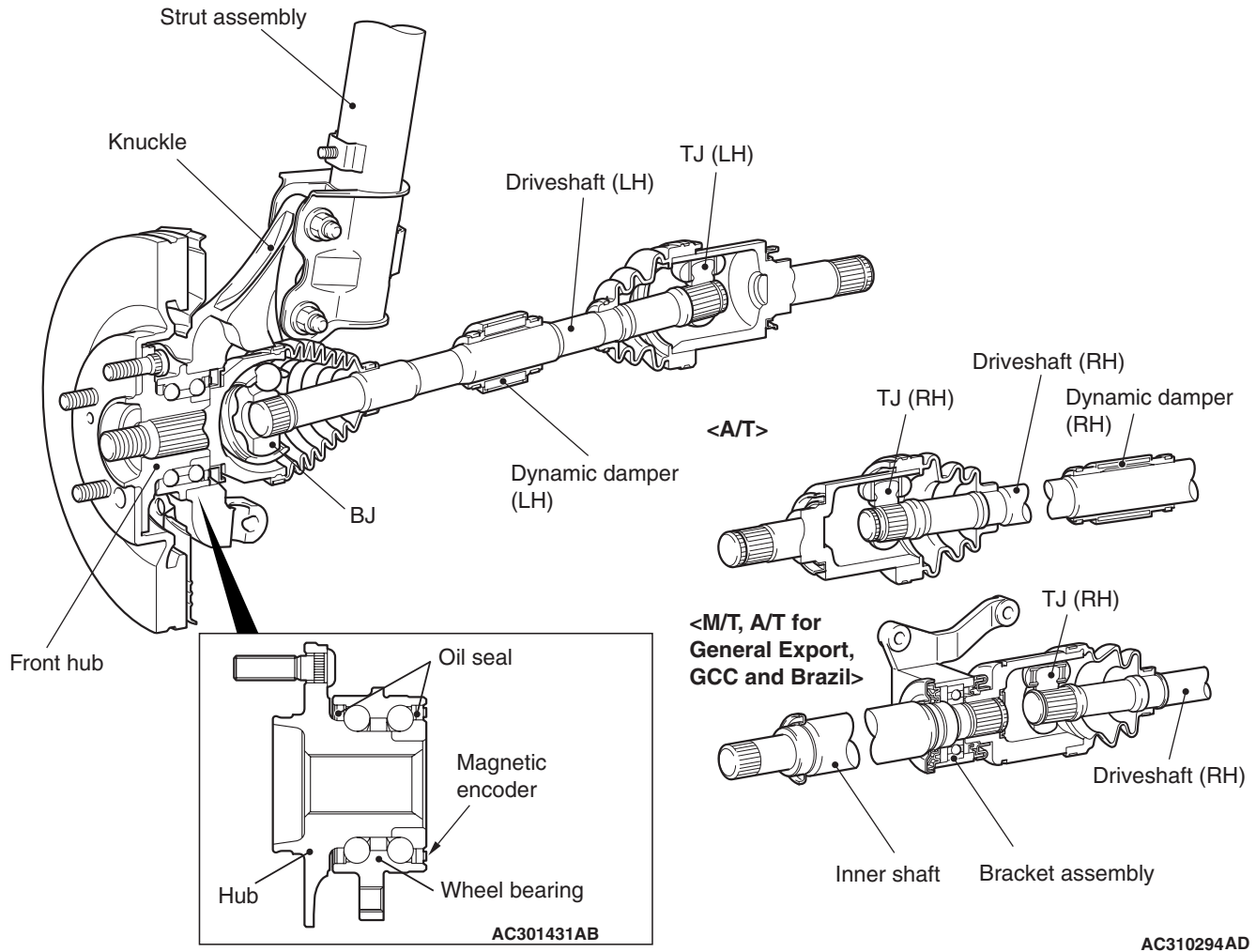
## NOTE:

- *TJ: Tripod Joint*
- *BJ: Birfield Joint*

## SPECIFICATIONS

Item		M/T		A/T
Wheel bearing	Type	Unit ball bearing (double-row angular contact ball bearing)		
Driveshaft	Joint type	Outer	BJ	
		Inner	TJ	
	Length (joint to joint) × diameter mm	LH	395.8 × 25.6	396.6 × 24
		RH	490.4 × 25.6	717.1 × 24 <Vehicles for Hong Kong, Singapore, Australia and New Zealand> 491.2 × 24 <Vehicles for General Export, GCC and Brazil>

## CONSTRUCTION DIAGRAM



## SERVICE SPECIFICATIONS

M1261000300493

Item	Standard value	Limit
Wheel bearing axial play mm	—	0.05
Hub starting torque N·m	—	2.1
Setting of TJ boot length mm	80.9 ± 3	—

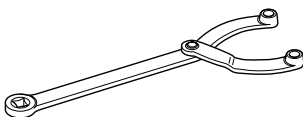
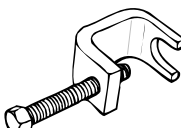
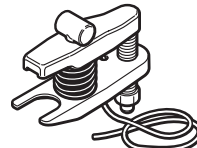
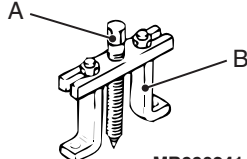

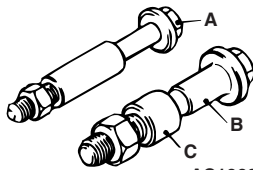
## LUBRICANTS


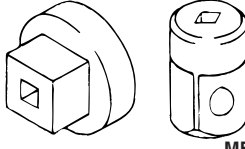

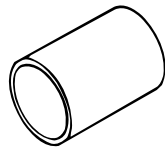
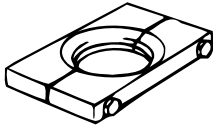

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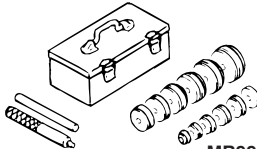
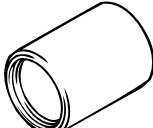
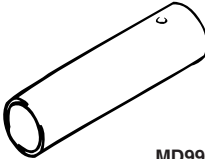
Item	Specified lubricant	Quantity
TJ boot grease	Repair kit grease	145 ± 5 g
BJ boot grease	Repair kit grease	130 ± 5 g
Dust seal inner grease	Repair kit grease	14 – 20 g
Dust seal outer grease	Repair kit grease	8 – 12 g



## SPECIAL TOOLS

M1261000600621

Tool	Number	Name	Use
 B990767	MB990767	Front hub and end yoke holder	Fixing of the hub
 MB991618	MB991618	Hub bolt remover	Removal of the hub bolt
 AC106827	MB991897 or MB992011	Ball joint remover	Knuckle and tie rod end ball joint disconnection <i>NOTE: Steering linkage puller (MB990635 or MB991113) is also used to disconnect knuckle and tie rod end ball joint.</i>
 MB990241AB	MB990241 A: MB990242 B: MB990244	Axle shaft puller A: Puller shaft B: Puller bar	Removal of the driveshaft
 MB991354	MB991354	Puller body	
 AC100320AB	A: MB991017 B: MB990998 C: MB991000	A, B: Front hub remover and installer C: Spacer	<ul style="list-style-type: none"> <li>Provisional holding of the wheel bearing</li> <li>Measurement of wheel bearing starting torque</li> <li>Measurement of wheel bearing axial play</li> </ul> <i>NOTE: MB991000, which belongs to MB990998, should be used as a spacer.</i>

Tool	Number	Name	Use
	MB990685	Torque wrench	Measurement of wheel bearing starting torque
 MB990326	MB990326	Preload socket	
 MB990810	MB990810	Side bearing puller	Removal of the centre bearing bracket
	MB991172	Inner shaft installer base	Press-fitting of the inner shaft
 MB991248	MB991248 or MD998801	Inner shaft remover	Removal of the inner shaft
	MB991460	Plug	Prevention of entry of foreign objects

Tool	Number	Name	Use
 MB990925	MB990925	Bearing and oil seal installer set	<ul style="list-style-type: none"> <li>Removal and installation of the centre bearing</li> <li>Press-fitting of the dust seal outer, inner</li> </ul>
 MB990890	MB990890	Rear suspension bushing base	Press-fitting of the dust seal outer, inner
 MD998369	MD998369	Bearing installer	Press-fitting of the seal plate

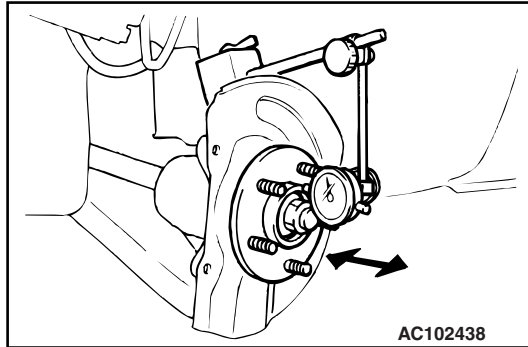
Tool	Type	Tool number	O D mm
<p>MB990925</p>  <p><b>A</b> Installer adapter</p> <p><b>C</b> Brass bar</p> <p><b>B</b> Bar (snap-in type)</p>  <p>Tool box ACX02372 AC</p>	A	MB990926	39.0
		MB990927	45.0
		MB990928	49.5
		MB990929	51.0
		MB990930	54.0
		MB990931	57.0
		MB990932	61.0
		MB990933	63.5
		MB990934	67.5
		MB990935	71.5
		MB990936	75.5
		MB990937	79.0
	B	MB990938	—
	C	MB990939	—

## ON-VEHICLE SERVICE

### WHEEL BEARING AXIAL PLAY CHECK

M1261000900257

1. Remove the caliper assembly and suspend it with a wire.
2. Remove the brake disc from the front hub.



3. Attach a dial gauge as shown in the illustration, and then measure the axial play while moving the hub in the axial direction.

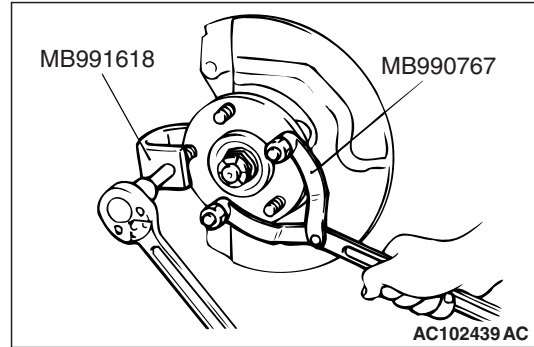
**Limit: 0.05 mm**

4. If axial play exceeds the limit, disassemble the front hub assembly and check the parts.
5. Install the brake disc, caliper assembly and tighten the caliper assembly mounting bolts to the specified torque  $100 \pm 10$  N·m.

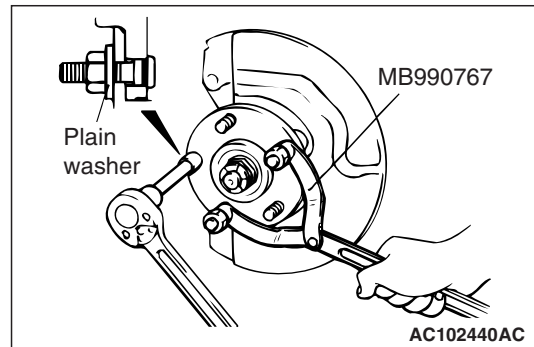
### HUB BOLT REPLACEMENT

M1261001000321

1. Remove the caliper assembly and suspend it with wire so that it does not fall.
2. Remove the brake disc.



3. Use the following special tools to remove the hub bolts.
  - Front hub and end yoke holder (MB990767)
  - Hub bolt remover (MB991618)



4. Install the plain washer to the new hub bolt, and install the bolt with a nut.
5. Install the brake disc, caliper assembly and tighten the caliper assembly mounting bolts to the specified torque  $100 \pm 10$  N·m.

## FRONT AXLE HUB ASSEMBLY

## REMOVAL AND INSTALLATION

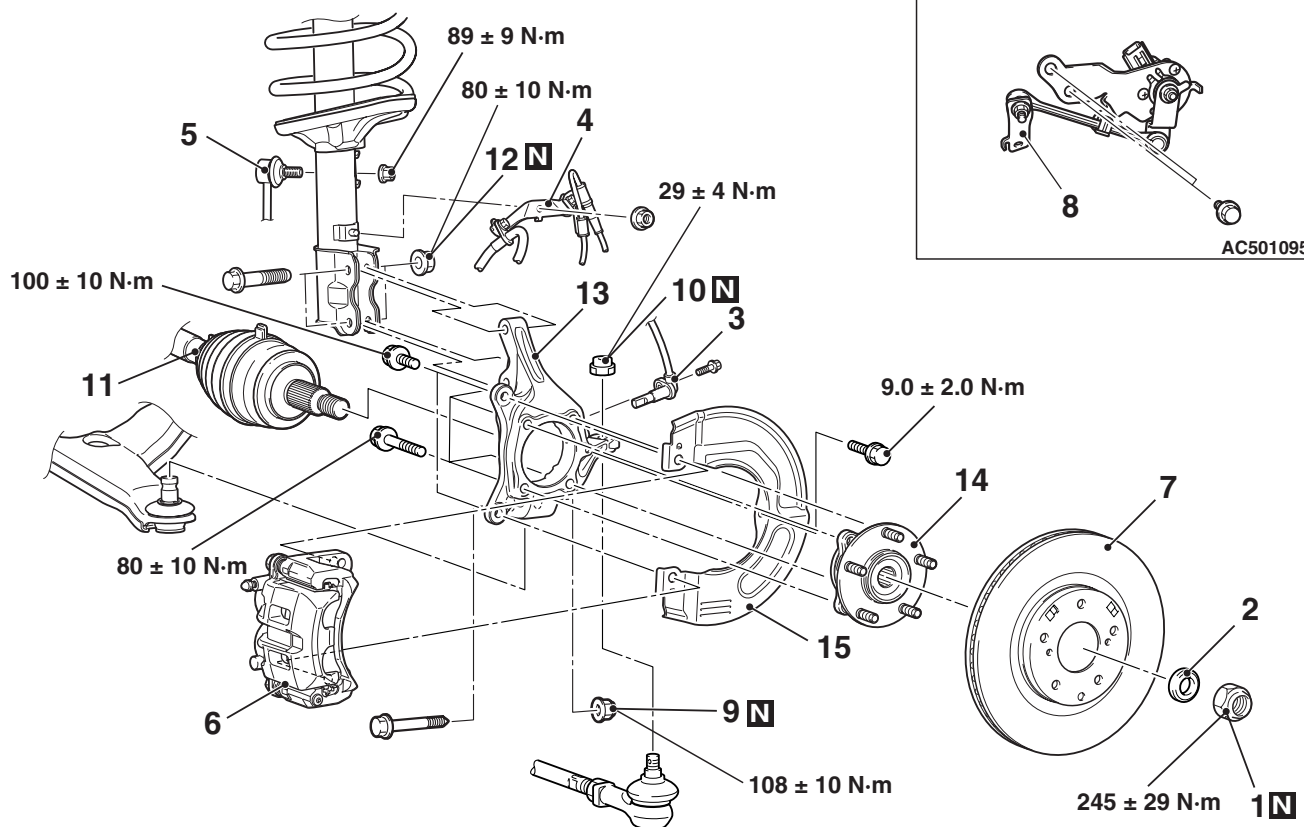
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**CAUTION**

- Do not disassemble the front wheel hub assembly.
- The magnetic encoder collects any metallic particle easily, because it is magnetized. Make sure that the magnetic encoder should not collect any metallic particle. Check that there is not any trouble prior to reassembling it.
- When the front wheel hub assembly is removed and installed, make sure that the magnetic encoder does not contact with surrounding parts to avoid damage.

**Post-installation Operation**

- Check the dust cover for cracks or damage by pushing it with your finger.



AC311040 AD

**Removal steps**

- <<A>> >>A<< 1. Driveshaft nut  
>>A<< 2. Washer  
3. Front wheel speed sensor  
4. Brake hose bracket  
5. Stabilizer link connection  
<<B>> 6. Caliper assembly  
<<C>> 7. Brake disc  
8. Front height sensor <Vehicles with headlight auto leveling system>

&lt;&lt;D&gt;&gt;

&lt;&lt;E&gt;&gt;

**Removal steps (Continued)**

9. Self-locking nut (lower arm ball joint connection)  
10. Self-locking nut (tie rod end connection)  
11. Driveshaft  
12. Nut (hub and knuckle to strut connection)  
13. Knuckle  
14. Front wheel hub assembly  
15. Dust cover

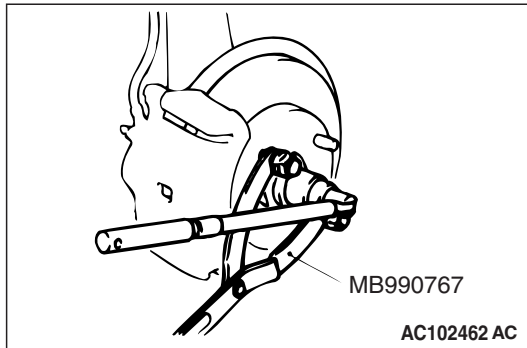


## REMOVAL SERVICE POINTS

### <<A>> DRIVESHAFT NUT REMOVAL

#### ⚠ CAUTION

Do not apply pressure to wheel bearing by the vehicle weight to avoid possible damage when driveshaft nut is loosened.

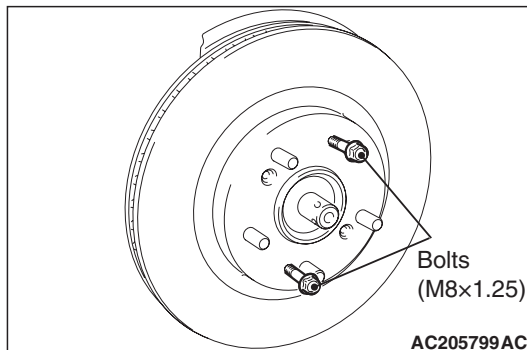


Use special tool front hub and end yoke holder (MB990767) to fix the hub and remove the driveshaft nut.

### <<B>> CALIPER ASSEMBLY REMOVAL

Secure the removed caliper assembly with wire, etc.

### <<C>> BRAKE DISC REMOVAL

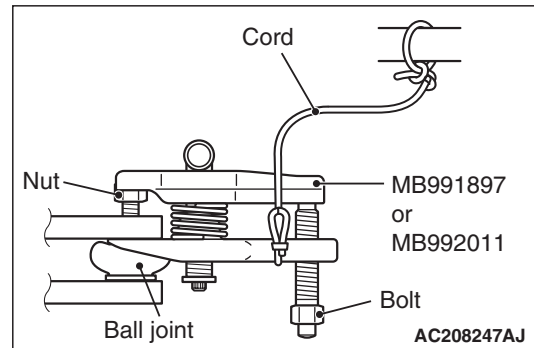


If the brake disc is seized, install a M8 x 1.25 bolts as shown, and remove the disc by tightening the bolts evenly and gradually.

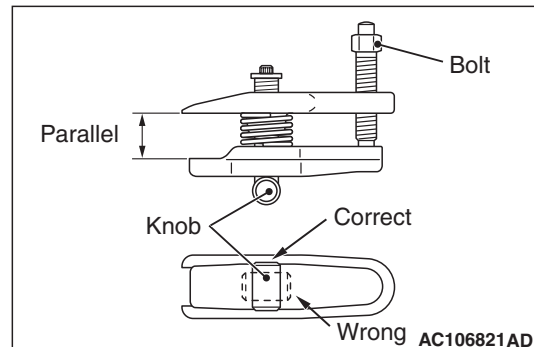
### <<D>> SELF-LOCKING NUT (TIE ROD END CONNECTION) REMOVAL

#### ⚠ CAUTION

- Do not remove the nut from ball joint. Loosen it and use the special tool to avoid possible damage to ball joint threads.
- Hang the special tool with cord to prevent it from falling.



1. Install special tool ball joint remover (MB991897 or MB992011) as shown in the figure.

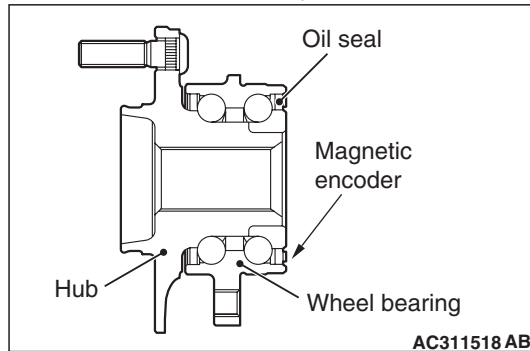


2. Turn the bolt and knob as necessary to make the jaws of special tool parallel, tighten the bolt by hand and confirm that the jaws are still parallel.

**NOTE:** When adjusting the jaws in parallel, make sure the knob is in the position shown in the figure.

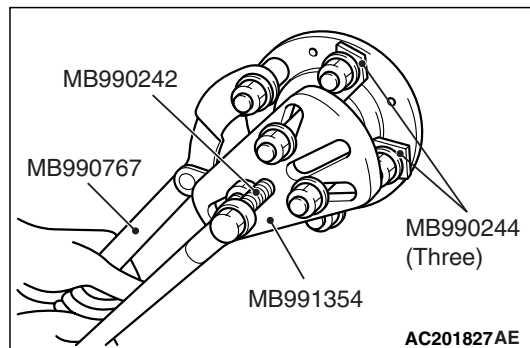
3. Tighten the bolt with a wrench to disconnect the tie rod end.

## &lt;&lt;E&gt;&gt; DRIVESHAFT REMOVAL

**⚠ CAUTION**

The magnetic encoder collects any metallic particle easily, because it is magnetized. Make sure that the magnetic encoder does not collect any metallic particle.

- When the driveshaft is removed, make sure that it does not contact with the magnetic encoder to avoid damage.



Use the following special tools to push out the driveshaft from the hub.

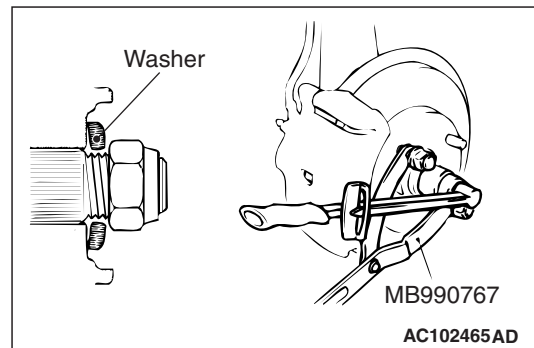
- Puller shaft (MB990242)
- Puller bar (MB990244)
- Puller body (MB991354)
- Front hub and end yoke holder (MB990767)

## INSTALLATION SERVICE POINT

## &gt;&gt;A&lt;&lt; WASHER/ DRIVESHAFT NUT INSTALLATION

**⚠ CAUTION**

- The magnetic encoder collects any metallic particle easily, because it is magnetized. Make sure that the magnetic encoder should not collect any metallic particle. Check that there is not any trouble prior to reassembling it.
- When the driveshaft is installed, make sure that it does not contact with the magnetic encoder to avoid damage.
- Before securely tightening the driveshaft nuts, make sure there is no load on the wheel bearings. Otherwise the wheel bearings will be damaged.



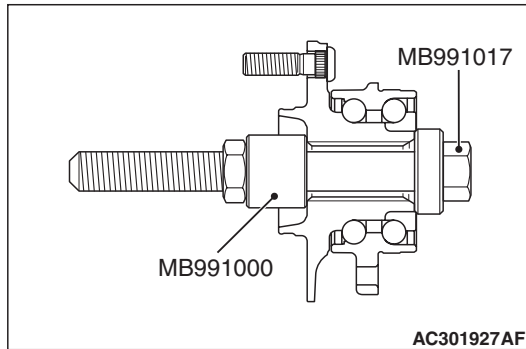
1. Be sure to install the driveshaft washer in the specified direction.
2. Using special tool front hub and end yoke holder (MB990767), tighten the driveshaft nut to the specified torque.

**Tightening torque:  $245 \pm 29$  N·m**

## INSPECTION

### WHEEL BEARING ROTATION STARTING TORQUE AND AXIAL PLAY CHECK

M1261001800275

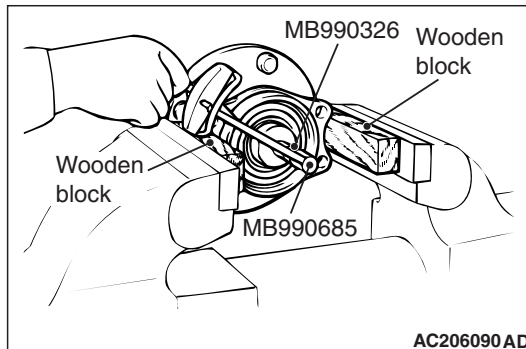


1. Install the following special tools and tighten them to the specified torque.

- Front hub remover and installer (MB991017)
- Spacer (MB991000)

**Tightening torque:  $245 \pm 29$  N·m**

2. Hold front wheel hub assembly in a vice, using wooden blocks.
3. Rotate the hub in order to seat the bearing.

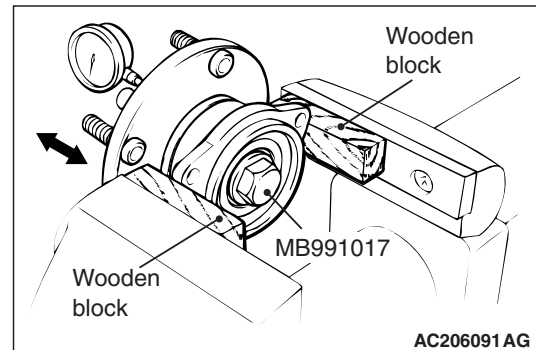


4. Measure the wheel bearing rotation starting torque by using the following special tools.

- Preload socket (MB990326)
- Torque wrench (MB990685)

**Limit: 2.1 N·m**

5. If the rotation starting torque is not within the limit when the nut is tightened to  $245 \pm 29$  N·m, replace the front wheel hub assembly. If there is any signs of binding or tight spots when the wheel bearing turns, replace it too.



6. Use the special tool to measure to determine whether the wheel bearing axial play is within the specified limit or not.

**Limit: 0.05 mm**

7. If the play exceeds the limit when the nut is tightened to  $245 \pm 29$  N·m, replace the front wheel hub assembly.

DRIVESHAFT ASSEMBLY

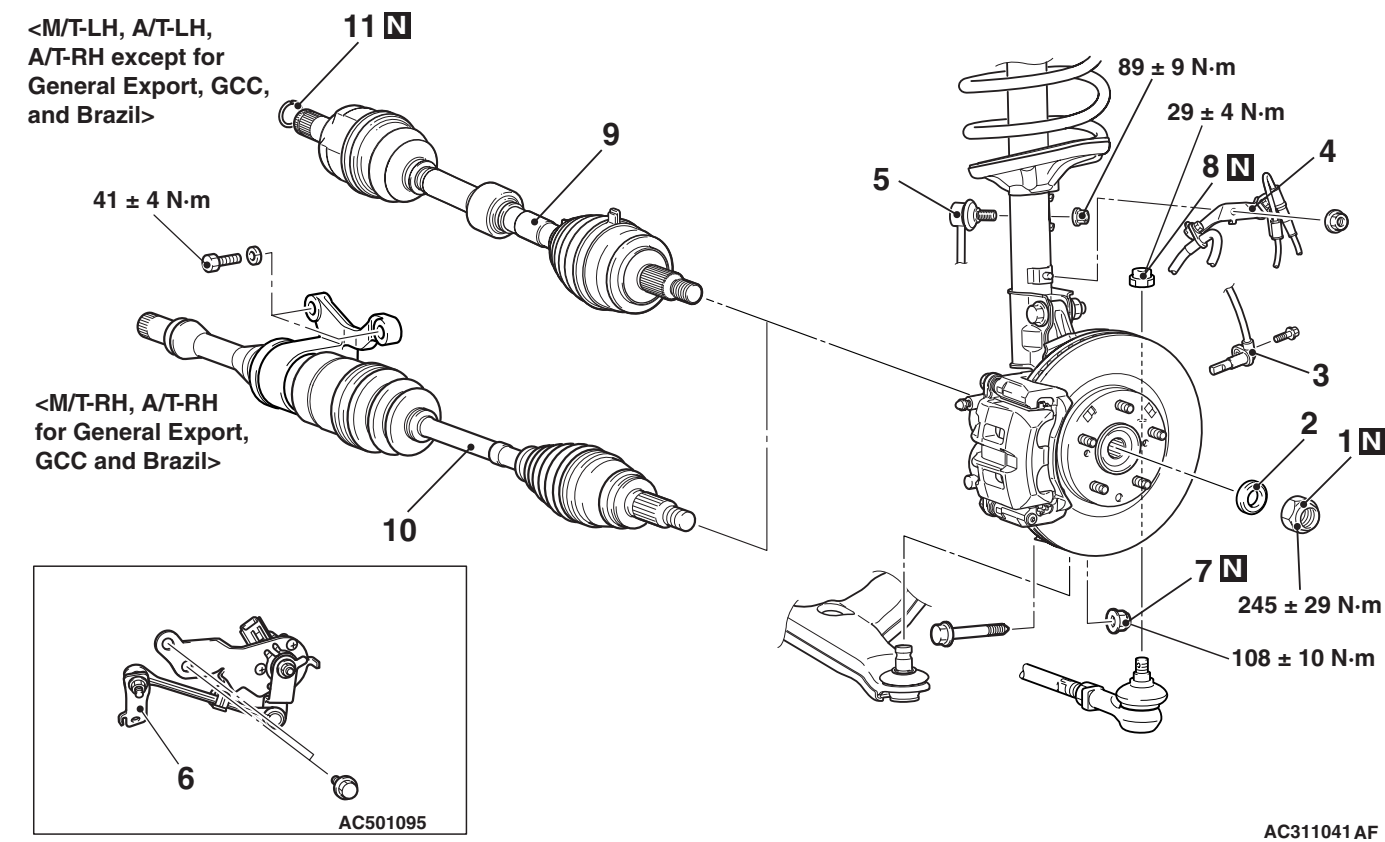
REMOVAL AND INSTALLATION

M1261003500816

CAUTION

- The magnetic encoder collects any metallic particle easily, because it is magnetized. Make sure that the magnetic encoder should not collect any metallic particle. Check that there is not any trouble prior to reassembling it.
- When the driveshaft assembly is removed and installed, make sure that the magnetic encoder does not contact with surrounding parts to avoid damage.
- When the driveshaft assembly is removed and installed, front wheel speed sensor must be removed to avoid damage.

<b>Pre-installation Operation</b> <ul style="list-style-type: none"><li>• Transmission Fluid Draining (Refer to GROUP 22A and 23A, On-vehicle Service – Transmission Oil Replacement <a href="#">P.22A-7</a>, <a href="#">P.23A-144</a>).</li></ul>	<b>Post-installation Operation</b> <ul style="list-style-type: none"><li>• Check the Ball Joint Dust Cover for cracks or damage by pushing it with your finger.</li><li>• Transmission Fluid Filling (Refer to GROUP 22A and 23A, On-vehicle Service – Transmission Oil Replacement <a href="#">P.22A-7</a>, <a href="#">P.23A-144</a>).</li></ul>
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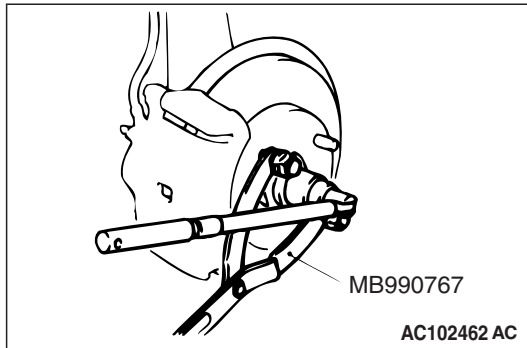
- |   |   |
|---|---|
| <b>Removal steps</b>  | <b>Removal steps (Continued)</b>                      |
| <<A>> >>B<< 1. Driveshaft nut   | 7. Self-locking nut (lower arm ball joint connection) |
| >>B<< 2. Washer   | 8. Self-locking nut (tie rod end connection)          |
| 3. Front wheel speed sensor   | <<B>>   |
| 4. Brake hose bracket   | <<C>> >>A<< 9. Driveshaft                             |
| 5. Stabilizer link connection   | <<C>> >>A<< 10. Driveshaft and inner shaft assembly   |
| 6. Front height sensor <Vehicles with headlight auto leveling system> | 11. Circlip   |

## REMOVAL SERVICE POINTS

### <<A>> DRIVESHAFT NUT REMOVAL

#### ⚠ CAUTION

Do not apply pressure to the wheel bearing by the vehicle weight to avoid possible damage when the driveshaft nut is loosened.

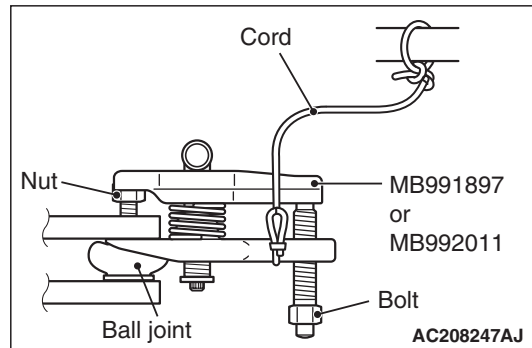


Use special tool front hub and end yoke holder (MB990767) to fix the hub and remove the driveshaft nut.

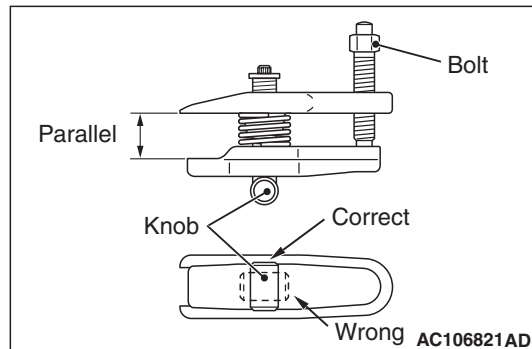
### <<B>> SELF-LOCKING NUT (TIE ROD END CONNECTION) REMOVAL

#### ⚠ CAUTION

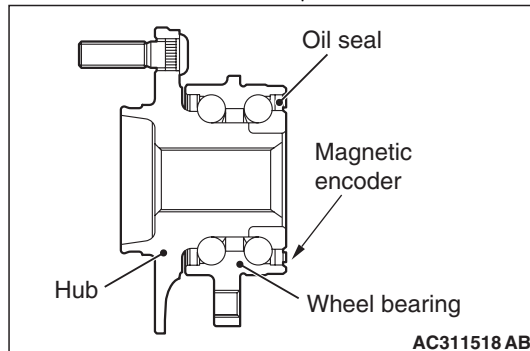
- Do not remove the nut from ball joint. Loosen it and use special tool to avoid possible damage to ball joint threads.
- Hang special tool with cord to prevent it from falling.



1. Install special tool ball joint remover (MB991897 or MB992011) as shown in the figure.

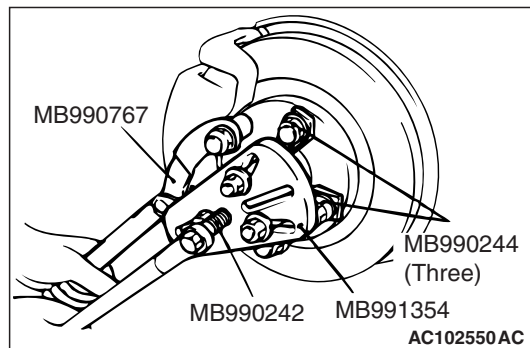


2. Turn the bolt and knob as necessary to make the jaws of special tool parallel, tighten the bolt by hand and confirm that the jaws are still parallel.  
*NOTE: When adjusting the jaws in parallel, make sure the knob is in the position shown in the figure.*
3. Tighten the bolt with a wrench to disconnect the tie rod end.

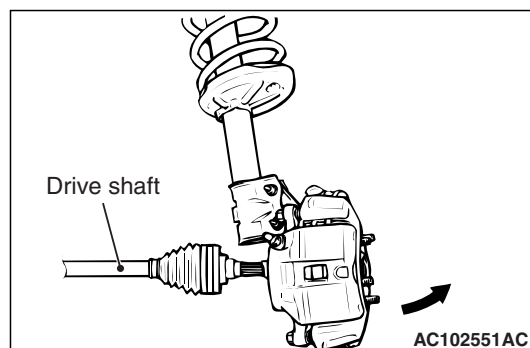
<<C>> DRIVESHAFT/DRIVESHAFT AND  
INNER SHAFT ASSEMBLY REMOVAL**⚠ CAUTION**

The magnetic encoder collects any metallic particle easily, because it is magnetized. Make sure that the magnetic encoder does not collect any metallic particle.

- When the driveshaft or the driveshaft and inner shaft assembly is removed, make sure that it does not contact with the magnetic encoder and front wheel speed sensor to avoid damage.



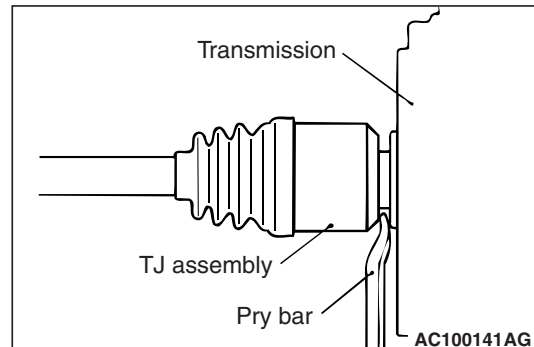
1. Use the following special tools to push out the driveshaft or the driveshaft and inner shaft assembly from the hub.
  - Puller shaft (MB990242)
  - Puller bar (MB990244)
  - Puller body (MB991354)
  - Front hub and end yoke holder (MB990767)



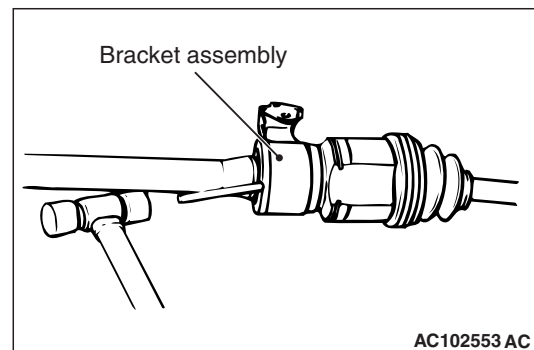
2. Remove the driveshaft from the hub by pulling the bottom of the brake disc towards you.

**⚠ CAUTION**

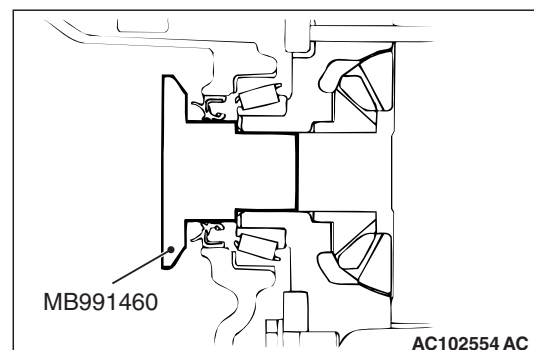
- Do not pull on the driveshaft; doing so will damage the TJ; be sure to use the pry bar.
- When pulling the driveshaft out from the transmission, be careful that the spline part of the driveshaft does not damage the oil seal.



3. Insert a pry bar between the transmission case and the driveshaft, and then pry and remove the driveshaft from the transmission.

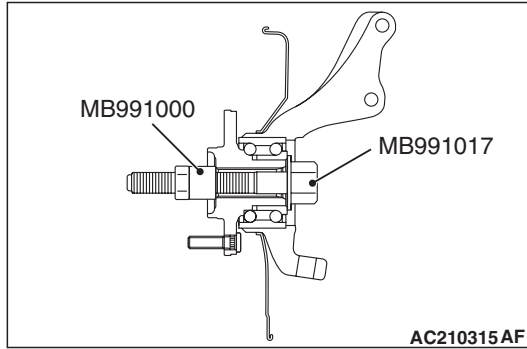


4. If the inner shaft is hard to remove from the transmission, strike the bracket assembly lightly with a plastic hammer and remove the inner shaft.



5. Use special tool plug (MB991460) to prevent the entry of foreign material into the transmission case.

**⚠ CAUTION**



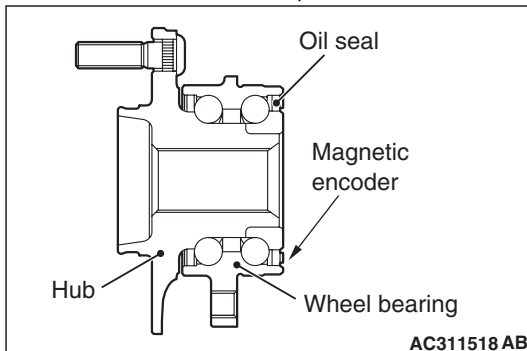
Do not apply pressure to the wheel bearing by the vehicle weight to avoid possible damage when the driveshaft is removed. If, however, vehicle weight must be applied to the bearing in moving the vehicle, temporarily secure the wheel bearing by using the following special tools.

- Spacer (MB991000)
- Front hub remover and installer (MB991017)

**INSTALLATION SERVICE POINTS**

**>>A<< DRIVESHAFT AND INNER SHAFT ASSEMBLY/DRIVESHAFT INSTALLATION**

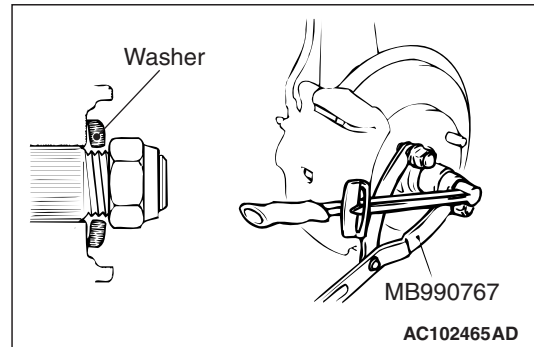
**⚠ CAUTION**



The magnetic encoder collects any metallic particle easily, because it is magnetized. Make sure that the magnetic encoder should not collect any metallic particle. Check that there is not any trouble prior to reassembling it.

- When the driveshaft is installed, make sure that it does not contact with the magnetic encoder and front wheel speed sensor to avoid damage.
- When installing the driveshaft or the driveshaft and inner shaft assembly, be careful that the driveshaft or the driveshaft and inner shaft assembly do not damage the oil seal.

**>>B<< WASHER/DRIVESHAFT NUT INSTALLATION**



1. Be sure to install the driveshaft washer in the specified direction.

**⚠ CAUTION**

Before securely tightening the driveshaft nuts, make sure there is no load on the wheel bearings. Otherwise the wheel bearing will be damaged.

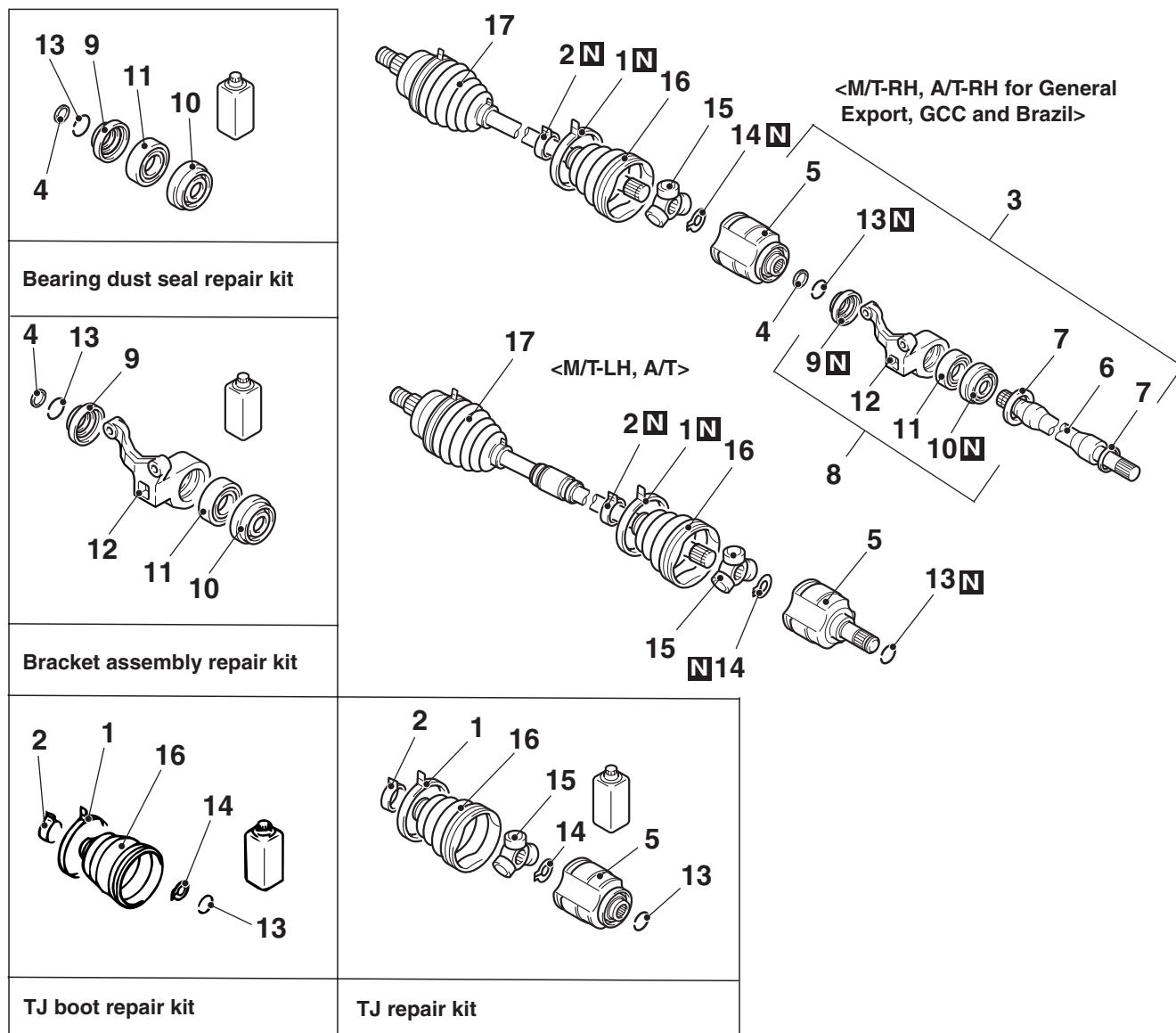
2. Using special tool front hub and end yoke holder (MB990767), tighten the driveshaft nut to the specified torque.

**Tightening torque:  $245 \pm 29$  N·m**



## DISASSEMBLY AND REASSEMBLY

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## Disassembly steps

- >>G<< 1. TJ boot band (large)  
 >>G<< 2. TJ boot band (small)  
 >>F<< 3. TJ case and inner shaft assembly  
 <M/T-RH, A/T-RH for General Export, GCC and Brazil>  
 <<A>> >>F<< 4. Seal plate  
 <<B>> 5. TJ case  
 <<C>> >>E<< 6. Inner shaft <M/T-RH, A/T-RH for General Export, GCC and Brazil>  
 7. Dust cover <M/T-RH, A/T-RH for General Export, GCC and Brazil>  
 8. Bracket assembly <M/T-RH, A/T-RH for General Export, GCC and Brazil>  
 >>D<< 9. Dust seal outer <M/T-RH, A/T-RH for General Export, GCC and Brazil>

## Disassembly steps (Continued)

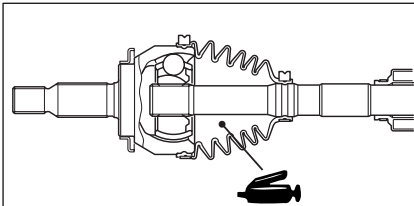
- >>D<< 10. Dust seal inner <M/T-RH, A/T-RH for General Export, GCC and Brazil>  
 <<D>> >>C<< 11. Centre bearing <M/T-RH, A/T-RH for General Export, GCC and Brazil>  
 12. Centre bearing bracket <M/T-RH, A/T-RH for General Export, GCC and Brazil>  
 13. Circlip  
 14. Snap ring  
 <<B>> >>B<< 15. Spider assembly  
 <<E>> >>A<< 16. TJ boot  
 17. BJ assembly

## NOTE:

- TJ: Tripod Joint
- BJ: Birfield Joint



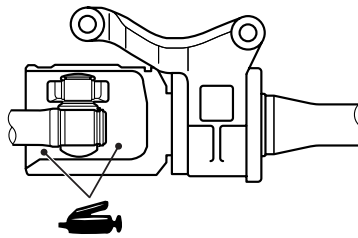
## LUBRICATION POINTS



Grease: repair kit grease  
Amount used: 130 ± 5 g

**CAUTION**

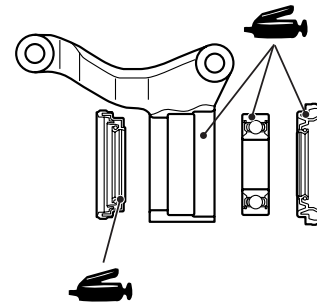
The driveshaft joint uses special grease. Do not mix old and new or different types of grease.



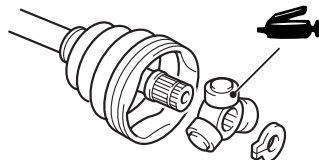
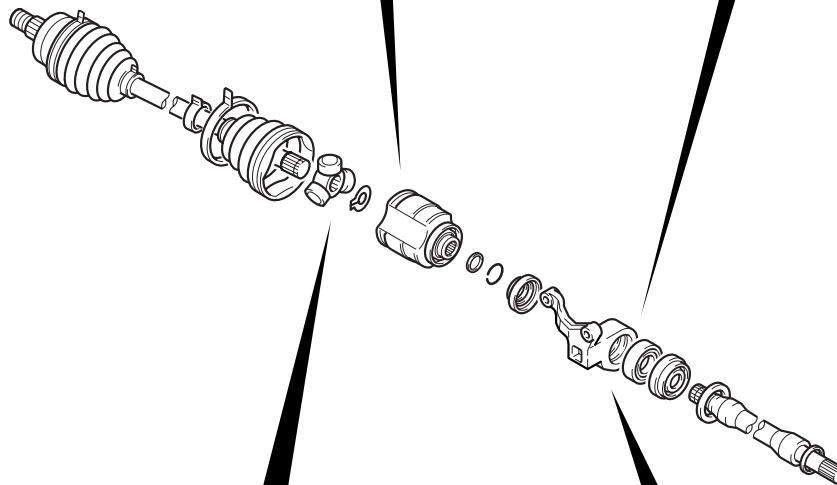
Grease: repair kit grease  
Amount used: 145 ± 5 g

**CAUTION**

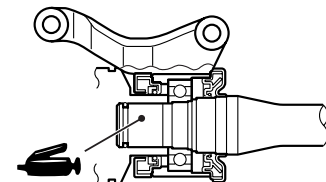
The driveshaft joint uses special grease. Do not mix old and new or different types of grease.



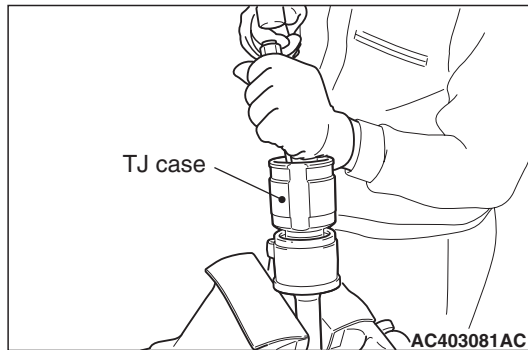
Grease: repair kit grease  
Amount used:  
Dust seal inner: 14 - 20 g  
Dust seal outer: 8 - 12 g



Grease: repair kit grease



Grease: repair kit grease

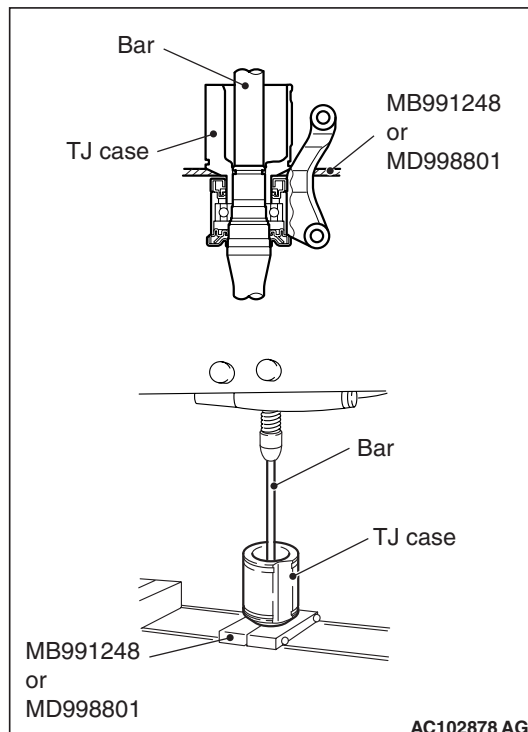
**DISASSEMBLY SERVICE POINTS****<<A>> SEAL PLATE REMOVAL**

Use a slotted screwdriver to make a hole in the seal plate inside the TJ case, and remove it.

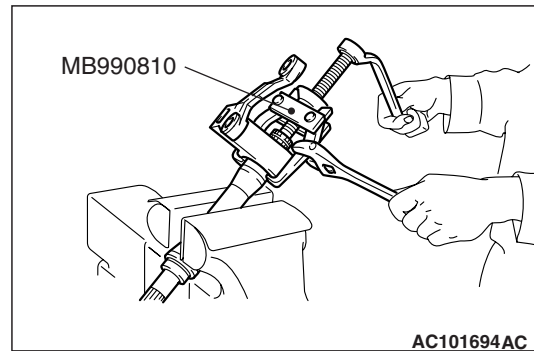
**<<B>> TJ CASE/SPIDER ASSEMBLY REMOVAL****⚠ CAUTION**

**Do not disassemble the spider assembly.**

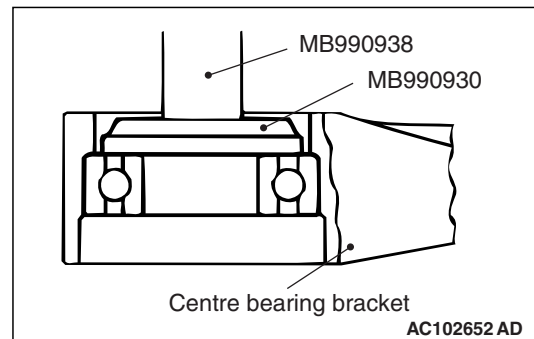
1. Wipe off grease from the spider assembly and the inside of the TJ case.
2. Always clean the spider assembly when the grease contains water or foreign material.

**<<C>> INNER SHAFT <M/T-RH, A/T-RH FOR GENERAL EXPORT, GCC AND BRAZIL> REMOVAL**

1. Use special tool inner shaft remover (MB991248 or MD998801) to remove the inner shaft assembly from the TJ case.



2. Use special tool side bearing puller (MB990810) to remove the centre bearing bracket from the inner shaft.

**<<D>> CENTRE BEARING <M/T-RH, A/T-RH FOR GENERAL EXPORT, GCC AND BRAZIL> REMOVAL**

Use the following special tools to remove the centre bearing from the centre bearing bracket.

- Bar (MB990938)
- Installer adapter (MB990930)

**<<E>> TJ BOOT REMOVAL**

1. Wipe off grease from the shaft spline.
2. When reusing the TJ boot, wrap plastic tape around the shaft spline to avoid damaging the boot.

## REASSEMBLY SERVICE POINTS

### >>A<< TJ BOOT INSTALLATION

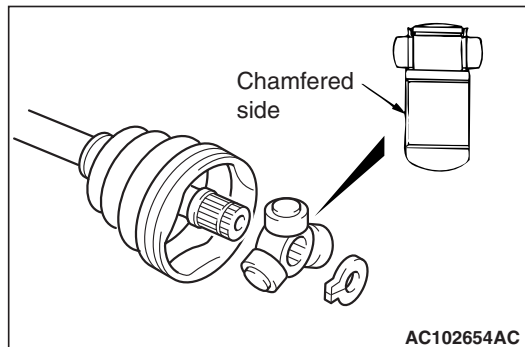
Wrap plastic tape around the shaft spline, and then install the TJ boot band (small) and TJ boot.

### >>B<< SPIDER ASSEMBLY INSTALLATION

#### **CAUTION**

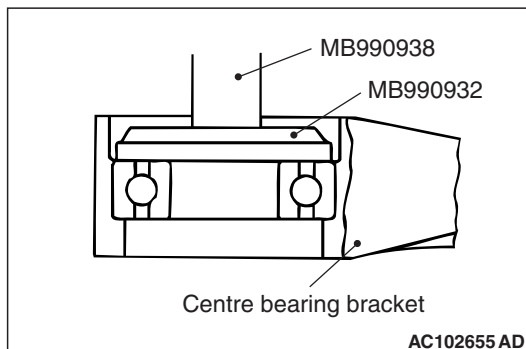
- The driveshaft joint use special grease. Do not mix old and new or different types of grease.
  - If the spider assembly has been cleaned, take special care to apply the specified grease.
1. Apply the specified grease furnished in the repair kit to the spider assembly between the spider axle and the roller.

**Specified grease: Repair kit grease**



2. Install the spider assembly to the shaft from the direction of the spline chamfered side.

### >>C<< CENTRE BEARING <M/T-RH, A/T-RH FOR GENERAL EXPORT, GCC AND BRAZIL> INSTALLATION



Use the following special tools to press-fit the centre bearing into the centre bearing bracket.

- Bar (MB990938)
- Installer adapter (MB990932)

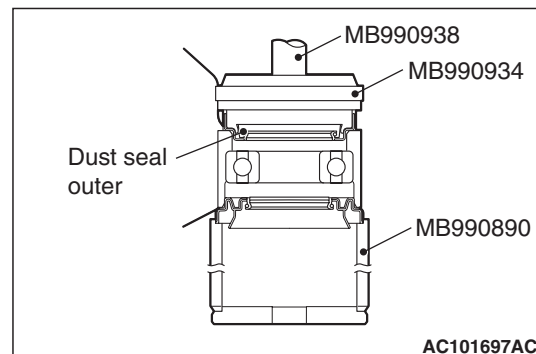
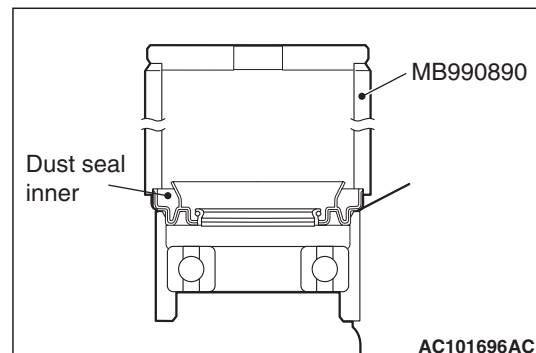
### >>D<< DUST SEAL INNER <M/T-RH, A/T-RH FOR GENERAL EXPORT, GCC AND BRAZIL> /DUST SEAL OUTER <M/T-RH, A/T-RH FOR GENERAL EXPORT, GCC AND BRAZIL> INSTALLATION

#### **CAUTION**

When applying grease, make sure that it does not adhere to anything outside the lip.

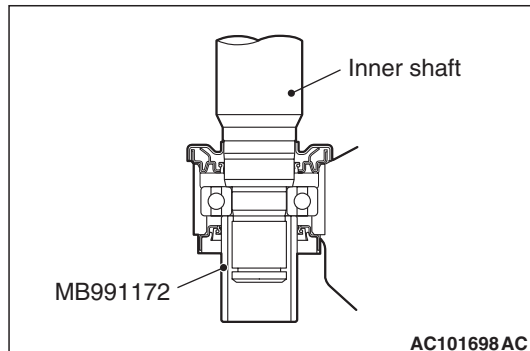
1. Apply the specified grease to the rear surface of all dust seals.

**Specified grease: Repair kit grease**  
**Amount used (Dust seal inner): 14 –20 g**  
**Amount used (Dust seal outer): 8 –12 g**



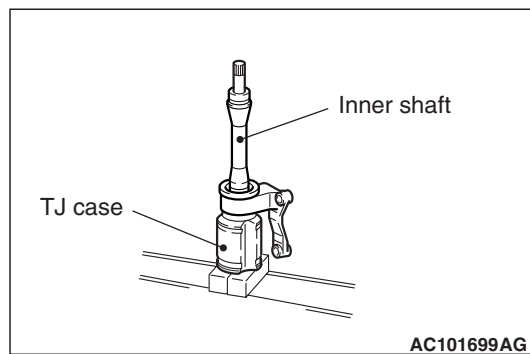
2. Use the following special tools to press the dust seals into the centre bearing bracket until they are flush with each other.
  - Rear suspension bushing base (MB990890)
  - Bar (MB990938)
  - Installer adapter (MB990934)
3. Apply repair kit grease to the lip of each dust seal.

## >>E<< INNER SHAFT <M/T-RH, A/T-RH FOR GENERAL EXPORT, GCC AND BRAZIL> INSTALLATION



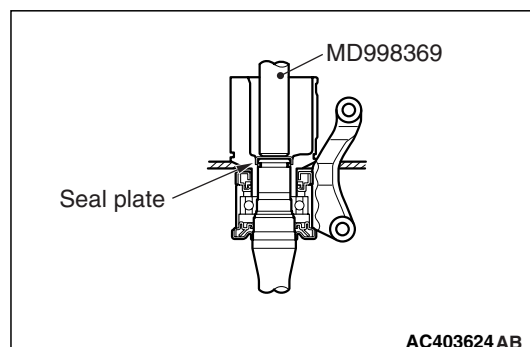
Use special tool inner shaft installer base (MB991172) to hold the centre bearing inner race, and then press-in the inner shaft.

## >>F<< SEAL PLATE/TJ CASE AND INNER SHAFT ASSEMBLY <M/T-RH, A/T-RH FOR GENERAL EXPORT, GCC AND BRAZIL> INSTALLATION



1. Apply repair kit grease to the inner shaft spline, then press fit it into the TJ case.

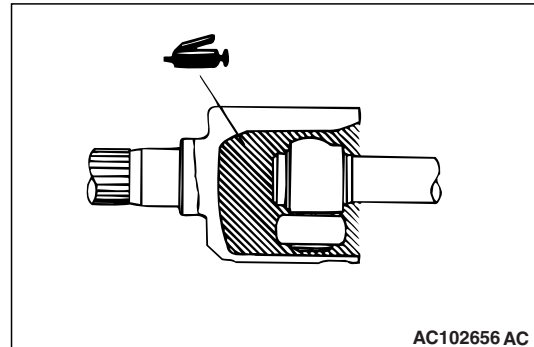
**NOTE:** When press-fitting the inner shaft into the TJ case, apply a thin coat of repair kit grease to the dust seal outer lip part and the outside edge of the TJ axial part.



2. Use special tool bearing installer (MD998369) to press in the seal plate.

### ⚠ CAUTION

The driveshaft joint use special grease. Do not mix old and new or different types of grease.



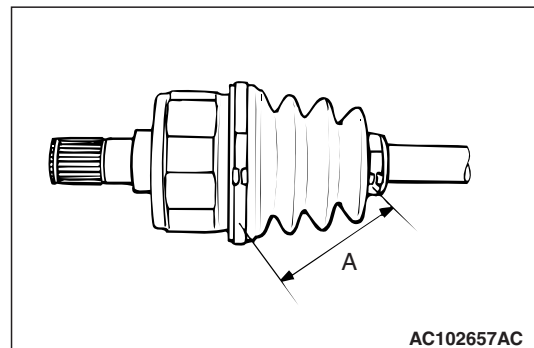
After applying the specified grease to the TJ case, insert the driveshaft and apply grease one more time.

**Specified grease: Repair kit grease**

**Amount to use :  $145 \pm 5$  g**

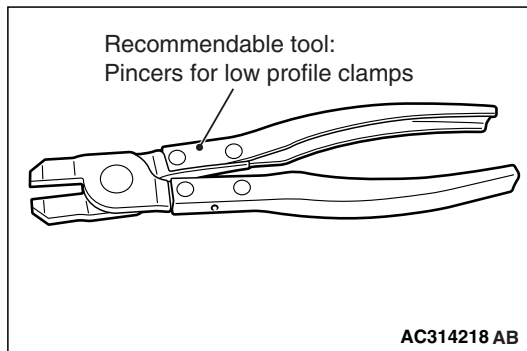
**NOTE:** The grease in the repair kit should be divided in half for use, respectively, at the joint and inside the boot.

## >>G<< TJ BOOT BAND (SMALL)/TJ BOOT BAND (LARGE) INSTALLATION

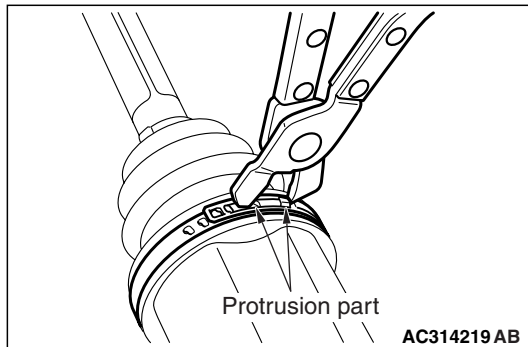


1. Set the TJ boot bands at the specified distance in order to adjust the amount of air inside the TJ boot, and then tighten the TJ boot band (small) securely.

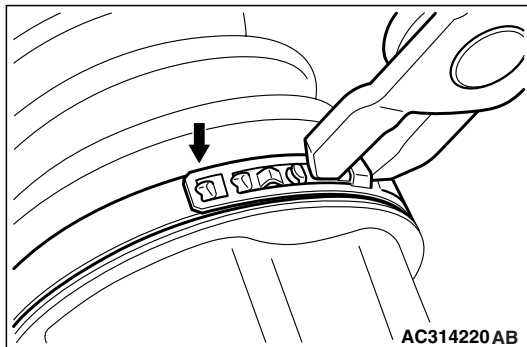
**Standard value (A):  $80.9 \pm 3$  mm**



2. Use the pincers for low profile clamps <recommendable tool: OETIKER> to install the TJ boot band (large) by following the next steps.



- (1) Use the pincers for low profile clamps to catch the protrusion part of the TJ boot band (large) and tighten it firmly.



- (2) After having tightened securely the protrusion part of the TJ boot band (large), hook the end of the TJ boot band (large) as shown in the illustration.

## INSPECTION

M1261003800204

- Check the driveshaft for damage, bending or corrosion.
- Check the inner shaft for damage, bending or corrosion.
- Check the driveshaft spline part for wear or damage.
- Check the inner shaft spline part for wear or damage.
- Check the spider assembly for roller rotation, wear or corrosion.
- Check the groove inside TJ case or PTJ case for wear or corrosion.
- Check the dynamic damper for damage or cracking.
- Check the boots for deterioration, damage or cracking.
- Check the centre bearing for seizure, discolouration or roughness of rolling surface.
- Check the dust cover for damage or deterioration.