

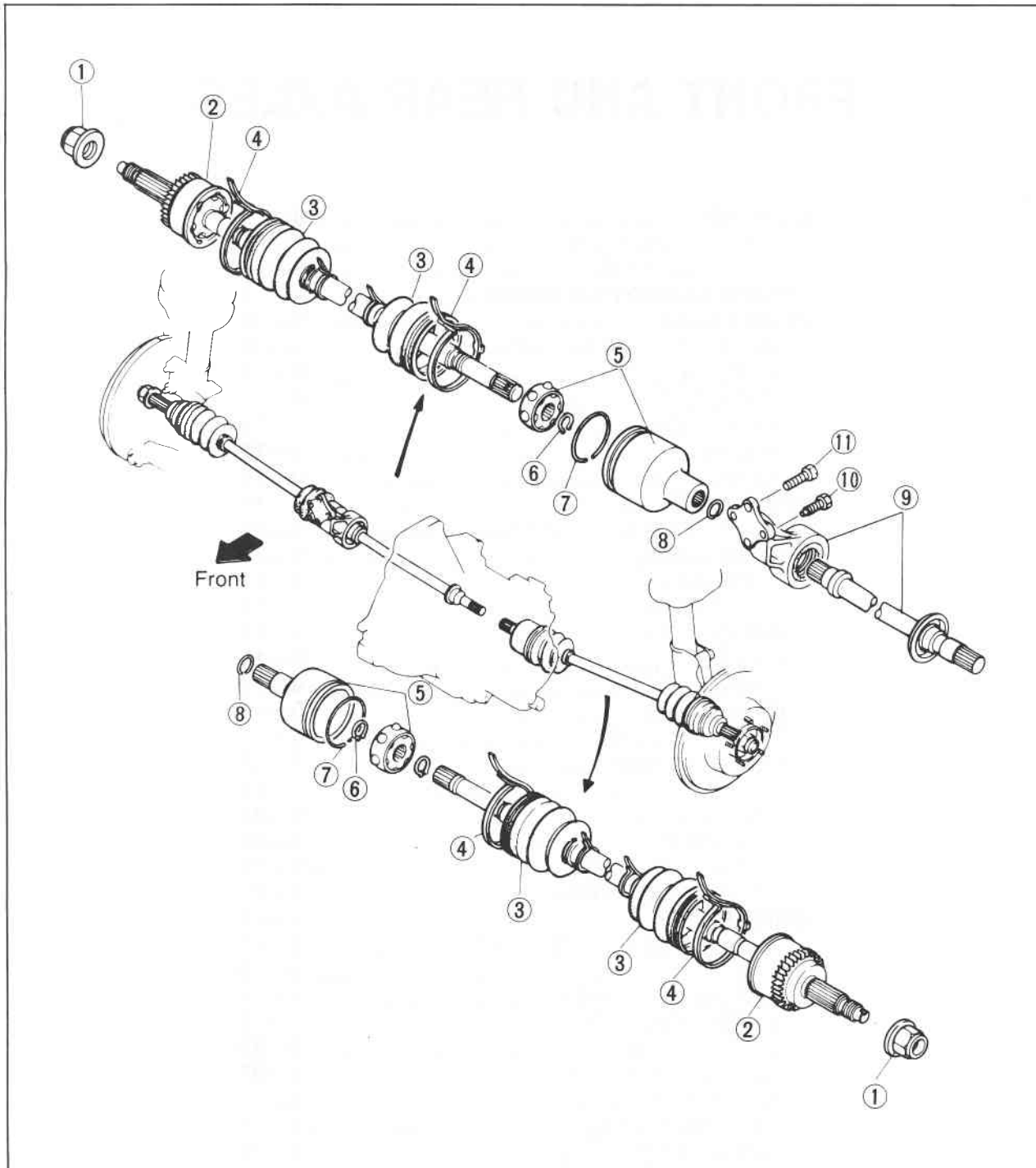
FRONT AND REAR AXLES

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9 OUTLINE

OUTLINE

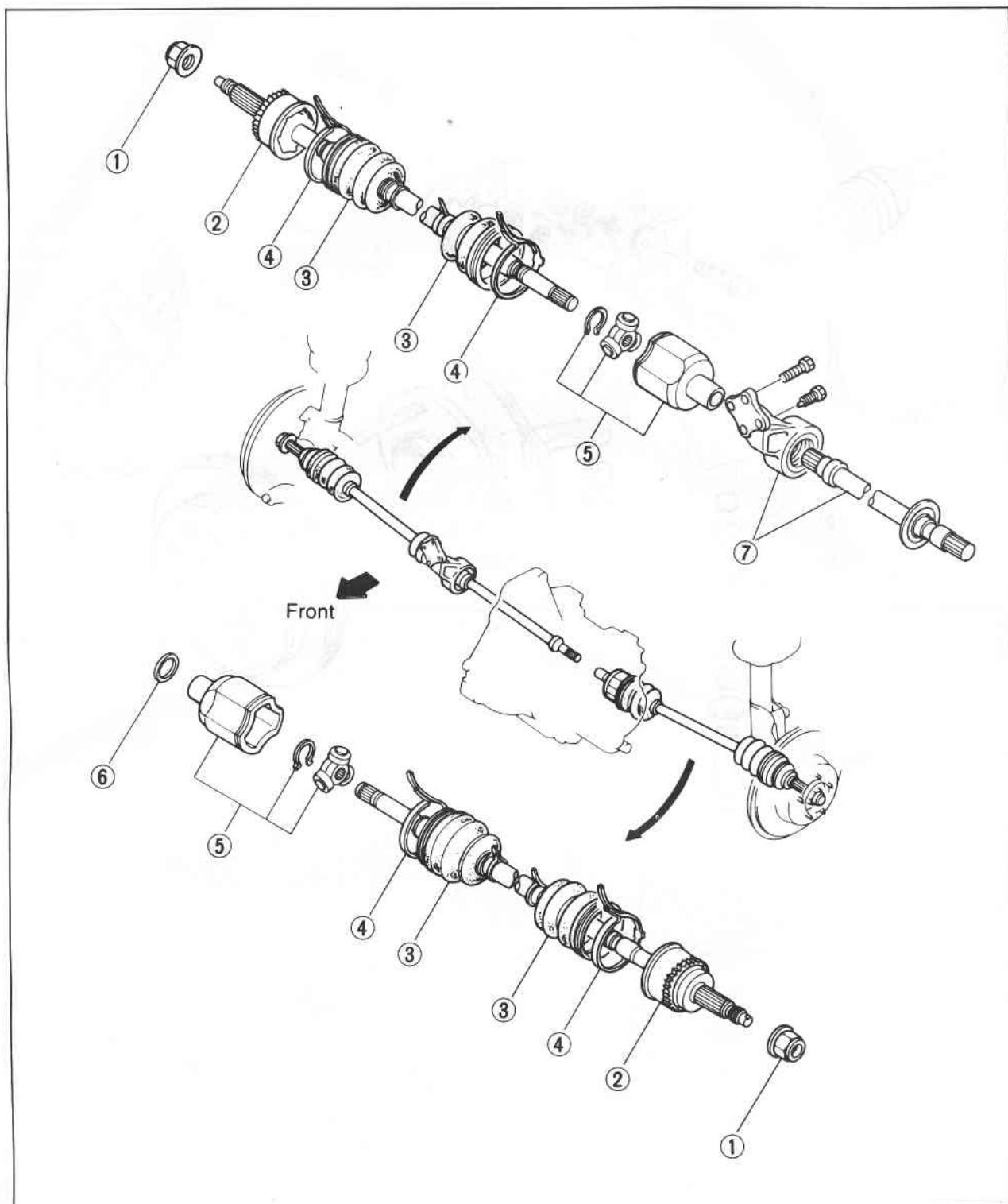
STRUCTURAL VIEW Driveshaft (MTX)



86U09X-080

1. Lock nut
2. Shaft and ball joint assembly
3. Boot
4. Boot band
5. Ball joint assembly (differential side)
6. Snap ring
7. Clip
8. Clip
9. Joint shaft assembly
10. Reamer bolt
11. Bracket mounting bolt

Driveshaft (ATX)



86U09X-081

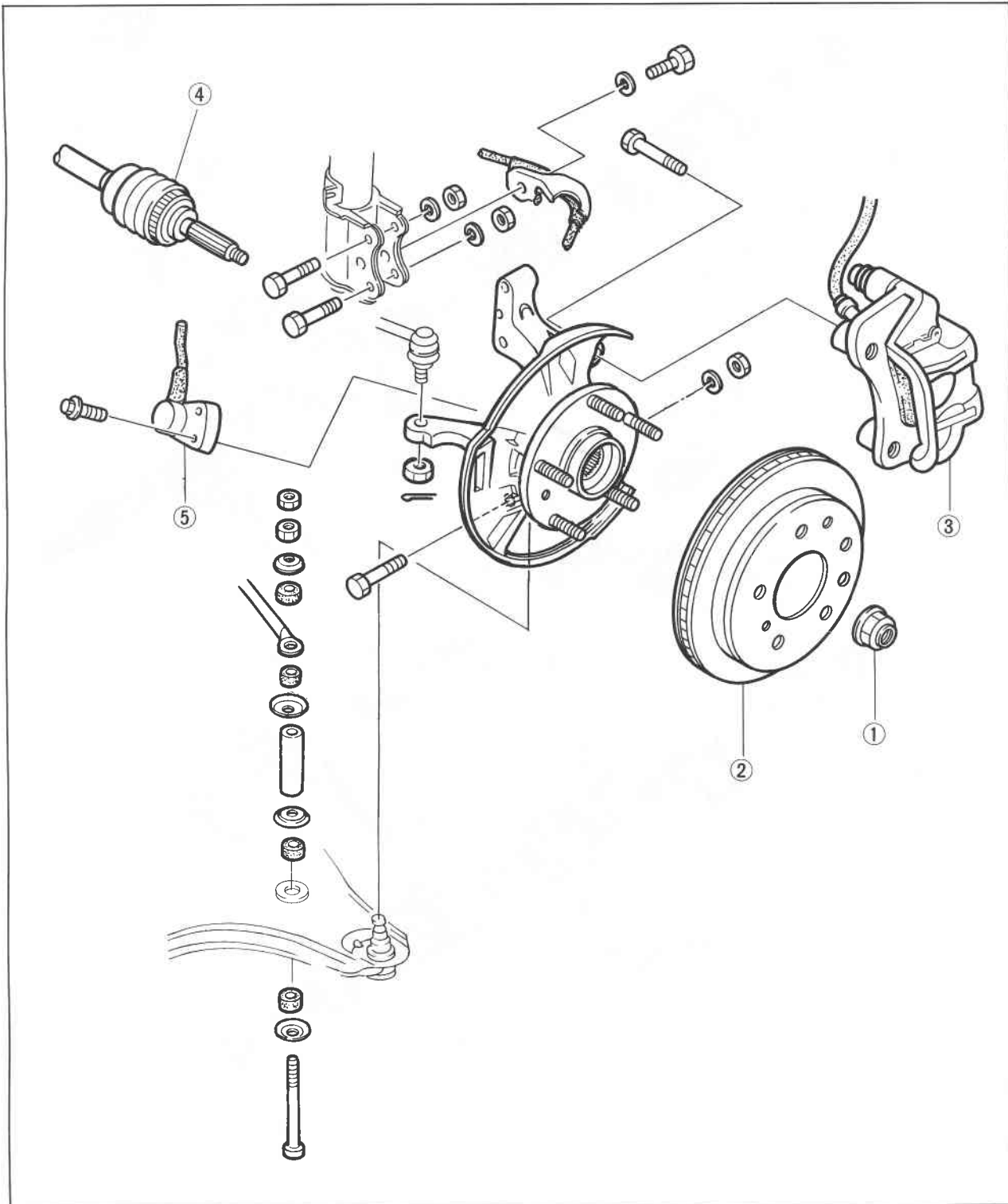
- 1. Lock nut
- 2. Shaft and ball joint assembly

- 3. Boot
- 4. Boot band
- 5. Tripod joint assembly

- 6. Clip
- 7. Joint shaft assembly

9 OUTLINE

Front Axle

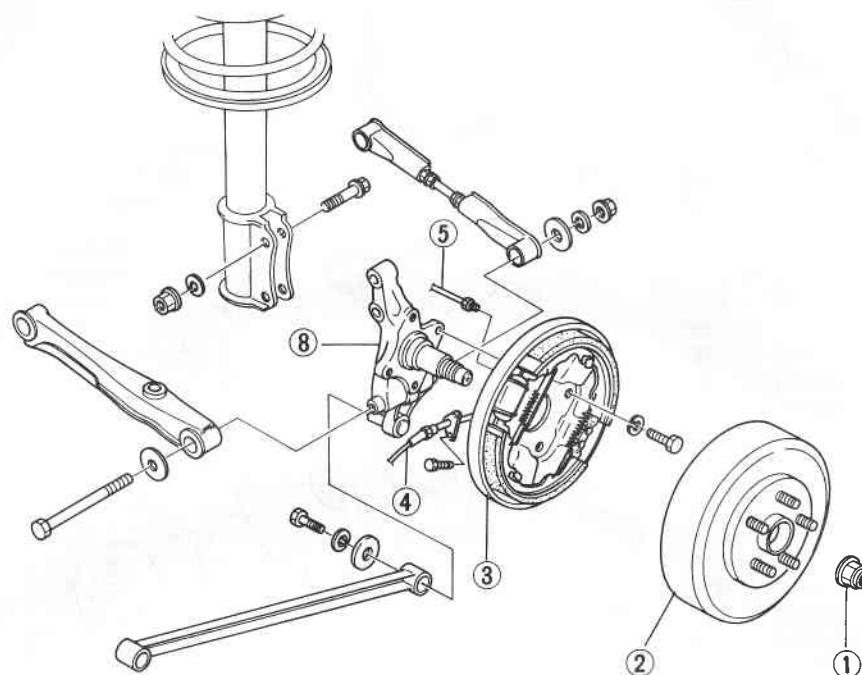


86U09X-002

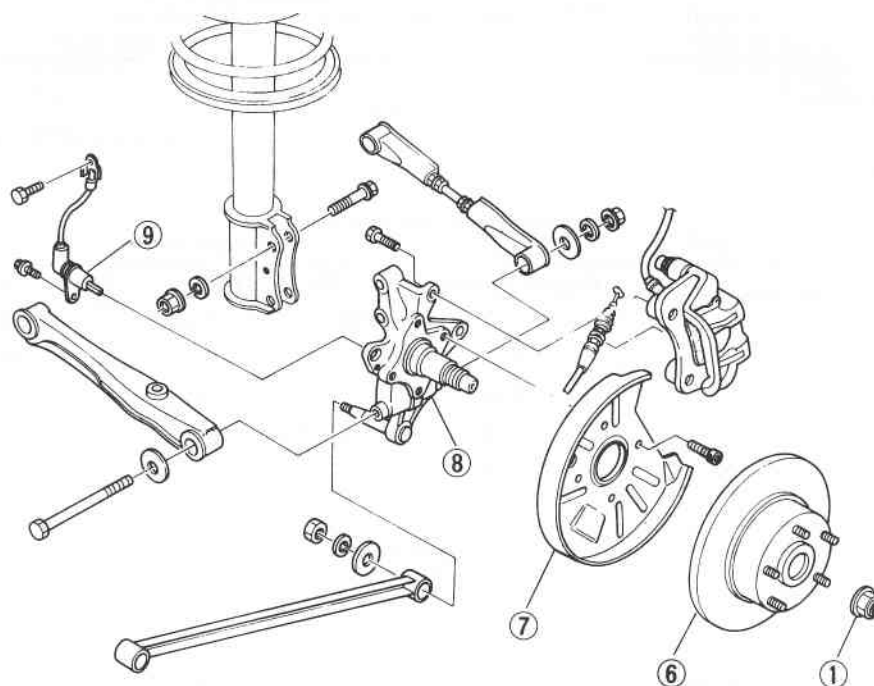
- | | |
|---------------------|-----------------------------|
| 1. Lock nut | 4. Driveshaft |
| 2. Disc plate | 5. Wheel speed sensor (ABS) |
| 3. Caliper assembly | |

Rear Axle

Drum brake



Disc brake



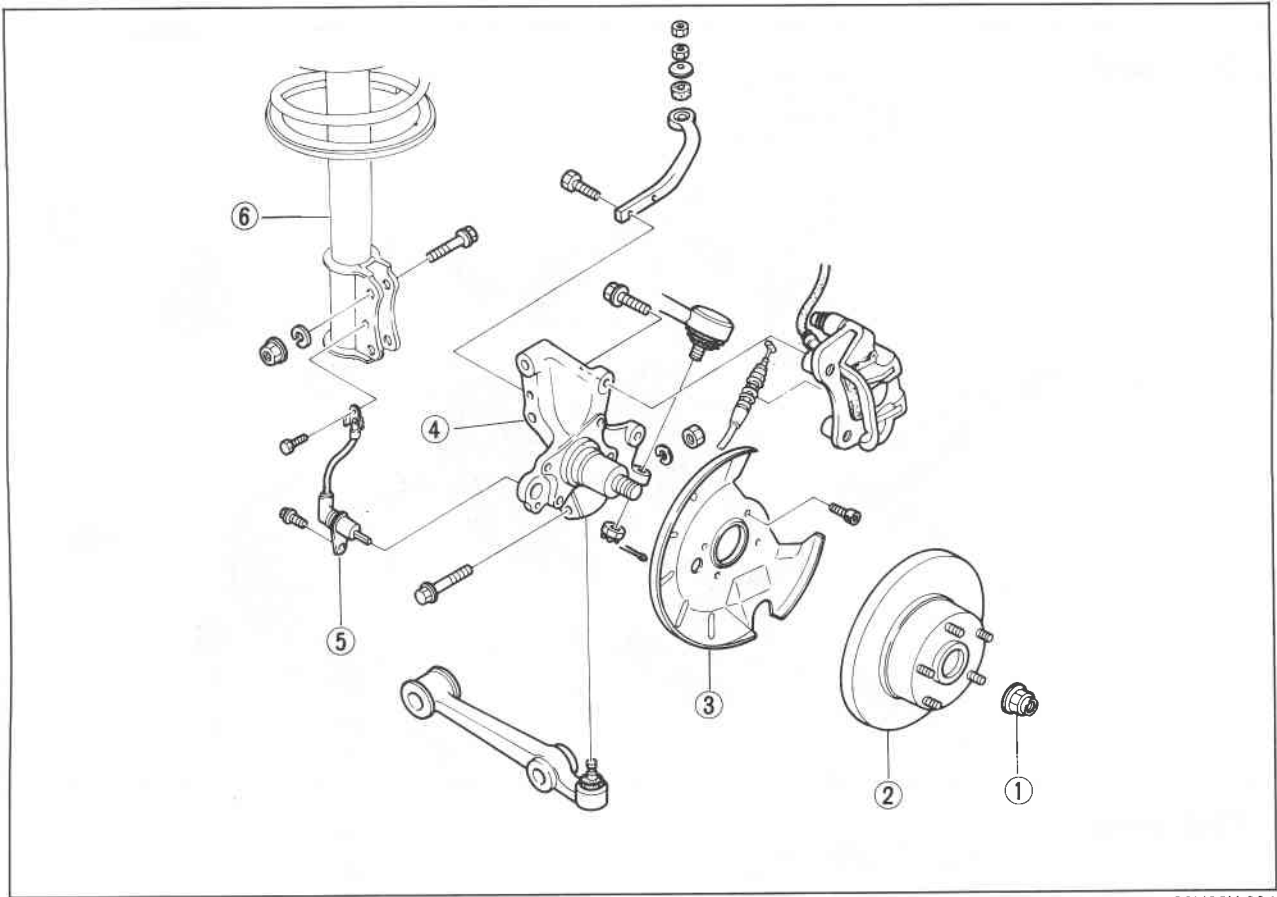
86U09X-003

1. Lock nut
2. Brake drum
3. Back plate
4. Parking cable
5. Brake pipe

6. Disc plate
7. Dust cover
8. Knuckle spindle
9. Wheel speed sensor (ABS)

9 OUTLINE

Rear Axle (4WS)



86U09X-004

1. Lock nut

2. Disc plate

3. Dust cover
4. Knuckle spindle

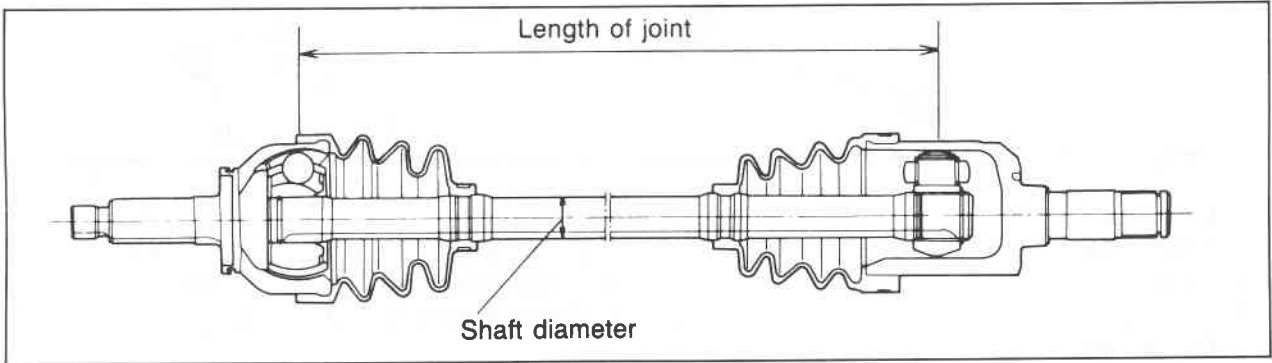
5. Wheel speed sensor (ABS)

6. Shock absorber

SPECIFICATIONS

Engine model			F6, F8, RF-N		FE, RF-CX	
			Right	Left	Right	Left
Length of joint (between centers of joints)	mm (in)	MTX	368.5 (14.51)	368.5 (14.51)	360.0 (14.17)	360.0 (14.17)
		ATX	359.5 (14.15)	359.5 (14.15)	355.5 (14.00)	355.5 (14.00)
Shaft diameter	mm (in)	MTX	23.0 (0.91)		24.0 (0.94)	
		ATX	23.0 (0.91)		24.0 (0.94)	

76G09X-001



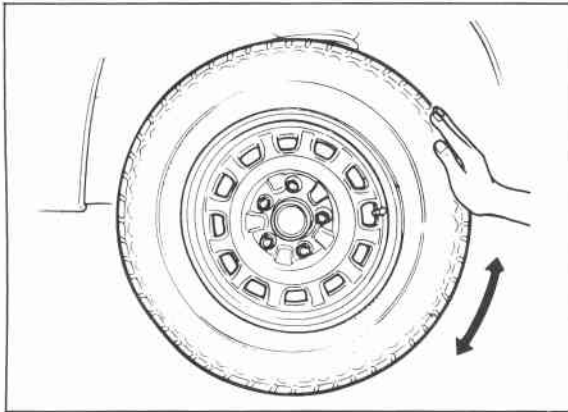
86U09X-082

TROUBLESHOOTING GUIDE

Problem	Possible Cause	Remedy	Page
Faulty operation of driveshaft	Broken ball joint	Replace	9—31
	Broken tri-pod joint	Replace	9—35
	Worn or seized joint	Replace	9—31, 35
Abnormal noise from driveshaft	Insufficient grease in joint or spline	Add or replace	9—33, 36
	Excessive backlash on spline	Replace	9—31, 35
	Worn joint	Replace	9—31, 35
Steering wheel pulls. (Steering wheel pulls toward either right or left side)	Bent steering linkage	Refer to Section 10	—
	Fatigued coil spring	Refer to Section 13	—
	Lower arm bushing worn or damaged	Refer to Section 13	—
	Bent knuckle	Replace	9—11
	Bent lower arm or loose mounting	Refer to Section 13	—
	Incorrect toe-in adjustment	Refer to Section 13	—
	Improper tire air pressure	Refer to Section 12	—
	Unevenly worn tires (left and right tires)	Refer to Section 12	—
Unstable handling	Brake dragging	Refer to Section 11	—
	Bent steering linkage	Refer to Section 10	—
	Joint in steering system worn or damaged	Refer to Section 10	—
	Incorrect steering pinion preload adjustment	Refer to Section 10	—
	Fatigued coil spring	Refer to Section 13	—
	Faulty shock absorber(s)	Refer to Section 13	—
	Lower arm bushing worn or damaged	Refer to Section 13	—
	Incorrect toe-in adjustment (front or rear)	Refer to Section 13	—
Excessive steering wheel play	Improper tire air pressure	Refer to Section 12	—
	Wheel(s) bent or unbalanced	Refer to Section 12	—
	Faulty front wheel bearing	Adjust	9—11
	Incorrect steering pinion preload adjustment	Refer to Section 10	—
	Rack and pinion worn	Refer to Section 10	—
Tires excessively worn or worn unevenly	Joint in steering system worn or damaged	Refer to Section 10	—
	Lower arm bushing worn or damaged	Refer to Section 13	—
	Incorrect toe-in adjustment	Refer to Section 13	—
	Improper tire air pressure	Refer to Section 12	—
Abnormal noise from axle	Unbalanced wheel(s)	Refer to Section 12	—
	Faulty wheel bearing	Replace	9—11, 18, 23

86U09X-006

9 FRONT AXLE



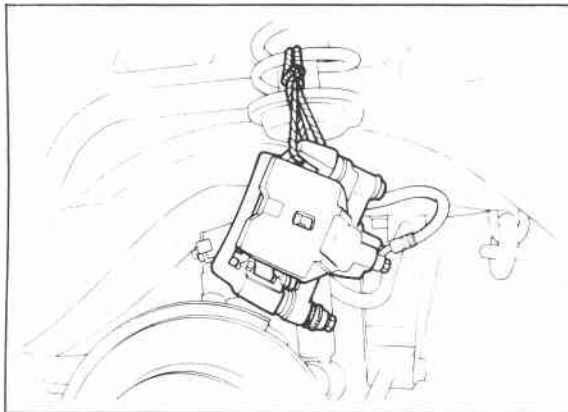
69G09X-011

FRONT AXLE

ON-VEHICLE MAINTENANCE

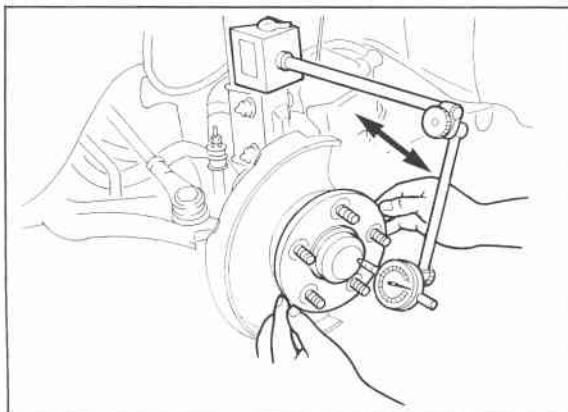
Wheel Bearing Play

1. Jack up the vehicle and support it with safety stands.
2. Check that there is no abnormal noise and that the tire rotates smoothly when rotated by hand.



69G09X-012

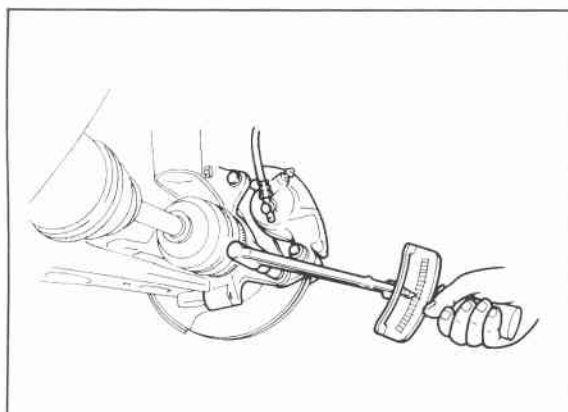
3. Remove the wheel.
4. Remove the caliper assembly and suspend it using a rope.



76G09X-002

5. Position a dial indicator against the hub cap, then push and pull the front wheel hub by hand in the axial direction and measure the end play of the wheel bearing.
If the end play exceeds specification, replace the wheel bearing.

End play: 0.2 mm (0.0079 in) max



86U09X-008

6. Install the caliper assembly.

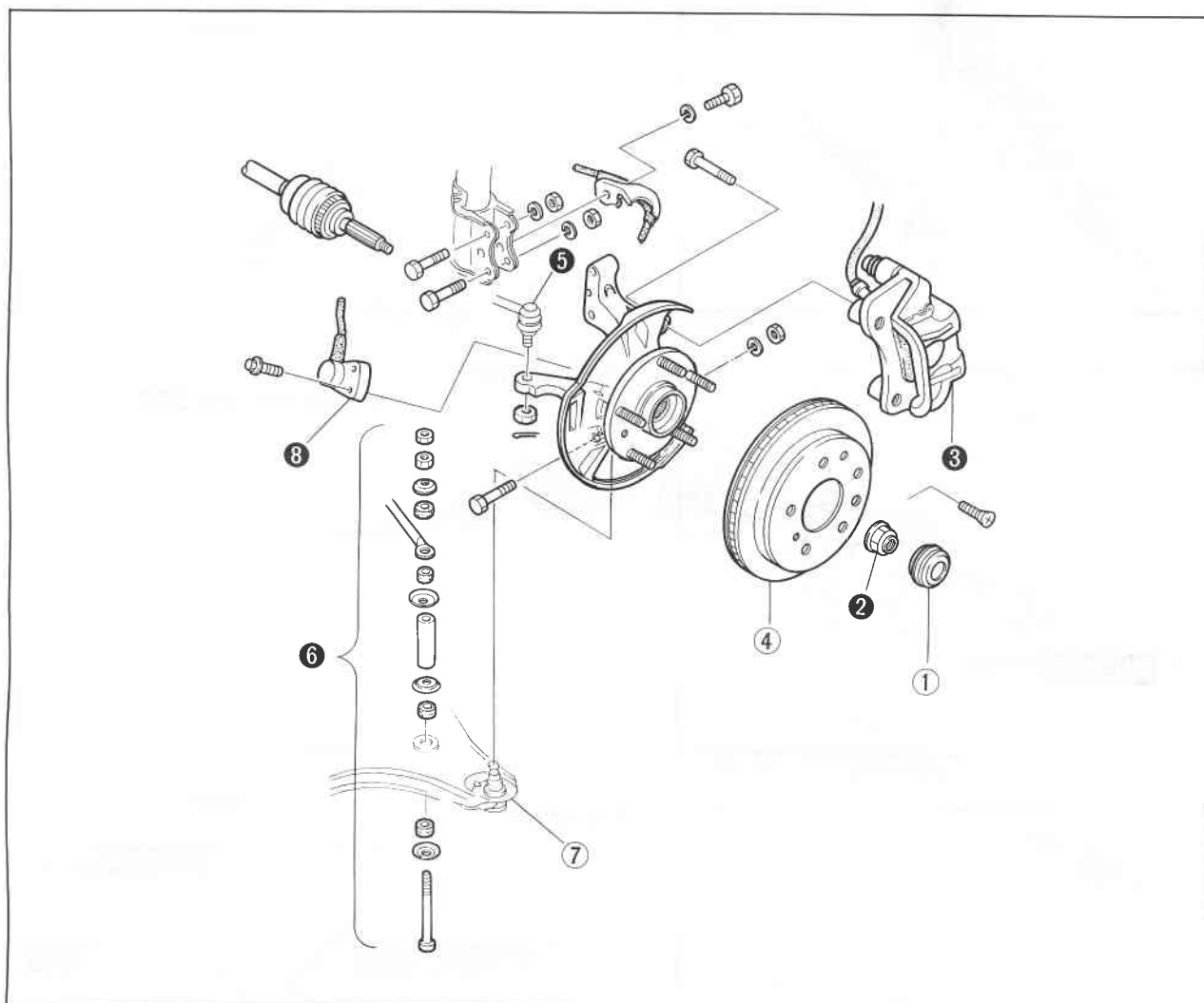
**Tightening torque: 78—98 N·m
(8.0—10.0 m·kg, 58—72 ft·lb)**

7. Install the wheel.

**Tightening torque: 88—118 N·m
(9.0—12.0 m·kg, 65—87 ft·lb)**

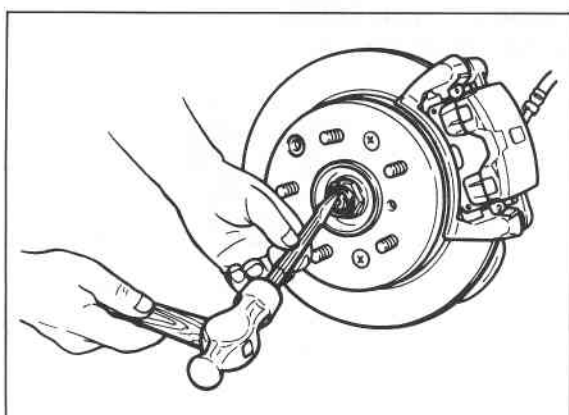
REMOVAL

Removal in the sequence shown in the figure referring to the removal note for the specially marked parts.



86U09X-009

- | | |
|---------------------|-----------------------------|
| 1. Hub cap | 6. Stabilizer |
| 2. Lock nut | 7. Lower arm |
| 3. Caliper assembly | 8. Wheel speed sensor (ABS) |
| 4. Disc plate | 9. Knuckle |
| 5. Tie-rod end | |



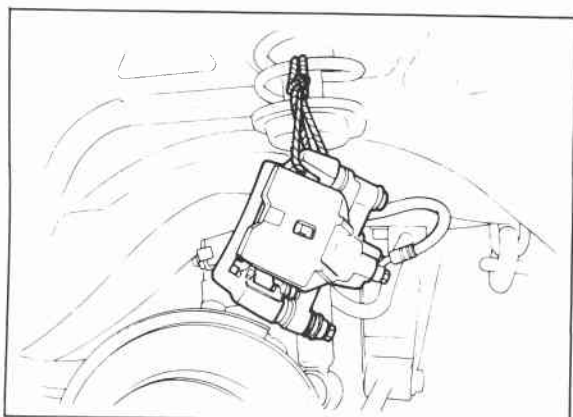
86U09X-010

Removal Note

Lock nut

1. Uncrimp the tab of the lock nut.

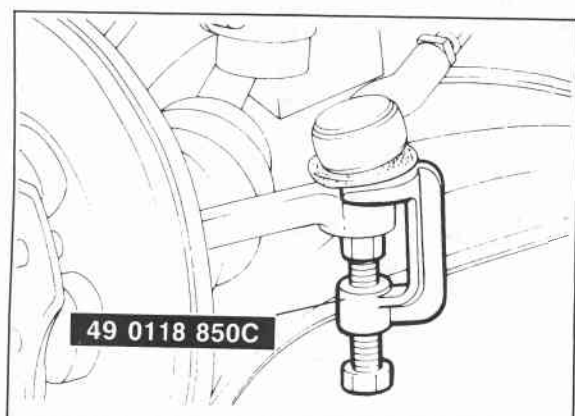
9 FRONT AXLE



86U09X-011

Caliper assembly

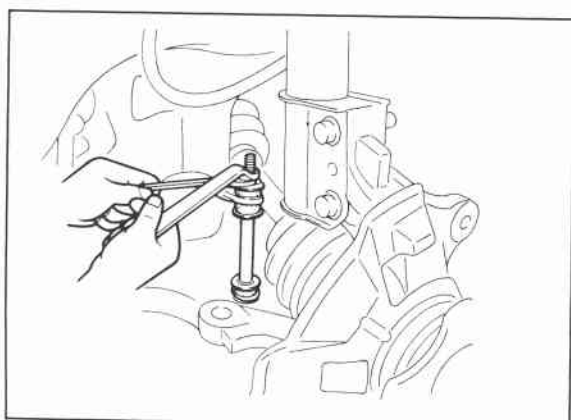
Remove the caliper assembly and suspend it.



86U09X-012

Tie-rod end

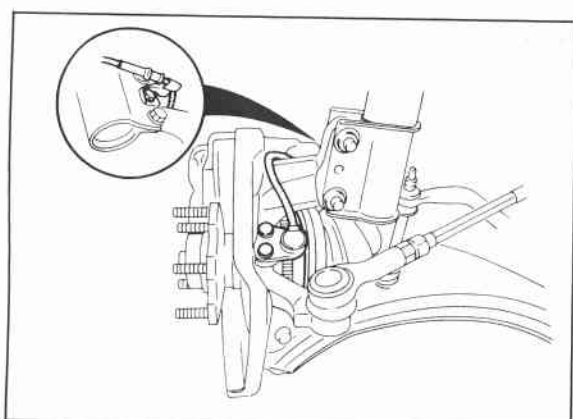
Disconnect the tie-rod end with the **SST**.



86U09X-013

Stabilizer

Remove the stabilizer bolt.



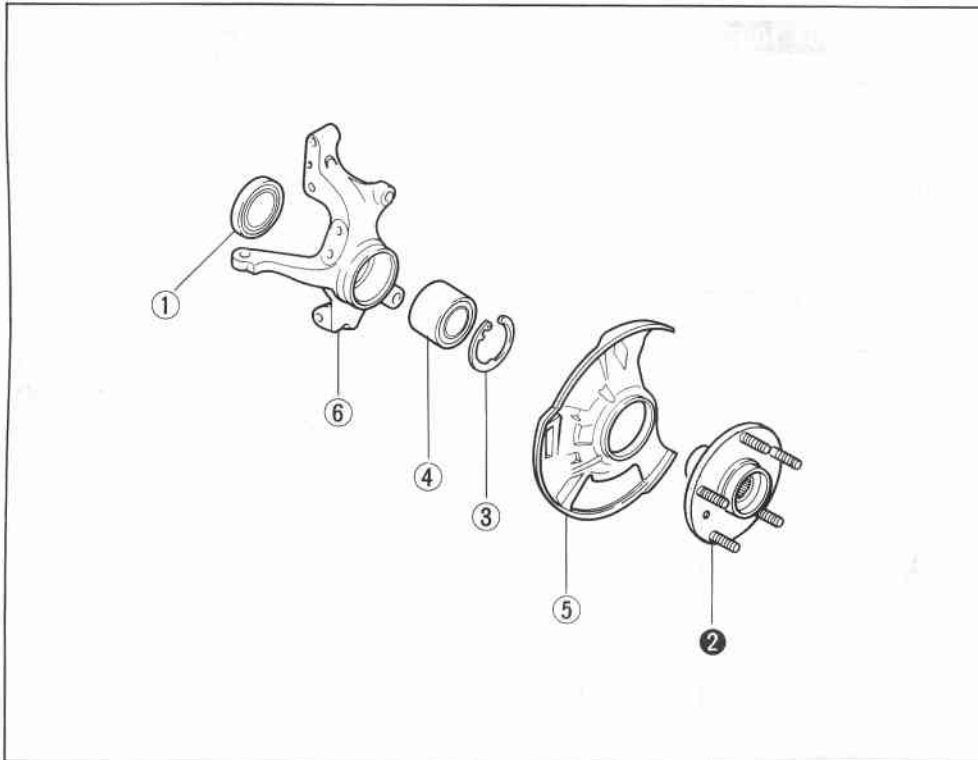
86U09X-014

Wheel speed sensor (ABS)

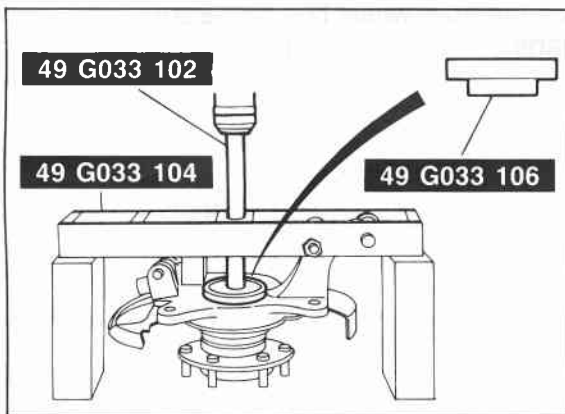
Remove the speed sensor.

DISASSEMBLY

Disassemble in the sequence shown in the figure referring to the disassembly note for the specially marked parts.



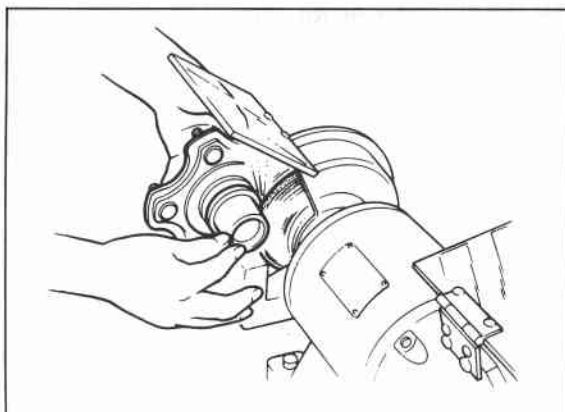
86U09X-015



86U09X-083

Disassembly Note Front wheel hub

Remove the front wheel hub with the **SST**.

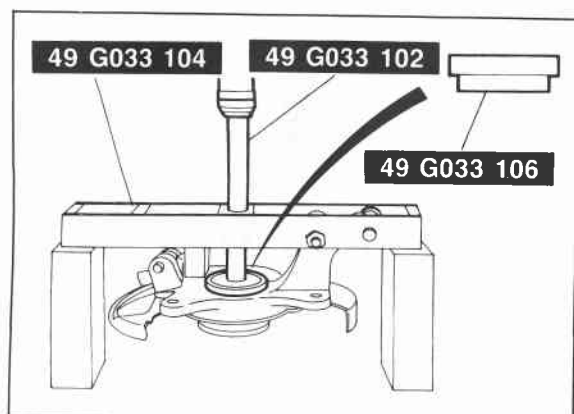


86U09X-086

Note

If the bearing inner race remains on the front wheel hub, grind a section of the bearing inner race to approx. 0.5 mm (0.0197 in). Then remove it with a chisel.

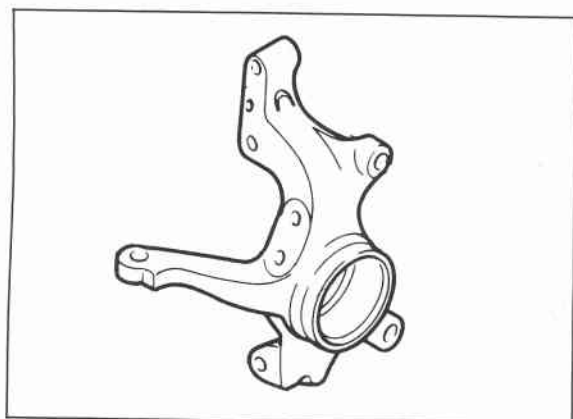
9 FRONT AXLE



86U09X-016

Front wheel bearing

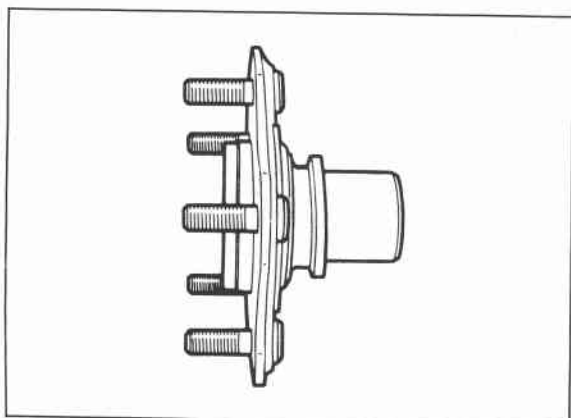
Remove the front wheel bearing with the **STT**.



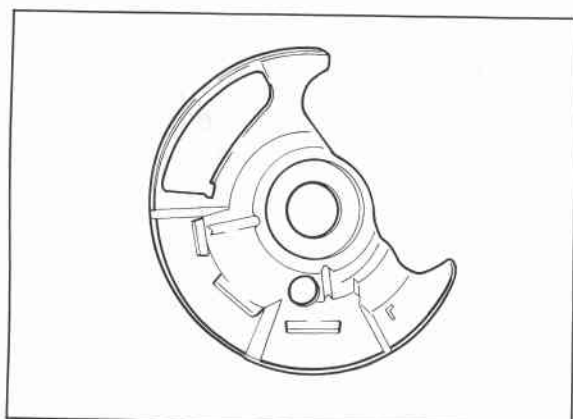
INSPECTION

Check as described below, replace parts if necessary.

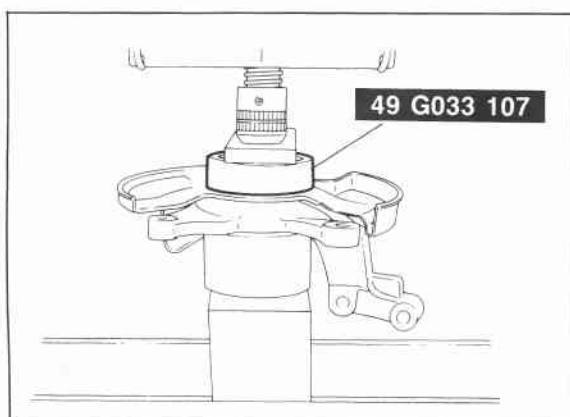
1. Check the knuckle for cracks or damage.



2. Check the front wheel hub for seizure, cracks or damage.



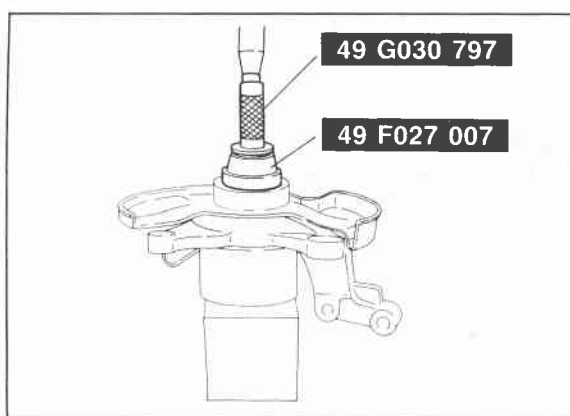
3. Check the dust cover for cracks or damage.



86U09X-017

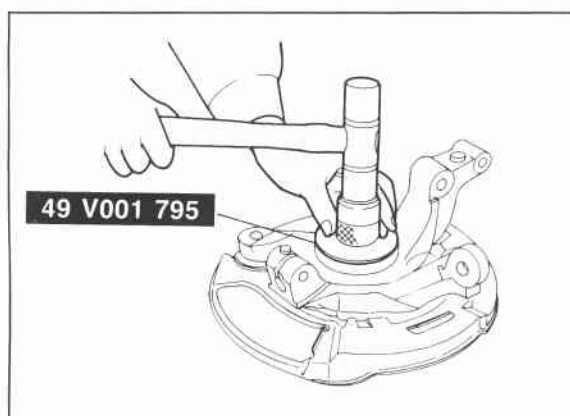
ASSEMBLY

1. Install new hub bolts. (If applicable)
2. Install a new dust cover with the **SST**.



86U09X-018

3. Install a new front wheel bearing with the **SST**.

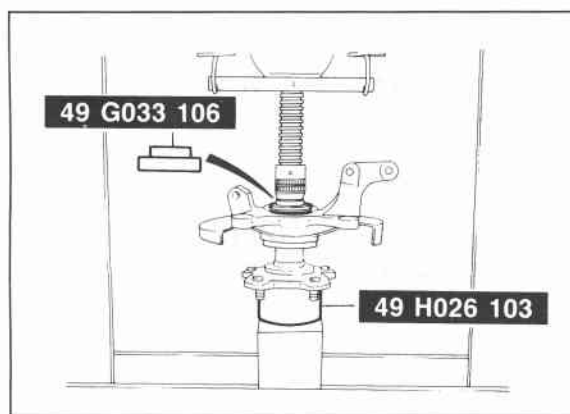


86U09X-019

4. Install the retaining ring.
5. Install a new oil seal with the **SST**.

Note

Apply grease to the oil seal lip.

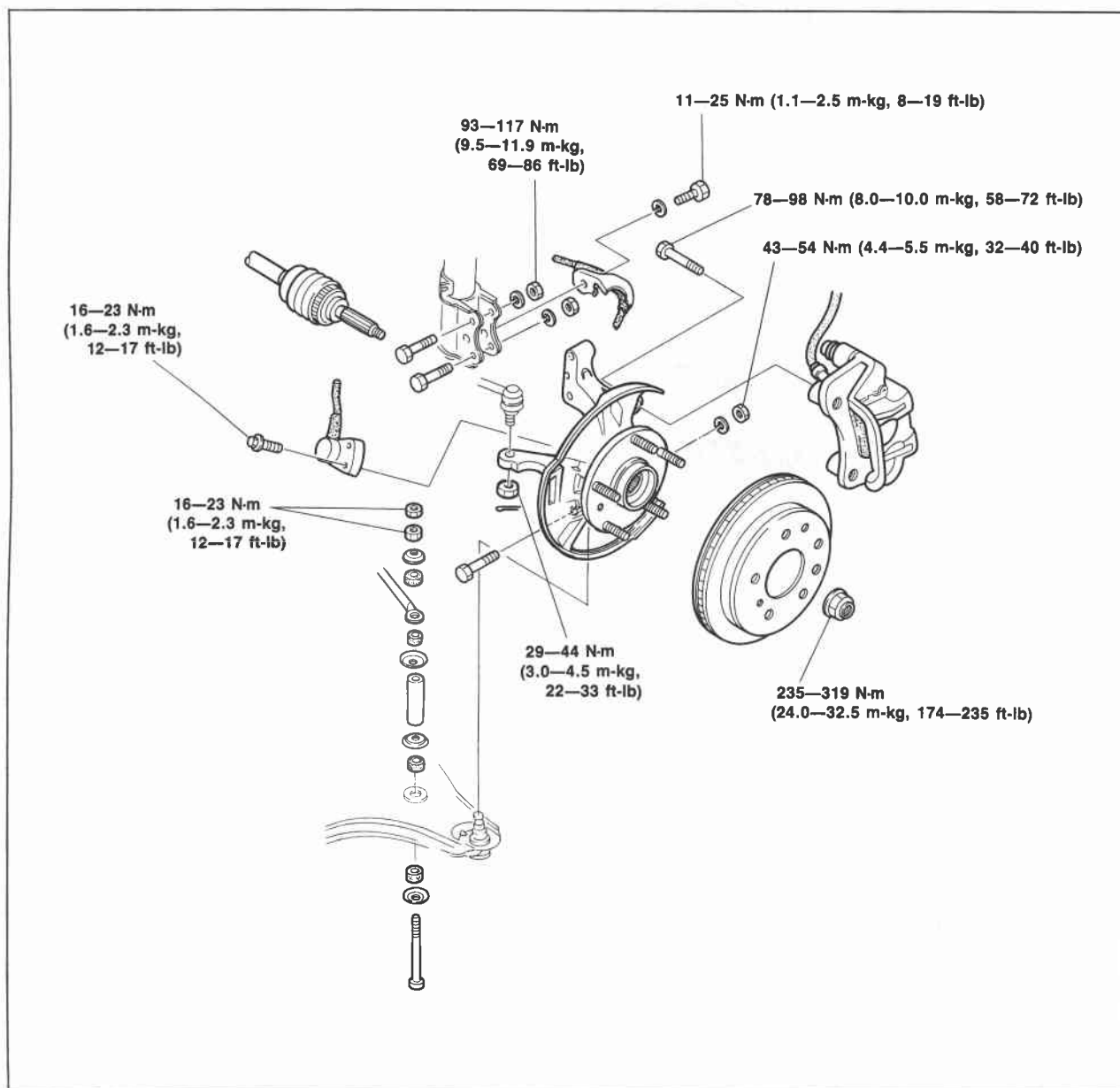


86U09X-020

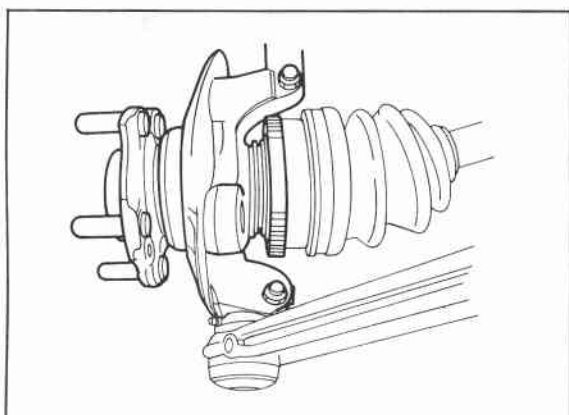
6. Install the front wheel hub with the **SST**.

9 FRONT AXLE

INSTALLATION Torque Specifications



86U09X-021



86U09X-022

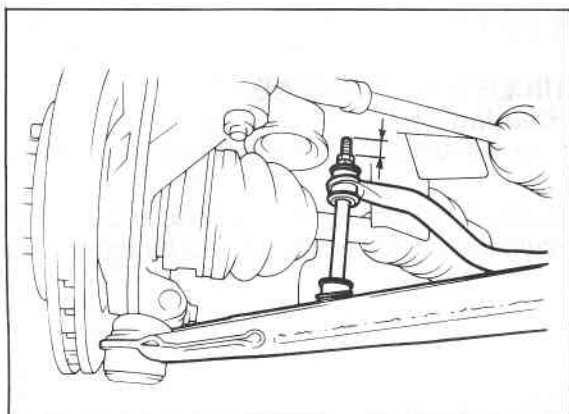
1. Install the knuckle to the shock absorber.

**Tightening torque: 93—117 N·m
(9.5—11.9 m·kg, 69—86 ft·lb)**

2. Install the lower arm ball-joint.

**Tightening torque: 43—54 N·m
(4.4—5.5 m·kg, 32—40 ft·lb)**

3. Install the driveshaft.

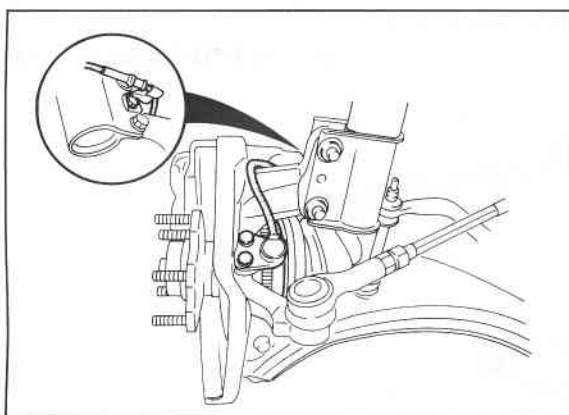


86U09X-023

4. Install the stabilizer.

Dimension: 20.1 mm (0.79 in)

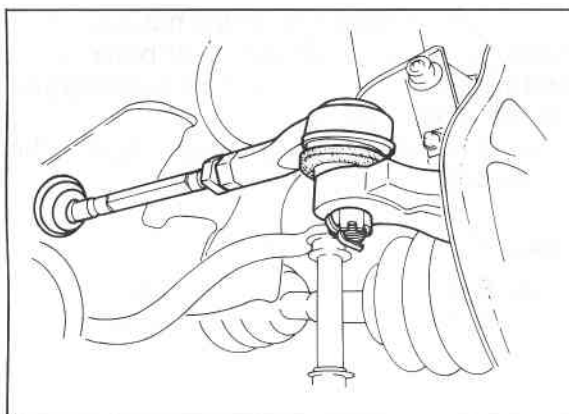
**Tightening torque: 16—23 N·m
(1.6—2.3 m·kg, 12—17 ft·lb)**



86U09X-024

5. Install the wheel speed sensor. (ABS)

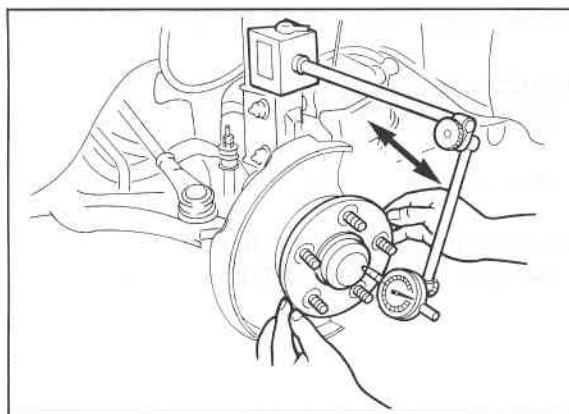
**Tightening torque: 16—23 N·m
(1.6—2.3 m·kg, 12—17 ft·lb)**



86U09X-025

6. Install the tie-rod end.

**Tightening torque: 29—44 N·m
(3.0—4.5 m·kg, 22—33 ft·lb)**



86U09X-026

7. Check the end play. (Refer to page 9—8)

End play: 0.2 mm (0.0079 in) max.

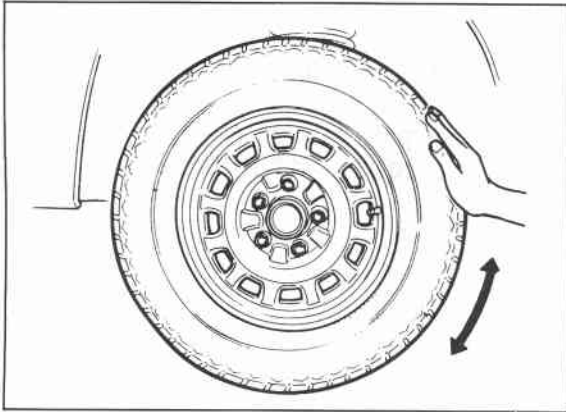
8. Stake the lock nut to groove.
9. Install the caliper assembly.

**Tightening torque: 78—98 N·m
(8.0—10.0 m·kg, 58—72 ft·lb)**

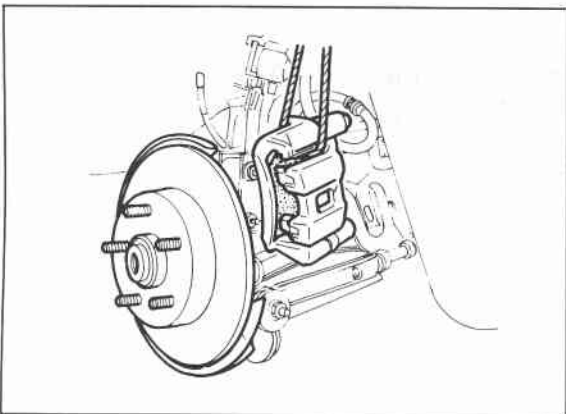
10. Install the wheel.

**Tightening torque: 88—118 N·m
(9.0—12.0 m·kg, 65—87 ft·lb)**

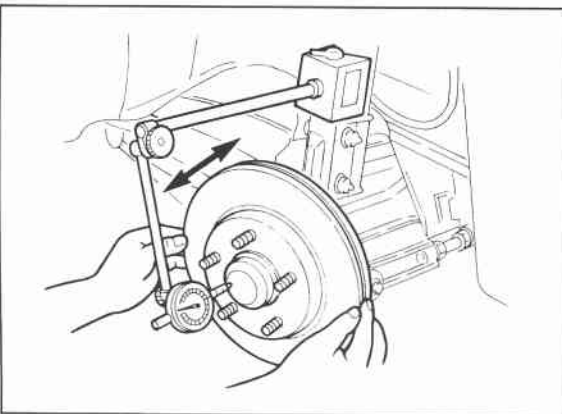
9 REAR AXLE



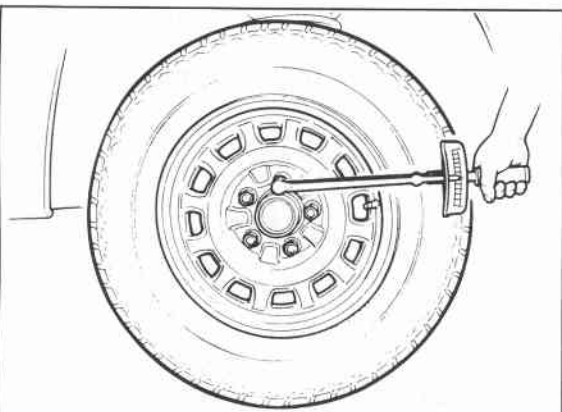
86U09X-027



69G09X-012



76G09X-003



86U09X-029

REAR AXLE

ON-VEHICLE MAINTENANCE

Wheel Bearing Play

1. Jack up the vehicle and support it with safety stands.
2. Check that there is no abnormal noise and that the tire rotates smoothly when rotated by hand.

3. Remove the wheel.
4. Remove the caliper assembly and suspend it using a rope.

5. Position a dial indicator against the hub cap, then push and pull the front wheel hub or brake drum by hand in the axial direction and measure the end play of the wheel bearing.
If the end play exceeds specification, replace the wheel bearing.

End play: 0.2 mm (0.0079 in) max.

6. Install the caliper assembly. (Disc)

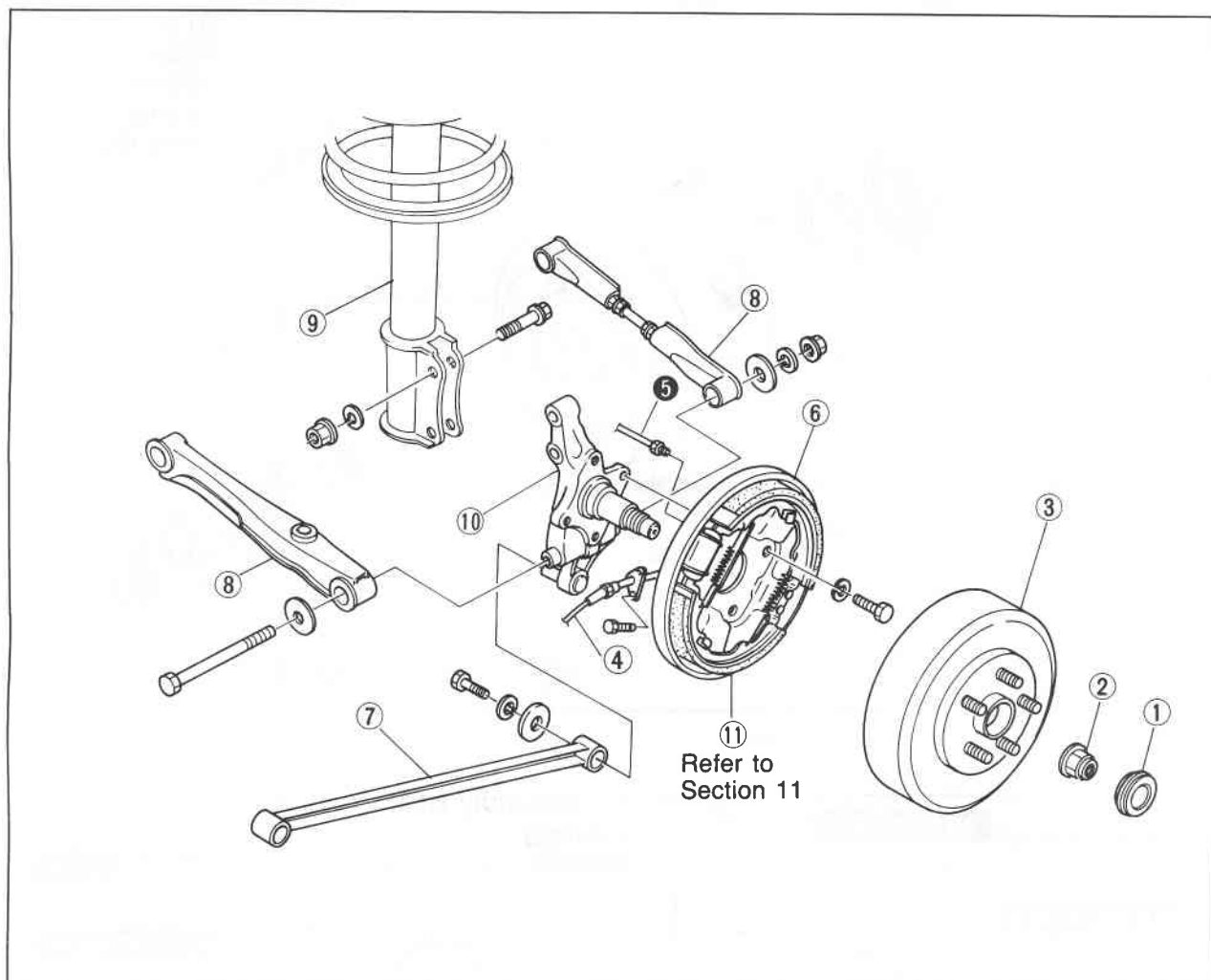
**Tightening torque: 45—67 N·m
(4.6—6.8 m·kg, 33—49 ft·lb)**

7. Install the wheel.

**Tightening torque: 88—118 N·m
(9.0—12.0 m·kg, 65—87 ft·lb)**

[Drum Brake] REMOVAL

Remove in the sequence shown in the figure referring to the removal note for the specially marked parts.



86U09X-030

- | | | |
|------------------------|------------------|-------------------------|
| 1. Hub cap | 5. Brake pipe | 9. Shock absorber |
| 2. Lock nut | 6. Back plate | 10. Knuckle spindle |
| 3. Brake drum | 7. Trailing link | 11. Brake shoe assembly |
| 4. Parking brake cable | 8. Lateral link | |



86U09X-031

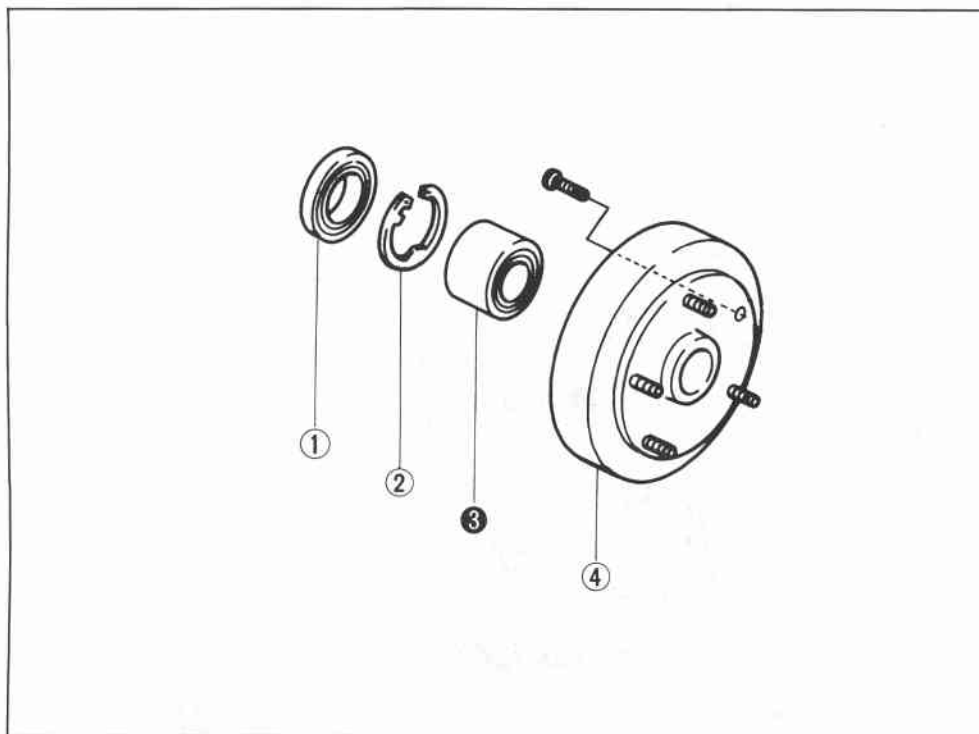
Removal Note

Disconnect the brake pipe with the **SST**.

9 REAR AXLE

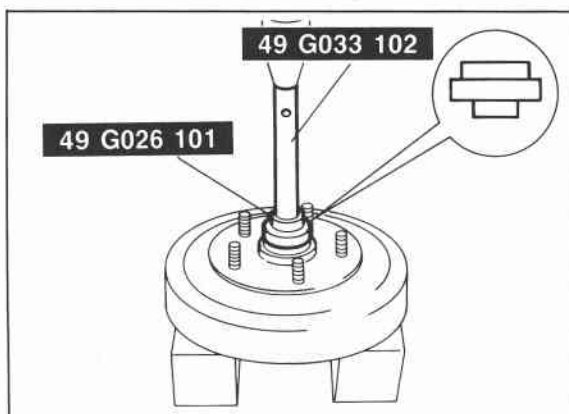
DISASSEMBLY

Disassemble in the sequence shown in the figure referring to the disassembly note for the specially marked parts.



1. Oil seal
2. Retaining ring
3. Rear wheel bearing
4. Brake drum

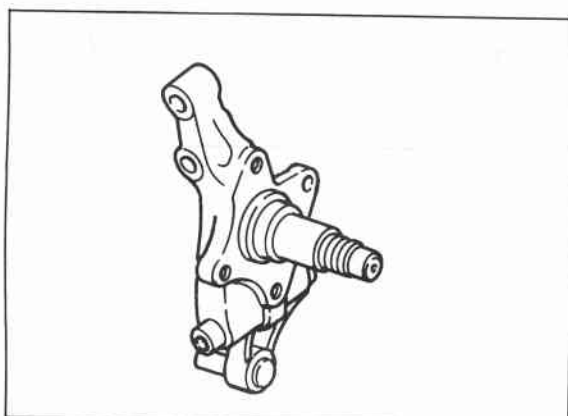
86U09X-032



86U09X-033

Disassembly Note Bearing

Remove the rear wheel bearing with the **SST**.

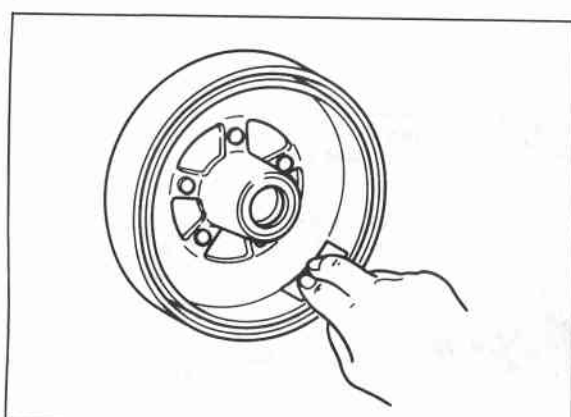


86U09X-034

INSPECTION

Knuckle Spindle

1. Cracks or damage.
2. Wear or rust on the oil seal contact surface.



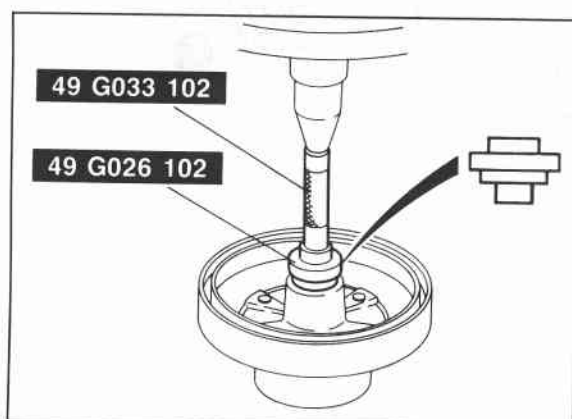
61G09X-036

Brake Drum

Wear or damage to brake drum.

Note

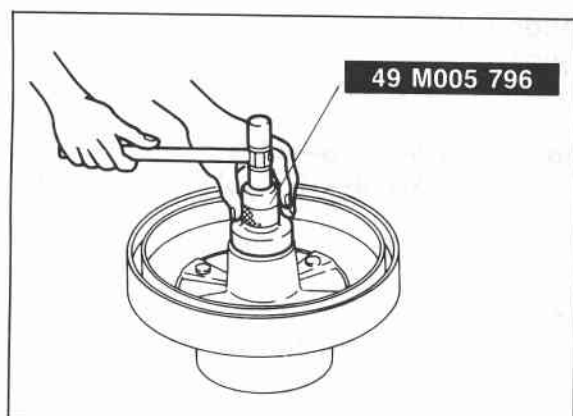
Remove minor rust with sandpaper



86U09X-035

ASSEMBLY

1. Install a new rear wheel bearing with the **SST**.



86U09X-036

2. Install the retaining ring.
3. Install a new oil seal with the **SST**.

Note

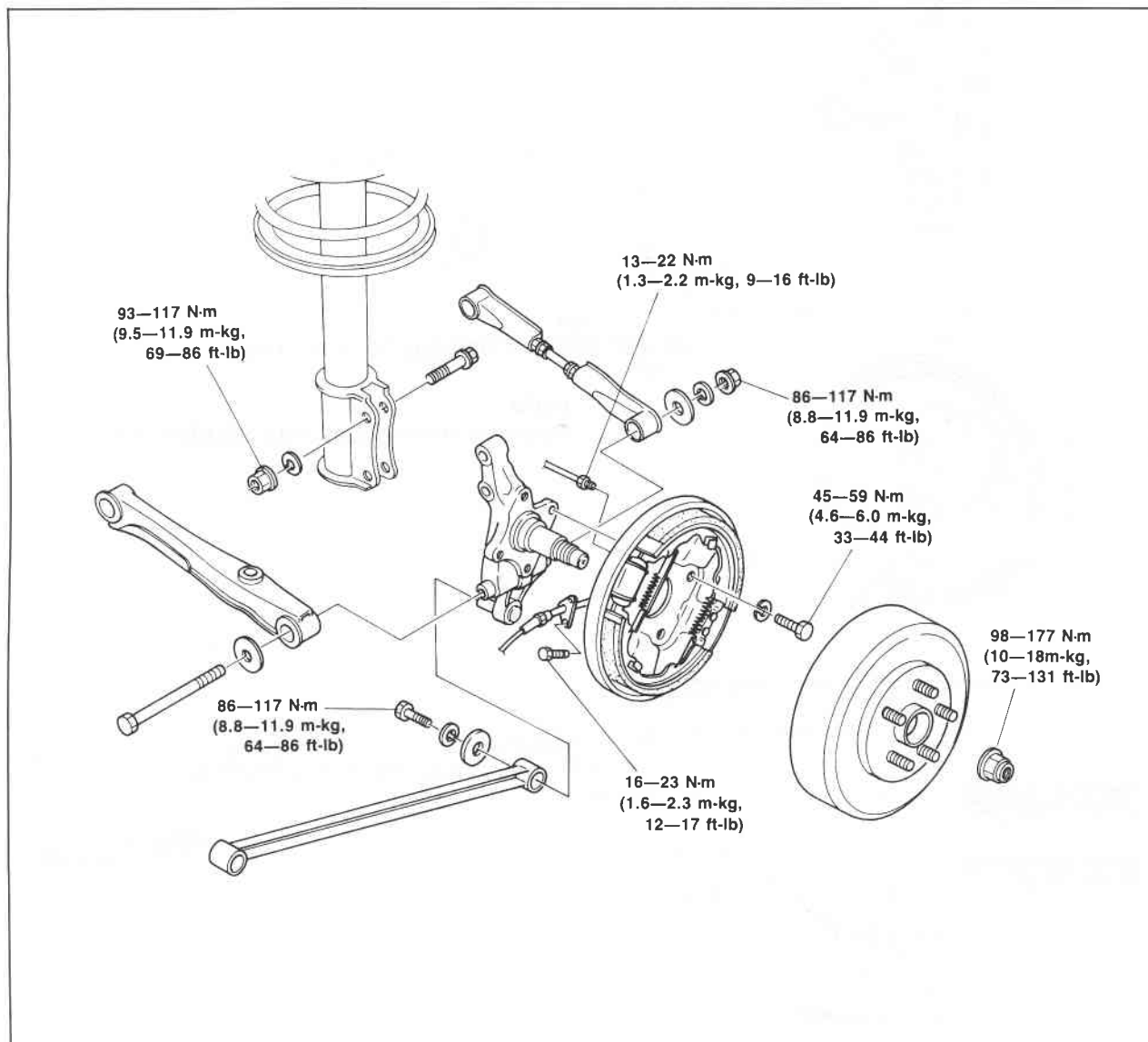
Apply grease to the oil seal lip.

9 REAR AXLE

INSTALLATION

Install in the reverse order of removal referring to the installation note.

Torque specifications



86U09X-037



86U09X-038

Installation Note

Brake pipe

1. Connect the brake pipe with the SST.

**Tightening torque: 13—22 N·m
(1.3—2.2 m·kg, 9—16 ft·lb)**

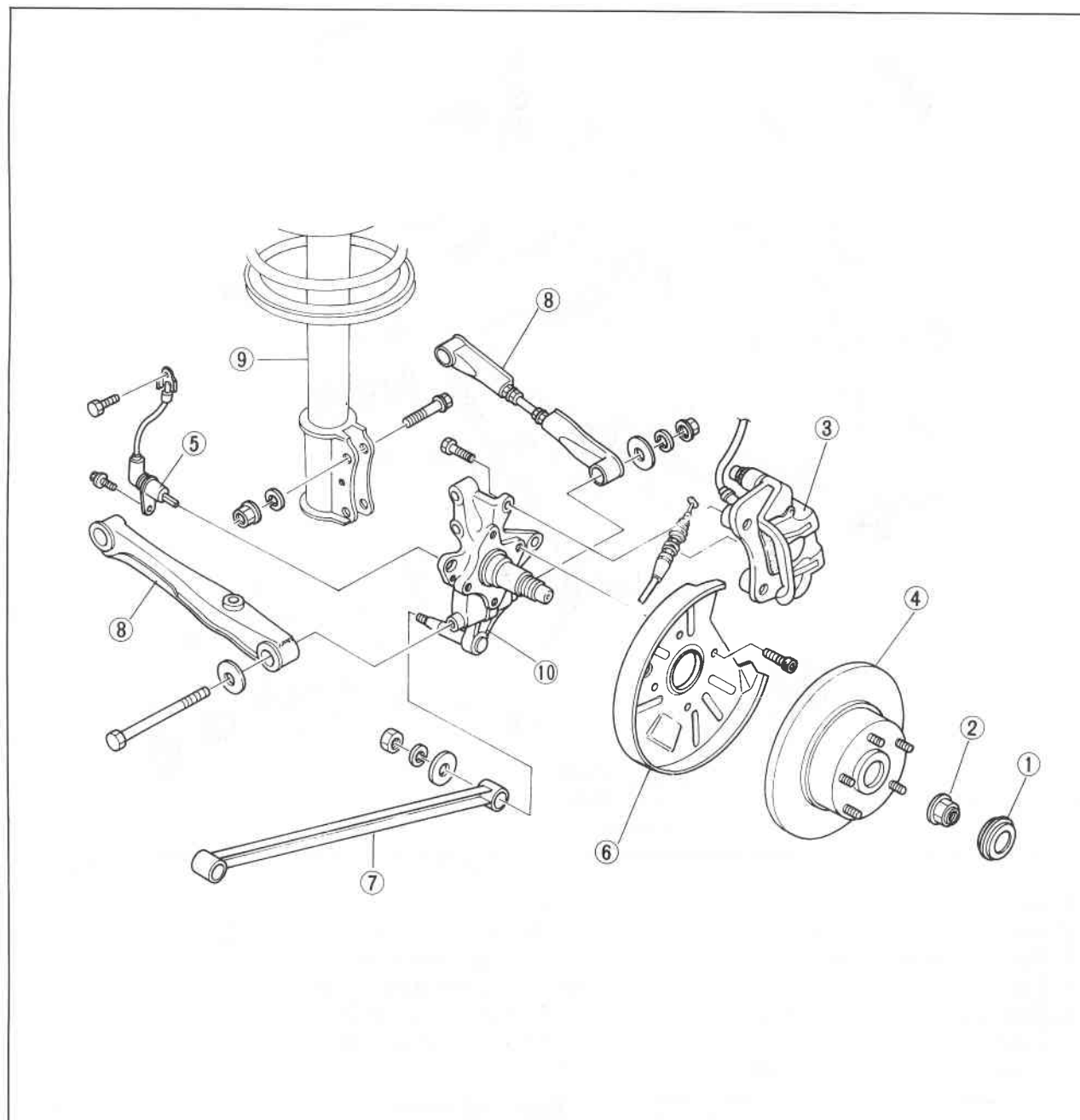
2. Bleed the air. (Refer to Section 11)

End play

Measure the end play. (Refer to page 9—16)

[Disc Brake] REMOVAL (2WS)

Remove in the sequence shown in the figure.



86U09X-039

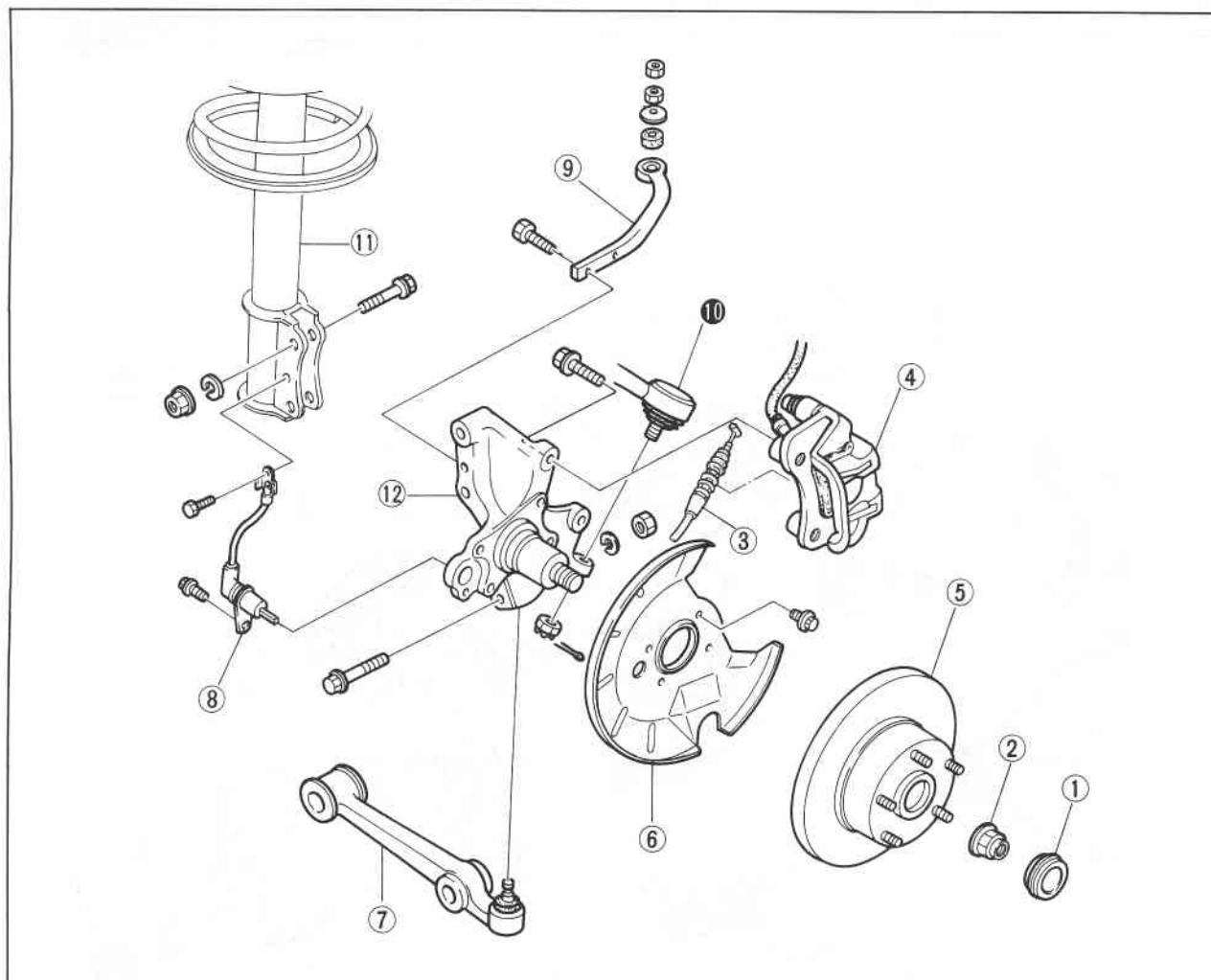
1. Hub cap
2. Lock nut
3. Caliper assembly
4. Disc plate
5. Wheel speed sensor (ABS)

6. Dust cover
7. Trailing link
8. Lateral link
9. Shock absorber
10. Knuckle spindle

9 REAR AXLE

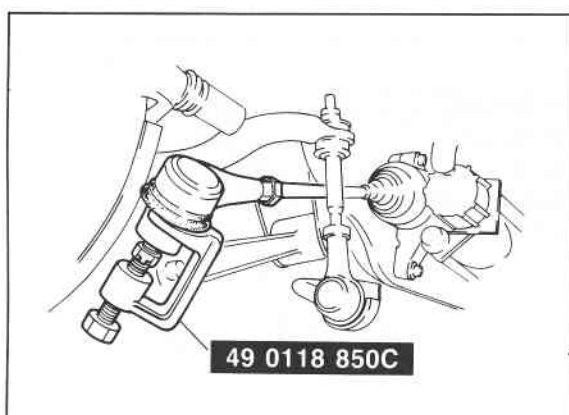
REMOVAL (4WS)

Remove in the sequence shown in the figure referring to the removal note for the specially marked parts.



86U09X-040

- | | |
|------------------------|-----------------------------|
| 1. Hub cap | 7. Control link |
| 2. Lock nut | 8. Wheel speed sensor (ABS) |
| 3. Parking brake cable | 9. Stabilizer bracket |
| 4. Caliper assembly | 10. Tie-rod end |
| 5. Disc plate | 11. Shock absorber |
| 6. Dust cover | 12. Knuckle spindle |



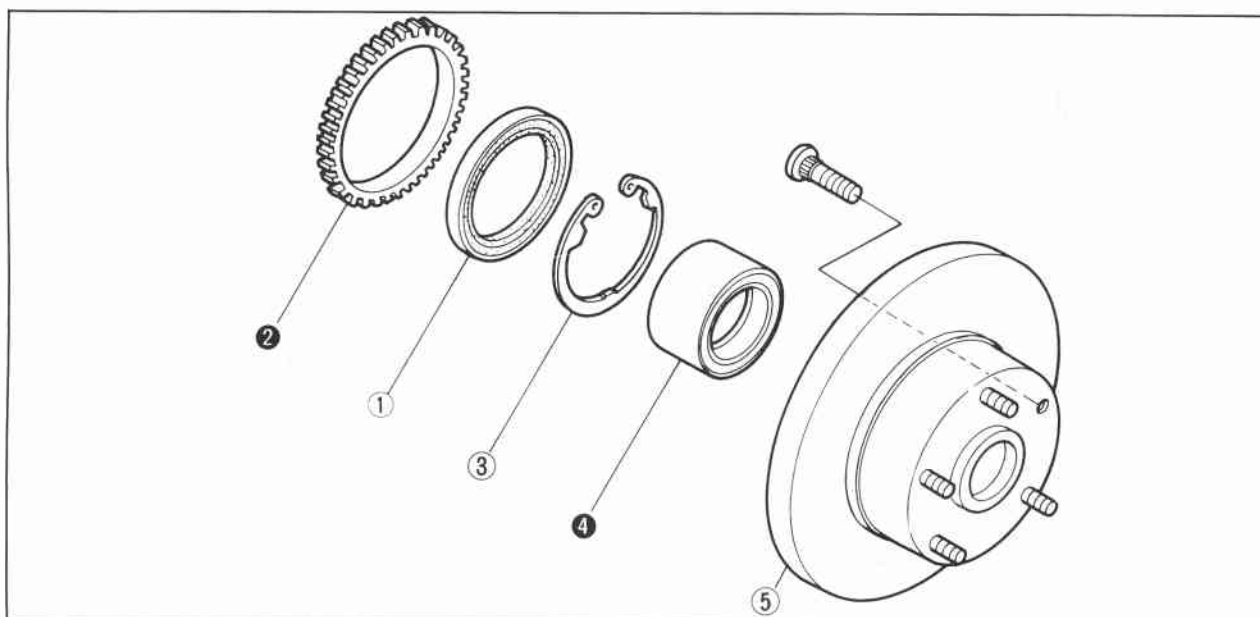
Removal Note Tie-rod end

Remove the tie-rod end from the knuckle spindle with the **SST**.

86U09X-041

DISASSEMBLY

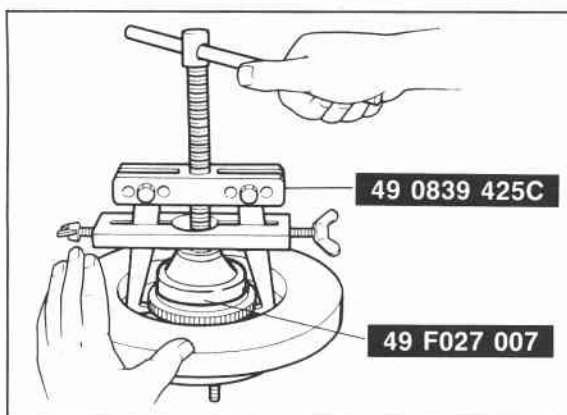
Disassemble in the sequence shown in the figure referring to the disassembly note for the specially marked parts.



86U09X-042

1. Oil seal
2. Sensor rotor (ABS)
3. Retaining ring

4. Rear wheel bearing
5. Disc plate



86U09X-087

Disassembly Note

Note

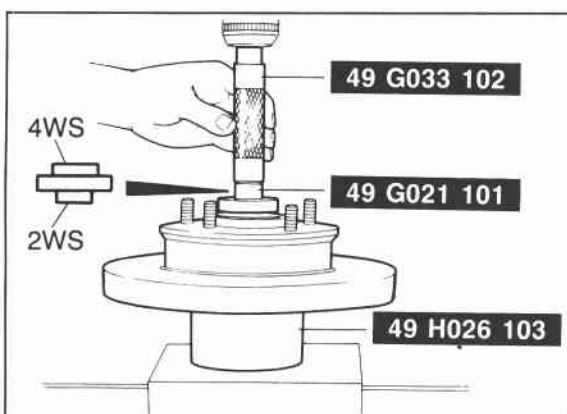
- a) Do not remove the hub bolts unless necessary.
- b) Do not reuse the hub bolts if removed.

Sensor rotor (ABS)

Remove the sensor rotor with the SST.

Note

- a) Do not remove the sensor rotor unless necessary.
- b) Do not reuse the sensor rotor if removed.



86U09X-085

Rear wheel bearing

Remove the rear wheel bearing with the SST.

Note

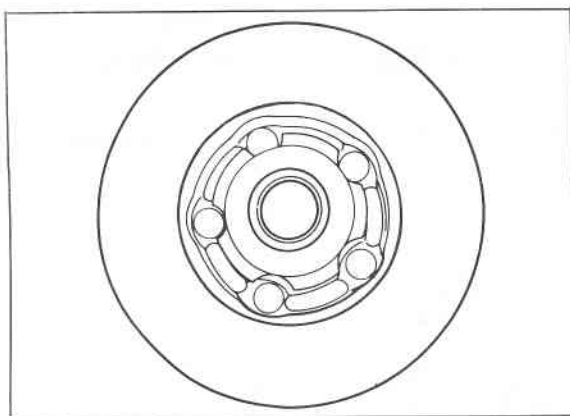
- Do not reuse the rear wheel bearing if removed.

9 REAR AXLE

INSPECTION

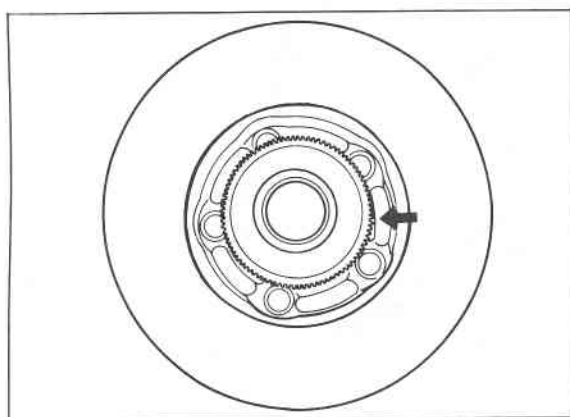
Check as described below, replace parts if necessary.

1. Check the hub for cracks or damage.



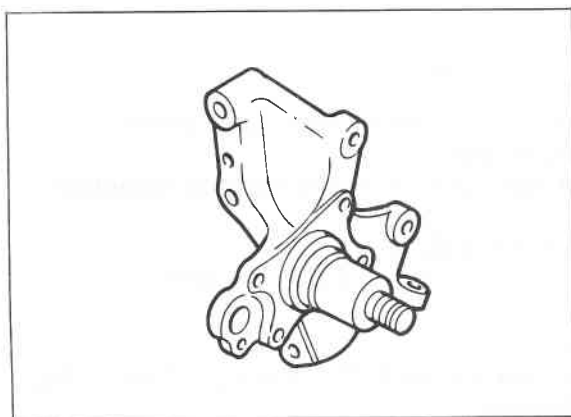
69G09X-028

2. Check the sensor rotor for cracks or damage.



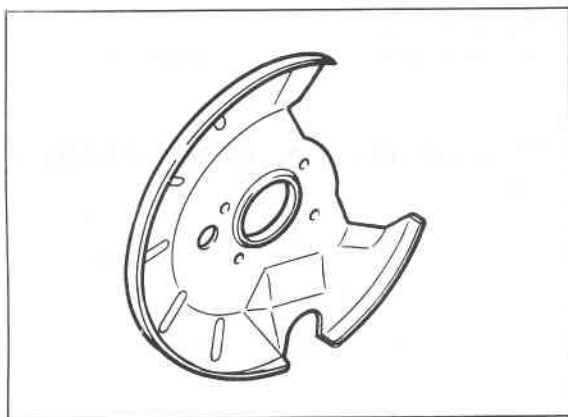
69G09X-029

3. Check the knuckle spindle for cracks or damage, and the oil seal friction surface for wear or rust.

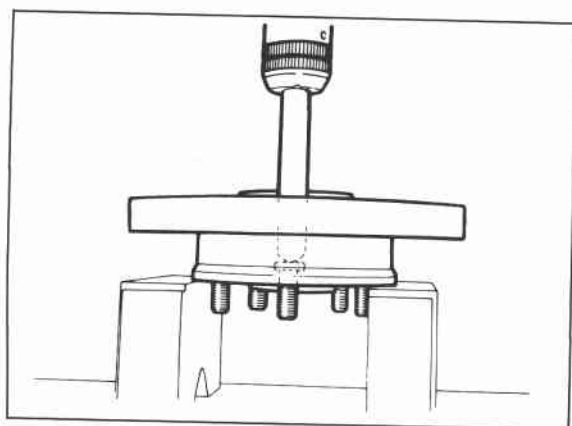


86U09X-043

4. Check the dust cover for damage.
5. Check the hub cap for damage.



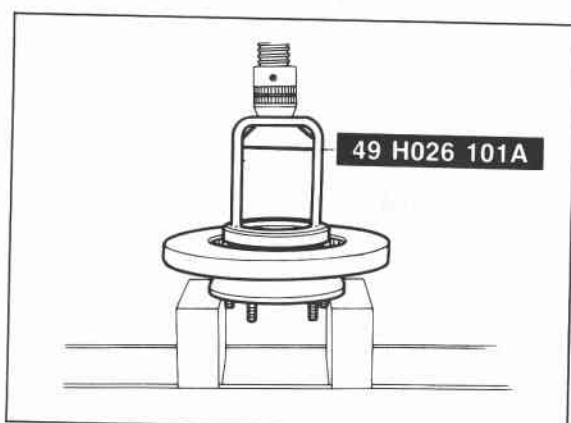
69G09X-031



86U09X-045

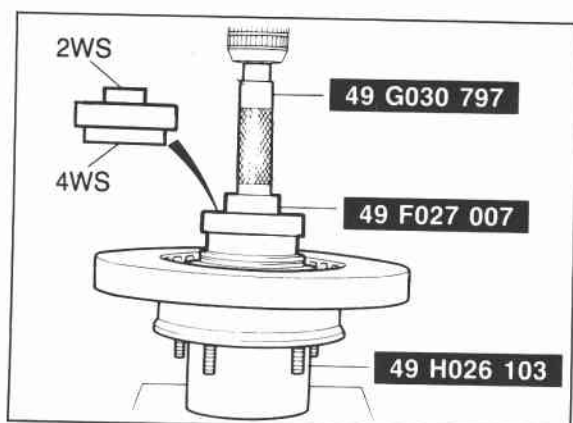
ASSEMBLY

1. Install new hub bolts.



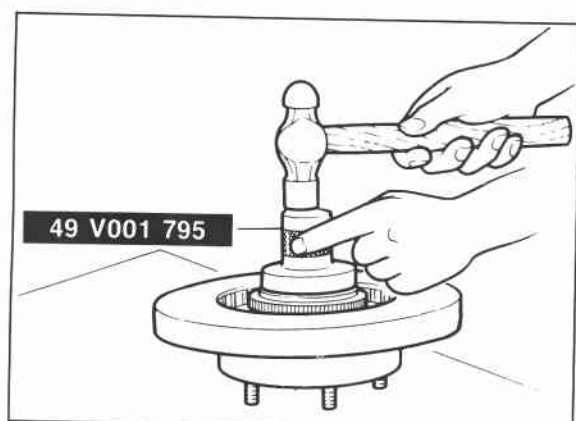
86U09X-046

2. Install a new sensor rotor with the **SST**. (ABS)



86U09X-047

3. Install a new rear wheel bearing with the **SST**.
4. Install the retaining ring.



86U09X-048

5. Install a new oil seal with the **SST**.

Note

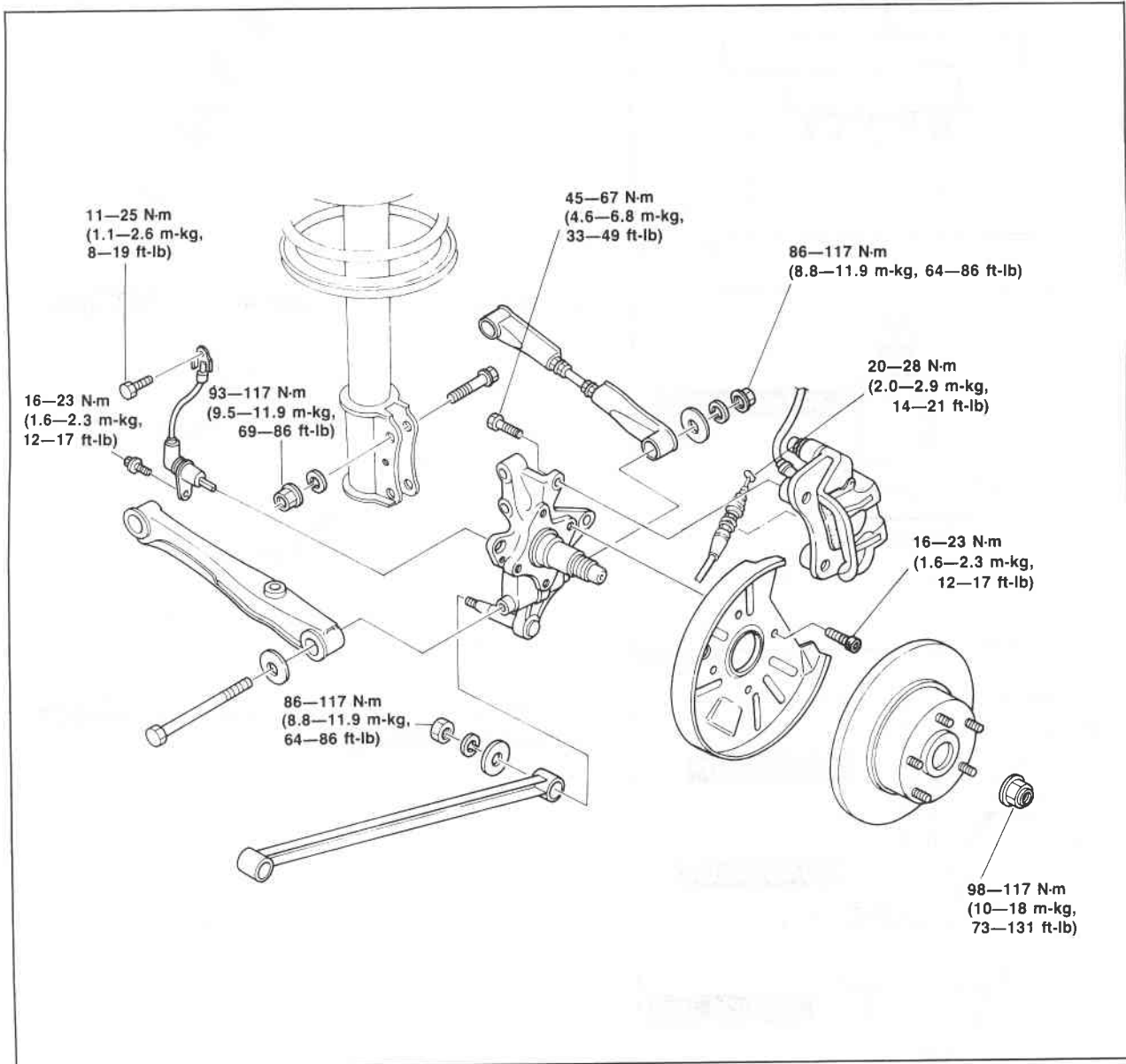
Apply grease to the oil seal lip.

9 REAR AXLE

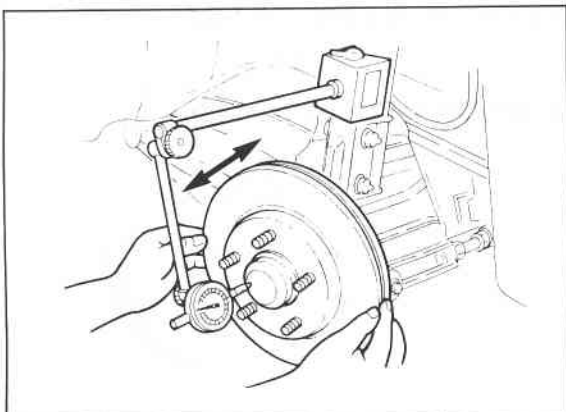
INSTALLATION (2WS)

Install in the reverse order of removal.

Torque Specifications



86U09X-049



86U09X-050

Installation Note

End play

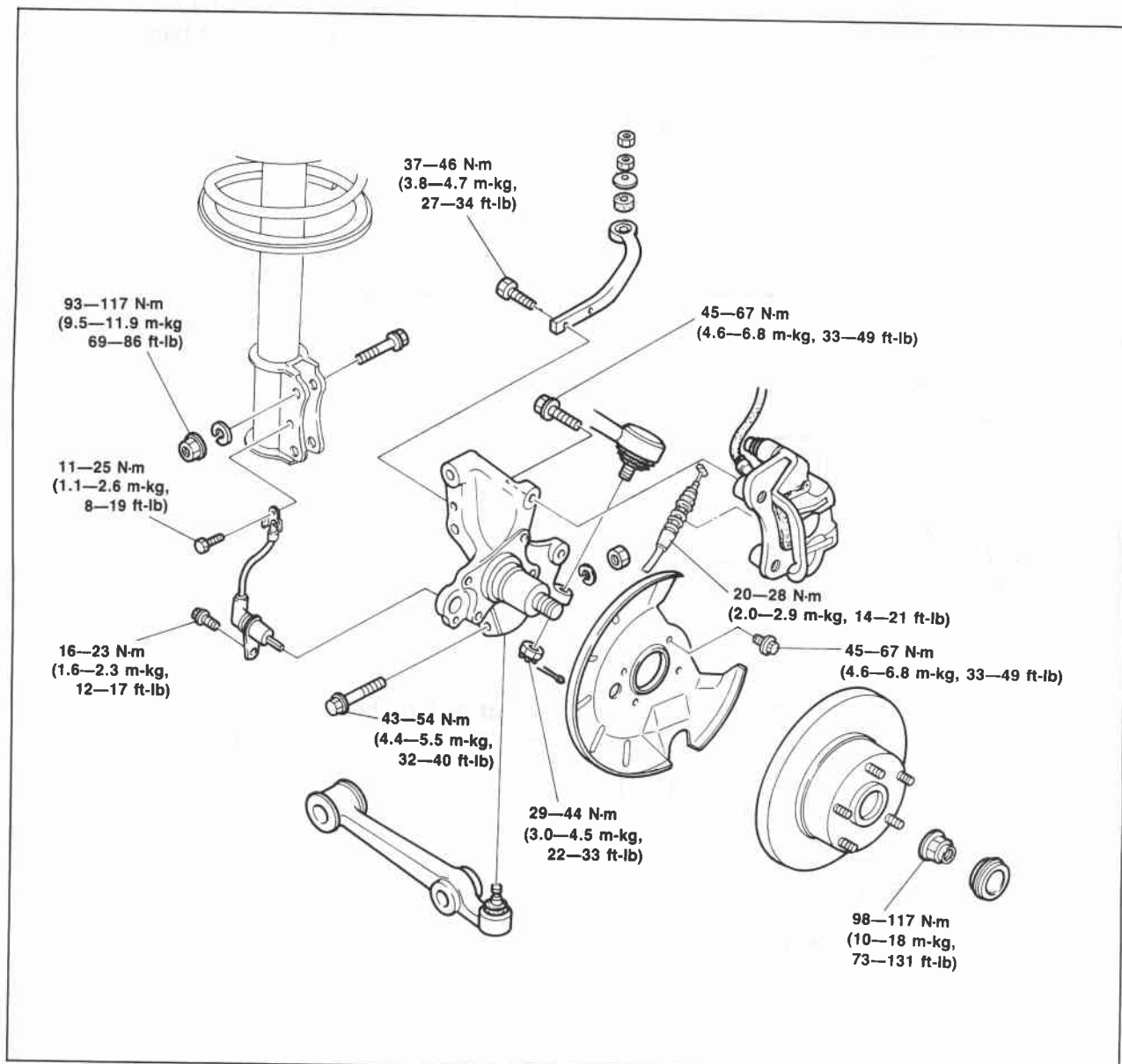
Measure the end play. (Refer to page 9—16)

End play: 0.2 mm (0.0079 in) max.

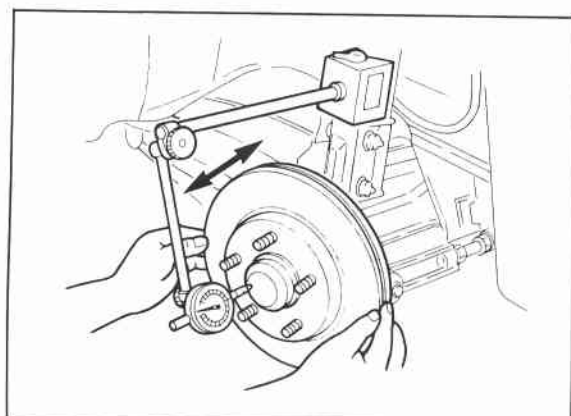
INSTALLATION (4WS)

Install in the reverse order of removal.

Torque Specifications



86U09X-051



86U09X-052

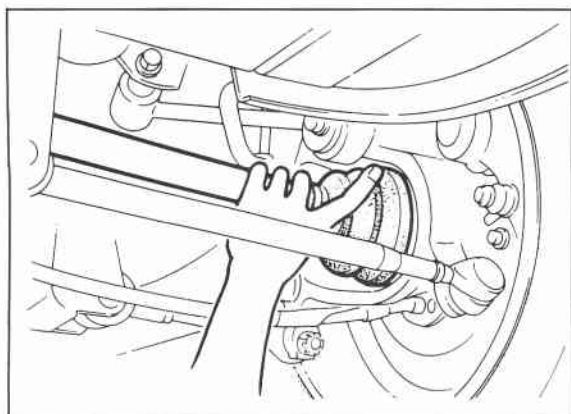
Installation Note

End play

Measure the end play. (Refer to page 9—16)

End play: 0.2 mm (0.0079 in) max.

9 DRIVESHAFT



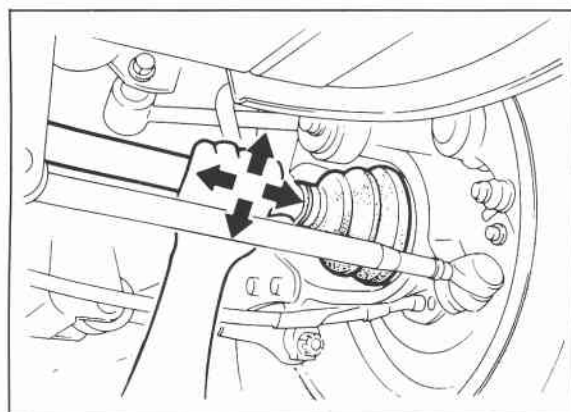
86U09X-088

DRIVESHAFT

ON-VEHICLE MAINTENANCE

Boot

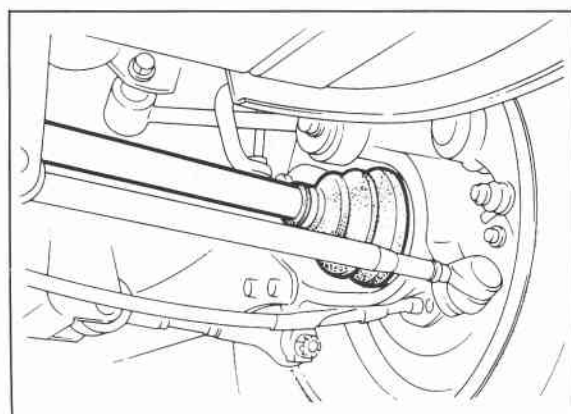
Check the boots on the driveshaft for cracks, damage, grease leakage or loose boot bands. Replace if necessary.



86U09X-089

Spline Looseness

Turn the driveshaft by hand and check that the spline and joint are not excessively loose. Replace if necessary.



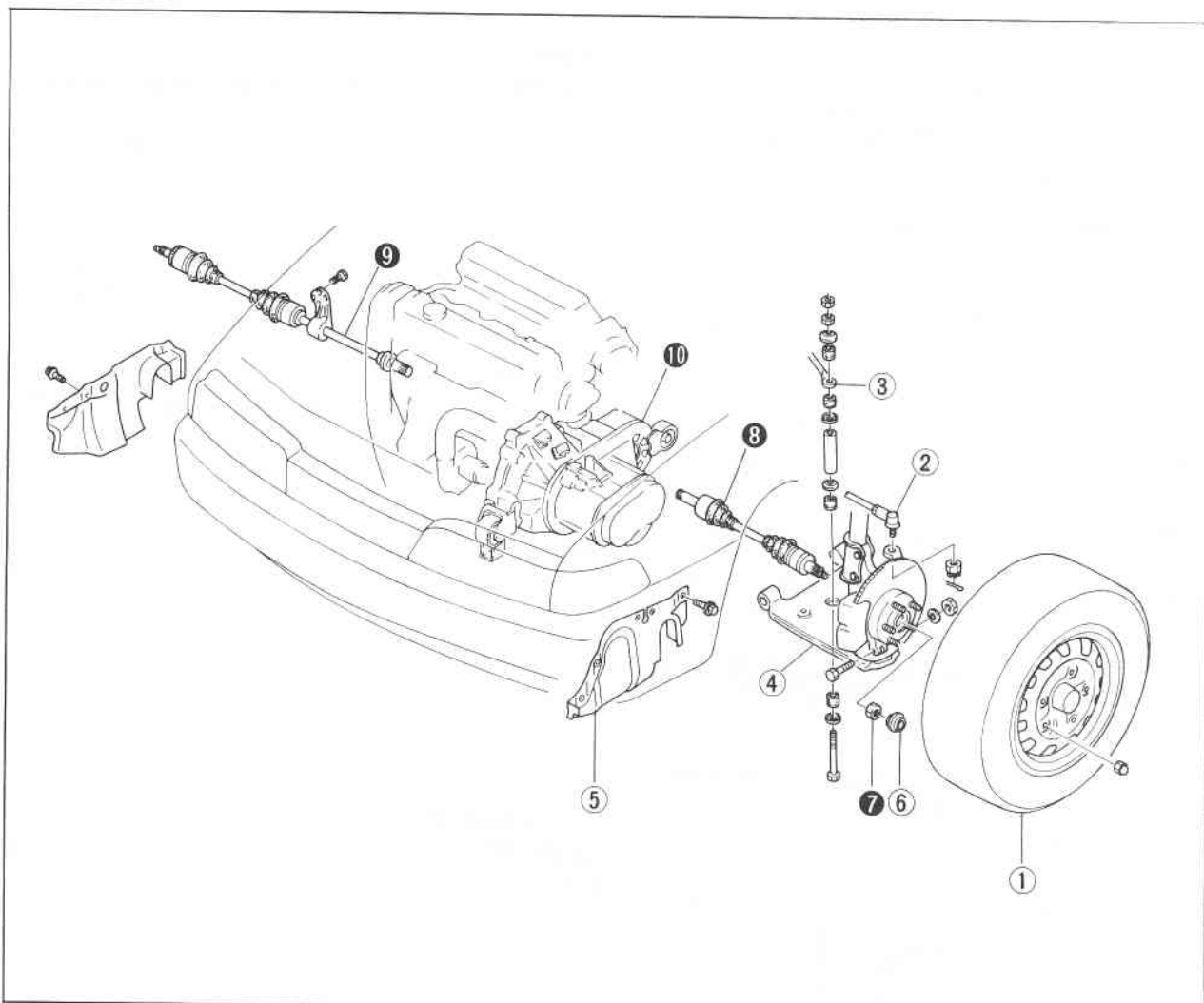
86U09X-090

Twisted or Cracked

Check that the driveshaft is not twisted or cracked. Replace if necessary.

REMOVAL

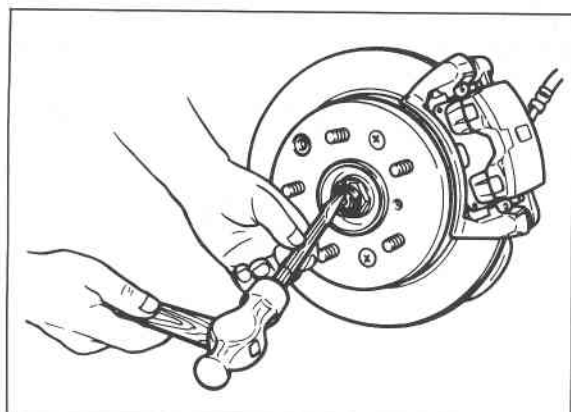
Remove in the sequence shown in the figure referring to the removal note for the specially marked parts.



86U09X-053

1. Wheel
2. Tie-rod end
3. Stabilizer
4. Lower arm
5. Splash shield

6. Hub cap
7. Lock nut
8. Driveshaft
9. Joint shaft
10. Transaxle

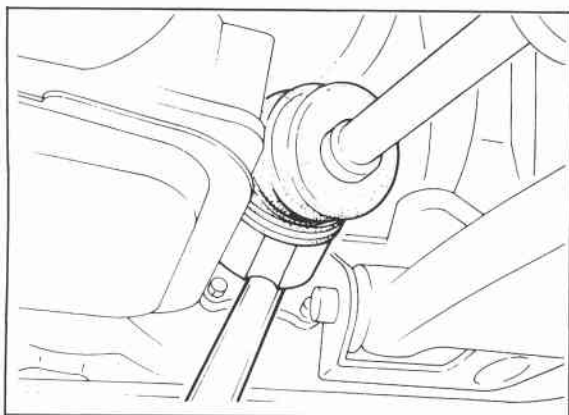


86U09X-054

Removal Note Lock nut

Applying the brakes. Raise the lock nut tab and loosen it. Do not remove it.

9 DRIVESHAFT



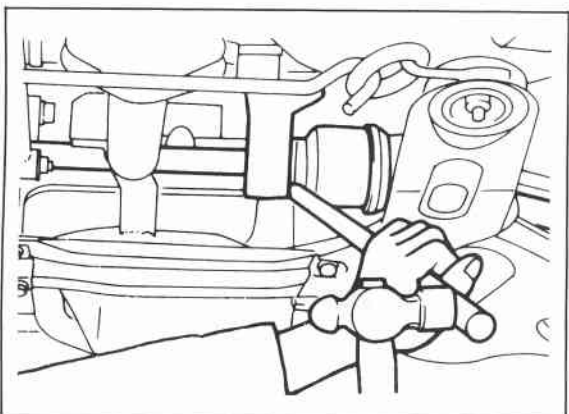
86U09X-055

Driveshaft

Disconnect the driveshaft from the transaxle with a prybar.

Note

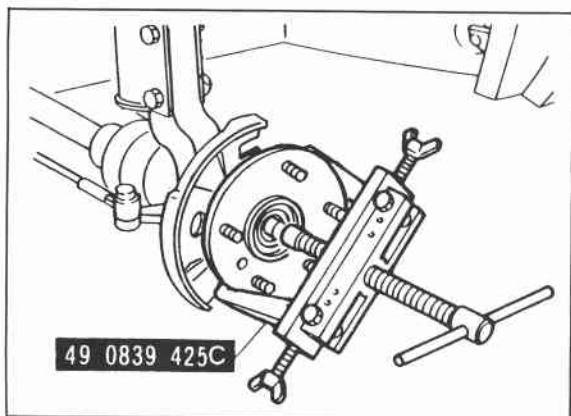
Do not damage the boot or the oil seal.



86U09X-056

Joint shaft

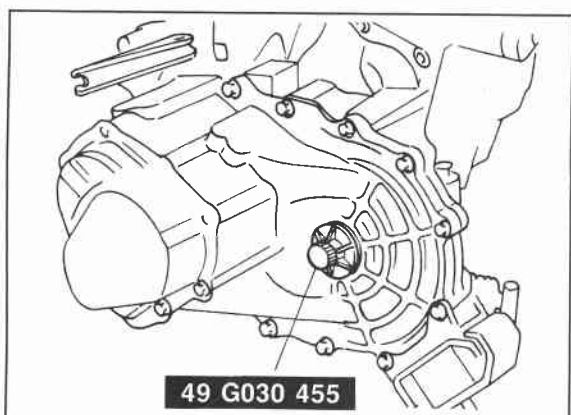
As shown in the figure, insert a pry bar between the driveshaft and the joint shaft and tap on the bar to uncouple them.



86U09X-057

Front wheel hub

Use the **SST** to push the shaft out if it is stuck in the front wheel hub.



86U09X-058

Differential

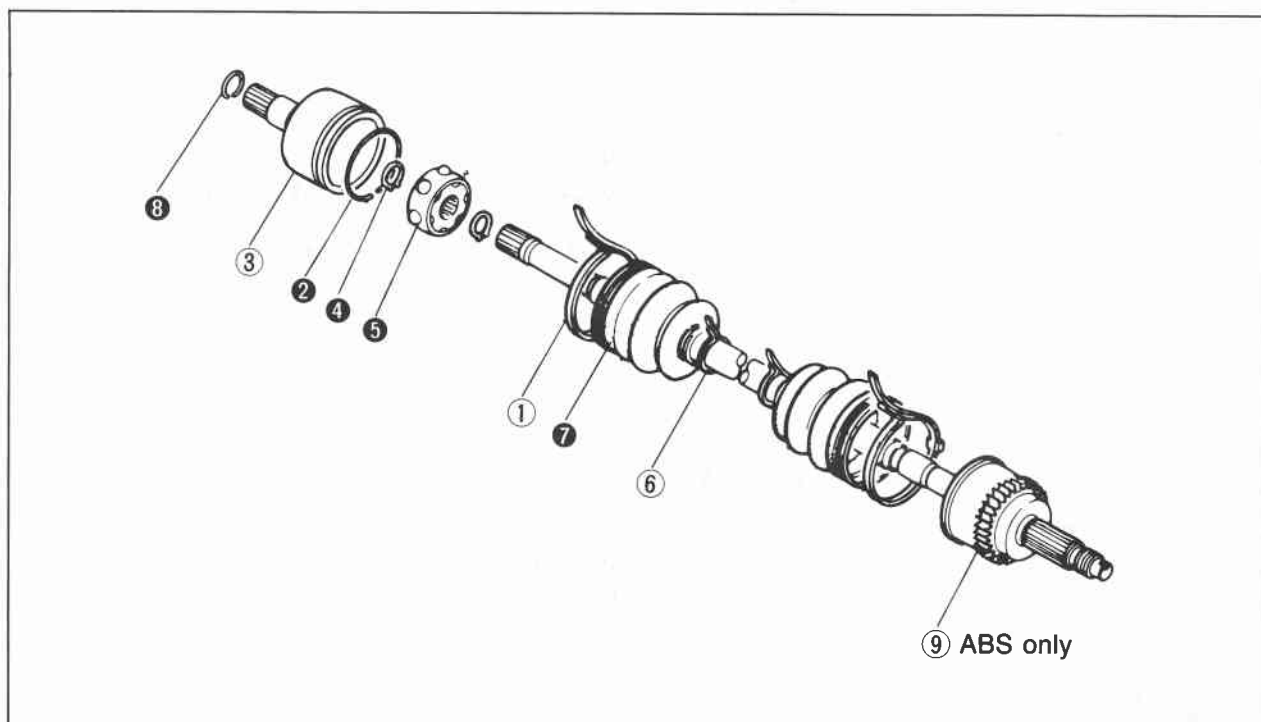
Install the **SST** to hold the side gear after removing the driveshaft.

[MTX] DISASSEMBLY

Disassemble in the sequence shown in the figure referring to the disassembly note for specially marked parts.

Note

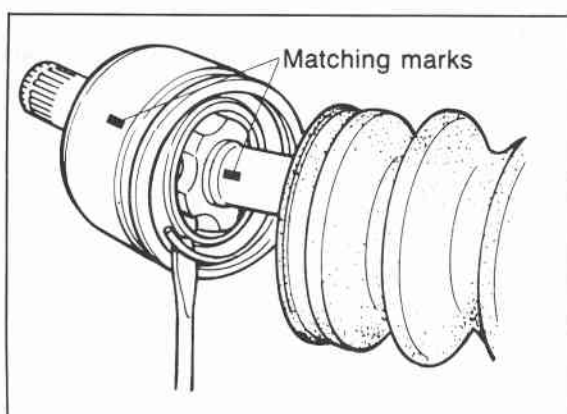
- a) Clamp the shaft in a vice. Use protectors in the vice to avoid damage.
- b) Do not allow dirt or foreign matter in the joint during disassembly or assembly.
- c) Do not disassemble the ball-joint at the wheel side. Do not wipe the grease off if there is no problem.
- d) Do not remove the clip used to secure the outer ring to the ball-joint at the differential side if there is no problem.
If the clip is removed, replace it with a new one.



86U09X-059

- 1. Boot band
- 2. Clip
- 3. Outer ring
- 4. Snap ring

- 5. Ball joint
- 6. Boot band
- 7. Boot
- 8. Clip
- 9. Sensor rotor (Refer to Section 11)



86U09X-091

Clip

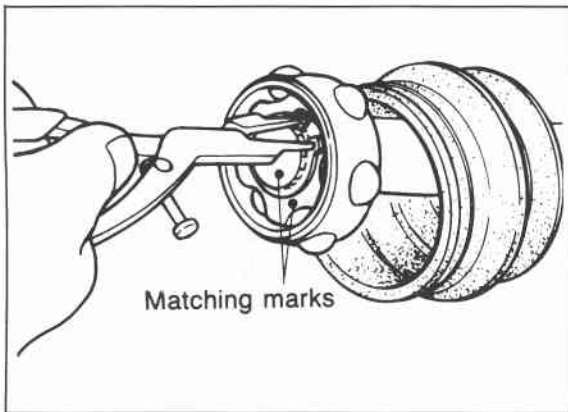
- 1. Make matching marks on the driveshaft and outer ring for proper reassembly.

Note

Mark with paint, do not use a punch.

- 2. Remove the clip.

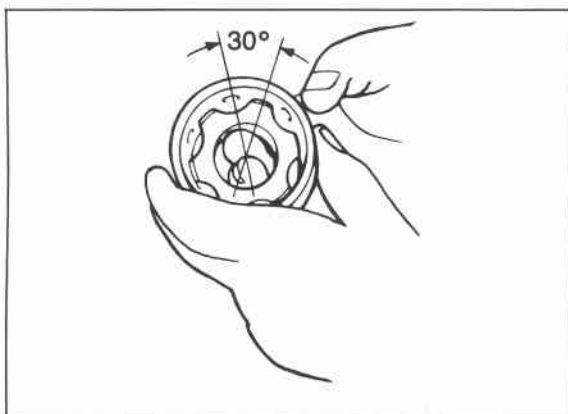
9 DRIVESHAFT



86U09X-092

Snap ring

1. Make matching marks on the driveshaft end and inner ring.
2. Remove the snap ring using snap ring pliers.



86U09X-060

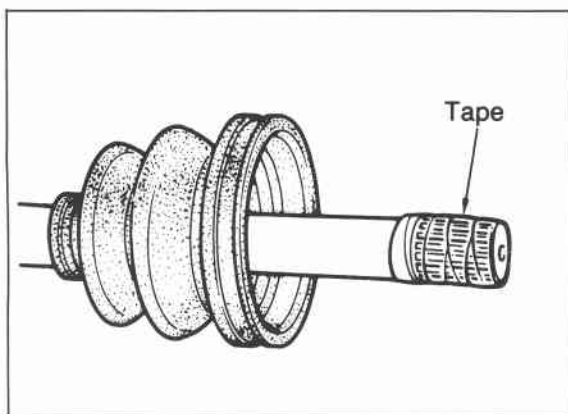
Balls, inner ring and cage

1. Make matching marks on the inner ring and cage.

Note

Mark with paint, do not use a punch.

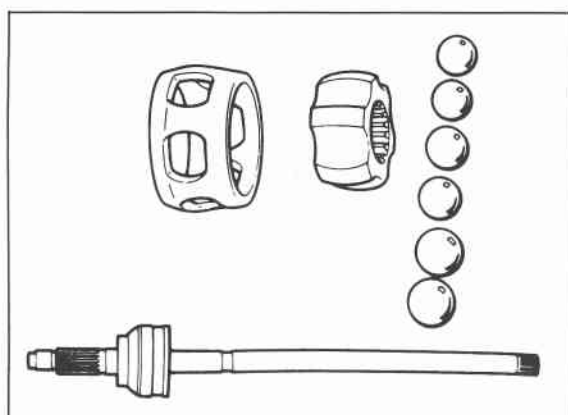
2. Turn the cage approximately 30°, then pull it away from the inner ring.



69G09X-120

Boot

1. Wrap the shaft splines with tape.
2. Remove the boot.

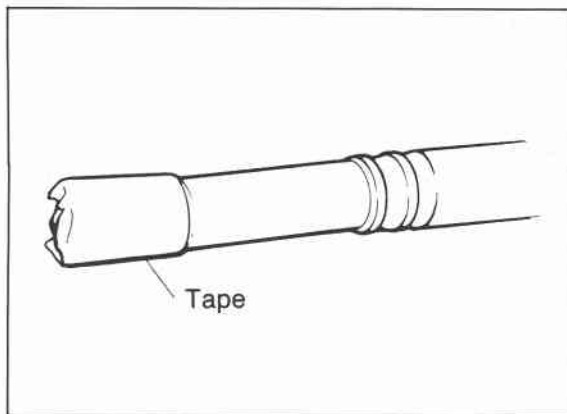


86U09X-061

INSPECTION

Wash the parts. Check and replace all damaged parts.

1. Twisted, bent, or damaged shaft.
2. Worn or scored splines.
3. Worn, rusted, or damaged outer ring.

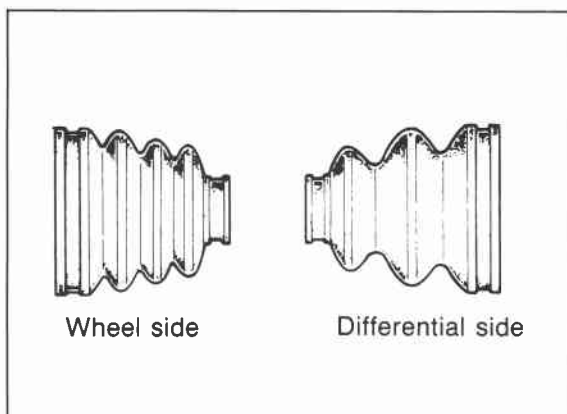


86U09X-093

ASSEMBLY

Boot

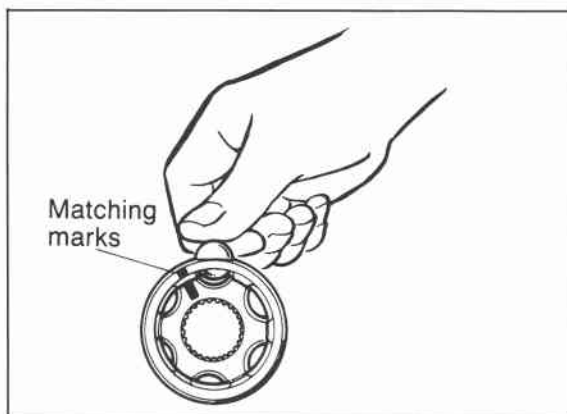
Wrap the shaft splines with tape before installing the boot.



86U09X-062

Note

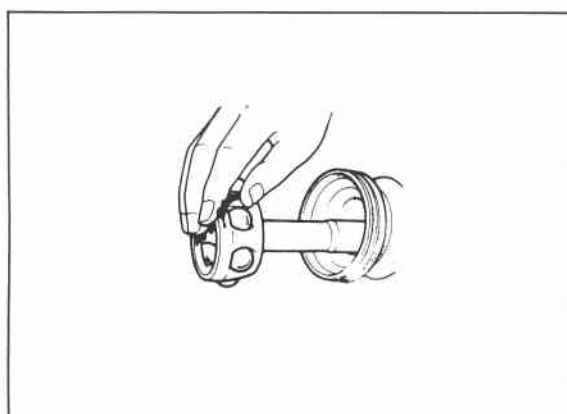
- a) The wheel side and differential side boots are different as shown in the figure.
- b) Fill the inside of the ball joint with the specified grease included in the kit.
- c) Securely fit the boot to the shaft and the outer race boot grooves.



86U09X-094

Balls, inner ring and cage

1. Align the matching marks and install the balls.



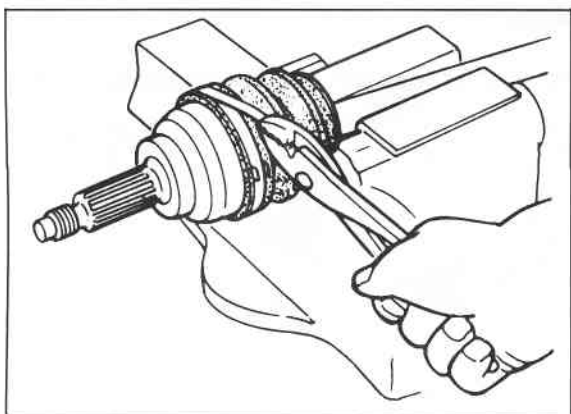
86U09X-095

2. Apply molybdenum disulfide grease to the joint.

Note

Do not use other than specified grease.

9 DRIVESHAFT



86U09X-096

Boot Band

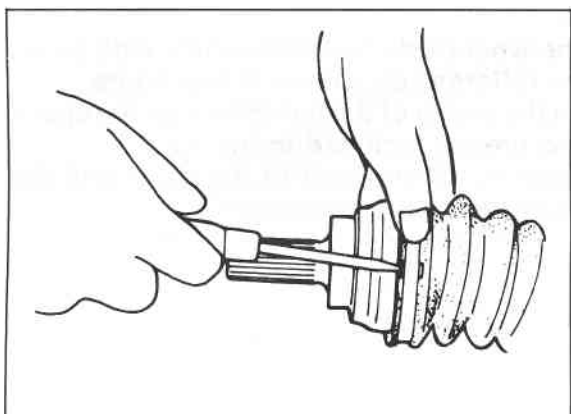
Tighten the boot band.

Note

a) Use a new band.

b) Fold the band in the direction opposite the forward rotation of the driveshaft.

1. Fold the band back by pulling on the end of the band.

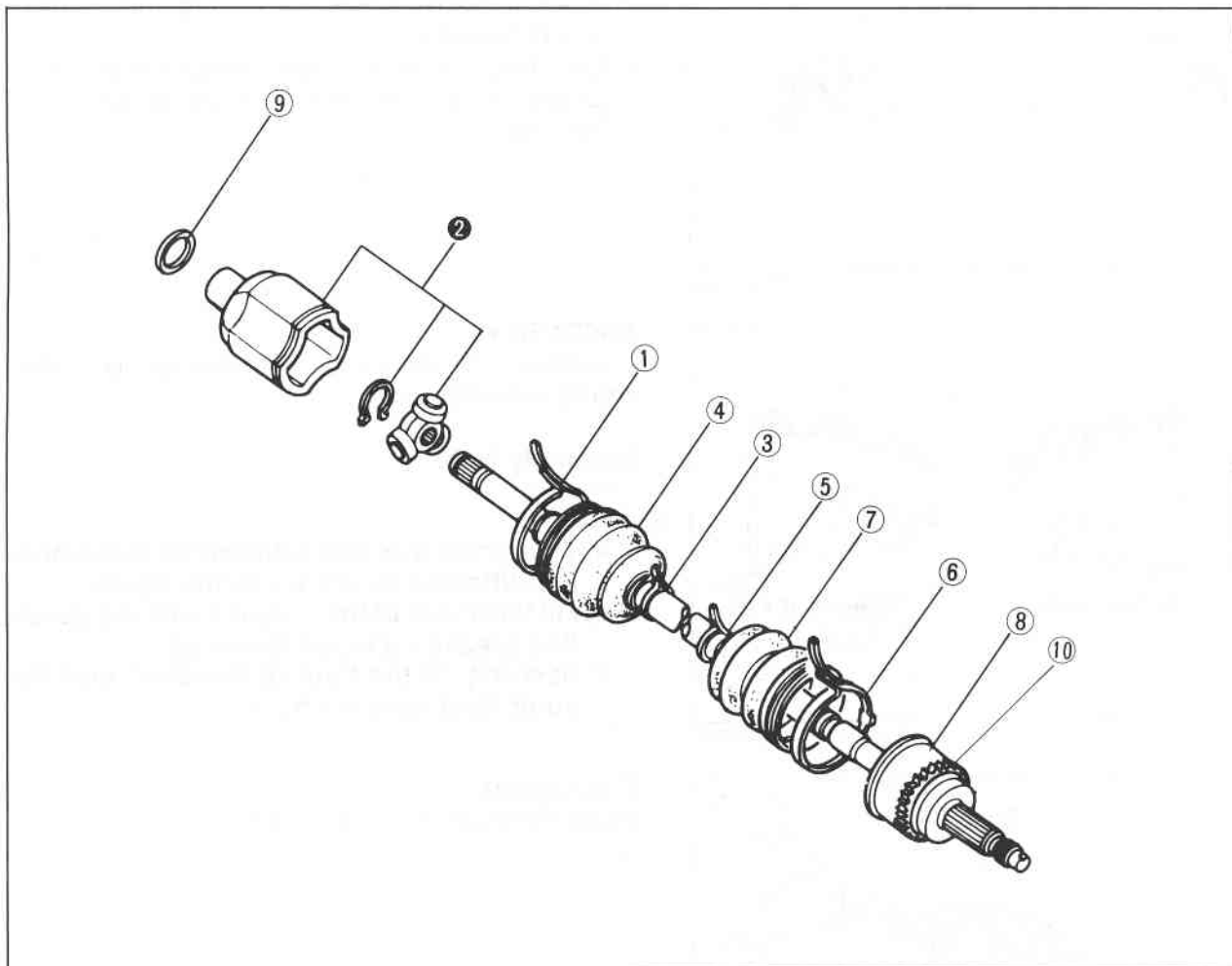


86U09X-097

2. Bend the locking clip to lock the end of the band.

[ATX] DISASSEMBLY

Disassemble in the sequence shown in the figure referring to the disassembly note for the specially marked parts.

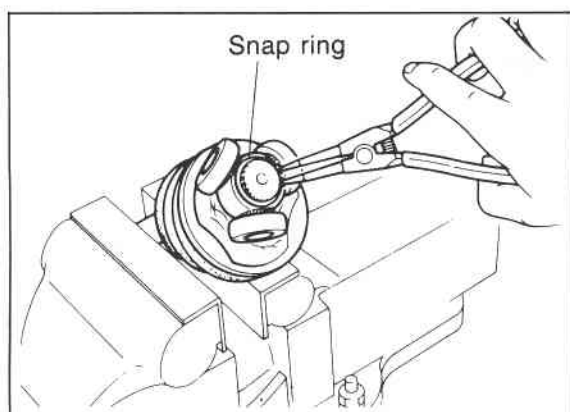


86U09X-064

- 1. Boot band
- 2. Tripod joint assembly
- 3. Boot band
- 4. Boot
- 5. Boot band

- 6. Boot band
- 7. Boot
- 8. Shaft and ball-joint assembly

- 9. Clip
- 10. Sensor rotor (Refer to Section 11)

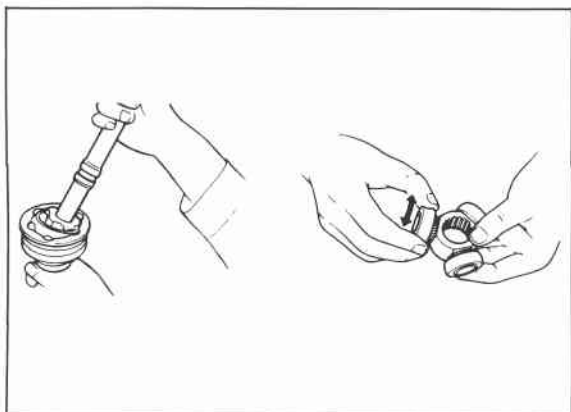


86U09X-065

Disassembly Note Tripod joint assembly

1. Remove the snap ring using snap ring pliers, then remove the tripod joint bearing.
2. Disassemble the joint shaft assembly.

9 DRIVESHAFT

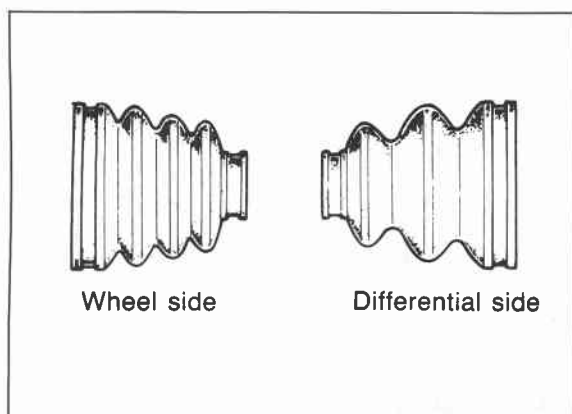


86U09X-066

INSPECTION

Check and replace any faulty parts.

1. Twisted, bent, or damaged shaft.
2. Wear or scoring of splines.
3. Wear, excessive looseness, seizure, rust, or damage of bearing.
4. Checking, damage, or deterioration of boots.
5. Excessive play or heat damage of joint shaft bearing.



86U09X-067

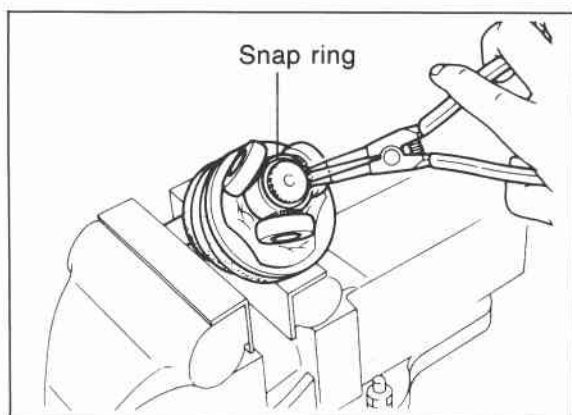
ASSEMBLY

Assemble in the reverse order of disassembly, referring to assembly note.

Assembly Note

Note

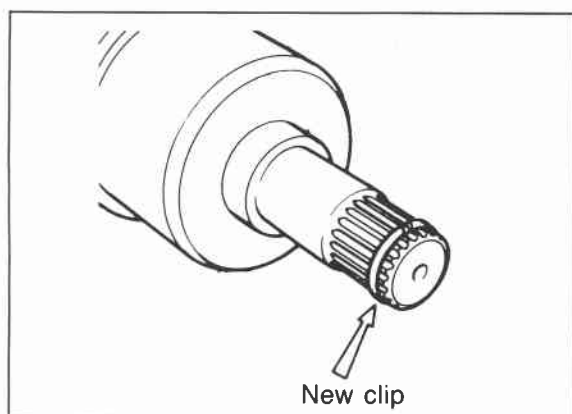
- a) The wheel side and differential side boots are different as shown in the figure.
- b) Fill the inside of the ball joint with the specified grease included in the kit.
- c) Securely fit the boot to the shaft and the outer race boot grooves.



86U09X-068

Tripod joint

Install the snap ring to the joint.



86U09X-069

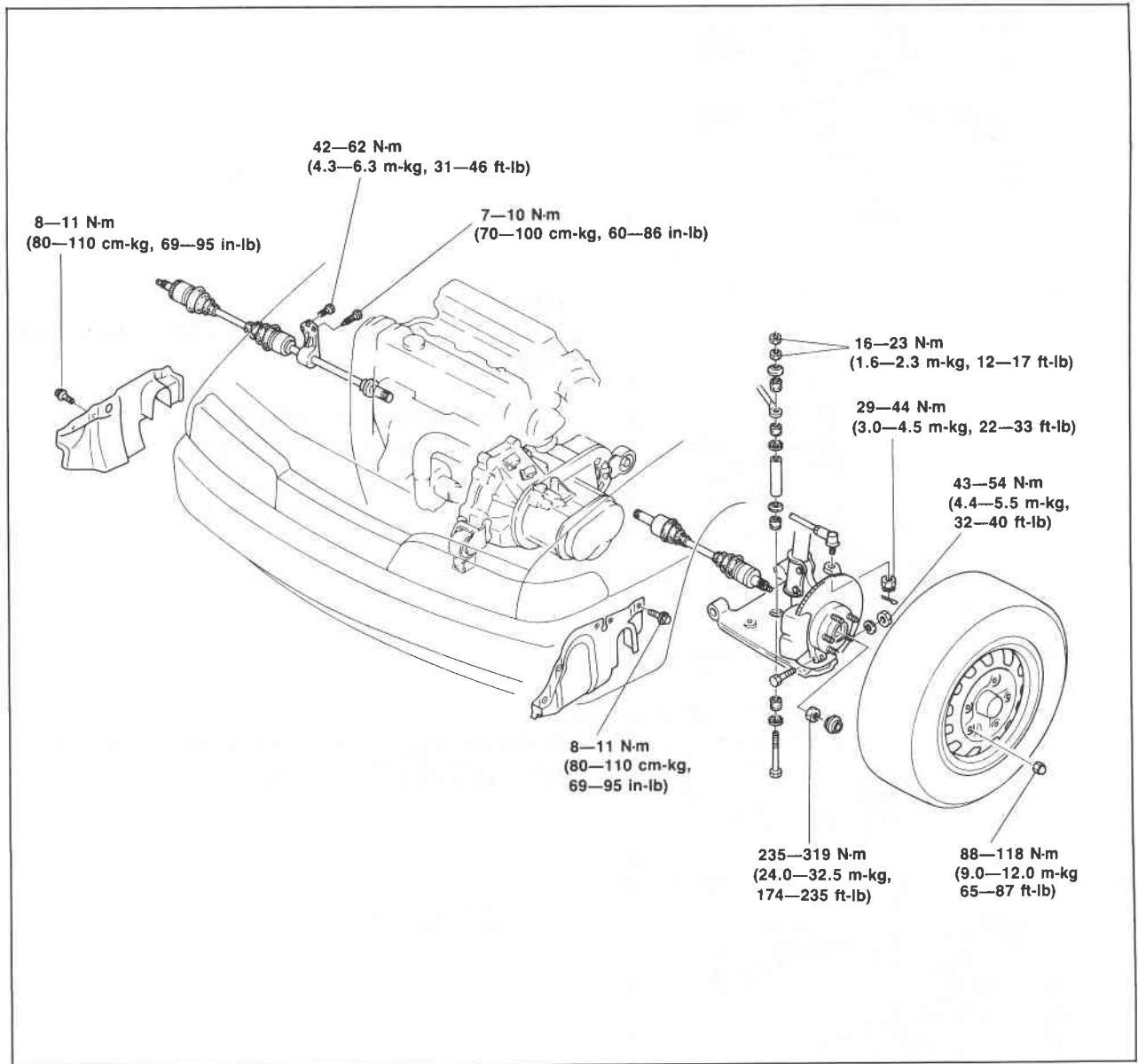
Clip

Install a new clip.

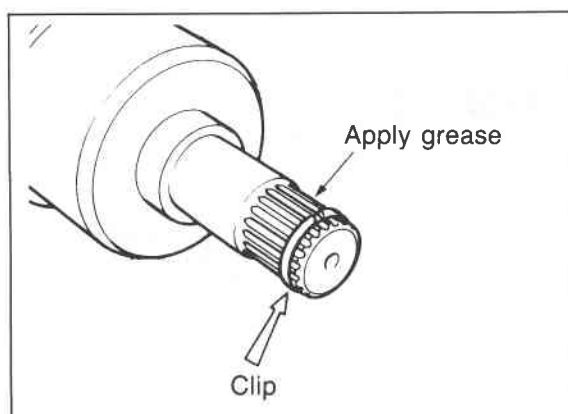
INSTALLATION

Install in the reverse order of removal referring to the installation note.

Torque specifications



86U09X-070



86U09X-071

Installation Note

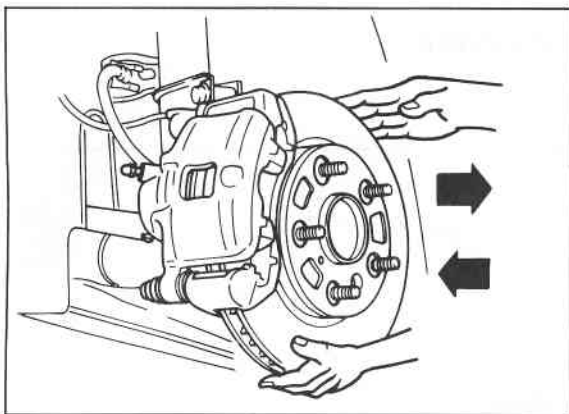
Clip

Install a new clip.

Note

- a) Before installing the shaft, check the trans-axle oil seal for damage.
- b) Apply transaxle oil to the oil seal lip.

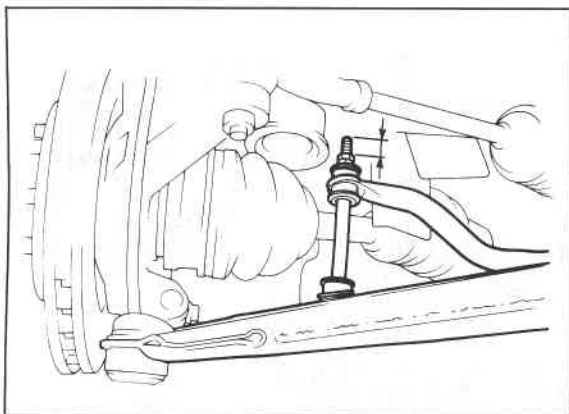
9 DRIVESHAFT



86U09X-072

Front wheel hub

After installation, pull the front wheel hub outward and check that the driveshaft does not come out.

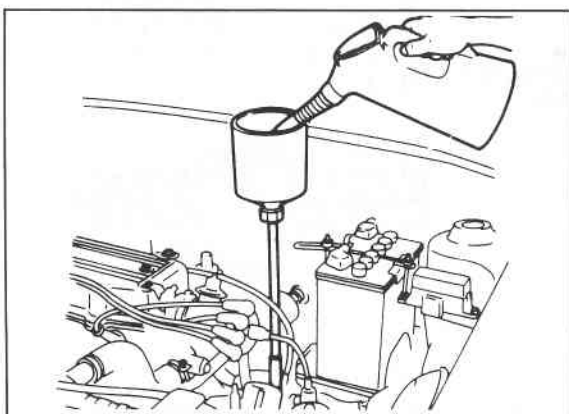


86U09X-073

Stabilizer

Lock the nut with **20.1 mm (0.79 in)** of the threads exposed.

**Tightening torque: 16—23 N·m
(1.6—2.3 m·kg, 12—17 ft·lb)**



76G09X-004

Oil

Add the specified grade and quantity of transaxle oil.
(Refer to Section 7A, 7B, 7C)

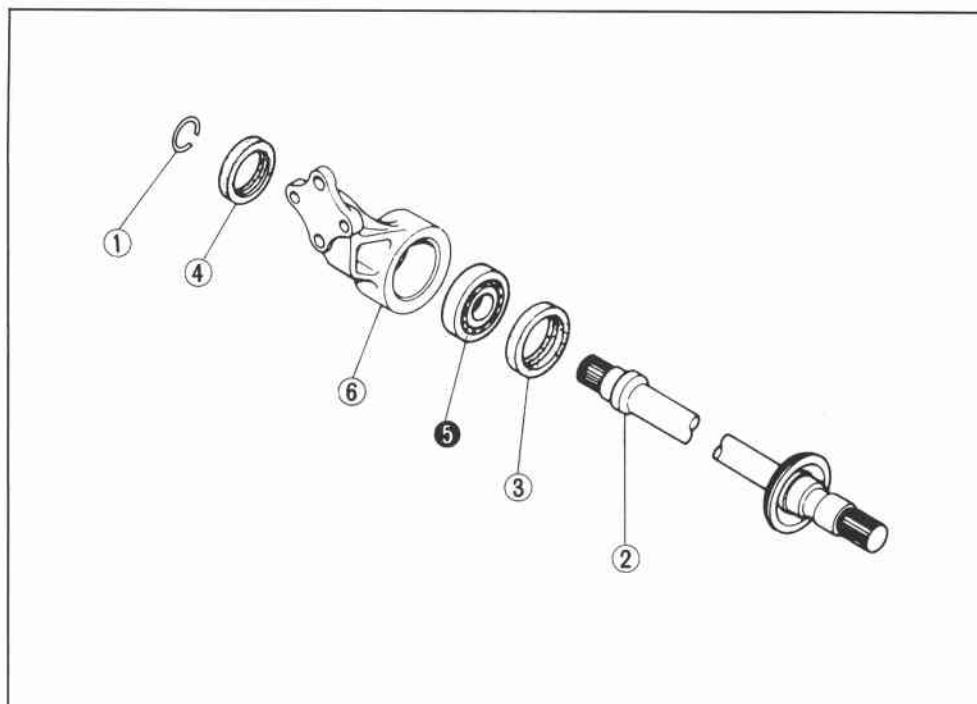
JOINT SHAFT

Disassembly and Assembly

Disassemble in the sequence shown in the figure.

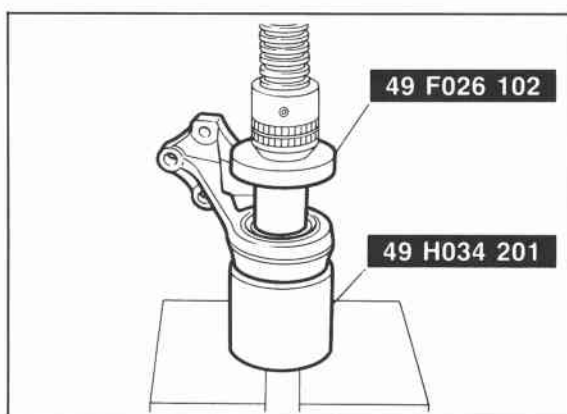
Assembly in the reverse order of disassembly.

Referring to the notes for the specially marked parts.



1. Clip
2. Joint shaft
3. Oil seal
4. Oil seal
5. Bearing
6. Bracket

76G09X-005



86U09X-076

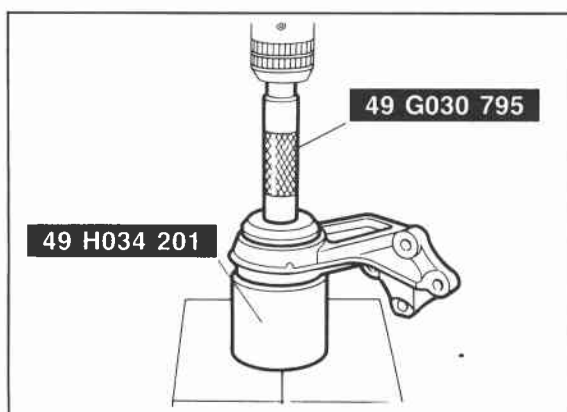
Disassembly Note

Bearing

Remove the shaft and bearing with the **SST** and press.

Caution

Hold the shaft and the bearing by hand does not drop.



86U09X-077

Assembly Note

Bearing

1. Install the shaft and a new bearing with the **SST** and press.
2. Install new oil seals.
3. Install a new clip.