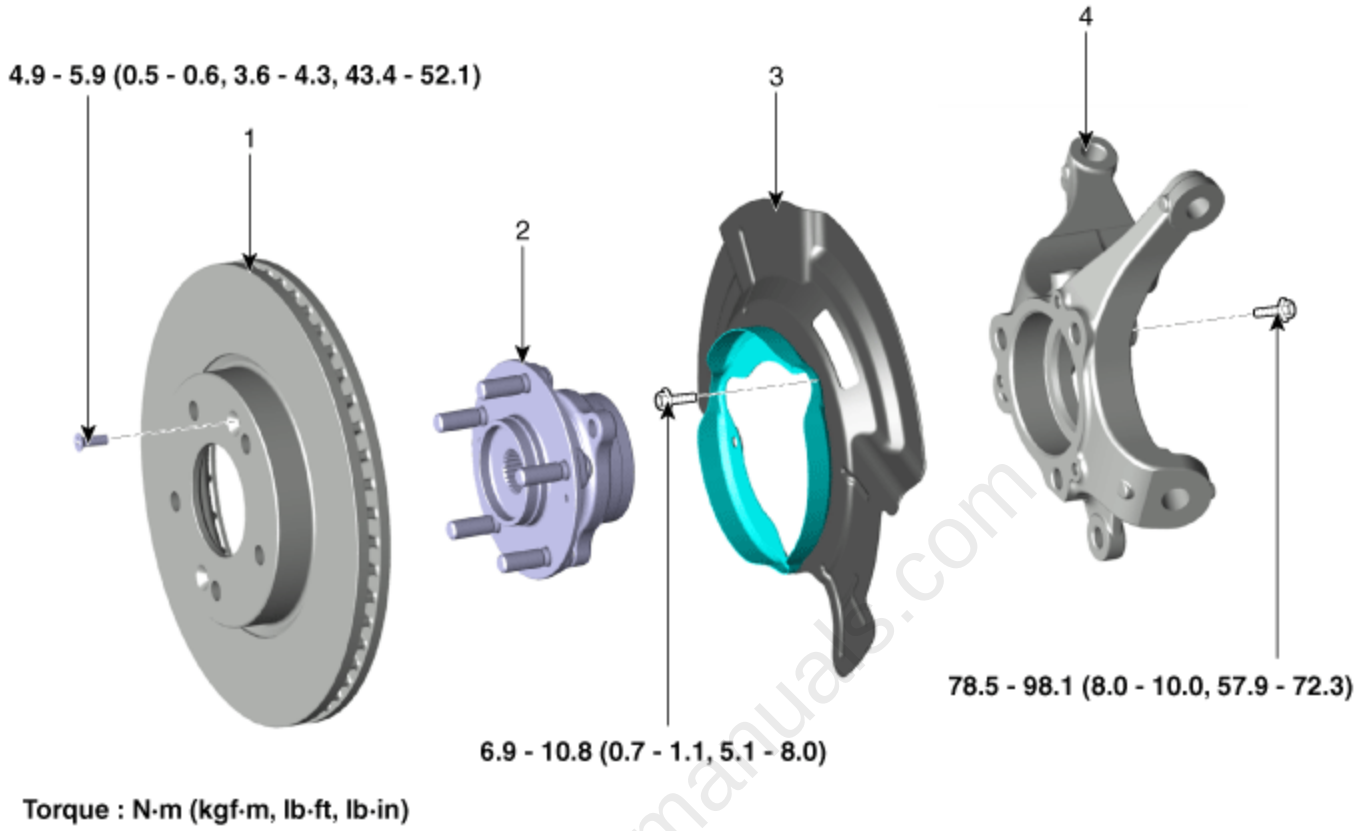
Driveshaft and axle / Front Hub / Knuckle

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Components and components location

Components



1. Front brake disc
2. Front hub bearing
3. Dust cover
4. Knuckle

Repair procedures

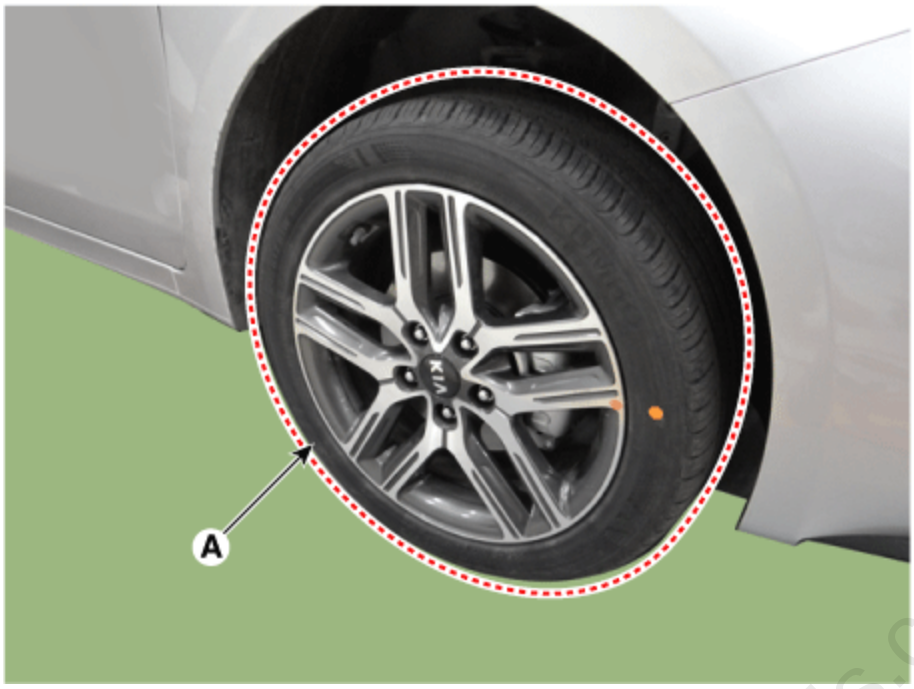
Removal and Installation

1.
Remove the front wheel and tire (A).

Tightening torque:

107.9 - 127.5 N·m (11.0 - 13.0 kgf·m, 79.6 - 94.0 lb·ft)

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NOTICE

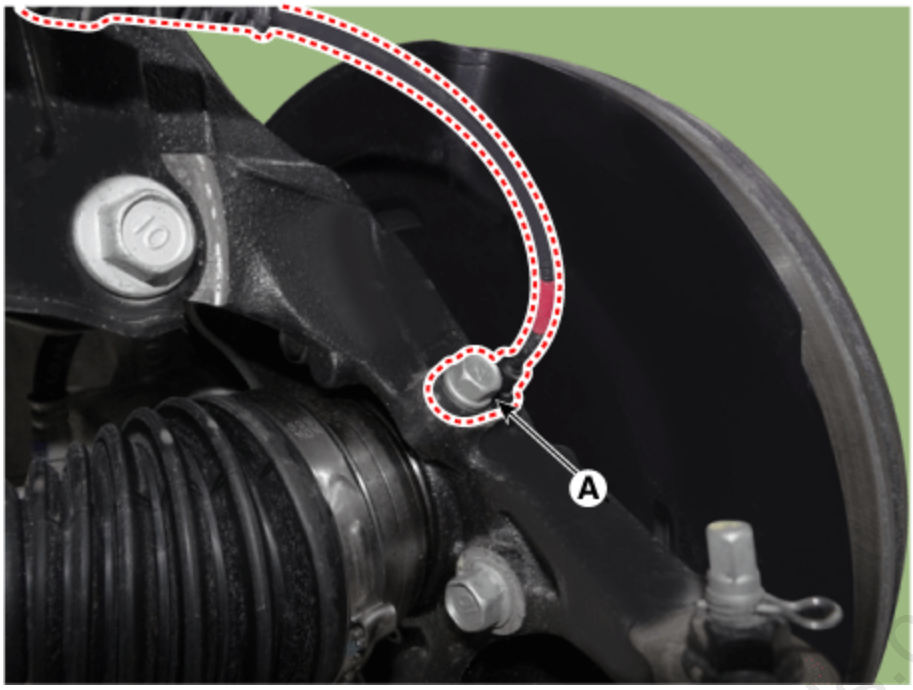
Be careful not to damage to the hub bolts when removing the front wheel and tire.

2. Disconnect the front wheel speed sensor (A).

   Tightening torque:

   8.8 - 13.7 N·m (0.9 - 1.4 kgf·m, 6.5 - 10.1 lb·ft)

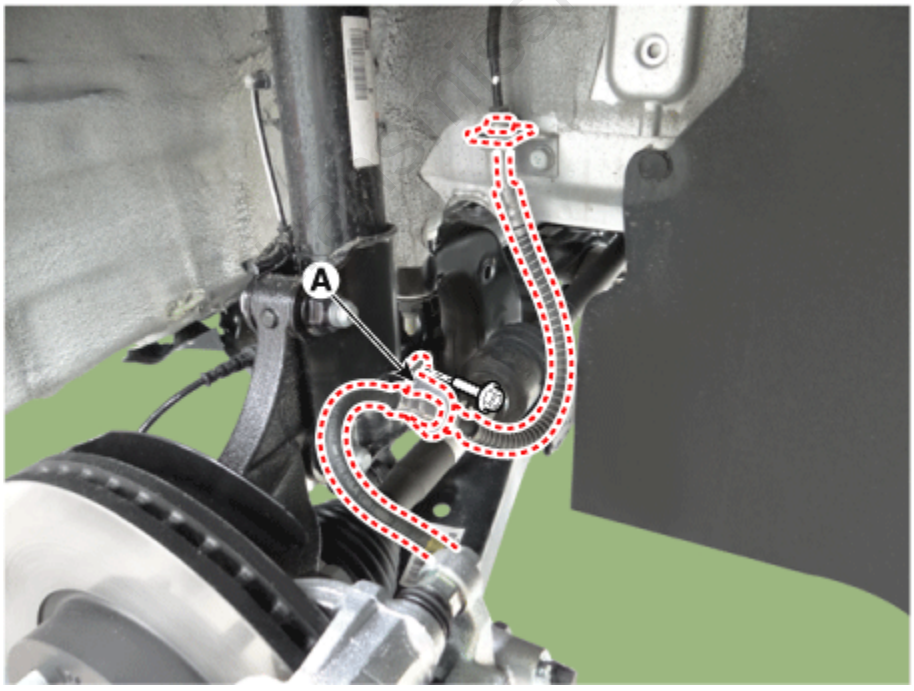
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3. Disconnect the brake hose bracket (A).

Tightening torque:

8.8 - 13.7 N·m (0.9 - 1.4 kgf·m, 6.5 - 10.1 lb·ft)

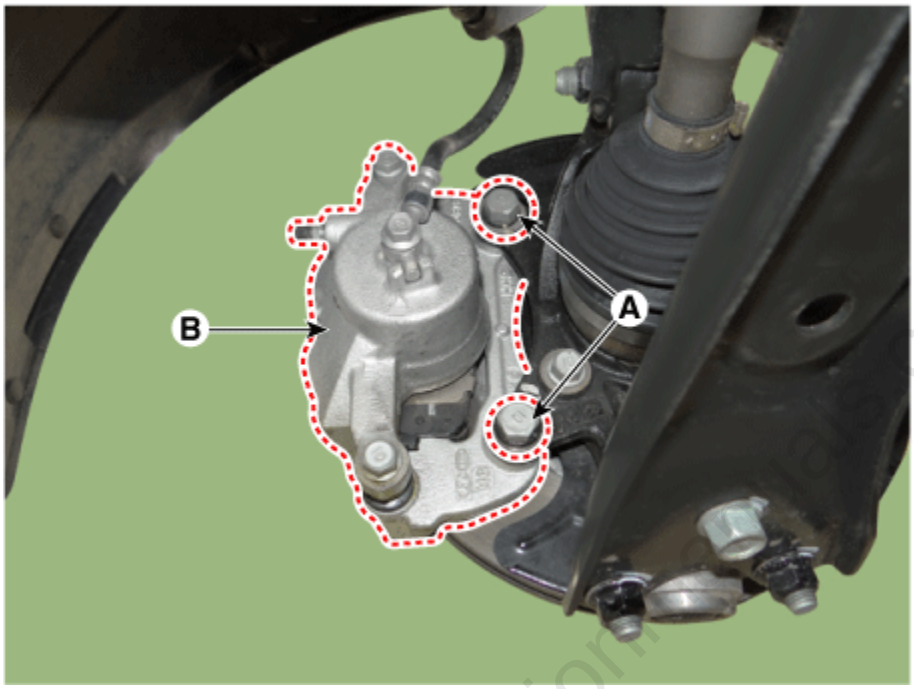


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4.
Remove the brake caliper mounting bolts (A), and then hold the brake caliper assembly with wire.

Tightening torque:

78.4 - 98.0 N·m (8.0 - 10.0 kgf·m, 57.8 - 72.3 lb·ft)



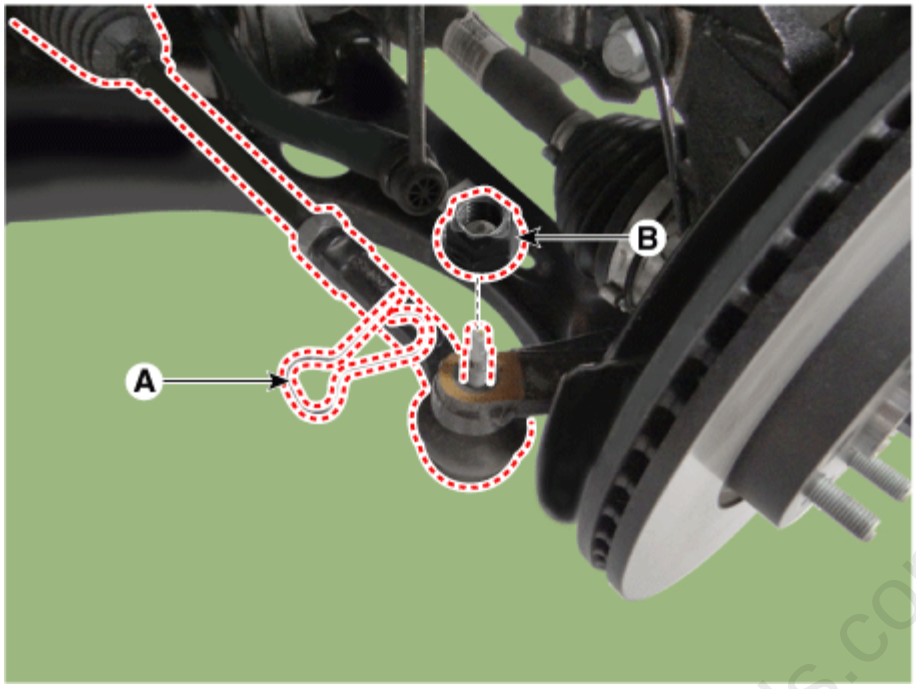
5.
Disconnect the tie rod end ball joint from the knuckle by using the SST (09568-1S100).

(1)
Remove the split pin (A).

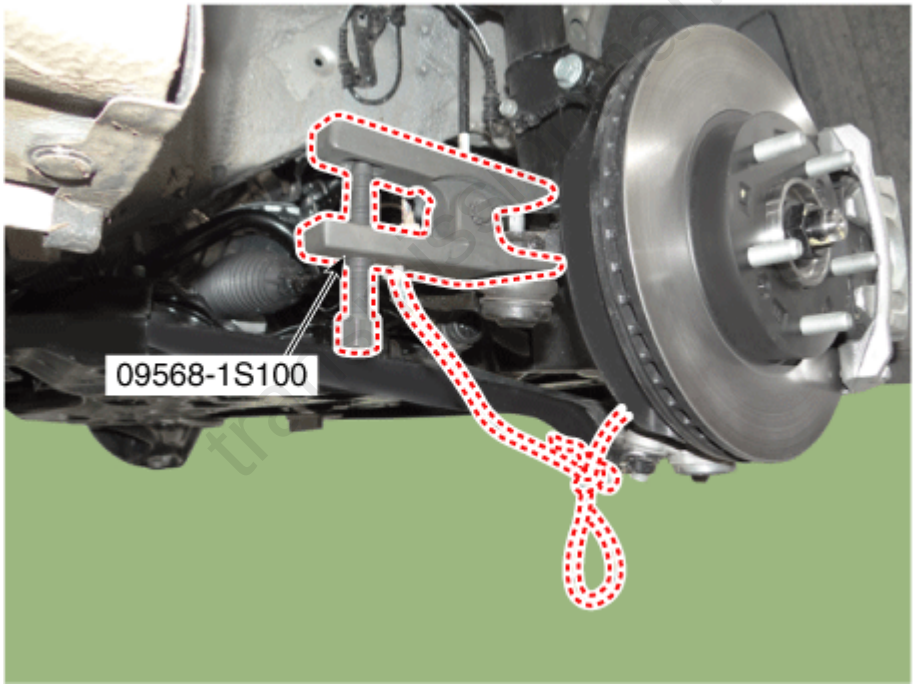
(2)
Remove the castle nut (B).

Tightening torque:

34.3 - 44.1 N·m (3.5 - 4.5 kgf·m, 25.3 - 32.5 lb·ft)



(3)
Disconnect the tie rod end ball joint from the knuckle by using the SST (09568-1S100).

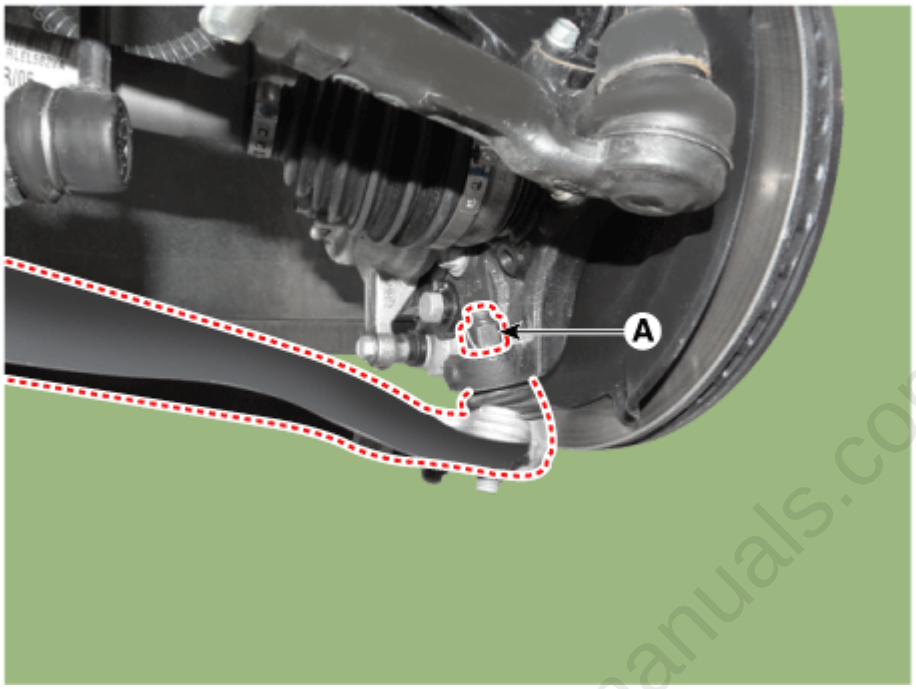


6.
Disconnect the lower arm from the knuckle by using the SST (09568-1S100).

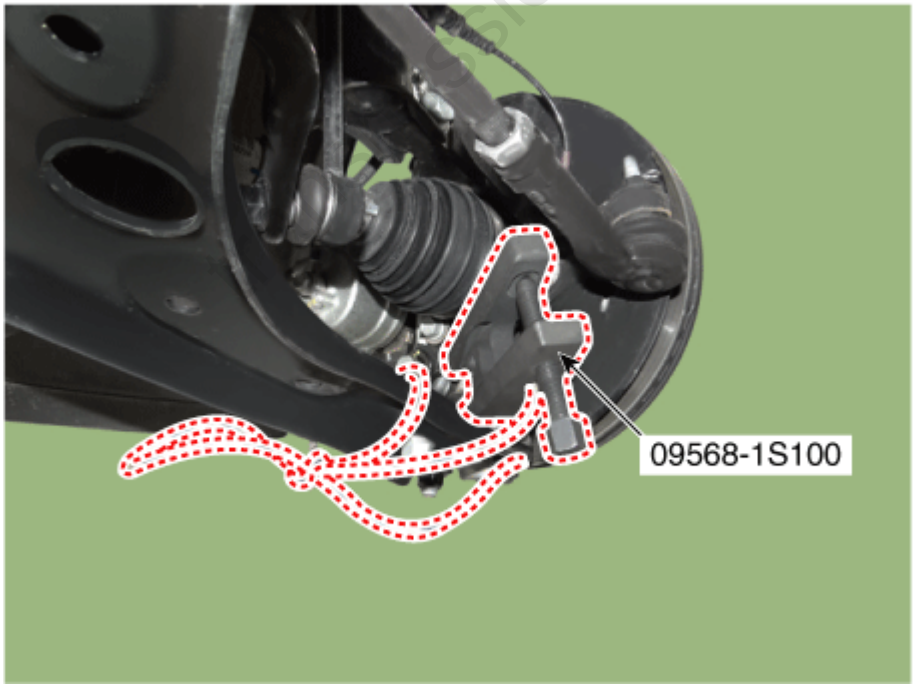
(1)
Remove the lower arm nut (A).

Tightening torque:

58.8 - 70.6 N·m (6.0 - 7.2 kgf·m, 43.4 - 52.1 lb·ft)



(2)
Disconnect the lower arm from the knuckle by using the SST (09568-1S100).



NOTICE

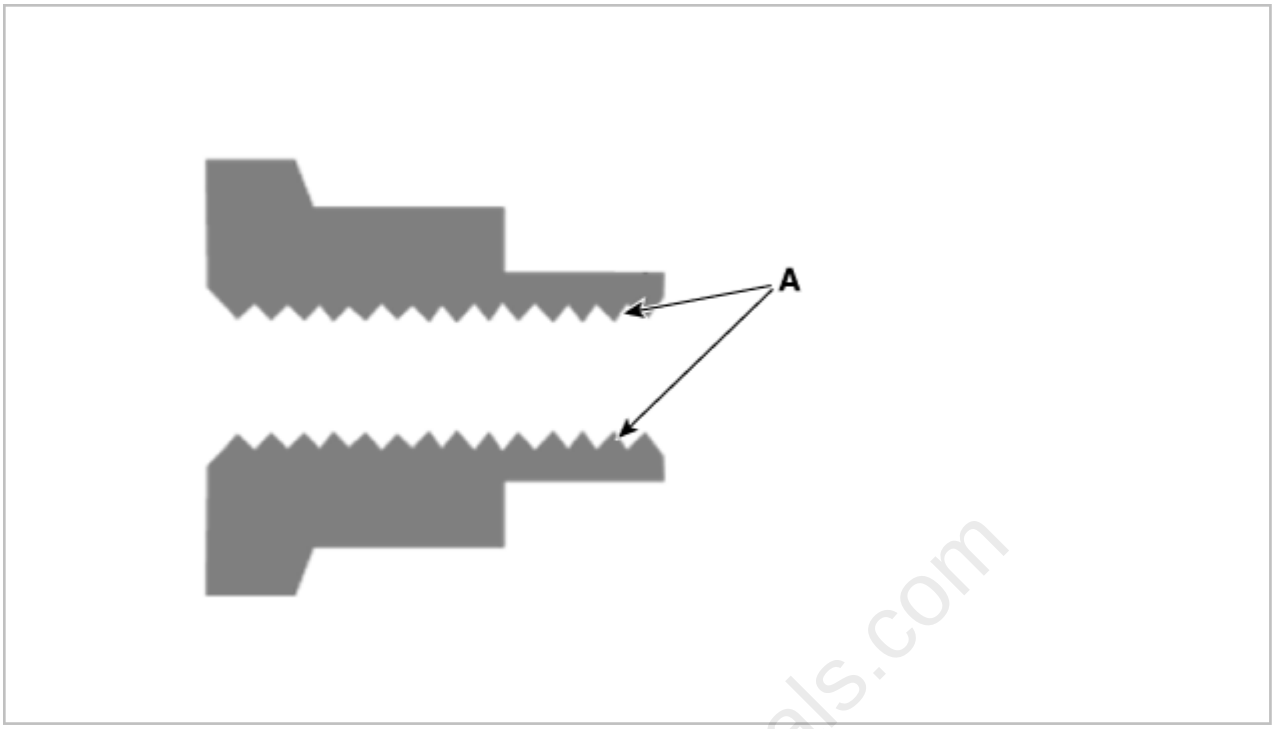
- When using SST, be sure not to damage the dust cover of lower arm ball joint.
- Keep SST tied to the car because there is a risk of injury by dropping the SST during removing the lower arm ball joint.
- The peripheral parts may be damaged when removing the lower arm ball joint with a general tool such as lever, so be sure to use SST.

7. By hammering on a chisel, unlock the driveshaft lock hub nut caulking.



NOTICE

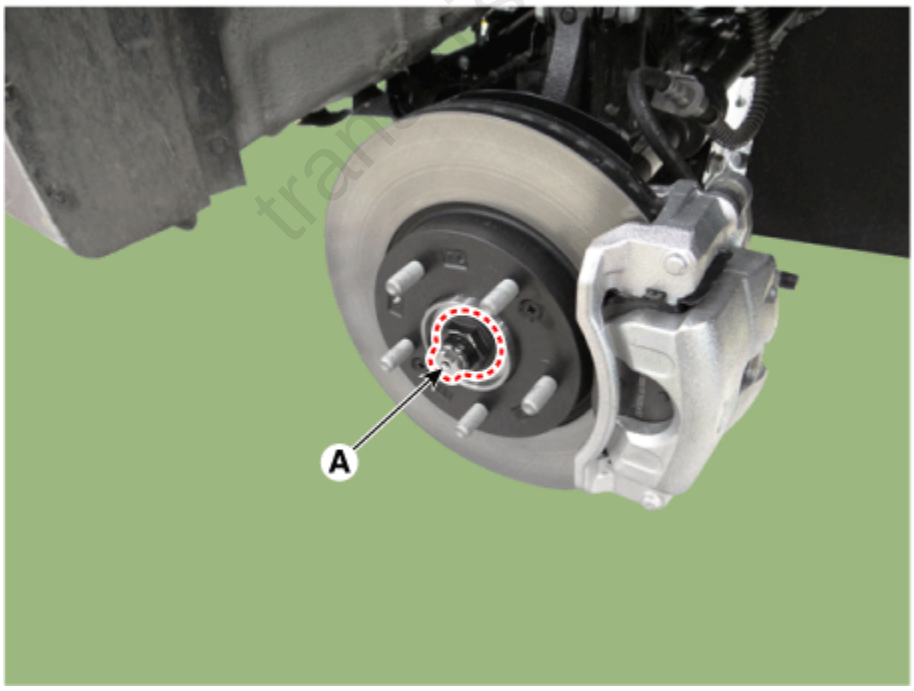
If there is screw thread (A) on the end of the nut, unlock the caulking by using a chisel and then loosen the nut to prevent damaging driveshaft screw thread.



8. Remove the caulking nut (A) from the front axle.

   Tightening torque :

   274.6 - 294.2 N·m (28.0 - 30.0 kgf·m, 202.5 - 217.0 lb·ft)

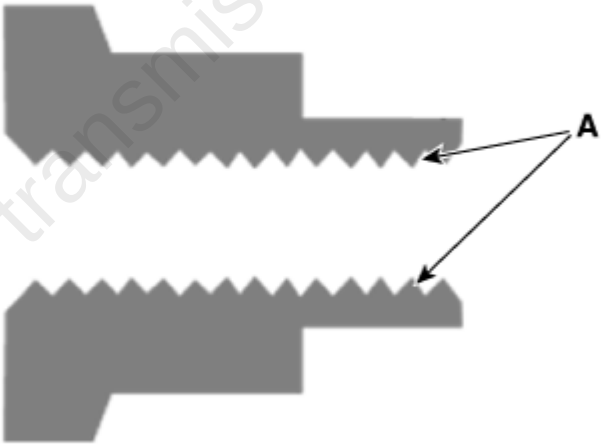


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NOTICE

- The driveshaft lock nut must be replaced with new one. When replacing the drive lock hub nut, use only the nut with screw thread (A) on the end.



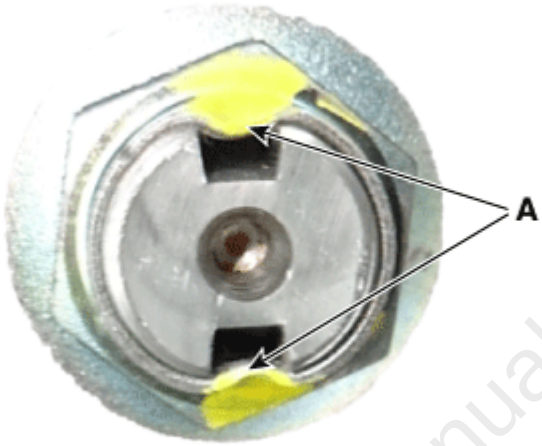


- Tighten the driveshaft lock hub nut to the specified tightening torque, and caulk by using a chisel and hammer.

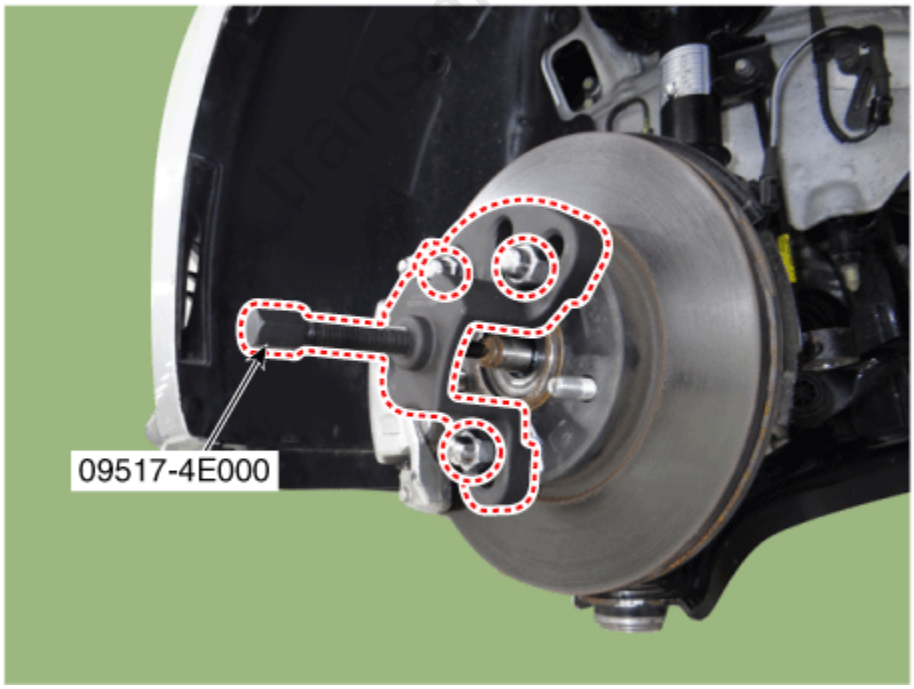
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- If there are two key seats, perform on all two seats.

  Caulking depth (A) : 1.5 mm (0.0591 in)



9. Using a SST (09517-4E000), disconnect the driveshaft from the axle hub.

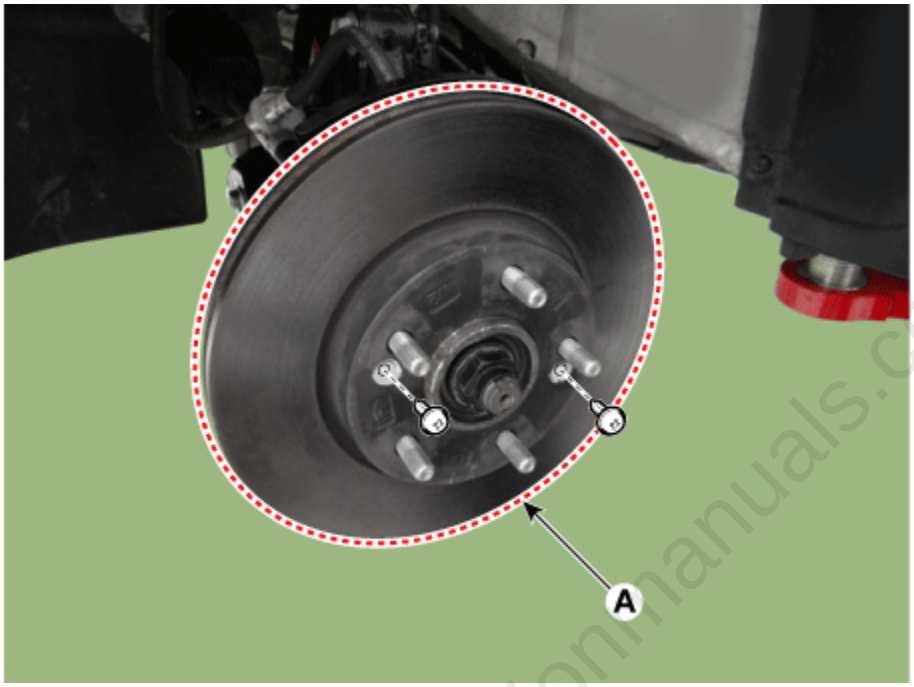


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10. Loosen the screws and then remove the front brake disc (A).

Tightening torque:

4.9 - 5.9 N·m (0.5 - 0.6 kgf·m, 3.6 - 4.3 lb·ft, 43.4 - 52.1 lb·in)

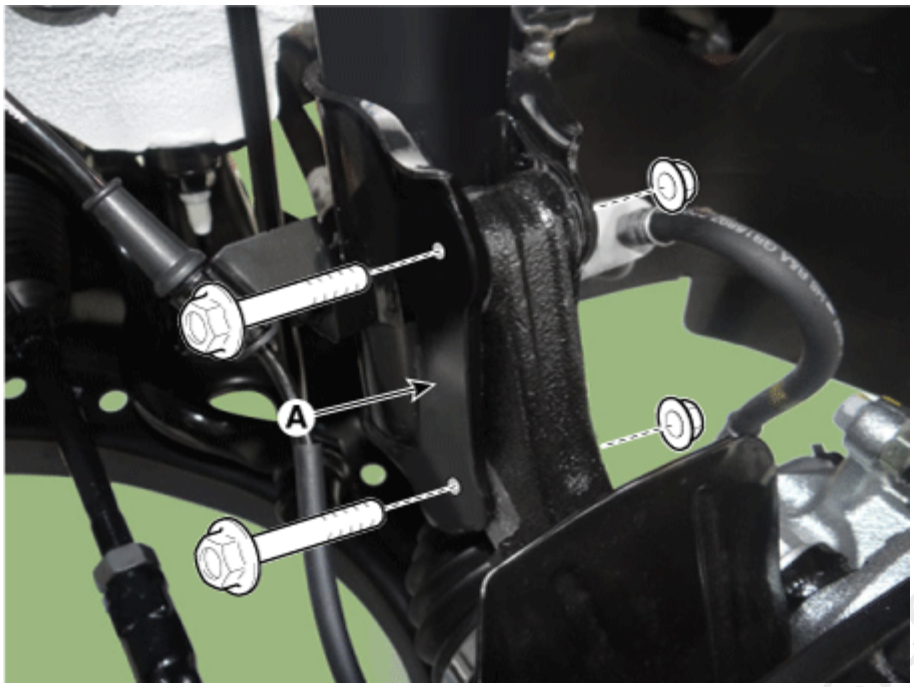


11. Loosen the front strut (A) bolts and nuts and then remove the knuckle assembly.

Tightening torque:

156.9 - 176.5 N·m (16.0 - 18.0 kgf·m, 115.7 - 130.2 lb·ft)

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NOTICE

Be careful not to damage the stabilizer boots link boots and ball joint boots.

12. Install in the reverse order of removal.

13. Check the front alignment.

(Refer to Suspension System - "Front Alignment")

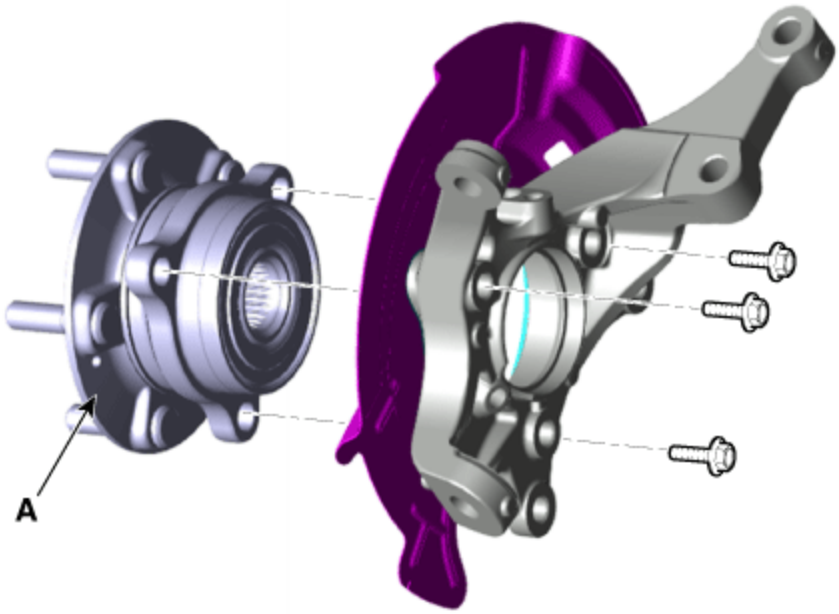
Disassembly

1. Remove the hub bearing (A) from the knuckle.

Tightening torque:

98.0 - 117.6 N·m (10.0 - 12.0 kgf·m, 72.3 - 86.7 lb·ft)

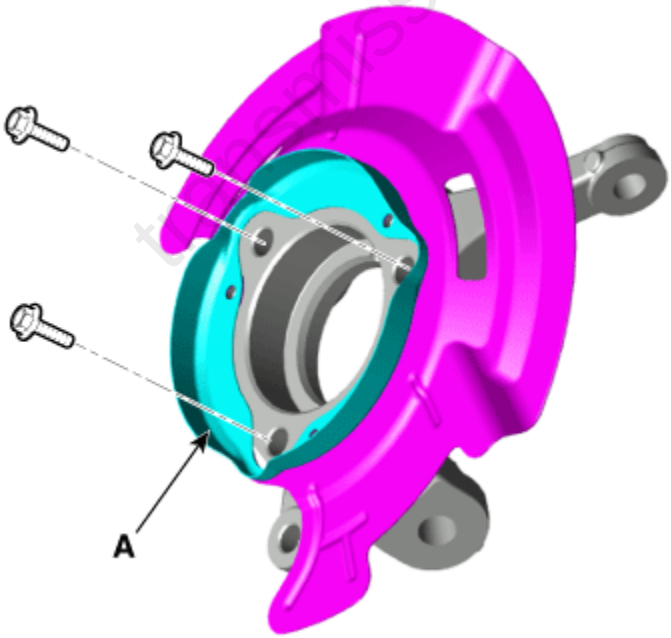
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2. Remove the dust cover (A) from the knuckle.

Tightening torque:

6.9 - 10.8 N·m (0.7 - 1.1 kgf·m, 5.1 - 8.0 lb·ft)



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3. Assemble in the reverse order of disassembly.

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

Service data Service Data Engine T/M Joint type Max. permissible angle Outer Inner Outer ...

Driveshaft Assembly

...

Other information:

Kia Forte 2019-2023 (BD) Service Manual: Rear Wheel Speed Sensor

Components and components location Components [Couple torsion beam axle type] 1. Rear wheel speed sensor connector 2. Rear wheel speed sensor [Multi link type] 1. Rear wheel speed sensor connector 2. ...

Kia Forte 2019-2023 (BD) Owners Manual: Folding the rear seat

The rear seatbacks may be folded to facilitate carrying long items or to increase the luggage capacity of the vehicle. WARNING - Folded Seatback Never allow passengers to sit on top of the folded down seatback while the vehicle is moving. This is not a proper seating position and n ...

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