

Lubricants

Items		Lubricants	Quantity	
Rear driveshaft BJ		RBA	115 ± 5g	
	TSJ	RBA	130 ± 5g	

Driveshaft and axle



Special Service Tools

Tool(Number and Name)	Illustration	Use
9495-33000Puller		Removal of spider assembly from a drive shaft.
9517-43401Working base		Support for the differential carrier
9517-43500Adapter		Support for the differential carrier(Use with 09517-43401)
9495-3K000Band installer		Installation of ear type boot band

09568-34000Ball joint remover		Removal of the rear upper arm ball joint
09568-4A000Ball joint remover	5	Removal of the front lower arm and tie rod end ball joint

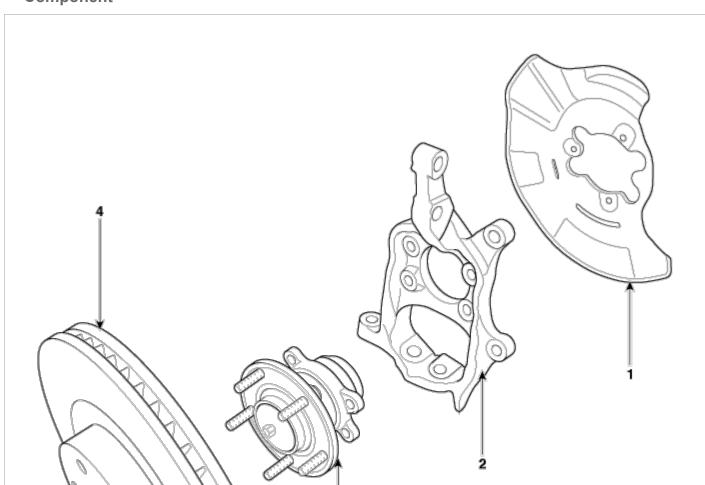


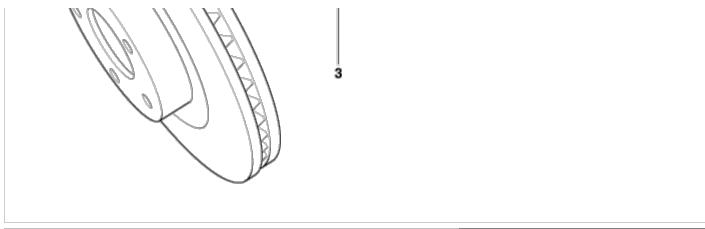
Troubleshooting

Trouble Symptom	Probable cause	Remedy
Vehicle pulls to one side	Scoring of driveshaft ball joint	Replace
	Wear, rattle or scoring of wheel bearing	Replace
	Defective front suspension and steering	Adjustment or Replace
	Tire inflation	Adjustment
	Tire pull, rotate tires	Adjustment
	Front camber/caster value	Adjustment
	Brakes dragging	Adjustment
	Road test on flat road (no crown)	Adjustment
	Etc	Adjustment
Vibration	Wear, damage or bending of driveshaft	Replace
	Driveshaft rattle and hub serration	Replace
	Wear, rattle or scratching of wheel bearing	Replace

Shimmy	Defective wheel balance	Adjustment or Replace
	Defective front suspension and steering	Adjustment or Replace
Excessive noise	Wear, damage or bending of driveshaft	Replace
	Rattle of driveshaft and worn hub splines	Replace
	Wear, rattle or scoring of wheel bearing	Replace
	Loose hub nut	Adjustment or Replace
	Defective front suspension and steering	Adjustment or Replace

Component





1. Dust cover

3. Hub assembly

2. Knuckle

4. Brake disc

Driveshaft and axle



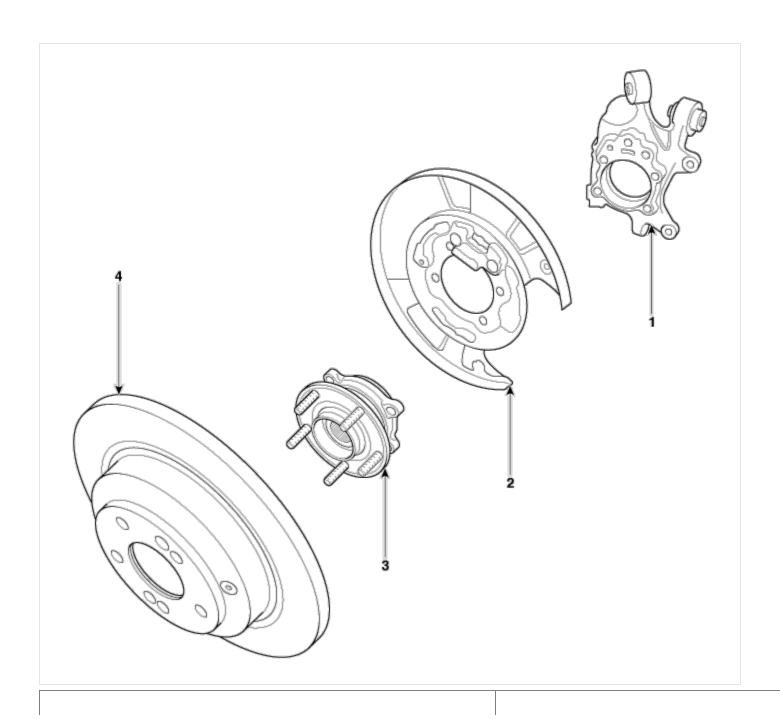
Inspection

- 1. Check the hub for cracks and the splines for wear.
- 2. Check the brake disc for scoring and damage.
- 3. Check the knuckle for cracks.
- 4. Check the bearing for cracks or damage.

Driveshaft and axle



Components



1. Rear carrier assembly

3. Rear hub assembly

2. Rear dust cover

4. Rear brake disc

Driveshaft and axle



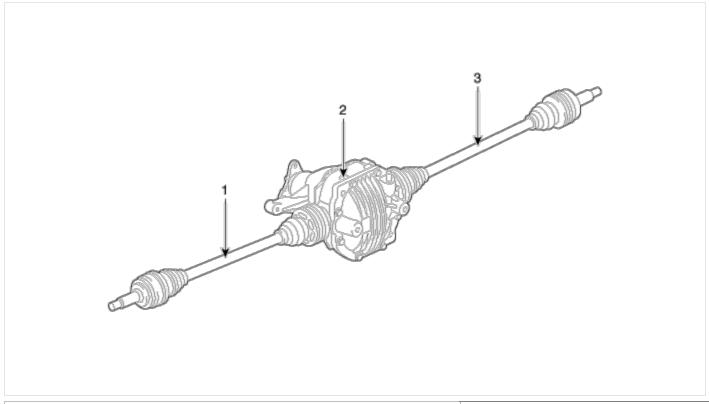
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- 2. Check the brake disc for scoring and damage.
- 3. Check the knuckle for cracks.
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Driveshaft and axle



Component Location



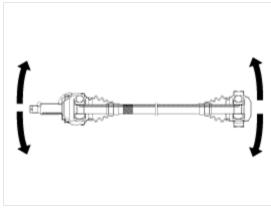
- 1. Drive shaft (LH)
- 2. Drive shaft (RH)

3. Defferential assembly



Inspection

- 1. Check the driveshaft boots for damage and deterioration.
- 2. Check the ball joint for wear and damage.
- 3. Check the splines for wear and damage.
- 4. Check the dynamic damper for cracks, wear and position.

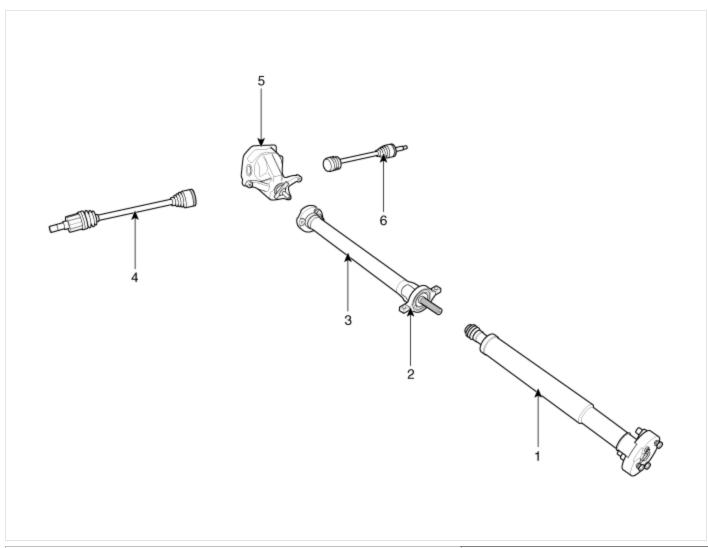


5. Check the driveshaft for cracks and wears.

Driveshaft and axle



Components

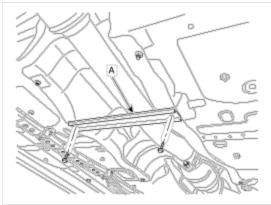


- 1. Front propeller shaft
- 2. Center bearing bracket
- 3. Rear propeller shaft

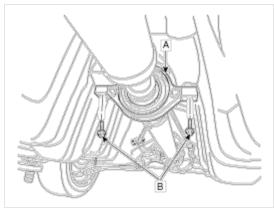
- 4. Drive shaft (R)
- 5. Differential carrier
- 6. Drive shaft (L)



1. Loosen the mount bolt and then remove the bracket(A).



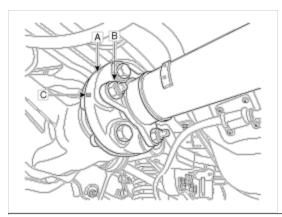
- 2. Remove the rear muffler(Refer to FL group-Muffler)
- 3. Loosen the mount bolts and then heating bracket.
- 4. Remove the center bearing bracket(A) mounting bolts(B).



5. After making a match mark(C) on the rubber coupling(A) and rear differential companion(B), remove the propeller shaft mounting bolts(D).

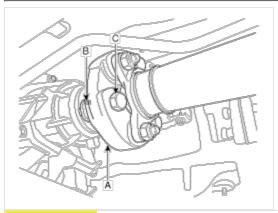
Tightening torque:

90 ~ 110 N.m (9.0 ~ 11.0 kgf.m, 65.0 ~ 79.5 lb-ft)



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90 ~ 110 N.m (9.0 ~ 11.0 kgf.m, 65.0 ~ 79.5 lb-ft)

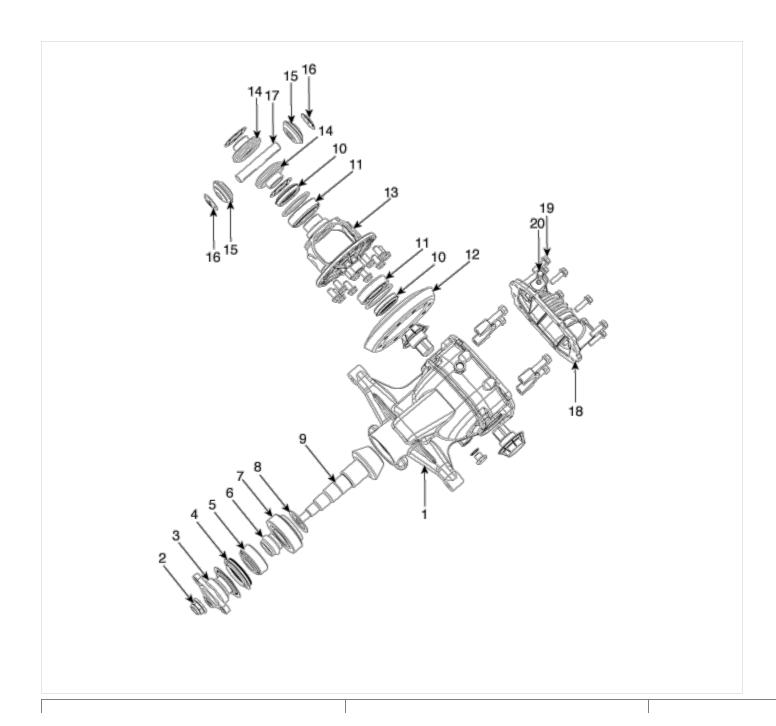


▲ CAUTION

- A. Use the hexagonal wrench to prevent damage of bolt head when removing bolts.
- B. When retightening the propeller shaft mounting bolts after removing them, each bolt and washer must be placed in its original position and bolt insertion direction must be the same as before, so make marks not to allow the bolts and washers to be mixed up before removing the propeller shaft.
- C. If the position and direction of the propeller shaft mounting bolts and washers are reversed, it may cause vibration and noise at high vehicle speeds due to imbalance in the propeller shaft.
- D. If abnormal vibration and noise occur at high vehicle speeds after replacing propeller shaft with new one, balance the propeller shaft with a balancing machine.
- 6. Installation is the reverse order of removal.

Driveshaft and axle





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- 2. Pinion locking nut
- 3. Oil Seal guide
- 4. Pinion oil swal
- 5. Outer pinion bearing
- 6. Pinion bearing spacer
- 7. Inner pinion bearing

- 8. Inner bearing adjust shim
- 9. Drive gear
- 10. Oil seal
- 11. Differential side bearing
- 12. Ring gear
- 13. Differential
- 14. Cam side gear

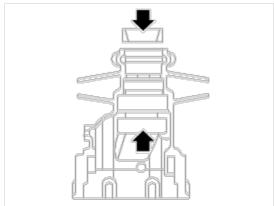
- 15. Pinion gear
- 16. Thrust washer
- 17. Differential pinion shaft
- 18. Differential cover
- 19. Differential cover mounting bolts
- 20. Air breather
- 21. Filler piug



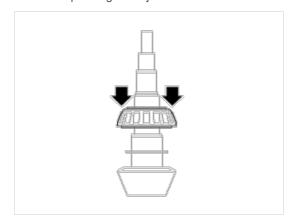
Reassembly

Pinion assembly

1. Press the inner/outer bearing race.



2. Select the pinion gear adjust shim and install it to the pinio gear. And then press the inner bearing.



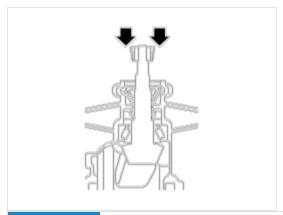
3. Instell the bearing spacer.



▲ CAUTION

Will have to use from new spacer.

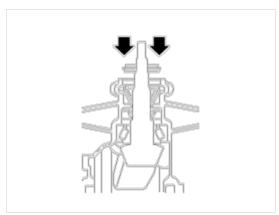
4. Press the installed pinion assembly to carrier with outer bearing in the ilustration.



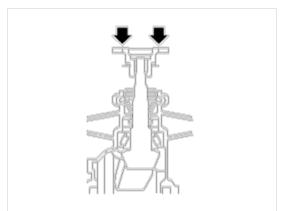
NOTICE

Will have to be below pressure 5 ton.

5. Press the pinion oil seal.



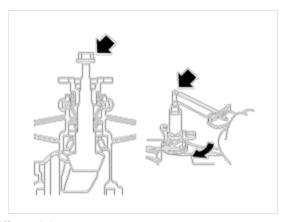
6. Press the companion flange.



7. Install the pinion locking nut to make that the bearing freeroad is standard.

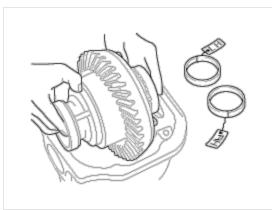
Tightening torque :

112.7 ~ 161.8 N.m (11.5 ~ 16.5 kgf.m, 83.1 ~ 119.3 lb-ft)

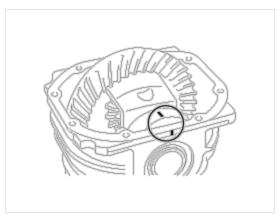


Differential case

1. Fix the diff assembly with both hands and install it to the differential carrier.

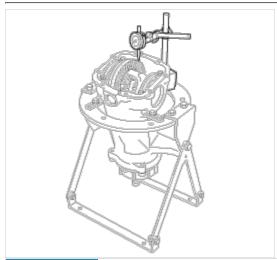


2. Instert the left/right diff shim between the diff side bearing and carrier. And then install the bearing cap with marks.



3. Adjust the diff shim.

Standard:0.10~0.15mm

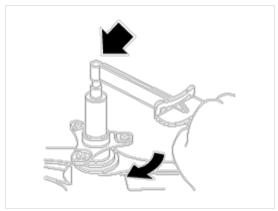


NOTICE

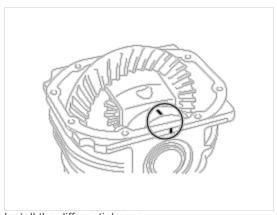
Thickness of the diff shim need to adjusted if backrash is small. Lessen the thickness of the left side diff shim. By contraries enlarge the thickness of the right side diff shim that much.

4. Measures the frea road.

Standard : Pinion freeroad : 1.9~4.9(0.2~0.5, 1.4~3.6)



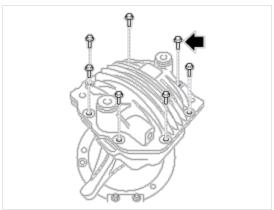
5. Applies a sealant in the carrier.



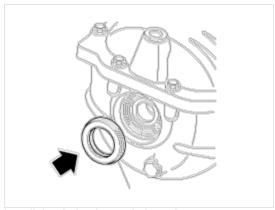
6. Install the differential cover.

Tightening torque Nm (kgf.m, lb-ft):

39.2 ~ 49.0 N.m (4.0 ~ 5.0 kgf.m, 28.9 ~ 39.1 lb-ft)

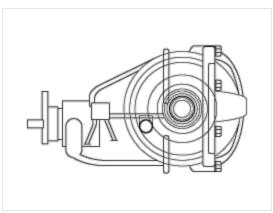


7. Install the diff oil seal.



8. Install the drain plug and pinar plug.

Pillar plug: 4 ~ 6 kgf.m Drain plug: 5 ~ 7 kgf.m



9. Install the air breather.

Tightening torque :

9.8 ~ 19.6 N.m (1.0 ~ 2.0 kgf.m, 7.2 ~ 14.4 lb-ft)

