

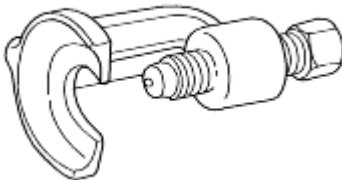

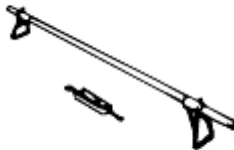
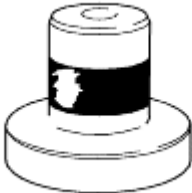
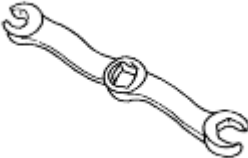



# **Driveshaft and Axle**

General Information

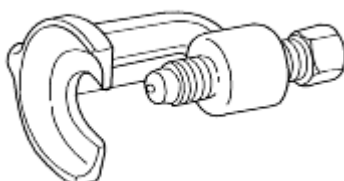
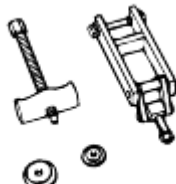
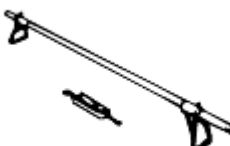



## Special service tools

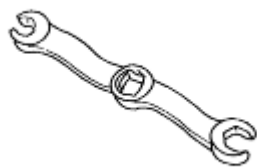
Tool (Number and Name)	Illustration	Use
OK130 283 021 Ball joint puller		Used to remove ball joint.
OK930 331AA0 Wheel hub puller		Used to remove wheel hub.
09517-43001 Engine support		Used to support engine when transaxle removal.
OK993 331 016 Oil seal installer		Used to install oil seal.
OK130 430 019 Flare nut wrench		Used to remove and install brake pipe.

0K410 111 012 Bearing puller		Used to remove bearing.
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0K130 430 019  
Flare nut wrench

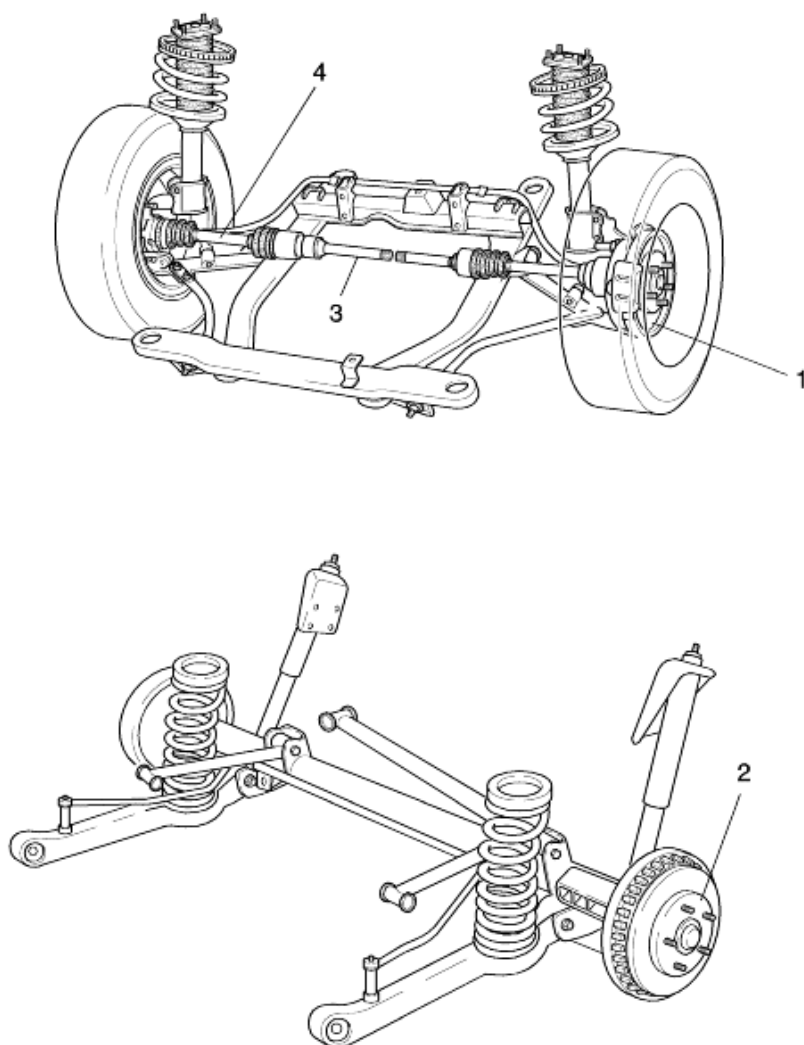


Used to remove and install brake pipe.

0K410 111 012  
Bearing puller



Used to remove bearing.

**Component**

- 1. Front axle
- 2. Rear axle

- 3. Joint shaft
- 4. Driveshaft



## Symptom-related diagnostic procedure

### Front axle

Problem	Possible cause	Action
Steering wheel vibration	Excessive wheel bearing play	Adjust or replace
	Damaged or worn wheel bearing	Replace
Pulling to one side	Excessive wheel bearing play	Adjust or replace
	Damaged or worn wheel bearing	Replace
	Bent steering linkage	Repair or replace
	Improper tire pressure	Adjust or replace
	Incorrect toe adjustment	Adjust
	Brake dragging	Repair or replace
	Fatigued front coil spring	Replace
	Bent front suspension lower arm or loose mounting	Repair or replace
Excessive steering wheel play	Loose front wheel bearing	Adjust or replace
	Incorrect steering gear preload adjustment	Adjust
	Steering gear worn	Repair or replace
	Steering column shaft worn or damaged	Repair or replace
	Front suspension lower arm mounting bolt bushing worn or damaged	Repair or replace
Linkage	Damaged or worn wheel bearing	Replace
	Insufficient grease on knuckle or joint of jointshaft	Lubricate or replace
	Bending of joint shaft or drive shaft	Replace
	Worn joint shaft spline or drive shaft	Replace
	Insufficient grease on joint or knuckle of drive shaft	Lubricate or replace
	Worn drive shaft	Replace
Grease leakage from boot	Damage or tear of boot	Replace
	Malfunction or misassembly of boot band	Replace
	Excessive grease	Repair
Abnormal noise from driveshaft and joint	Insufficient grease in driveshaft joint or knuckle	Lubricate or replace
	Excessive backlash on knuckle	Replace
	Worn front wheel driveshaft joint	Replace

### Rear axle

Problem	Possible cause	Action
Steering wheel vibration	Damaged or worn wheel bearing	Replace
	Excessive wheel bearing play	Adjust or replace
Pulling to one side	Damaged or worn wheel bearing	Replace
	Excessive wheel bearing play	Adjust or replace

	Improper tire pressure	Adjust or replace
	Brake dragging	Repair or replace
	Fatigued rear coil spring	Replace
Excessive wheel play	Excessive wheel bearing play	Adjust or replace
	Loose rear wheel bearing	Adjust or replace
Linkage	Damaged or worn wheel bearing	Replace
	Insufficient grease on spindle	Lubricate or replace



## Specifications

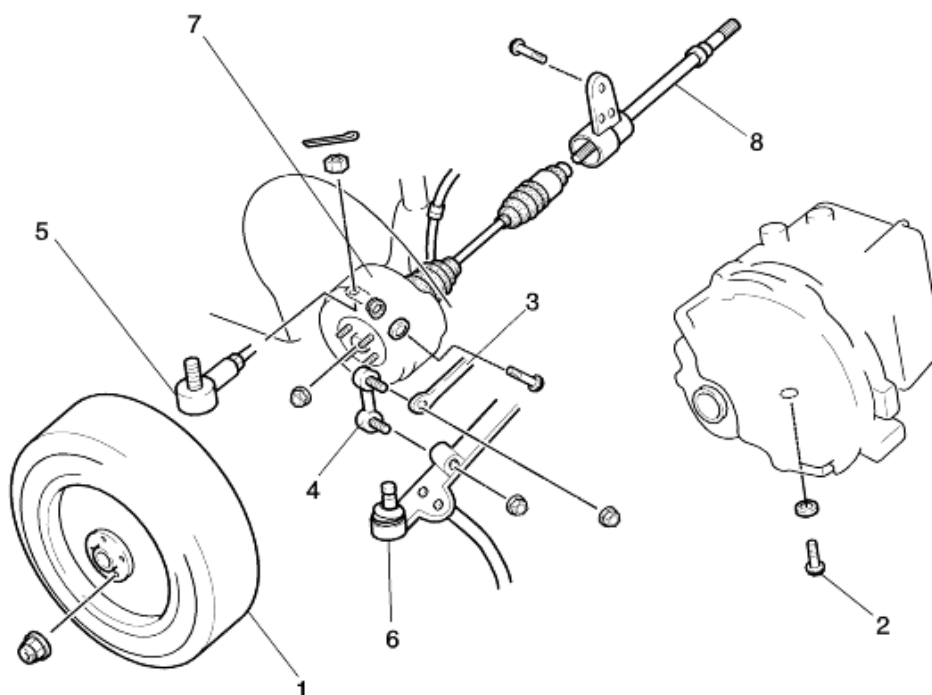
Item			Engine		GV6		J3TCI		Σ 3.5
					MT	AT	MT	AT	AT
Driveshaft	Type of joint	Inside			TSJ	TJ	TSJ	URJ II	URJ II
		Outside			Birfield ball joint				←
	Length in (mm)	Left side			29.36 (745.7)	29.25 (743)	26.46 (672.0)	25.70 (653.0)	27.51 (698.8)
		Right side			27.17 (690.2)	26.87 (682.5)	24.26 (616.2)	22.41 (569.2)	27.21 (691.2)
	Shaft diameter Øin (Ømm)	Left side			1.18 (30)	0.95 (24)	1.18 (30)	←	←
		Right side			1.18 (30)	0.95 (24)	1.18 (30)	←	←
Joint shaft	Length in (mm)				14.56 (369.7)	13.32 (338.2)	20.43 (518.9)	23.07 (585.9)	16.18 (411)
	Shaft diameter Øin (Ømm)				1.10 (28)	1.02 (26)	1.10 (28)	1.10 (28)	1.14 (29)
Front axle	in (mm)	Axis direction bearing play			0.002 (0.05)				←
Rear axle	in (mm)	Axis direction bearing play			0.002 (0.05)				←





# **Driveshaft and Axle**

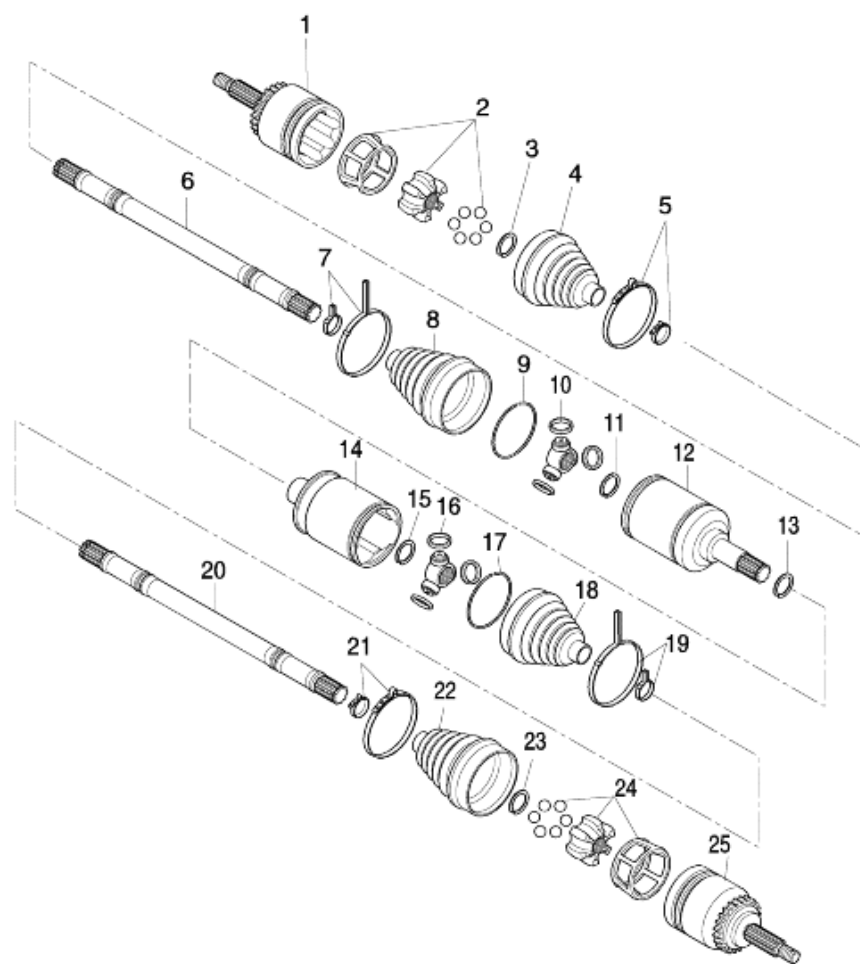
Differential Assembly - Front Driveshaft

**Component**

- 1. Wheel and tire
- 2. Drain plug
- 3. Stabilizer bar
- 4. Stabilizer control link

- 5. Tie-rod end
- 6. Lower arm ball joint
- 7. Right driveshaft and axle
- 8. Joint shaft

**Component**



#### Driveshaft(LH)

1. BJ assembly
2. BJ inner race and ball
3. Snap ring
4. BJ boot
5. BJ boot band
6. Driveshaft(LH)
7. UTJ boot band
8. UTJ boot
9. Circle pin

#### 10. Spider assembly

11. Snap ring
12. UTJ assembly
13. Circlip

#### Driveshaft(RH)

14. UTJ assembly
15. Snap ring
16. Spider assembly
17. Circle pin

#### 18. UTJ boot

19. UTJ boot band
20. Driveshaft(RH)
21. BJ boot band
22. BJ boot
23. Snap ring
24. BJ inner race and ball
25. BJ assembly



## On-vehicle services

1. Raise vehicle and support it with safety stands.
2. Check dust boots on driveshaft for cracks, damage, leaking grease, or loose boot bands.
3. Check driveshaft for a bent condition, cracks, and wear of joints or splines.
4. Repair or replace driveshaft if necessary.
5. Lower vehicle.

## Removal

### NOTICE

Drain transaxle oil before disassembly.

1. Raise vehicle and support it with safety stand.
2. Loosen and remove four wheel nuts.
3. Remove wheel and tire.
4. Loosen and remove control link nut and disconnect stabilizer bar from control link on lower control arm.

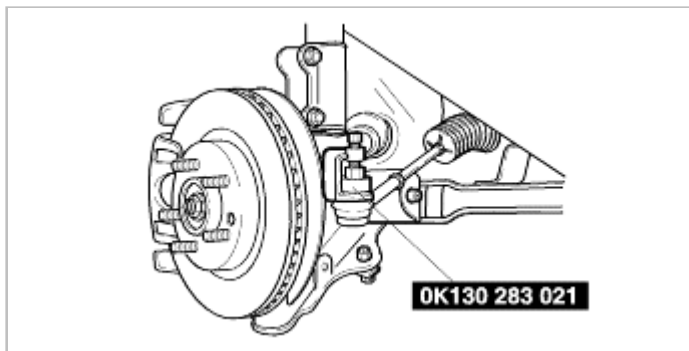
### NOTICE

Do not damage dust boot.

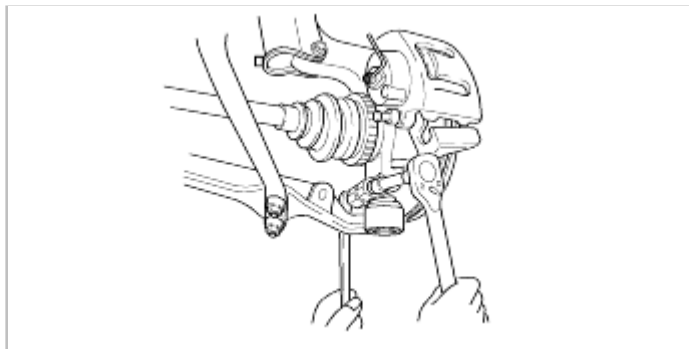
5. Loosen and remove tie rod nut and disconnect tie rod end with SST(0K130 283 021).

### NOTICE

Do not damage dust cover or oil seal.



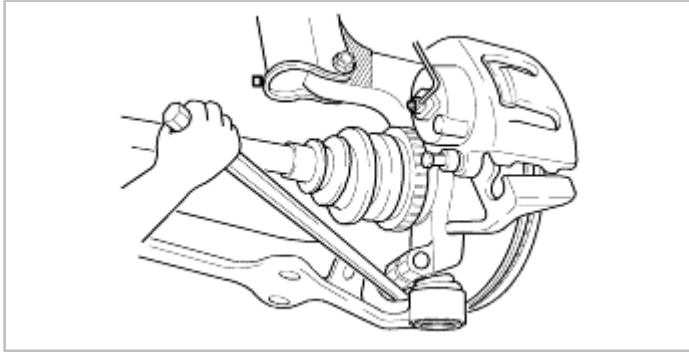
6. Remove the lower arm ball joint bolt and nut from the steering knuckle.



#### NOTICE

Use caution when separating lower arm from steering knuckle, so ball joint seal does not get cut.

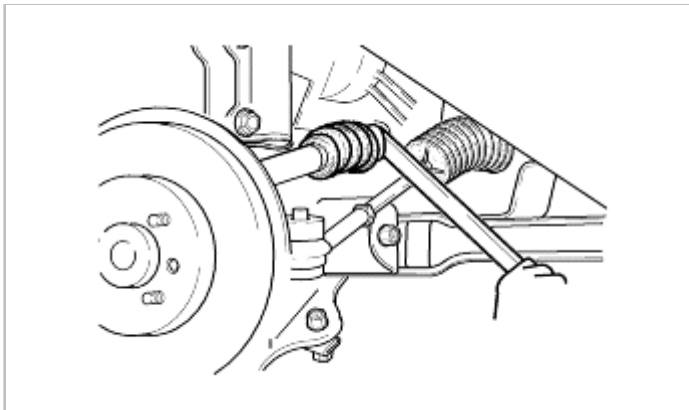
7. Using a pry bar, separating steering knuckle from lower arm.



8. Use a pry bar to separate the front wheel driveshaft from the transaxle.

#### NOTICE

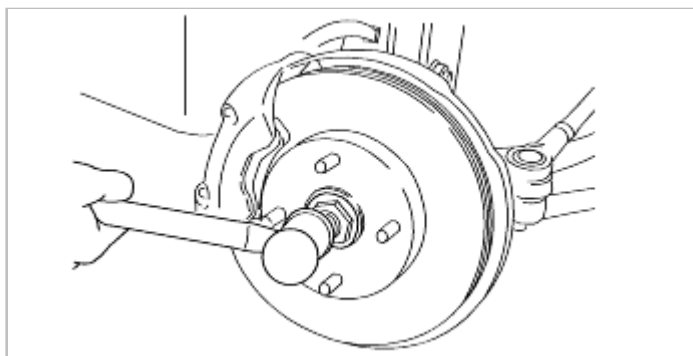
- Separate the front wheel driveshaft from transaxle gradually. If it is suddenly yanked out of transaxle, the differential oil seal may be damaged.
- Plug the transaxle case opening with oil seal cap in order to avoid contamination.



9. Remove driveshaft from front hub.

#### NOTICE

If driveshaft is frozen in front wheel hub, spray a penetrating solvent into splined area and then reinstall lock nut so that it is flush with end of shaft. Tap nut with a brass hammer to remove driveshaft. Take care not to damage the inner wheel bearing oil seal while removing the front wheel driveshaft from the front wheel hub.



10. Separate right-side driveshaft from joint shaft by hammering on a brass pry bar inserted between them.
11. Loosen and remove three joint shaft bolts and pull joint shaft straight out.

## Replacement

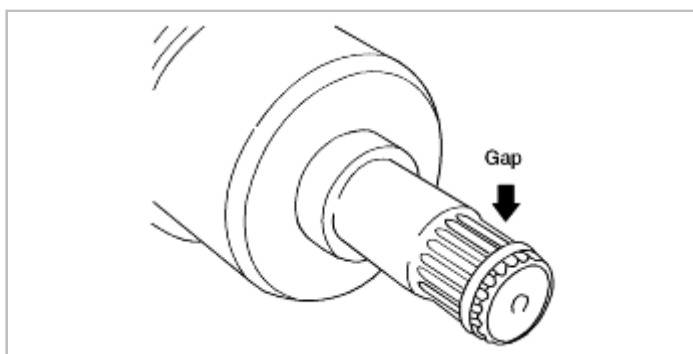
### NOTICE

Do not damage dust cover or oil seal.

1. Install left driveshaft with circular clip gap facing upward as shown.

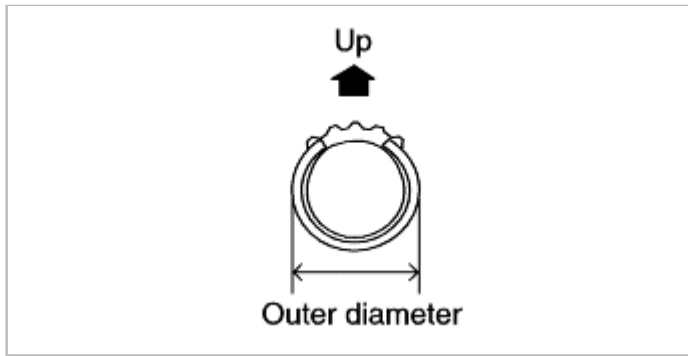
### NOTICE

The original driveshaft circular clip must not be reused.



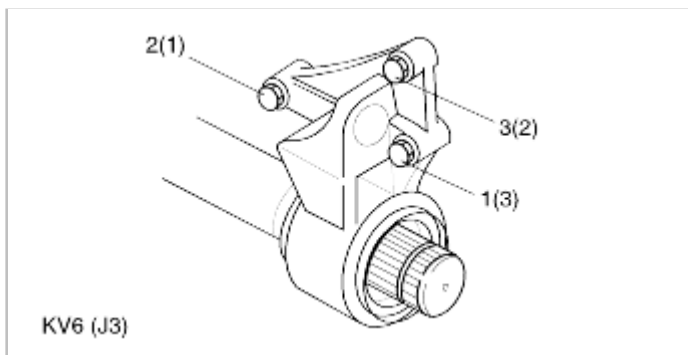
2. Lubricate the end of the front wheel driveshaft joint with grease.
3. Install a new clip so that opening is facing upward.
4. Measure outer diameter of clip after installing, and replace clip if it exceeds specification.

E/G	MT (in(mm))	AT (in(mm))
J3 TCI	1.22 (31)	←
GV6	1.22 (31)	1.14 (29)
Σ3.5	-	1.14 (32)



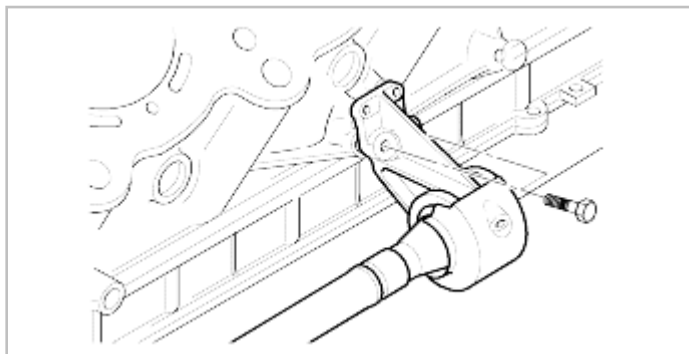
5. Measure outer diameter of clip of joint shaft after installing, and replace clip if it exceeds specification.  
Outer diameter : 1.221 in (31mm)
6. Install joint shaft and tighten three bolts in order shown.(J3 TCI, GV6 E/G)

Tightening torque :  
31~46 lb·ft (42~62 N·m, 4.3~6.3 kg·m)

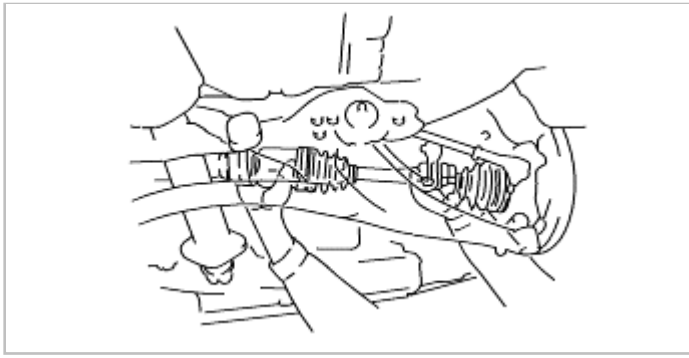


7. Install joint shaft and tighten mounting bolts. ( $\Sigma$  3.5 E/G)

Tightening torque :  
31~46 lb·ft (42~62 N·m, 4.3~6.3 kg·m)



8. Push right driveshaft onto joint shaft.
9. After installation, pull front hub outward to verify that driveshaft is securely held by circular clip.



10. Apply transmission fluid oil around oil seal lip, and push driveshaft into transaxle.

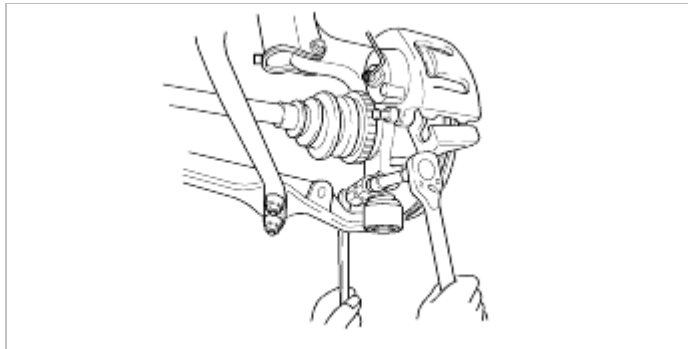
**NOTICE**

Do not damage dust boot. Do not damage oil seal of transaxle and joint shaft.

11. Attach the lower arm ball joint to the front wheel knuckle and tighten the lower arm ball joint nut and bolt.

Tightening torque :

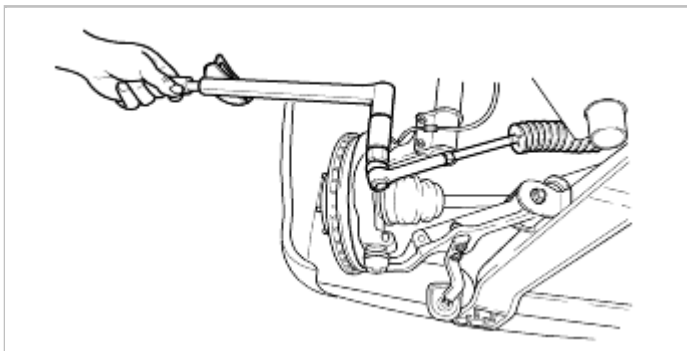
69~85 lb·ft (93~115 N·m, 9.5~11.7 kg·m)



12. Install nut and secure it with a new cotter pin.

Tightening torque :

43~58 lb·ft (59~78 N·m, 6.0~8.0 kg·m)



13. Connect stabilizer bar to control link and tighten control link nut.

Tightening torque :

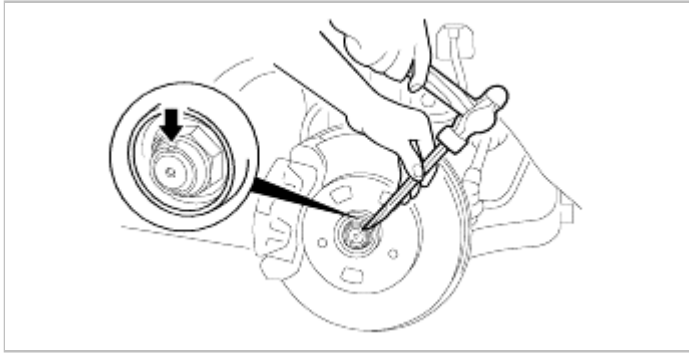
69~85 lb·ft (93~115 N·m, 9.5~11.7 kg·m)

14. Install a new driveshaft lock nut and stake it, as shown.



Tightening torque :  
177~199 lb·ft (240~270 N·m, 24.5~27.5 kg·m)

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15. Install wheel and tire.

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Tightening torque :  
65~79 lb·ft (88~108 N·m, 9.0~11.0 kg·m)

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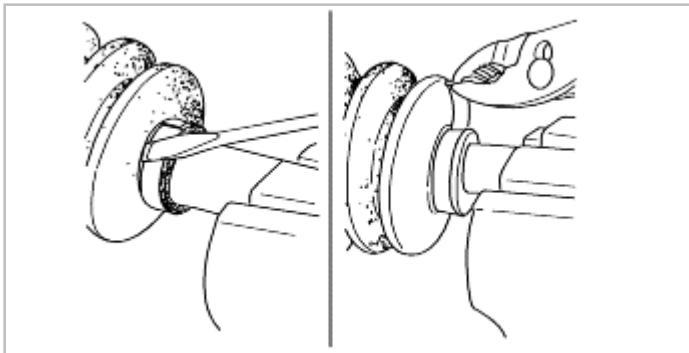
16. Lower vehicle.

## Disassembly

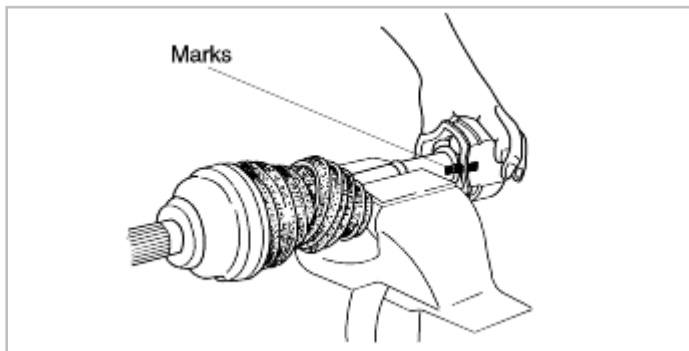
### NOTICE

Do not disassemble boot band on wheel side unless necessary.

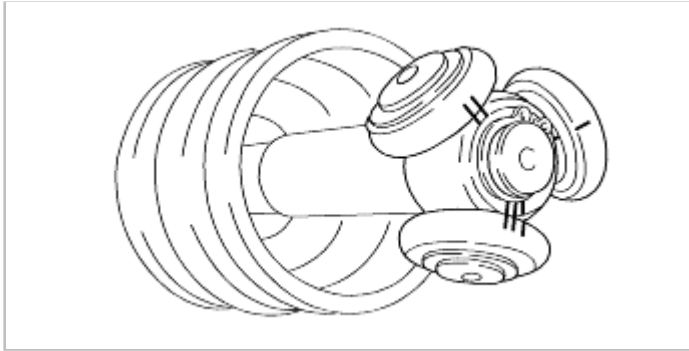
1. Pry up locking clip of transaxle-side boot retention band with a screwdriver.
2. Remove band with pliers.
3. Slide boot along shaft to expose joint.



4. Mark tripod housing and shaft for proper reassembly.
5. Remove outer ring.



6. Mark shaft and tripod joint for proper reassembly.

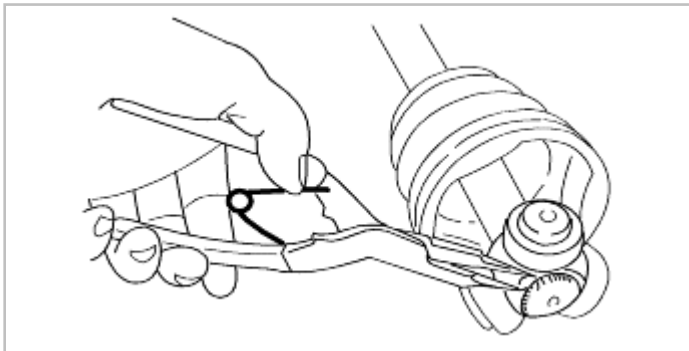


7. Remove snap ring with snap ring pliers.

**NOTICE**

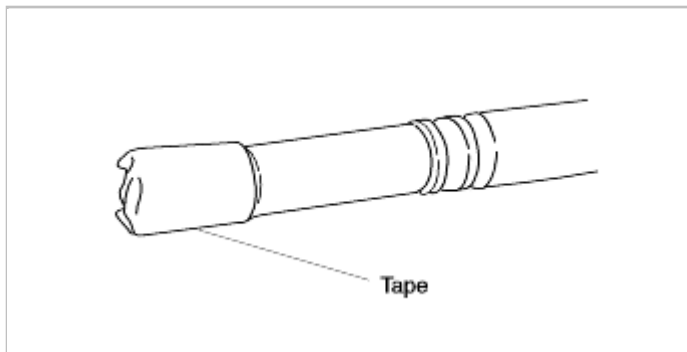
Do not damage needle bearings.

8. Drive tripod joint from shaft with a bar and a hammer.



9. Wrap splines of shaft with tape to prevent damaging boot.

10. Slide boot off shaft.



**NOTICE**

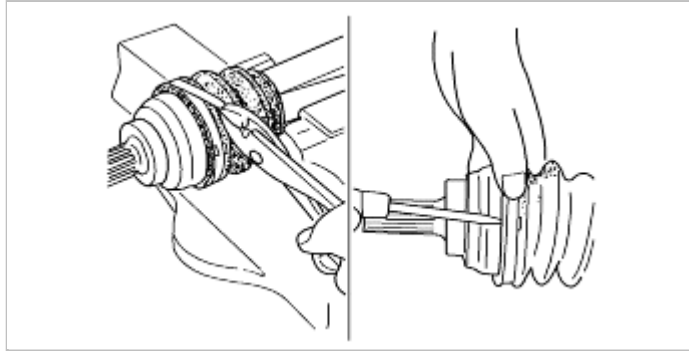
Do not remove dynamic damper unless necessary.

11. Pry up locking clip of damper retention band with a screwdriver.  
12. Remove band with pliers.  
13. Remove dynamic damper.

**NOTICE**

Do not remove boot from outer joint unless necessary.

14. Pry up outer boot locking clip of small and large retention bands with a screwdriver, or similar tool.
15. Remove both bands with pliers.
16. Cover splines with tape and remove boot.

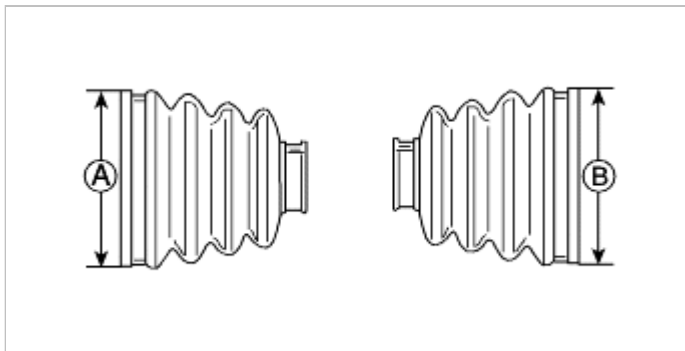


## Assembly

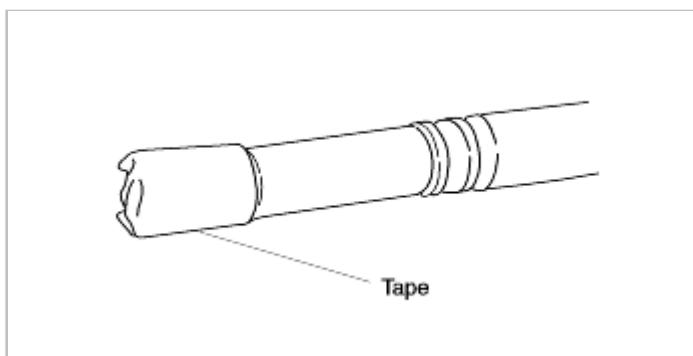
### NOTICE

Boot on wheel side of driveshaft is different from boot on differential side of driveshaft.

Engine	T/M	Boot diameter (in (mm))	
		Wheel side	T/M side
GV6	A/T	3.57 (90.8)	3.42 (86.8)
	M/T	3.87 (98.3)	3.81 (96.8)
J3 TCI	A/T	↑	↑
	M/T	3.96 (100.5)	3.90 (99)
Σ3.5	A/T	3.89 (99)	3.84 (97.5)



1. Cover splines of transaxle end with tape.
2. Install inner dust boot.



#### NOTICE

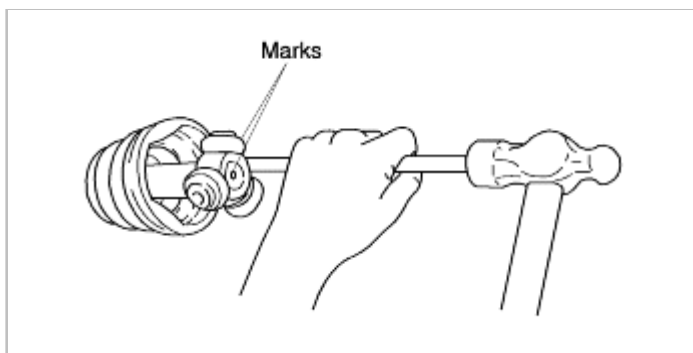
- Always use new bands.
- Bands should be installed so that their pointed ends initially point in forward direction of rotation.

3. Fold band back by pulling on end with pliers.
4. Lock end of band by bending its locking clip.
5. Install outer boot.

#### NOTICE

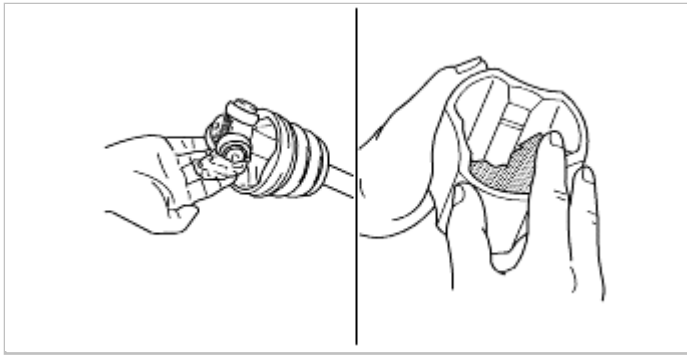
Do not damage bearing.

6. Align marks and carefully install tripod joint with a drift and a hammer.
7. Install snap ring with snap ring pliers.



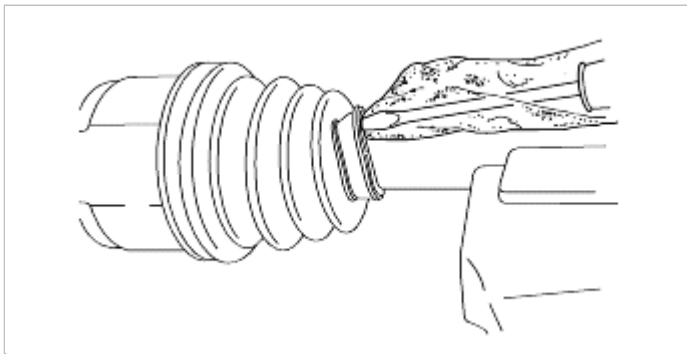
8. Apply grease included in rebuild kit to the tripod joint, outer ring and boot.
9. Install outer ring.
10. If outer boot was removed, fill it with correct quantity of specified grease.

Engine	T/M	Grease (oz. (g))	
		Wheel side	T/M side
GV6	A/T	4.58 (130)	←
	M/T	5.30 (150)	←
J3 TCI	A/T	5.30 (150)	4.94 (140)
	M/T	5.30 (150)	←
Σ3.5	A/T	7.75 (210)	7.50 (220)

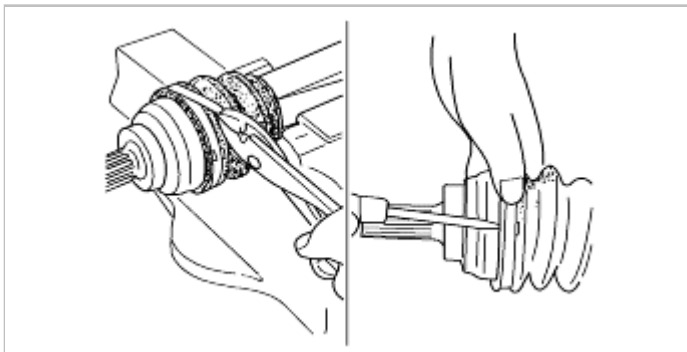


#### NOTICE

- Be sure boots are not damaged.
- Carefully lift up small end of boots to release any trapped air.



11. Install boot retention bands.
12. Fold bands back and pull on ends with pliers to tighten.
13. Lock ends of bands by bending locking clips.





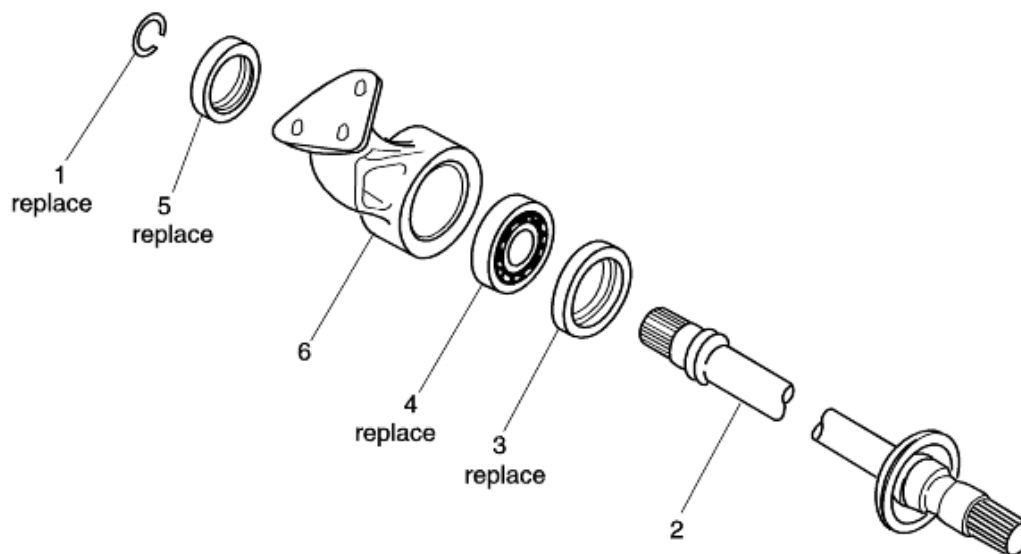
# **Driveshaft and Axle**

Differential Assembly - Center Bearing And  
Inner Shaft



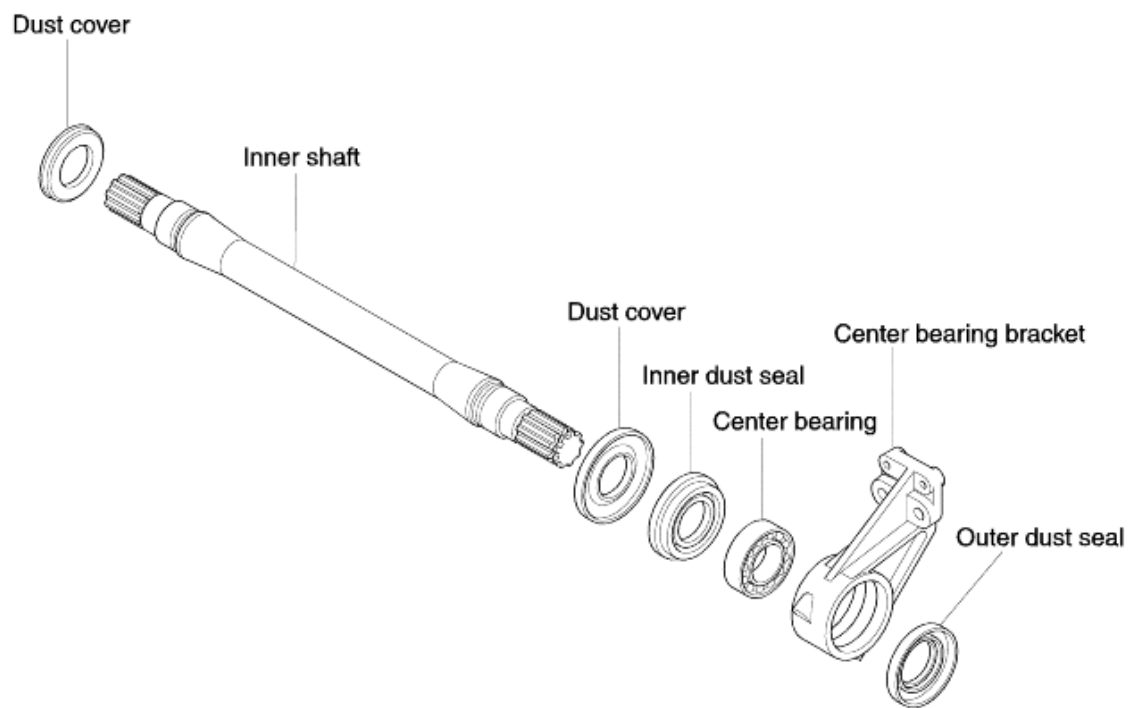
### Component (J3 TCI, GV6 E/G)

1. Disassembly in order shown on figure.
2. Check all of the parts and then repair or replace if necessary.
3. Assembly will be perform in the reverse order.



- |                     |                      |
|---------------------|----------------------|
| 1. Clip             | 4. Bearing           |
| 2. Joint shaft      | 5. Seal (right side) |
| 3. Seal (left side) | 6. Bracket           |

### Component (Σ3.5 E/G)

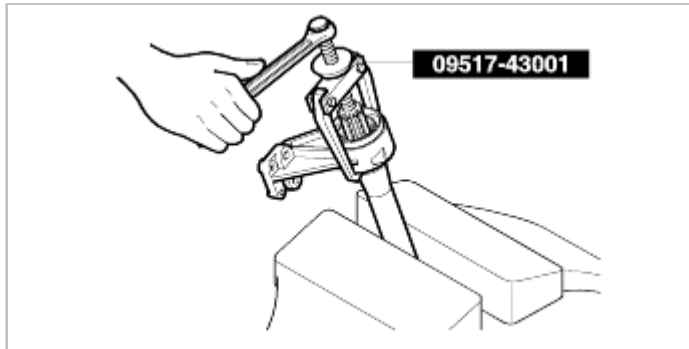






### Disassembly (Σ3.5 E/G)

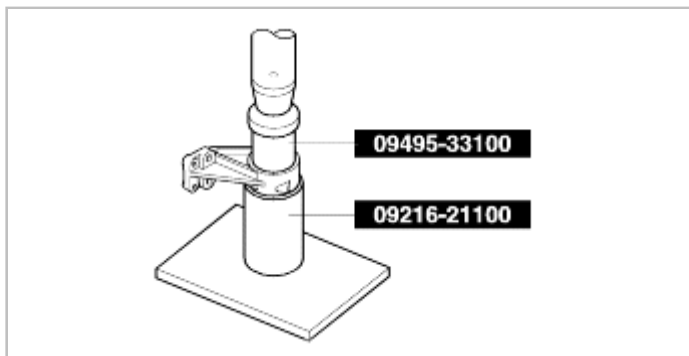
1. Disassemble in order shown on figure.
2. Disassemble the center bearing bracket from the inner shaft with SST (09517-43001)



3. Press out the center bearing with SST(09216-21100, 09495-33100)

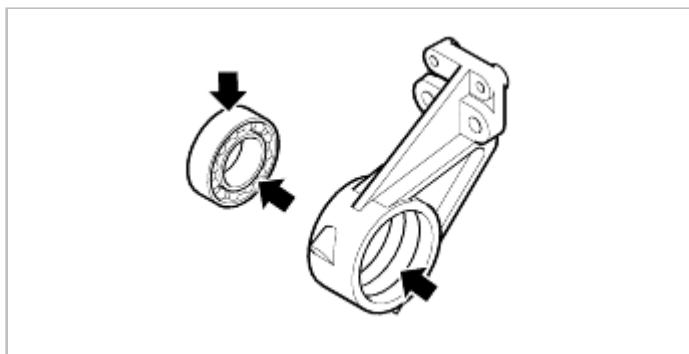
#### CAUTION

Press sst(09495-33100) correctly to prevent deformation of the seal plate.

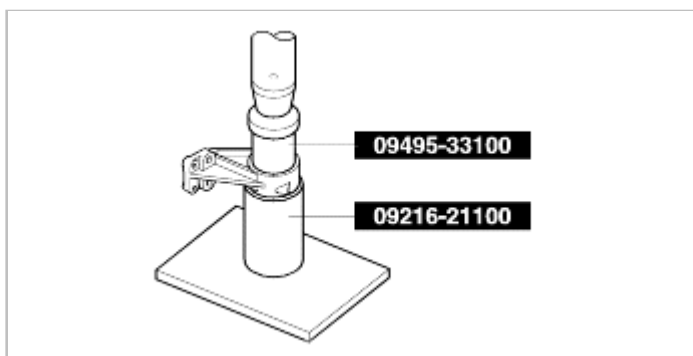


### Assembly (Σ3.5 E/G)

1. Apply multi-purpose grease to the center bearing and center bearing bracket inside.

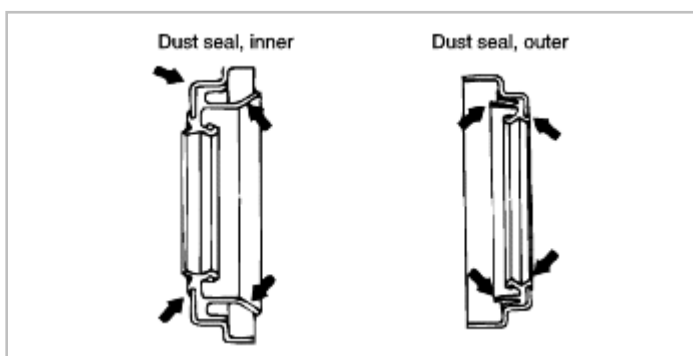


2. Press the center bearing into the center bearing bracket with SST.(Pressure should be less than 1,500kg)



3. Apply multi-purpose grease to the back face of every new dust seal.  
Using the special tool, tap the outer dust seal and inner dust seal in that order until they are flush with the edge of the center bearing bracket.

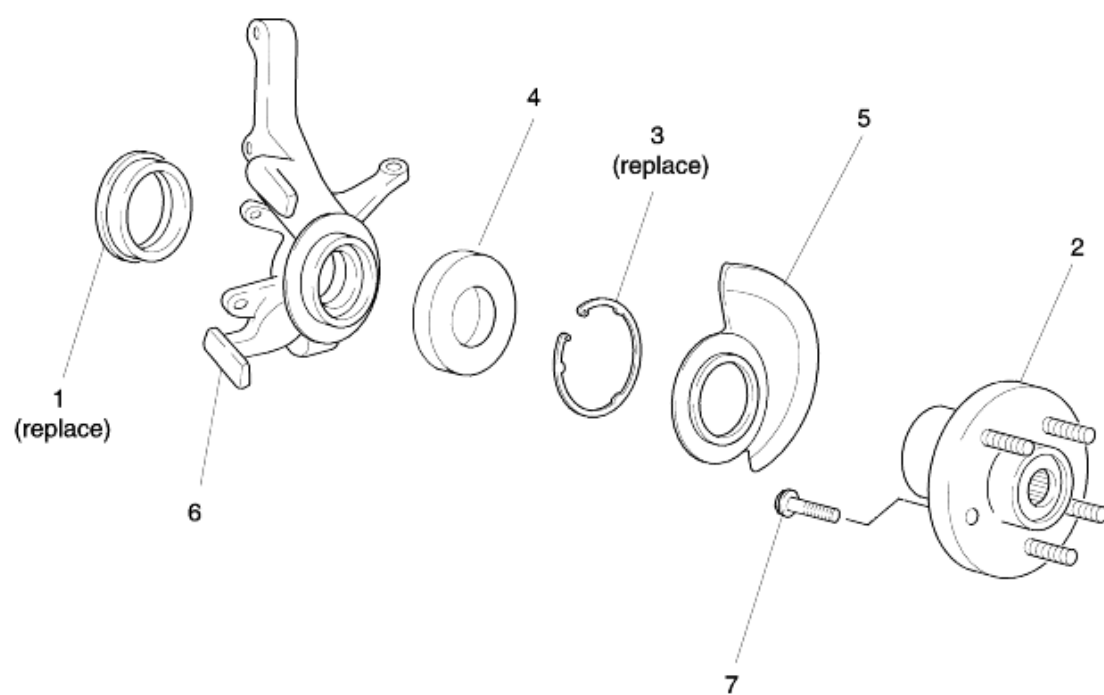
Item	Specification
Dust seal, inner	7~10g
Dust seal, outer	4~6g



4. Install the center bearing bracket to the inner shaft.

# **Driveshaft and Axle**

Front Axle Assembly - Front Hub / Axle

**Component**

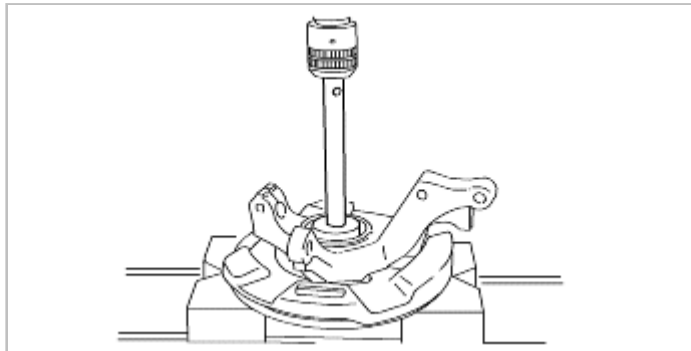
- 1. Oil seal
- 2. Front wheel hub assembly
- 3. Retaining ring
- 4. Wheel bearing

- 5. Dust cover
- 6. Steering knuckle
- 7. Wheel hub bolt



## Disassembly

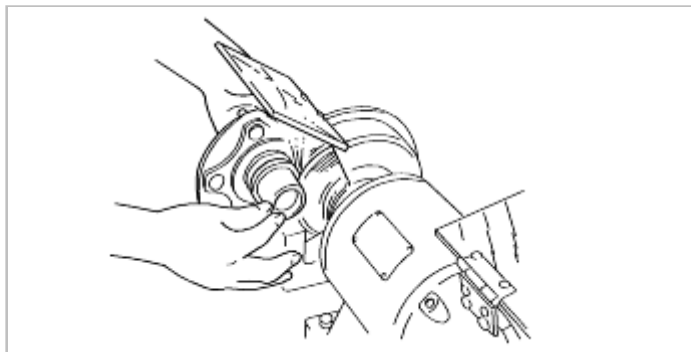
1. Remove oil seal from front wheel hub.
2. Remove front wheel hub assembly with suitable tool.



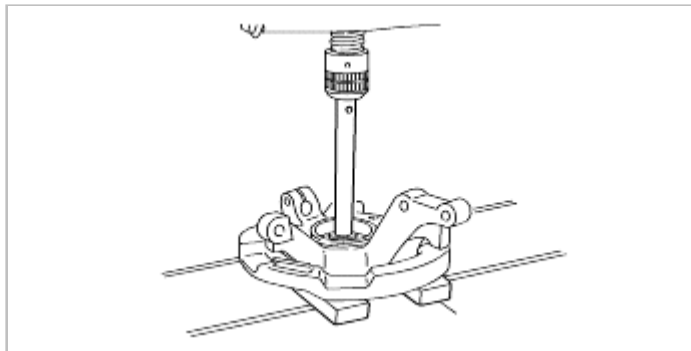
3. Remove retaining ring.

### NOTICE

If the bearing inner race remains on wheel hub, grind a section of inner race until approximately 0.020 in (0.5 mm) remains. Remove race with a chisel.



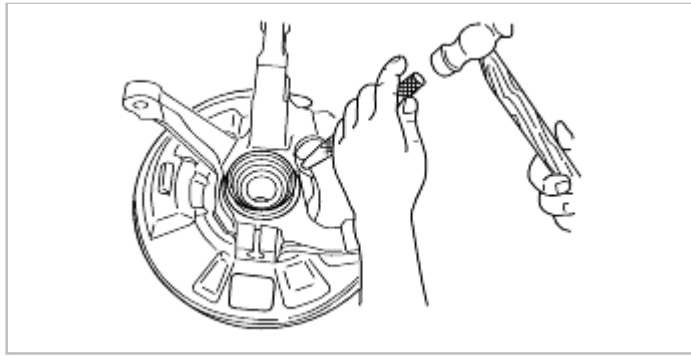
4. Remove wheel bearing with suitable tool.



### NOTICE

- Do not remove dust cover unless necessary.
- Do not reuse dust cover if removed.

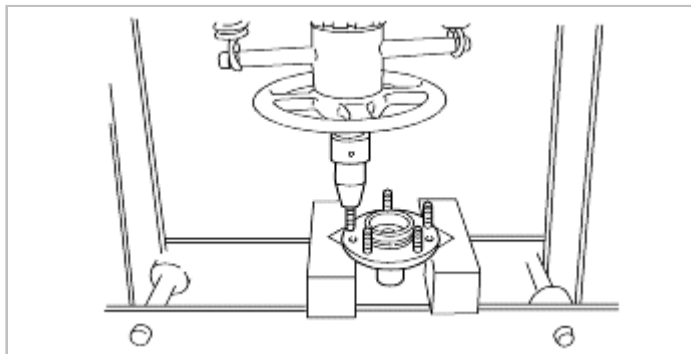
5. Mark relative positions of dust cover and knuckle for proper reassembly.
6. Remove dust cover with a chisel.



#### NOTICE

- Do not remove wheel hub bolt unless necessary.
- Do not reuse wheel hub bolt if removed.

7. Remove wheel hub bolt with a press.

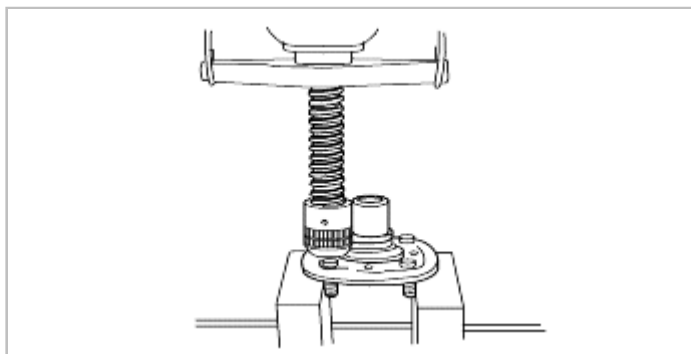


## Assembly

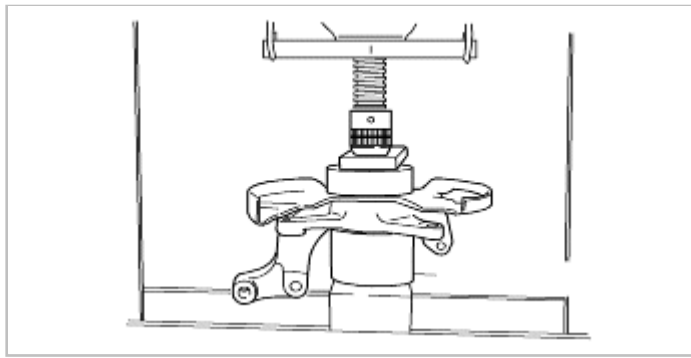
1. Press in new wheel studs.

#### NOTICE

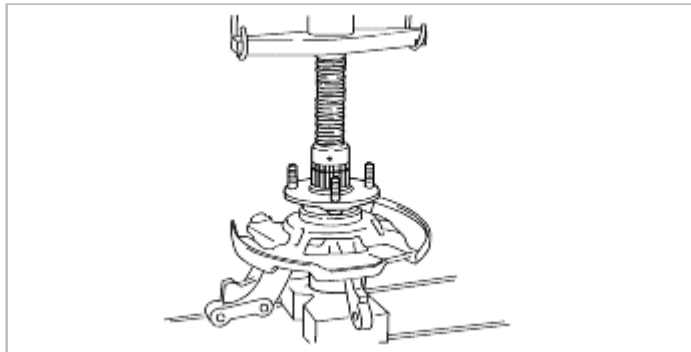
Front wheel hub press in either bolt turning or loosening by the torque of 108.5 lb·ft (147 N·m, 15 kg·m) shall not be premissible.



2. Mark new dust cover to match the removed dust cover.
3. Align mark on new dust cover with knuckle.
4. Install new dust cover with suitable tool.



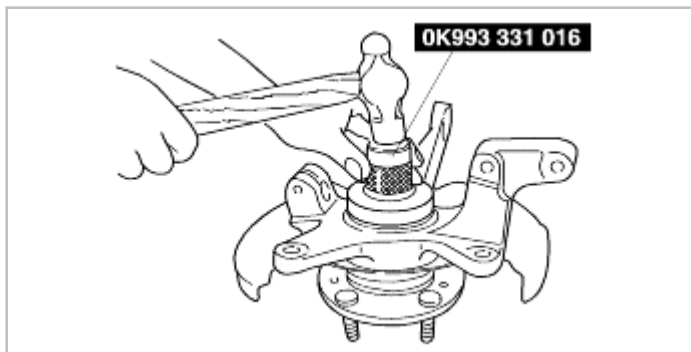
5. Install new wheel bearing with suitable tool.
6. Install front wheel hub assembly with suitable tool.



#### NOTICE

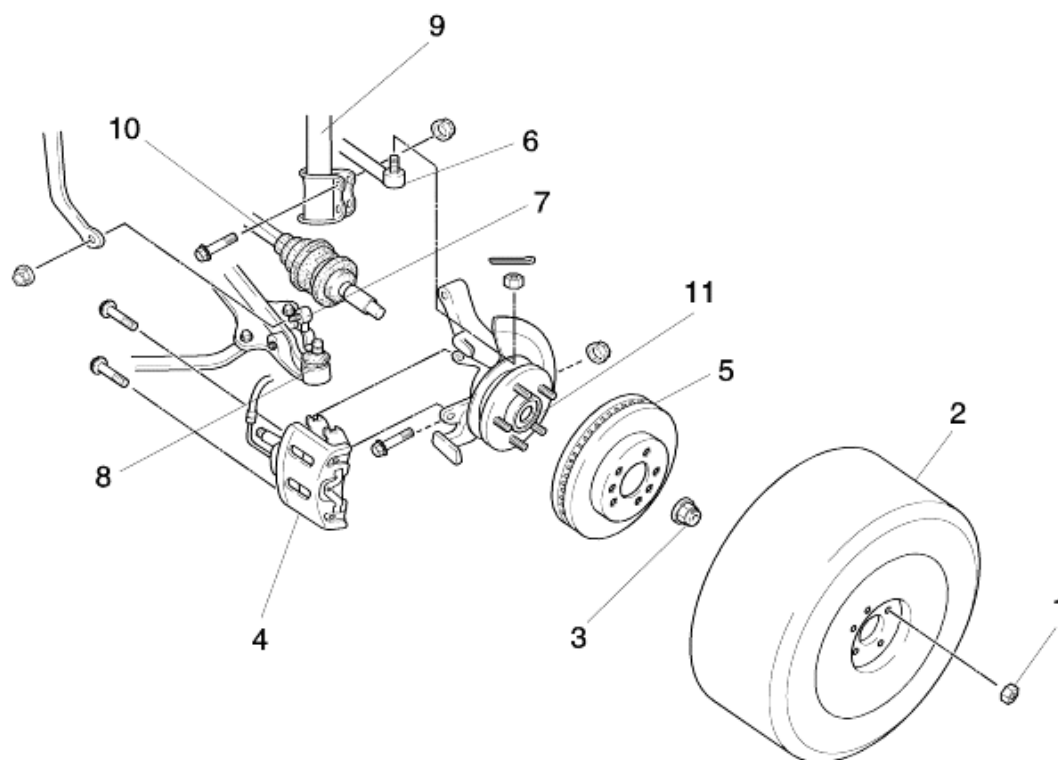
- Use a new oil seal, and apply grease to seal.
- Install oil seal so that it is flush with knuckle.

7. Install new oil seal with SST(0K993 331 016).





## Component



- 1. Wheel nuts
- 2. Wheel and tire
- 3. Lock nut
- 4. Brake caliper assembly
- 5. Disk plate
- 6. Tie rod end

- 7. Stabilizer control link
- 8. Lower arm ball joint
- 9. Suspension assembly
- 10. Driveshaft
- 11. Knuckle





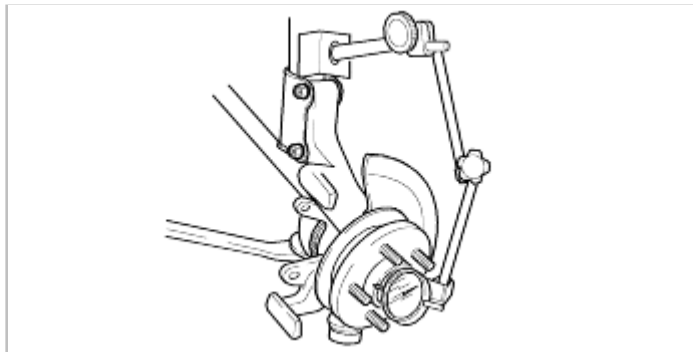
## On-vehicle services (wheel bearing play)

1. Raise vehicle and support it with safety stand.
2. Loosen and remove four wheel nuts.
3. Remove wheel and tire.
4. Loosen a lock nut and two disk plate screws.
5. Remove brake caliper assembly and disk plate.
6. Install a dial indicator on wheel hub and push and pull hub to measure bearing play.  
Replace the knuckle assembly if necessary.

---

Maximum wheel bearing play :  
0.002 in (0.05mm)

---



7. Install brake caliper assembly and disk plate.
8. Tighten a lock nut and two disk plate screws.

---

Tightening torque :  
Lock nut: 177~199 lb·ft  
(240~270 N·m, 24.5~27.5 kg·m)  
Rotor screw: 7~11 lb·ft  
(9.8~15 N·m, 1.0~1.5 kg·m)

---

9. Install wheel and tire.
10. Tighten four nuts.

---

Tightening torque :  
65~79 lb·ft (88~108 N·m, 9.0~11.0 kg·m)

---

11. Lower vehicle.

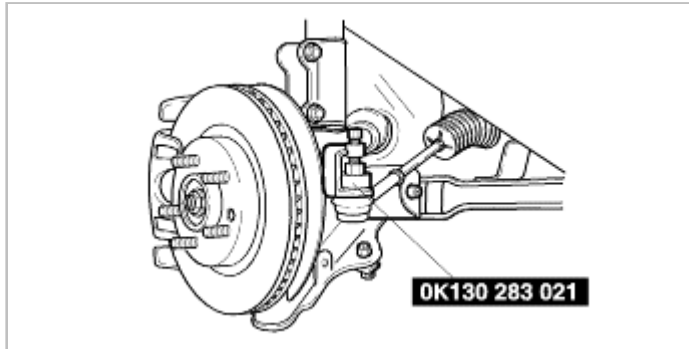
## Removal

1. Raise vehicle and support it with safety stand.
2. Loosen four wheel nuts.
3. Remove wheel and tire.
4. Loosen a lock nut and two brake rotor screws.
5. Remove brake caliper assembly and disk plate.

## NOTICE

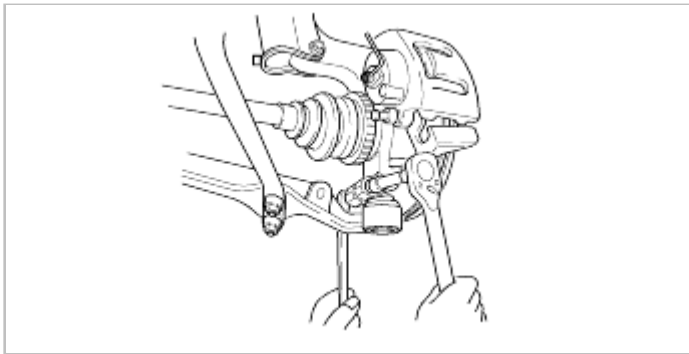
Do not damage dust boot.

6. Loosen and remove nut and disconnect tie rod end with SST(OK130 283 021).



7. Disconnect stabilizer bar with control link on lower control arm.

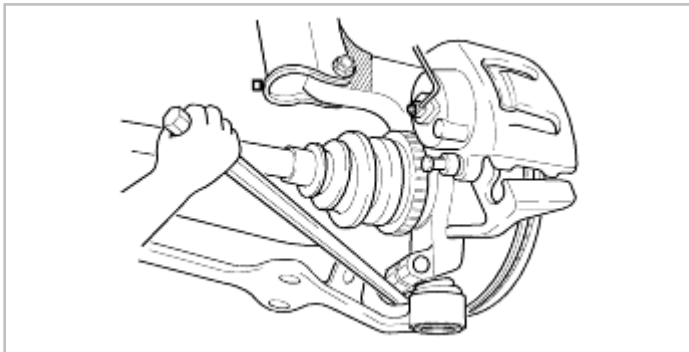
8. Remove the lower arm ball joint bolt and nut from steering knuckle.



## NOTICE

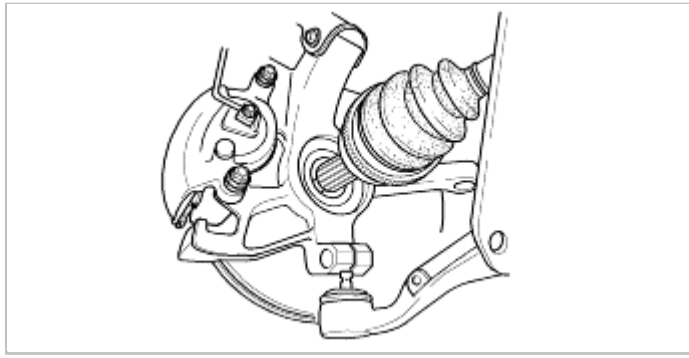
Use caution when separating lower arm from steering knuckle, so ball joint seal does not get cut.

9. Using a pry bar, separate steering knuckle from lower arm.



10. Remove suspension assembly from steering knuckle.

11. Pull steering knuckle by hands to separate steering knuckle and driveshaft.



12. Inspect all parts and repair or replace as necessary.

## Replacement

1. Insert the end of the front wheel driveshaft into the knuckle.
2. Tighten two bolts after installing suspension assembly to knuckle.

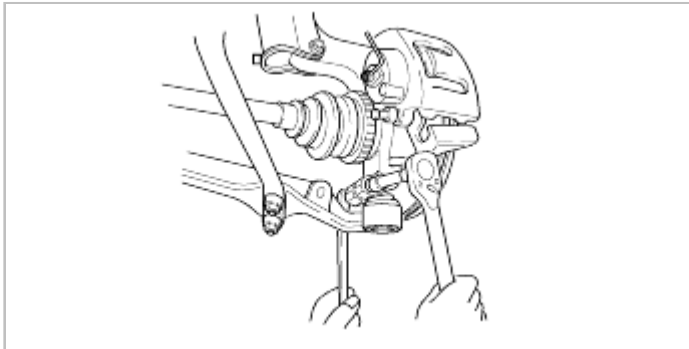
Tightening torque :

88~101 lb·ft (120~137 N·m, 12.2~14 kg·m)

3. Connect ball joint of lower control arm to steering knuckle and tighten bolt and nut.

Tightening torque :

69~85 lb·ft (93~115 N·m, 9.5~11.7 kg·m)



4. Install disk plate to wheel hub and tighten two disk plate screws.

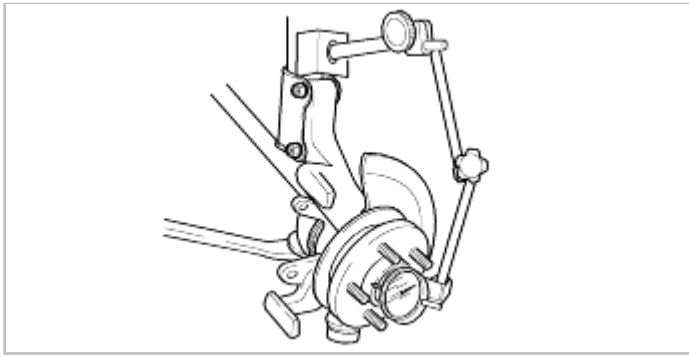
Tightening torque:

7~11 lb·ft (10~15 N·m, 1.0~1.5 kg·m)

5. After installing disk plate to wheel hub, install a dial indicator on wheel hub and push and pull hub to measure bearing play and replace the wheel hub, if necessary.

Maximum wheel bearing play :

0.002 in (0.05 mm)



6. Install brake caliper assembly to steering knuckle and tighten two bolts.

Tightening torque :

88~101 lb·ft (120~137 N·m, 12.2~14 kg·m)

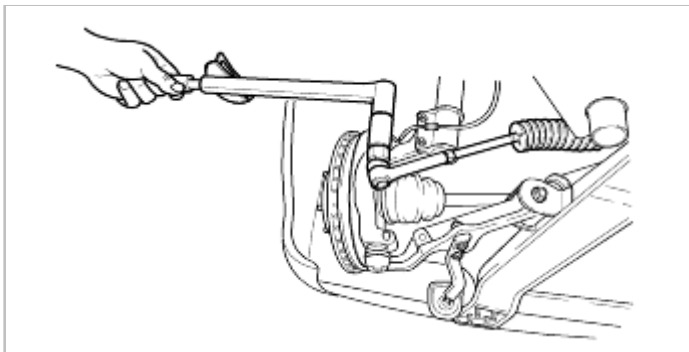
**NOTICE**

Do not damage dust boot.

7. Install tie rod end to steering knuckle.  
8. Install nut and secure it with a new cotter pin.

Tightening torque :

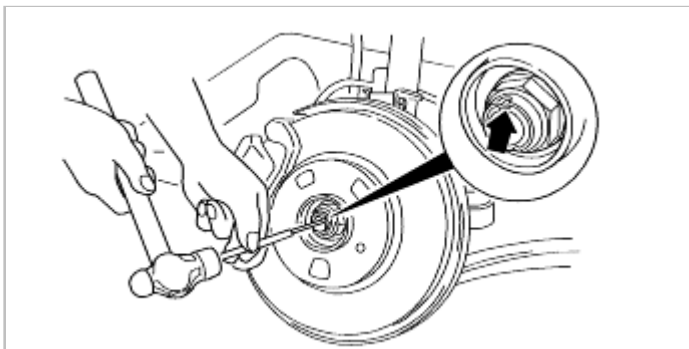
43~58 lb·ft (59~78 N·m, 6.0~8.0 kg·m)



9. Install a new lock nut and stake it, as shown.

Tightening torque :

177~199 lb·ft (240~270 N·m, 24.5~27.5 kg·m)



10. Install wheel and tire.

11. Tighten four wheel nuts.

---

Tightening torque :

65~79 lb·ft (88~108 N·m, 9.0~11.0 kg·m)

---

12. Install stabilizer nut loosely, and lower vehicle, then tight nut to specified torque.

---

Tightening torque :

69~85 lb·ft (93~115 N·m, 9.5~11.7 kg·m)

---

13. After assembly, check front wheel alignment.

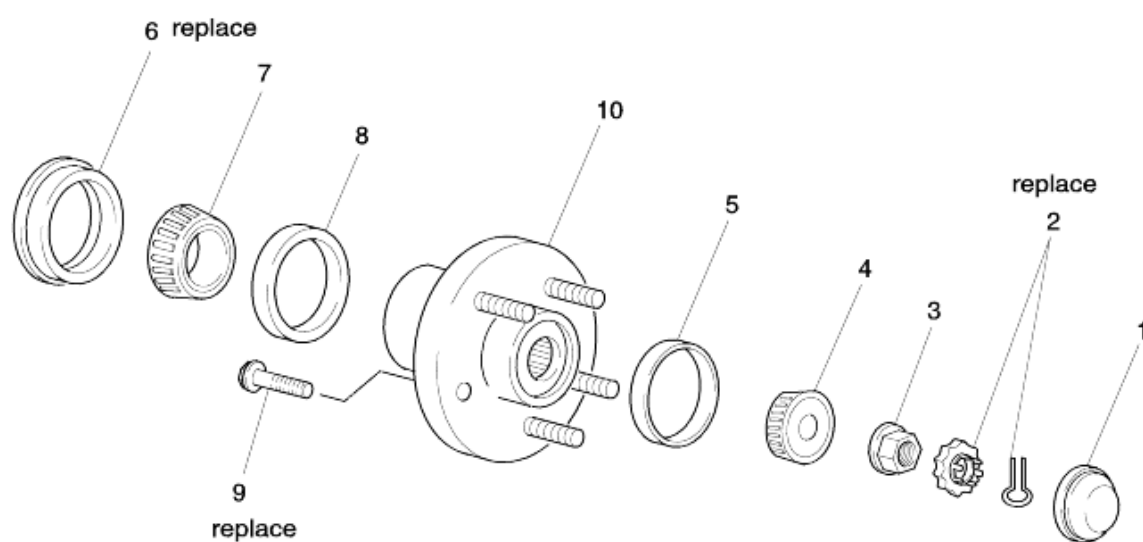


# **Driveshaft and Axle**

Rear Axle Assembly -Rear Hub/Axle



## Component



1. Wheel hub cap
2. Cotter pin & cover set
3. Lock nut
4. Wheel bearing
5. Bearing outtrace

6. Oil seal
7. Wheel bearing
8. Bearing outtrace
9. Hub bolt
10. Hub bearing



## Disassembly/Assembly

1. Disassemble rear wheel hub bearing in order shown on figure (Refer to disassembly note).
2. Assembly will be perform in the reverse order.

### Disassemble note

#### Wheel hub bearing

1. Disassemble hub bearing with SST(0K410 111 012).

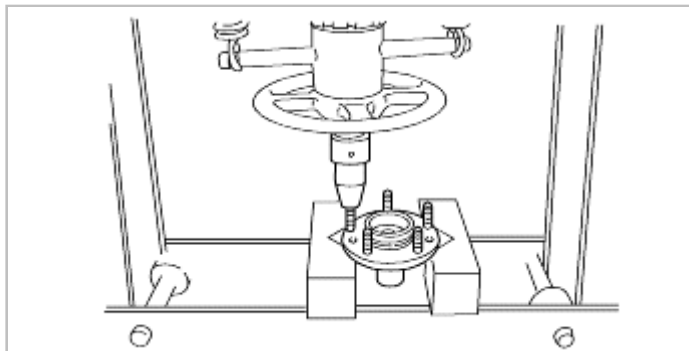


#### Wheel hub bolt

##### NOTICE

- Do not disassemble wheel hub bolt if not necessary.
- Do not reuse wheel hub bolt if disassembled.

1. Remove wheel hub bolt with a press.



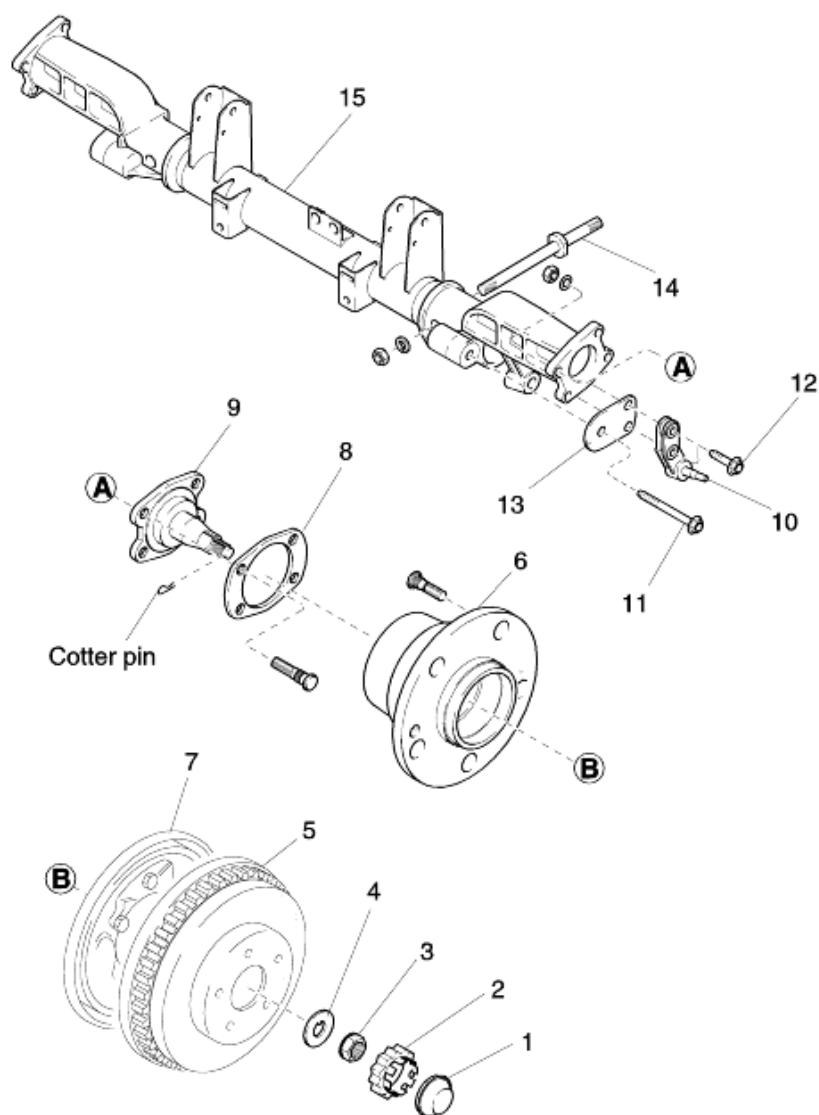
##### NOTICE

Rear wheel hub press in either bolt turning or loosening by the torque of 108.5 lb·ft (147 N·m, 15 kg·m) shall not be permissible.





## Component



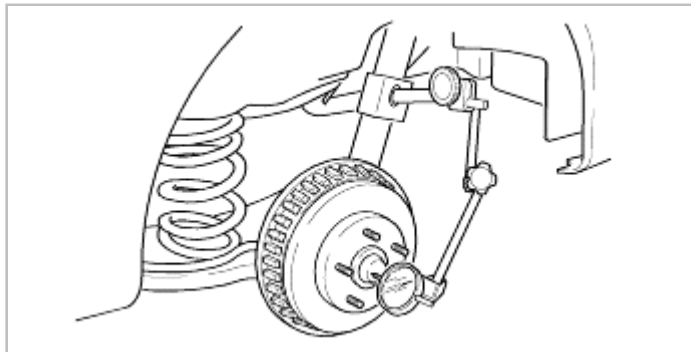
- |                                 |                         |
|---------------------------------|-------------------------|
| 1. Hub cap                      | 9. Spindle              |
| 2. Cover set                    | 10. Shock absorber bolt |
| 3. Nut                          | 11. Lower arm bolt      |
| 4. Washer                       | 12. Bolt                |
| 5. Drum brake                   | 13. Lower arm bracket   |
| 6. Hub assembly                 | 14. Panhard bolt        |
| 7. Rear drum brake & back plate | 15. Rear casting        |
| 8. Plate retainer               |                         |



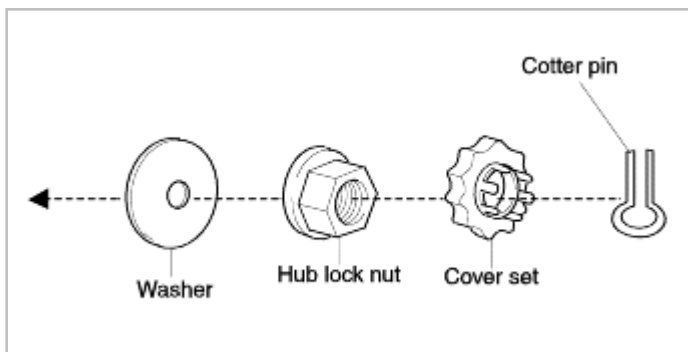
## On-vehicle services (wheel bearing play)

1. Raise vehicle and support it with safety stand.
2. Loosen and remove four wheel nuts.
3. Remove wheel and tire.
4. Remove brake drum from rear brake after removing two brake drum screws.
5. Install a dial indicator on wheel hub and push and pull hub to measure bearing play.

Maximum wheel bearing play :  
 0.001~0.006 in (0.025~0.152 mm)  
 Run out: 0.002 in (0.05 mm)

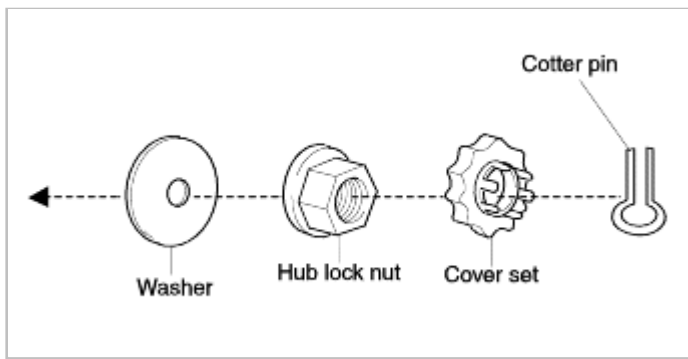


6. Adjust the wheel bearing play by tightening the lock nut.
7. Install cover set, and cotter pin on the end of spindle and wrap cotter pin prongs tightly.



## Removal

1. Raise vehicle and support it with safety stand.
2. Loosen and remove four wheel nuts.
3. Remove wheel and tire.
4. Remove two brake drum screws from wheel hub.
5. Remove hub cap, cotter pin, cover set, nut and washer from the end of the spindle.

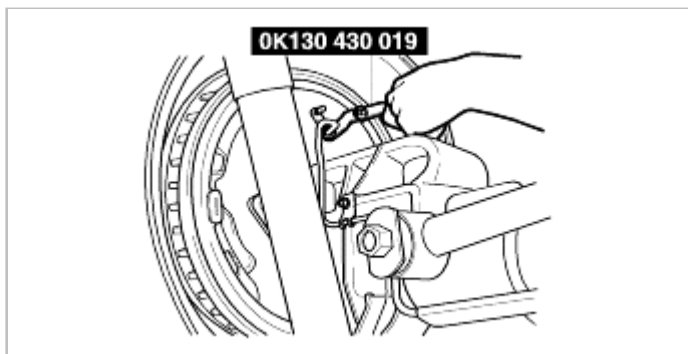


6. Remove brake drum from rear brake assembly.
7. Remove hub assembly after loosening bolts from hub assembly.

#### NOTICE

After disconnecting brake line, plug it to prevent fluid leakage.

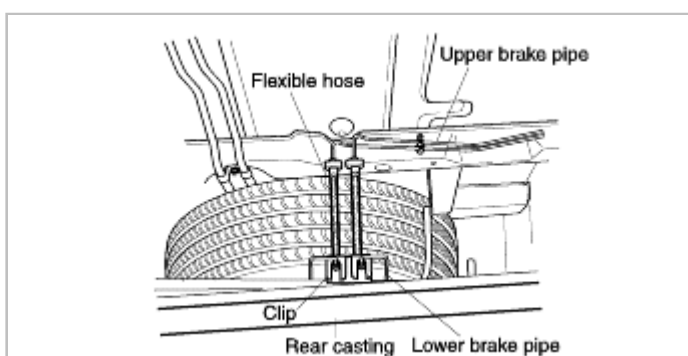
8. Disconnect brake line with SST(OK130 430 019).



9. Disconnect lower brake pipes and flexible hoses from the middle of rear casting after loosening the brake pipe nuts and then pulling out the flexible hose clips.

#### NOTICE

After disconnecting lower brake pipes and flexible hoses, plug them to prevent fluid leakage.



10. Loosen the bolts from rear casting and remove plate retainer, back plate, and spindle.
11. Loosen the shock absorber bolts and nuts and remove the shock absorber from the rear casting.
12. Loosen the lower arm bolt and two bolts from rear casting and remove lower arm bracket and lower arm.
13. Loosen the upper arm bolt from the rear casting and remove the upper arm (Refer to section SS Gr.- Suspension).
14. Remove the stabilizer bracket and bolt in the middle of the rear casting.

15. Loosen the panhard bolt and remove the panhard.
16. Remove the rear casting.
17. Check all parts, and repair or replace if necessary.

## Replacement

1. Install shock absorber to rear casting and tighten nut (Refer to section SSGr.- Suspension).

Tightening torque :

99~116 lb·ft (134~157 N·m, 13.7~16 kg·m)

2. Install two upper arm to rear casting with bolt and nut and then tighten nut.

Tightening torque:

55~69 lb·ft (74~93 N·m, 7.6~9.5 kg·m)

3. Install lower arm to rear casting and tighten lower arm bolt and nut.

Tightening torque:

87~101 lb·ft (118~137 N·m, 12~14 kg·m)

4. Tighten two stabilizer brackets and bolts to rear casting (Refer to section SSGr.- Suspension).

Tightening torque:

32~40 lb·ft (43~54 N·m, 4.4~5.5 kg·m)

5. Install panhard rod and washer and then tighten the panhard rod nut.

Tightening torque:

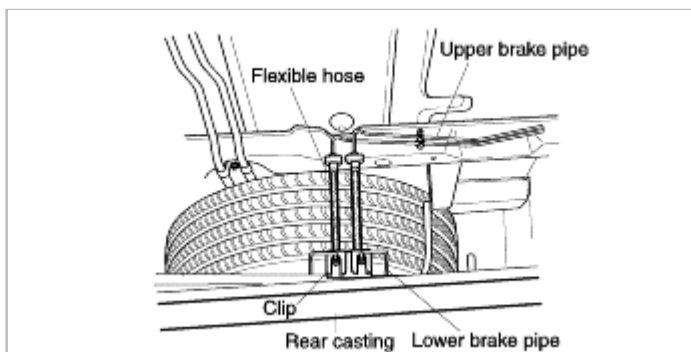
99~116 lb·ft (134~157 N·m, 13.7~16 kg·m)

6. Install spindle, retainer plate, and back plate and tighten the bolts.

Tightening torque:

65~79 lb·ft (80~108 N·m, 9.0~11.0 kg·m)

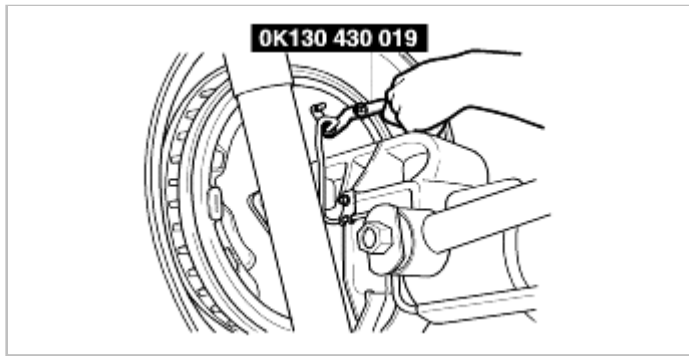
7. Connect lower brake pipes and flexible hoses and fix the flexible hoses clips to the bracket of rear casting.



8. Tighten brake line with SST(0K130 430 019).

Tightening torque:

9~13 lb·ft (13~18 N·m, 1.3~1.8 kg·m)



9. Install rear wheel hub assembly.
10. Put brake drum into rear wheel hub assembly and tighten two screws.

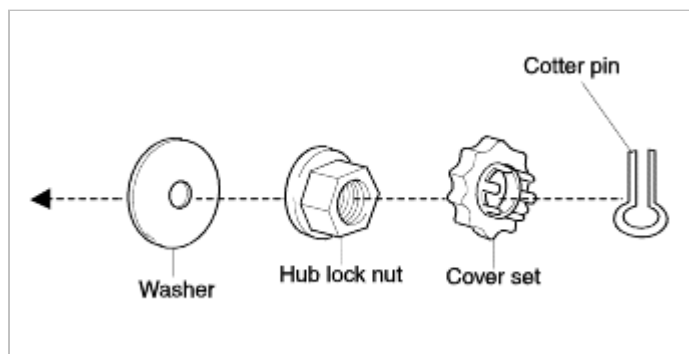
Tightening torque:

7~11 lb·ft (9.8~15 N·m, 1.0~1.5 kg·m)

11. Install washer, nut, cover set, and new cotter pin on the end of the spindle and wrap cotter pin prongs tightly around cover set.

Tightening torque :

177~198 lb·ft (240~270 N·m, 24.5~27 kg·m)



12. Install hubcap, wheel and tire.
13. Install and tighten four wheel nuts.
14. Bleed brake system.

Tightening torque:

65~79 lb·ft (88~108 N·m, 9.0~11.0 kg·m)

15. Lower vehicle.