Driveshaft and axle

General Information

SPECIAL TOOLS

| Tool (Number and Name) | Illustration | Use |
|---|-------------------------|---|
| 09495-33000 Puller | | Removal of wheel bearing inner race from a hub. |
| 09495-33100 Center bearing remover and installer | | Removal of a wheel bearing from a knuckle (use with 09517-29000) Installation of a hub to a knuckle. |
| 09517-21500 Front hub remover and installer (مسئوليت محدود) | | Removal of a front hub from a knuckle. (use with 09517-29000) Measurement of a front wheel bearing preload. (use with 09532-11600) |
| کاران خودرو در ایران | ین سامانه دیجیتال تعمیا | 9 |
| 09517-29000 Knuckle arm bridge | | Removal of a front hub from a knuckle. (use with 09517-21500) Removal of a wheel bearing outer race from a knuckle. (use with 09495-33100) |
| 09532-11600 Preload socket | | Measurement of a front wheel bearing pre-load . (use with 09517-21500) |

General Information

DS-3

| Tool (Number and Name) | Illustration | Use |
|---|--------------|---|
| 09532-11500 Bearing outer race installer | | Installation of a wheel bearing to knuckle. |
| 09568-34000 Ball joint puller | | Separation of a lower arm and a tie rod end ball joint. |

TROUBLESHOOTING

To begin a successful diagnosis, fill out the questions.

| DRIVE SHAFT CON | OITION : | Noise | Vibration | |
|-----------------------|--|-----------------|-----------|--------|
| Balance Weights Miss | si <mark>ng/Other Vis</mark> ual Defec | cts? Yes / No | | |
| Maximum Al | lo <mark>w</mark> able Runout : | •• • • | | |
| Actual Runo | سامانه (مسئ و | Front | _ Middle | Rear |
| Two-Piece D | rive shaft Runout : | Front | Rear | |
| Middle Supp | ort Bearing : | Loose Damag | worn Worn | Others |
| Suspect Drive shaft B | alanced ? | Yes / No | | |
| Pinion Angle: | Engine Height: | Specification _ | Actua | I |
| | Pinion Angle: | Specification _ | Actua | I |
| Drive shaft Angle - T | ruck : | Specific | cation | Actual |

EIKE002A

Driveshaft and axle

Once the concern is narrowed down to a symptom/condition, proceed to condition and Symptom Categories below.

Condition and Symptom Categories.

Operation Condition Vehicle is moving

Depends more one how the vehicle is operated

- 1. Speed related
 - Related to vehicle speed
 - a. Noise occurs at specific vehicle speed. A high pitch noise (whine).
 - Go to troubleshooting.
 - b. Loudness proportional to vehicle speed. Low frequency noise at high speeds, noise and loundness increase with speed. Go to Troubleshooting.

- 2. Acceleration
 - Light/moderate acceleration
 - a. Driveline shudder. Go to Troubleshooting.
- 3. Cruising speeds
 - -Driveline vibration. Go to Troubleshooting.

| Troubleshooting. | | |
|---|---|--|
| Symptom | Cause | Remedy |
| Hub howling or whine - Hub or transfer case | Axle lubricant low | Check the lubricant level. Fill the axle to specification |
| ما الما الما الما الما الما الما الما ا | Damaged or worn wheel bearings or axle bearings | Check for abnormal wheel bearing play or roughness. Refer to wheel Bearing Check in this section. Adjust or Install new wheel bearings as necessary. |
| Driveline clunk - loud clunk when shifting from reverse to drive | Excessive backlash in the axle or transmission | Carry out a total backlash check |
| | Loosen suspension components | Inspect the suspension for damage or wear.Repair or Install new components as necessary. |
| | Broken powertrain mounts | Inspect the powertrain mounts. Install new mounts as necessary. |
| | Idle speed too high | Check for the correct idle speed |
| Driveline clunk-occurs as the vehi- cle starts to move forward followin- g a stop | Worn drive shaft joints with excessive play | Inspect the joints for a worn condition. Install a new driveshaft as necessary. |
| Driveline clunk-occurs during acceleration or from cruise to coast/deceleration | Damaged or worn tripod joints | Inspect the joint and boot. Repair or Install a new joint as necessary. |
| Quirer-noise from the rear hub, occurs when driving on rugged roads | Cap seperation from the hub bearing | Remove the rear hub check the hub bearing cap. Install a new cap if necessary. |

General Information

DS-5

| Symptom | Cause | Remedy |
|--|--|--|
| Clicking, popping or grinding-occurs while vehicle is turning | Inadequate or contaminated lubrication in the joints | Check the joint boots and joints for wear or damage. Repair or Install new components as necessary. |
| | Another component contacting the drive shaft | Check the drive shafts and around the drive shafts. Repair as necessary. |
| | Brake components | Inspect the front brakes for wear or damage. Repair as necessary. |
| | Suspension components | Inspect the lower arm ball joints for wear or damage. Repair as necessary. |
| | Damaged or worn wheel bearings | Check for abnormal wheel bearing play or roughness. Refer to wheel bearing check in this section. Adjust or Install new wheel bearings as necessary. |
| Clicking or snapping-occurs when accelerating around a corner | Damaged or worn birfield joints | Inspect the Birfield joints and boots. Repair or Install a new joint as necessary. |
| Buzz-buzzing noise is the same at cruise or coast/deceleration | Damaged or worn tires | Check for abnormal tire wear or damage. Install a new tire as necessary. |
| Driveline shudder-occurs during a- cceleration from a slow speed or s- top | Rear axle assembly mispositioned | Check the axle mounts and the rear suspension for damage or wear. Repair as necessary. |
| کاران خودرو در ایران | Loose rear axle bolts | Inspect the bolts. Tighten the bolt nuts to specification. |
| | Damaged or worn front suspension components | Check for a loose stabilizerbar, damagedor loose strut/strut bushings or looseor worn ball joints. Inspect the steering linkage for wear or damage. Repair or Install new components as necessary. |
| | Binding the drive shaft joint | Inspect the drive shaft shaft joint for worn, or damaged condition. Install a new drive shaft assembly as necessary. Repair as necessary. |
| | Loose rear axle bolts | Inspect the bolts. Tighten the bolts to specification. |

Driveshaft and axle

| Symptom | Cause | Remedy |
|---|---|--|
| Driveline vibration-occurs at cruising speeds | Binding or damaged drive shaft joint | Inspect the drive shaft joint for wear or damage. Install a new drive shaft assembly as necessary. |
| | Incorrect lateral and radial tire/wheel runout | Inspect the tire and wheels. Measure tire runouts. Repair or Install new components as necessary. |
| | Incorrectly seated joint in the front wheel hub | Check the Birfield joint for correct seating into the hub. Repair as necessary. |

SPECIFICATIONS

| | Item | | 1.6L M/T | 1.6L A/T | 2.0L M/T | 2.0L A/T | 2.0DSL M/T |
|-------------------------------|------------|------------------------|---------------|--------------------|----------|----------|------------|
| laint turn | Outer | BJ | BJ | BJ | BJ | BJ | |
| Drive shoft | Joint type | Inner | UTJ-II | UTJ-II | UTJ-II | TJ | UTJ-II |
| Drive shaft Maximum pe- | | Outer | 46° or more | | | | |
| | | | 23° or more | 23° or more | | | |
| Hub end play mm (in.) | | 0.008 (0.0003) or less | | | | | |
| Wheel bearing starting torque | | | 1.8 Nm (18 kg | ·cm, 1.3 lb·ft) oi | less | Q | |

BJ: Birfield Joint

شرکت دیچیتال خودر و سامانه (مسئولیت TJ : Tripod Joint

UTJ-II: U TYPE-II Tripod Joint

M/T : Manual Transaxle

A/T : Automatic Transaxle

TIGHTENING TORQUE

| | Nm | kg-cm | lb-ft |
|---|-----------------|-------------|-----------|
| Drive shaft lock nut | 200 ~ 250 | 2000 ~ 2500 | 145 ~ 188 |
| Knuckle to strut assembly nut | 130 ~ 150 | 1300 ~ 1500 | 94 ~ 108 |
| Lower arm ball joint to knuckle nut | 60 ~ 7 2 | 600 ~ 720 | 43 ~ 52 |
| Tie rod end to knuckle | 16 ~ 34 | 160 ~ 340 | 12 ~ 25 |
| Brake caliper to knuckle | 69 ~ 85 | 690 ~ 850 | 50 ~ 61 |
| Wheel nut | 90 ~ 110 | 900 ~ 1100 | 65 ~ 80 |
| Rear hub bearing flange nut | 200 ~ 260 | 2000 ~ 2600 | 145 ~ 188 |
| Rear brake to rear axle carrier mounting bolt | 65 ~ 75 | 650 ~ 750 | 47 ~ 54 |
| Rear strut to carrier nut | 110 ~ 130 | 1100 ~ 1300 | 80 ~ 94 |
| Trailing arm to rear axle carrier mounting nut | 100 ~ 120 | 1000 ~ 1200 | 72 ~ 87 |
| Rear suspension arm to rear axle carrier mounting nut | 130 ~ 150 | 1300 ~ 1500 | 94 ~ 108 |
| Brake disc to hub | 5~6 | 50 ~ 60 | 3.6 ~ 4.3 |

⚠CAUTION

Replace self-locking nuts with new ones after removal.

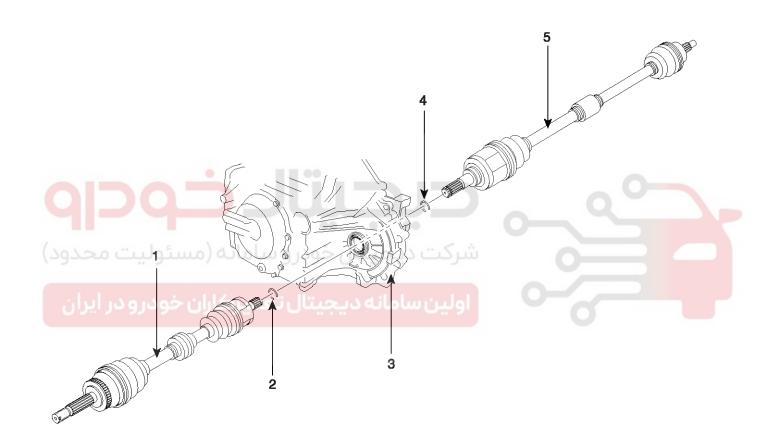
Driveshaft Assembly

DS-7

Driveshaft Assembly

Front Driveshaft

COMPONENTS



2. Clip

BIGE001H

^{1.} Driver shaft (LH)

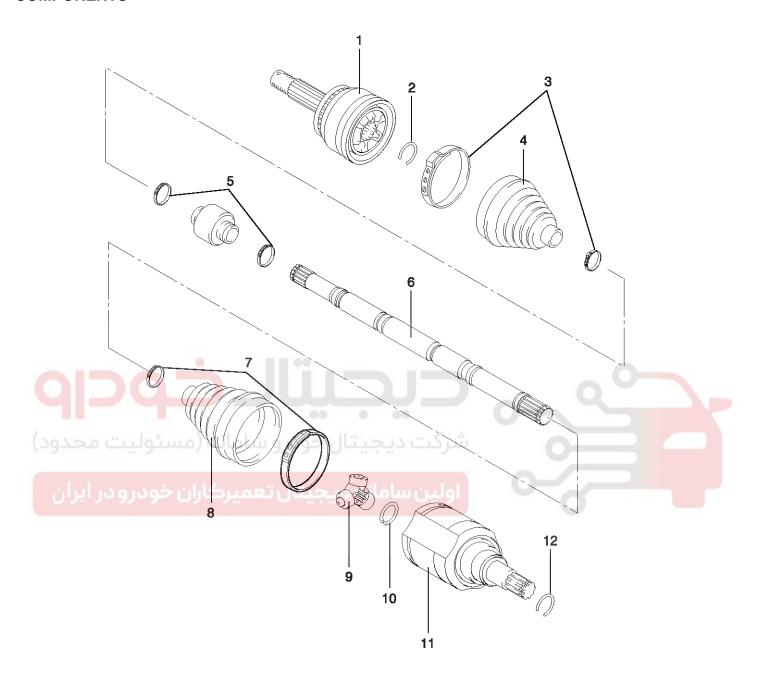
³ Transaxle

^{4.} Clip

^{5.} Driver shaft (RH)

Driveshaft and axle

COMPONENTS



- 1. BJ assembly
- 2. Clip
- 3. BJ boot bands
- 4. BJ boot
- 5. Dynamic damper bands
- 6. Shaft

- 7. TJ boot bands
- 8. TJ boot
- 9. Spider assembly
- 10. Clip
- 11. TJ case
- 12. Clip

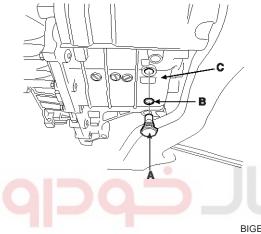
BIGE004A

Driveshaft Assembly

DS-9

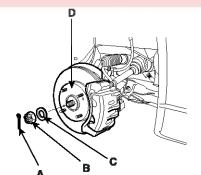
REMOVAL

- 1. Loosen the wheel nuts slightly.
- 2. Raise the front of the vehicle and support it with safety stands in a proper location.
- 3. Remove the front wheel and tire.
- 4. Remove the drain plug(A). Drain the transaxle oil.
 - a. Lay a bottle keeping the gear oil under transaxle.
 - b. Remove drain plug(A) and washer(B) in the lower part of transaxle(C).



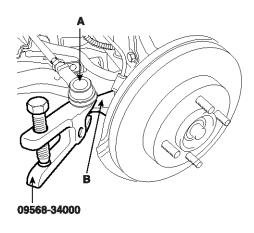
BIGE001A

5. Remove the split pin(A), the lock nut(B) and the washer(C) from the front hub(D) under applying the brake.



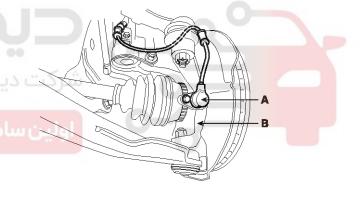
BIGE001B

6. Disconnect the tie rod end ball joint(A) from the knuckle(B) using the Special Tool (09568-34000) after removing the split pin and lock nut.



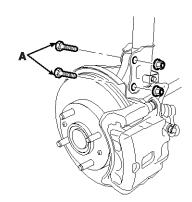
AIGE001B

7. Remove the wheel speed sensor(A) form the knuckle(B).



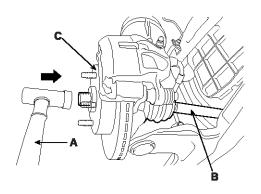
BIGE001D

8. Disconnect the strut upper mounting bolts(A).



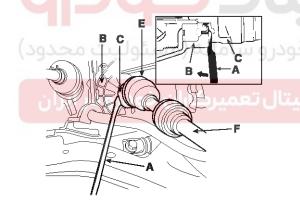
BIGE001E

9. Using a plastic hammer(A), disconnect the drive shaft(B) from the axle hub(C).



BIGE001F

- 10. Push the axle hub(C) outward and separate the drive shaft(B) from the axle hub(C).
- 11.Insert a pry bar(A) between the transaxle case(B) and joint case(C), and separate the drive shaft from the transaxle case(B).



BIGE001G

ACAUTION

- Use a pry bar(A) being careful not to damage the transaxle and joint.
- Do not insert the pry bar(A) too deep, as this may cause damage to the oil seal. [max. depth: 7mm (0.28 in.)]
- Do not pull the drive shaft by excessive force it may cause components inside the BJ or TJ joint(C) kit to dislodge resulting in a torn boot(E) or a damaged bearing.

Driveshaft and axle

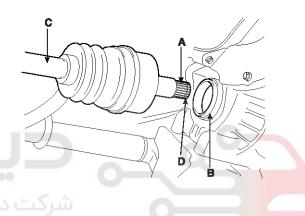
12. Pull out the drive shaft(F) from the transaxle case(B).

ACAUTION

- Plug the hole of the transaxle case with the oil seal cap to prevent contamination.
- · Support the drive shaft properly.
- Replace the retainer ring whenever the drive shaft is removed from the transaxle case.

INSTALLATION

- 1. Applygear oil on the drive shaft splines(A) and the contacting surface of differential case oil seal(B).
- 2. Before installing the drive shaft(C), set the opening side of the clip(D) facing downward.



BIGE003A

- 3. After installation, check that the drive shaft cannot be removed by hand.
- 4. Install the drive shaft into the knuckle.

ACAUTION

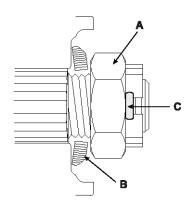
Be careful not to damage the boot.

- 5. Installthe knuckle in the strut assembly with the tightening torque, 130~150 Nm (1300~1500 kg·cm, 94~108 lb·ft).
- Install the wheel speed sensor in the knuckle with the tightening torque 8~10Nm (80~100kg·cm, 5.8~7.2 lb·ft).
- Install the tie rod end ball joint in the knuckle with the tightenig torque 16~34 Nm (160~340 kg·cm, 12~25 lb·ft)

Driveshaft Assembly

DS-11

8. After installing the washer(B) with convex surface outward, install the lock nut(A) and the split pin(C).



BIGE003B

9. Install the wheel and tire.

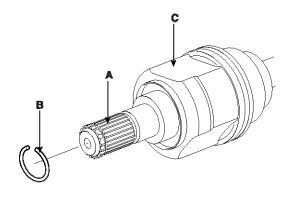
INSPECTION

- Check the drive shaft boots for damage and deterioration.
- 2. Check the ball joints for wear and damage.
- 3. Check the splines for wear and damage.
- 4. Check the dynamic damper for cracks and wear.

DISASSEMBLY

MNOTICE

- Do not disassemble the BJ assembly.
- Special grease must be applied to the drive shaft joint. Do not substitute with another type of grease.
- The boot band should be replaced with a new one.
- 1. Remove the clip(B) from drive shaft splines(A) of the transaxle side TJ case(C).

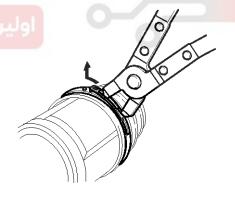


BIGE005A

Remove both boot bands from the transaxle side TJ case.



BIGE002A

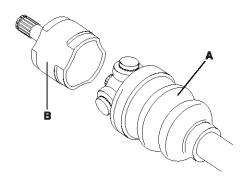


AIGE004A

3. Pull out the boot from the transaxle side joint(TJ).

Driveshaft and axle

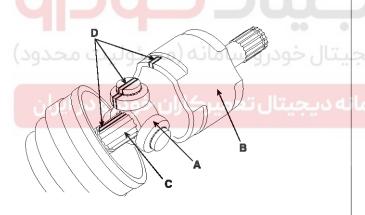
4. When separating the joint and boot(A), remove the grease from the TJ case(B).



AIGE004B

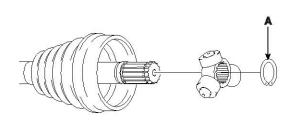
ACAUTION

- Be careful not to damage the boot.
- Make alignment marks on spider roller assembly(A), TJ case(B), and shaft splines(C) to aid reassembly.



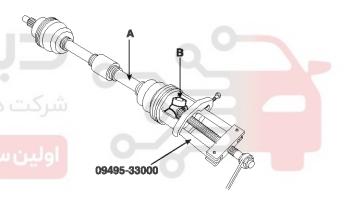
BIGE005D

5. Using a plier or flat-tipped (-) screwdriver, remove the snap ring(A).



BIGE005E

6. Remove the spider assembly(B) from drive shaft(A) by using the Special Tool(09495-33000).



BIGE005F

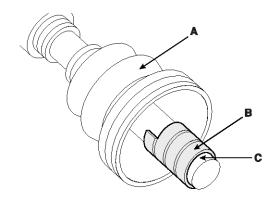
Driveshaft Assembly

DS-13

- 7. Clean the spider assembly.
- 8. Remove the boot(A), of the transaxle side joint(TJ).

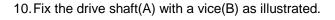
ACAUTION

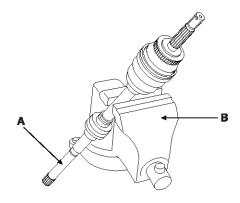
Wrap tape(B) around the driveshaft splines(C) to protect the boot(A).



BIGE005G

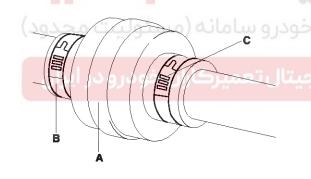
Remove both side of bands(B,C) of the dynamic damper(A).



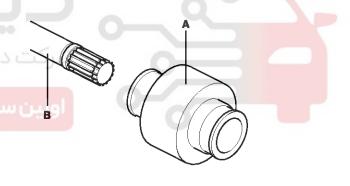


BIGE005I

- 11. Apply soap powder on the shaft to prevent being damaged between the shaft spline and the dynamic damper when the dynamic damper is removed.
- 12. Separate dynamic damper(A) from the shaft(B) carefully.



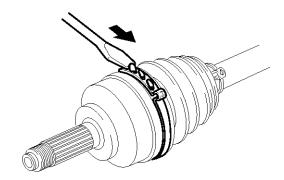
AIGE004C



AIGE004D

Driveshaft and axle

13. Remove both bands on the side of wheel.



AIGE004E

14. Pull out the joint(BJ) boot on the side of wheel into the transaxle direction.

Be carefull not to damage the boot.



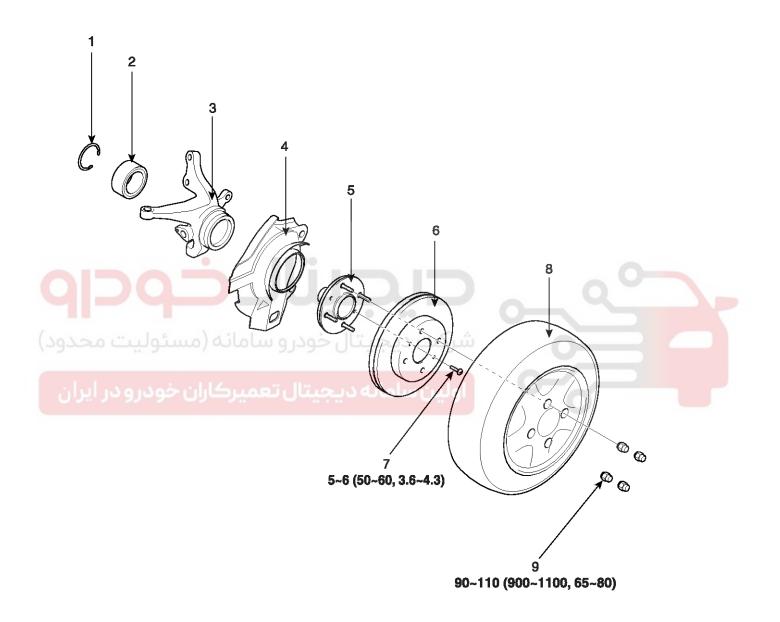


Front Axle Assembly

DS-15

Front Axle Assembly

Front Hub - Axle
COMPONENTS



TORQUE: N·m (kg·cm, lb·ft)

- 1. Snap ring
- 2. Front wheel hub bearing
- 3. Front axle assembly
- 4. Front brake disc dust cover
- 5. Front wheel hub assembly

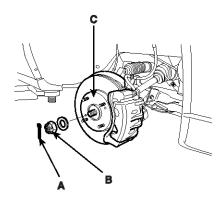
- 6. Front wheel brake disc
- 7. Front brake disc fixing screw
- 8. Front wheel/tire
- 9. Front wheel nut

BIGE008A

Driveshaft and axle

REMOVAL

- 1. Remove the front wheel and tire.
- 2. While applying the brakes, remove the split pin(A), then remove the locknut(B) and washer from the front hub(C).

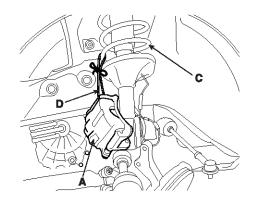


AIGE001A

 Remove the caliper(A) from the knuckle(B) and hang the caliper(A) on the front damper(C) with wire(D).

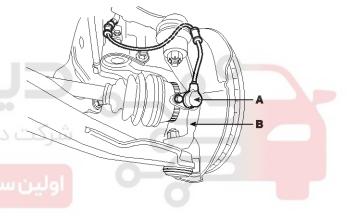


BIGE009B



BIGE009C

4. Remove the wheel speed sensor(A) from the knuckle(B).



BIGE009D

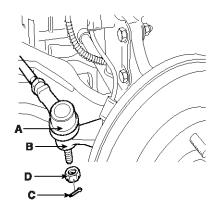
5. Disconnect the tie rod end ball joint(A) from the knuckle(D) using the special tool(09568-34000).

MOTICE

Be sure to secure the ball joint, remove tool to the vehicle so that it doesn't fall when the ball joint is removed.

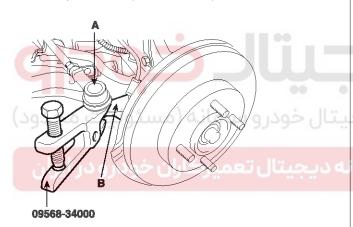
Front Axle Assembly

DS-17



AIGE006C

- a. Remove the split pin(C).
- b. Remove the lock nut (D).
- c. Disconnect the ball joint(A) from knuckle(B) using the special tool (09568-34000).



AIGE001B

- 6. Disconnect the strut assembly from the knuckle.
- 7. Disconnect the lower arm ball joint from the knuckle using the special tool.
- 8. Remove the hub and knuckle as an assembly.

ACAUTION

Be careful not to damage the boot and tone wheel.

INSTALLATION

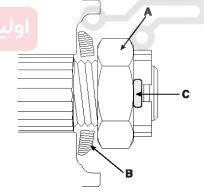
1. Installation is the reverse of the removal procedures.

MOTICE

Tighten the components below to the specified torque as follows:

| Items | Torque Nm (kg-cm, lb-ft) |
|-------------------------------------|---------------------------------|
| Drive shaft lock nut | 200~250 (2000~2500, 147~184) |
| Lower arm ball joint to knuckle nut | 60~72 (600~720, 43~52) |
| Knuckle to strut assembly nut | 130~150 (1300~1500, 94~108) |

- 2. Install the strut assembly and the drive shaft in the knuckle.
- 3. Tighten the lower arm ball joint nut
- 4. Connect the wheel speed sensor.
- 5. Install the caliper assembly in the hub and knuckle assembly which the brake disc is already installed.
- 6. Tighten the tie rod end ball joint nut and insert the split pin.
- 7. Insert the washer(B) and tighten the lock nut(A).
- 8. Insert the split pin(C).



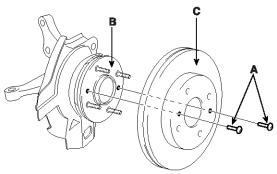
BIGE013A

9. Install the wheel and tire and tighten the wheel nuts.

Driveshaft and axle

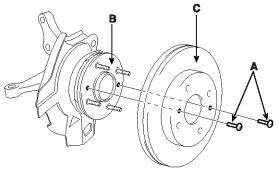
DISASSEMBLY

1. After removing the fixed screws(A) mounting the brake disc(C), remove the brake disc(C) from the hub(B).



BIGE010A

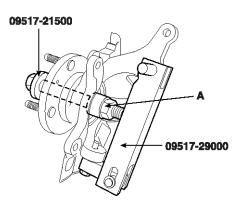
2. Remove the snap ring(A).





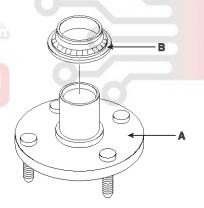
BIGE010B

3. Install the special tools(09517-29000, 09517-21500) as shown in illustration below.



BIGE010C

- 4. Separate the hub from the knuckle by turning nut(A) of the special tool(09517-21500).
- 5. Using a plastic hammer, remove the dust cover from the knuckle.
- 6. Remove the bearing inner race(B) from the hub(A) using the special tool (09495-33000).

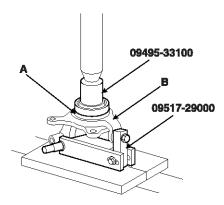


BIGE010D

Front Axle Assembly

DS-19

7. Using the special tools (09495-33100, 09517-29000), remove the wheel bearing outer race(A)from the knuckle(B).



BIGE010E

INSPECTION

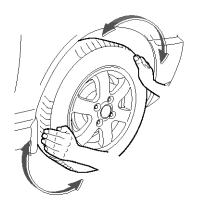
Wheel Bearing Check

- 1. Raise the vehicle unitl the front tires are off the floor.
 - Make sure the wheels are in a straight forward position.

MOTICE

Make sure the wheel rotates freely and that the brake pads are retraced sufficiently to allow free movement of the tire and wheel assembly.

Spin the tire by hand to check the wheel bearings for roughness.



BIGE011A

Grip each front tire at the top and bottom and move the wheel inward and outward while lifting the weight of the tire off the front wheel bearings.



BIGE011B

- 3. If the tire and wheel (hub) is loose on the spindle, does not rotate freely, or has a rough feeling when spun, carry out one of the following.
 - On vehicles with inner and outer bearings, inspect the bearings and races for wear or damage. Adjust or install new bearing and races as necessary.
- 4. Check the hub for cracks and the splines for wear.
- 5. Check the brake disc for scoring and damage.
- 6. Check the knuckle for cracks.
- Check the bearing for cracks or damage.

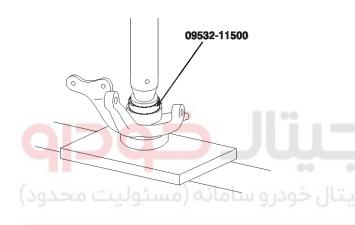
Driveshaft and axle

REASSEMBLY

- 1. Apply multi-purpose grease to the contacting surface of the knuckle hub and bearing thinly.
- 2. Using the Special Tool (09532-11500), press-in the bearing to the knuckle.
 - a. Install the snap ring.

MOTICE

- Press-in the outer race of the wheel bearing to prevent damage to the bearing assembly.
- When installing a bearing assembly, always use a new one.
- The right and the left bearings must be replaced as a matched set.



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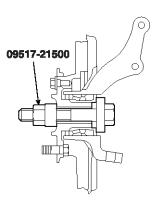
- 3. Using a plastic hammer, install the dust cover.
- 4. Press-in the hub to the knuckle.

MOTICE

Press-in the inner race of the wheel bearing to prevent damage to the bearing assembly.

5. Tighten the hub and the knuckle to the specified torque using the Special Tool (09517-21500).

Specified torque Nm (kg-cm, lb-ft) $200 \sim 250 (2000 \sim 2500, 147 \sim 184)$

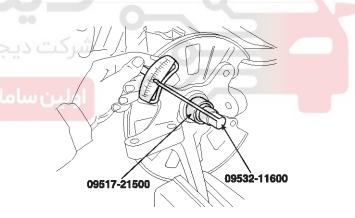


BIGE012B

6. Measure the hub bearing starting torque.

Hub bearing starting torque [Limit]

1.8 Nm (18 kg·cm, 1.3 lb·ft) or less

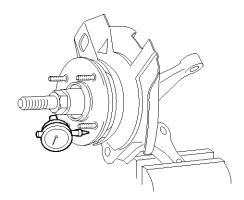


BIGE012C

Front Axle Assembly

DS-21

7. If the starting torque is 0 Nm (0 kg·cm, 0 lb·ft), measure the hub bearing axial play.



BIGE012E

8. If the hub axial play exceeds the limit while the nut is tightened to 200~260 Nm (2000~2600kg·cm, 145~188 lb·ft), the bearing, hub and knuckle are not installed correctly. Repeat the disassembly and assemblyprocedure.

Hub bearing axial play [Limit] 0.008 mm (0.0003 in.) or less

- 9. Remove the Special Tool.
- 10. Fix the brake disc with the mounting screws.

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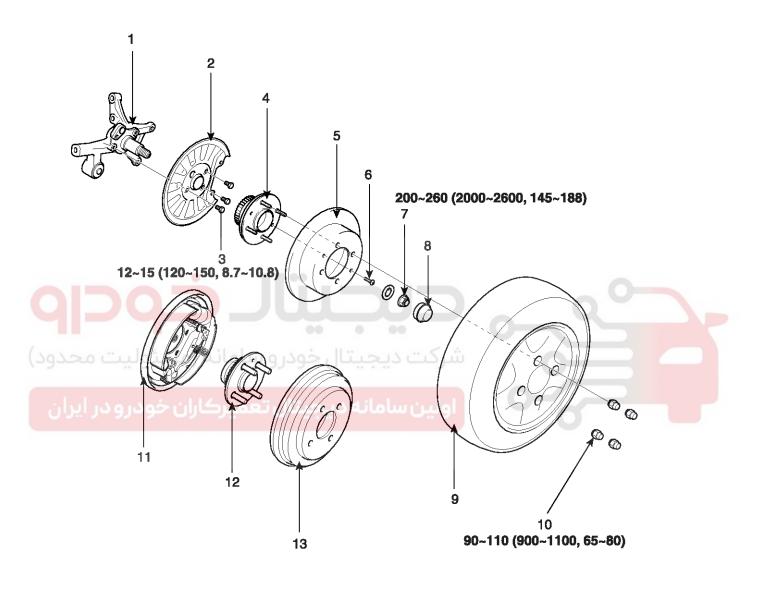


Driveshaft and axle

Rear Axle Assembly

Rear Hub - Carrier

COMPONENTS



CAUTION

The right and the left bearing must be made in the same company.

TORQUE: N·m (kg·cm, lb·ft)

- 1. Rear axle carrier assembly
- 2. Rear brake disc dust cover
- 3. Dust cover fixing nut
- 4. Rear wheel hub assembly
- 5. Rear brake disc
- 6. Rear brake disc fixing screw
- 7. Rear wheel bearing nut

- 8. Rear wheel hub cap
- 9. Rear wheel / tire
- 10. Rear wheel nut
- 11. Rear brake shoe assembly
- 12. Rear wheel hub assembly
- 13. Rear brake drum

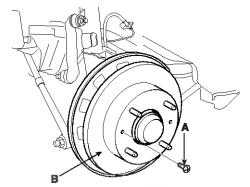
Rear Axle Assembly

DS-23

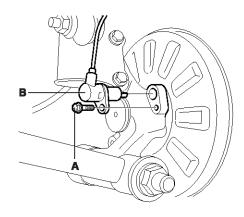
BIGE014A

REMOVAL

- 1. Loosen the wheel nuts slightly.
- 2. Raise rear of the vehicle.
- 3. Loosen the rear wheel nuts thoroughly and remove the rear wheel and tire.
- 4. Remove the fixed screw (A) of the brake disc (B), and then remove the brake disc (B).

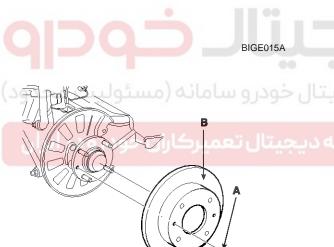


5. Remove the bolt(A) and the separate the rear wheel speed sensor(B).

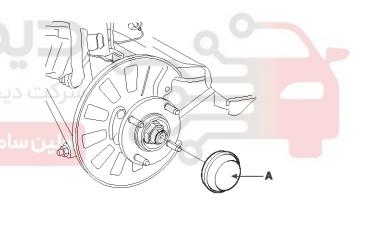


AIGE008A

6. Using a flat-tipped screwdriver, remove the wheel hub cap(A).



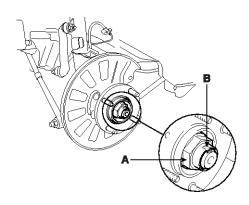
BIGE015B



BIGE015D

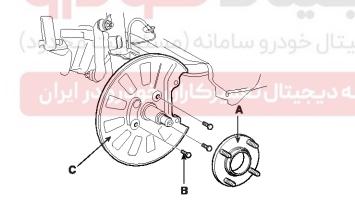
Driveshaft and axle

- 7. Remove the wheel bearing nut(A).
 - a. Using a flat-tipped (-) screwdriver, spread out the groove(B) on the bearing nut(A).
 - b. Loosen the wheel bearing nut(A).



BIGE015E

Remove the rear wheel hub assembly(A).
 Remove the bolts(B) and then remove the dust cover(C).

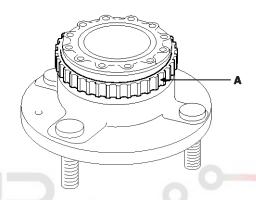


BIGE015F

WNOTICE

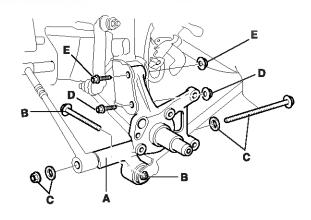
- The rear hub assembly should not be disassembled.
- (For vehicles equipped with ABS)

Care must be taken not to scratch or damage the teeth of the rotor(A). The rotor(A) must never be dropped. If the teeth of the rotor(A) are chipped, it results in deformation of the rotor(A). It will make it impossible to detect the wheel rotation speed accurately and to operate the system normally.



BIGE015G

- 9. Remove the rear axle carrier(A).
 - a. Loosen the 4nuts(B,C,D,E) shown in illustration below.



AIGE008C

Rear Axle Assembly

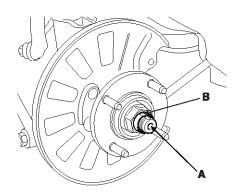
DS-25

INSTALLATION

 After tightening the wheel bearing nut, caulk the concave portion(B) of the spindle(A) by crimping the nut.

ACAUTION

Replace the wheel bearing nut with new ones after removal.



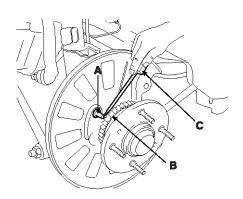
BIGE016A

2. Installation of the rear speed sensor(A) (For vehicles equipped with ABS):

Insert a feeler gauge(C) into the space between the pole piece of the speed sensors(A) and the rotor teeth(B) surface, and then tighten the speed sensors(A) at the position where the clearance at all places is within the standard value.

Standard value

Clearance: 0.2~1.3 mm (0.008~0.051 in.)



BIGE016B

3. Install the hub cap.

INSPECTION

- 1. Check the oil seal for cracks or damage.
- 2. Check the rear hub bearing for wear or damage.
- 3. Check the rear rotor for chipped teeth.
- 4. Check the rear carrier for cracks.

