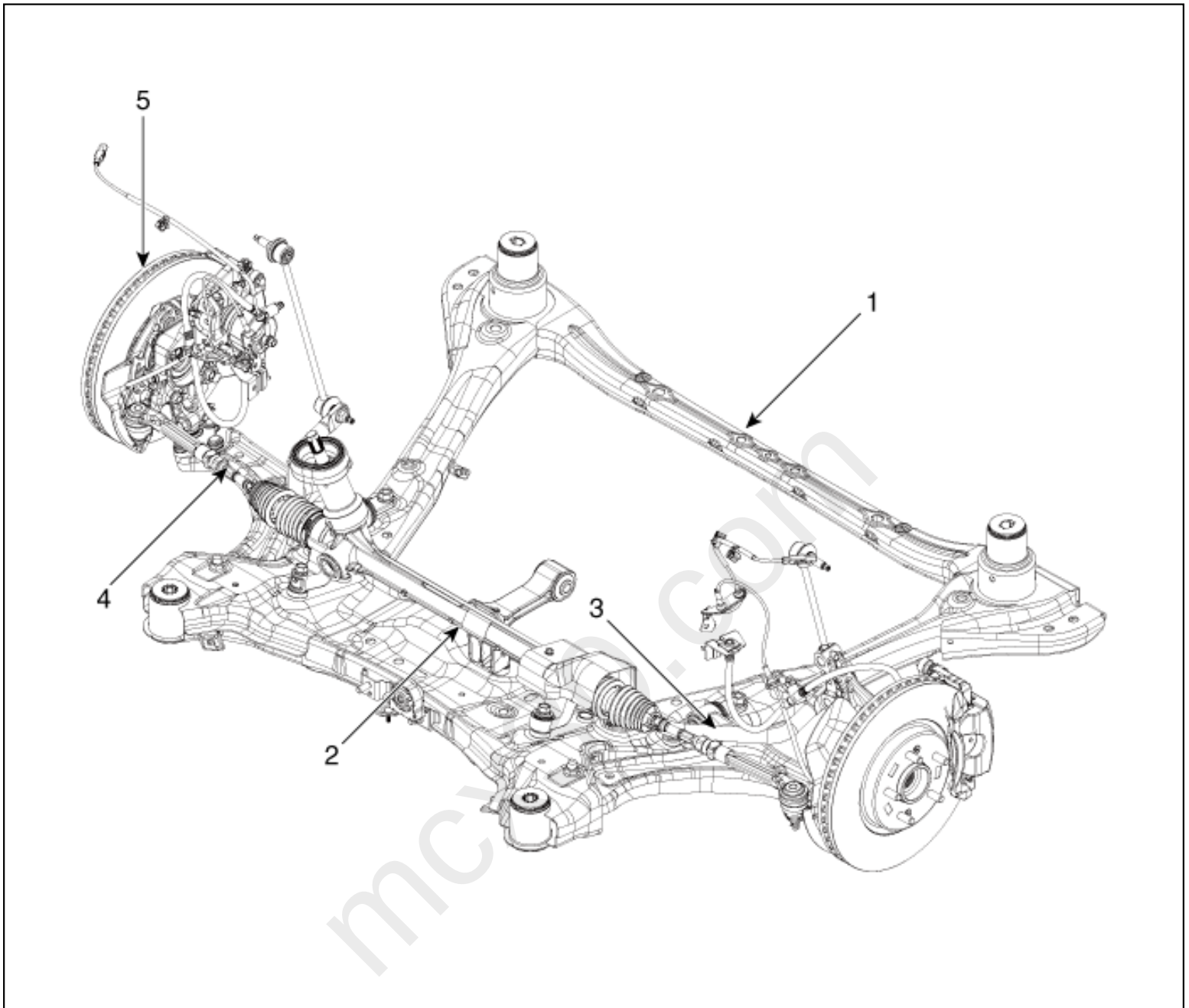


Components
Location



- 1. Front sub frame
- 2. Steering gear box
- 3. Front stabilizer bar

- 4. Front lower arm
- 5. Front knuckle assembly

Components



1. Strut assembly
2. Spring lower pad
3. Dust cover
4. Coil spring
5. Spring upper pad

6. Bumper rubber
7. Insulator assembly & sturt bearing
8. Lock nut
9. Insulator cap

Removal



- When lifting a vehicle using a lift, be careful not to damage the lower parts of the vehicle (floor under cover, fuel filter, fuel tank, canister).

(Refer to General Information - "Lift Point")

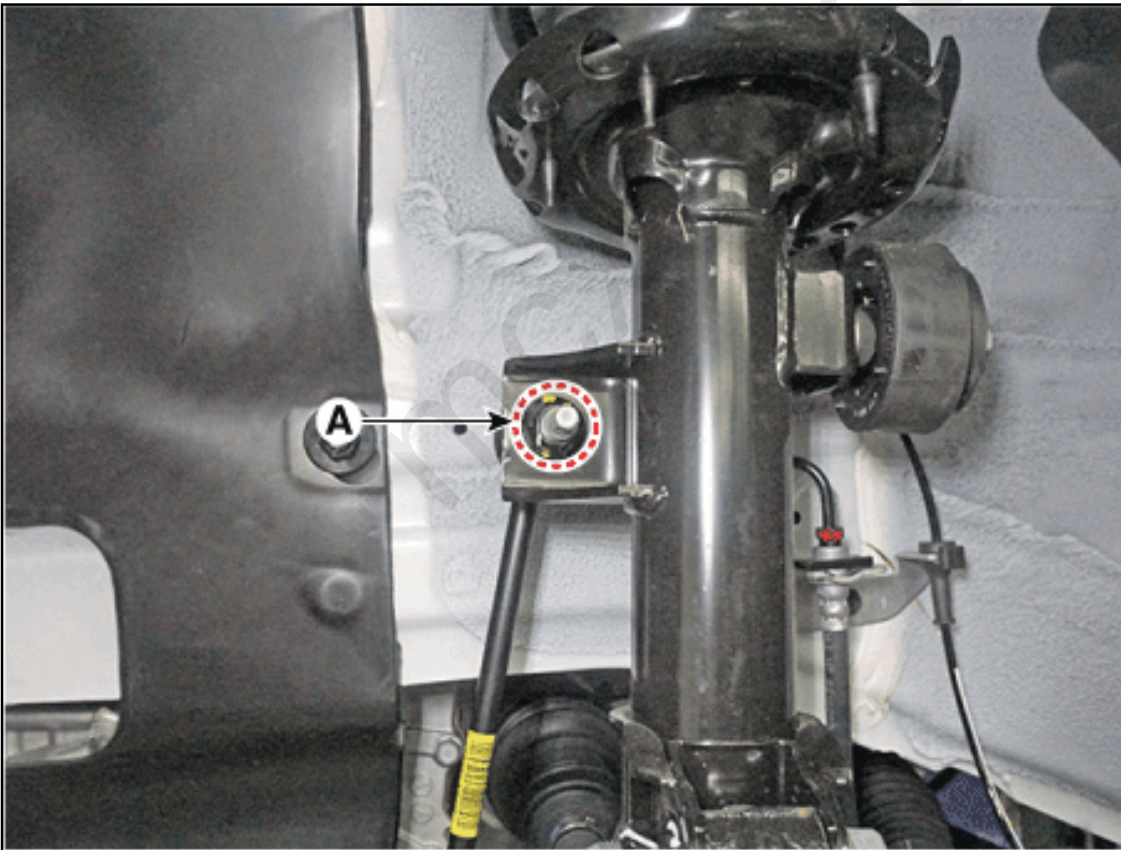
1. Loosen the front wheel nuts slightly.
Raise the vehicle, and make sure it is securely supported.
2. Remove the front wheel and tire.
(Refer to Suspension System - "Wheel")
3. Remove the stabilizer link bar link from the front strut after loosening the mounting nut (A).

Tightening torque :

98.1 - 117.7 N.m (10.0 - 12.0 kgf.m, 72.3 - 86.8 lb-ft)



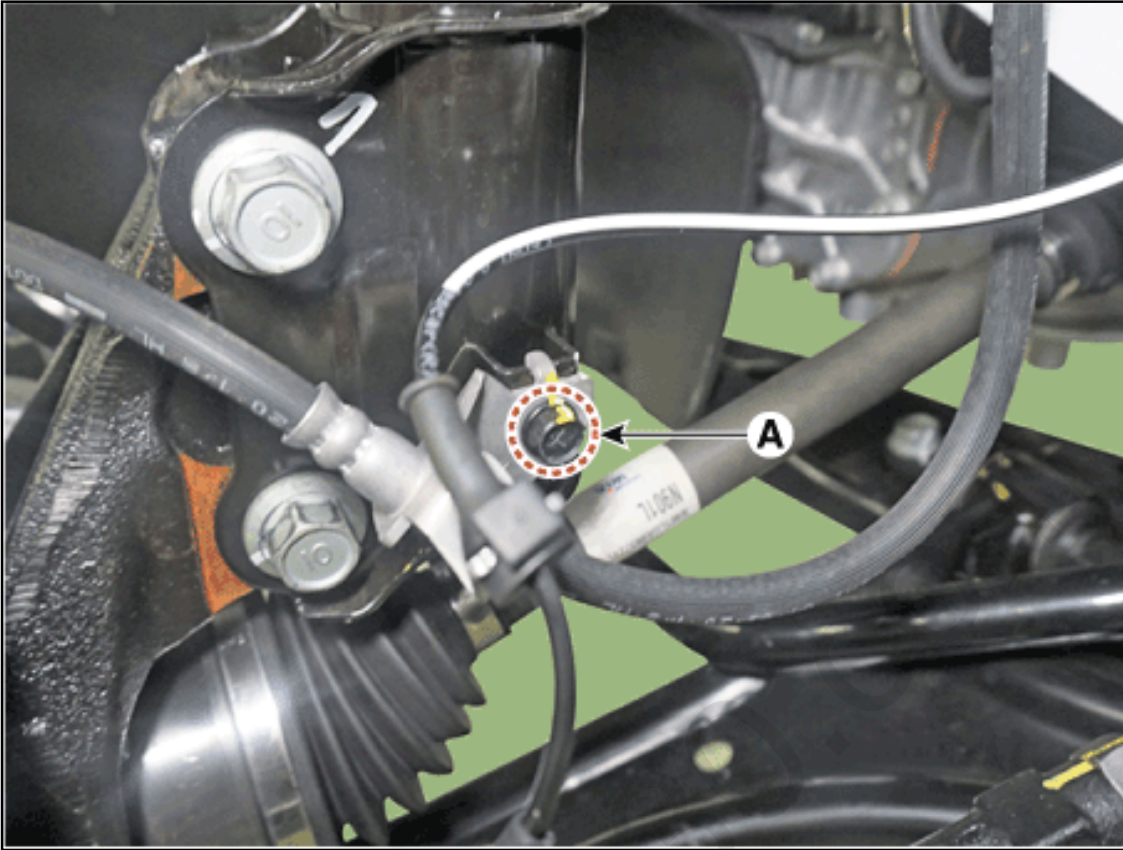
- When loosening the nut, fix the outer hexagon of stabilizer bar link.
- Be careful not to damage the stabilizer link boots.



4. Remove the brake hose bracket from the front strut after loosening the mounting bolt (A).

Tightening torque :

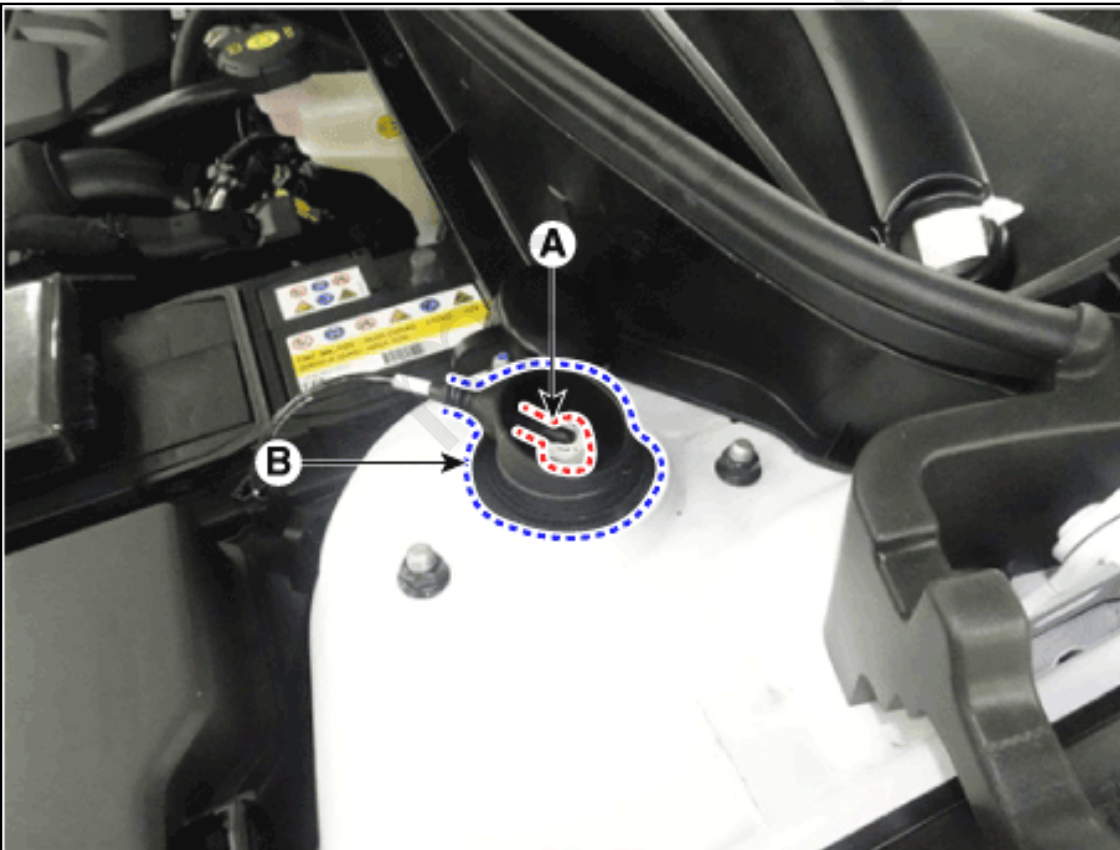
8.8 - 13.7 N.m (0.9 - 1.4 kgf.m, 6.5 - 10.1 lb-ft)



5. Remove the service cover (A).



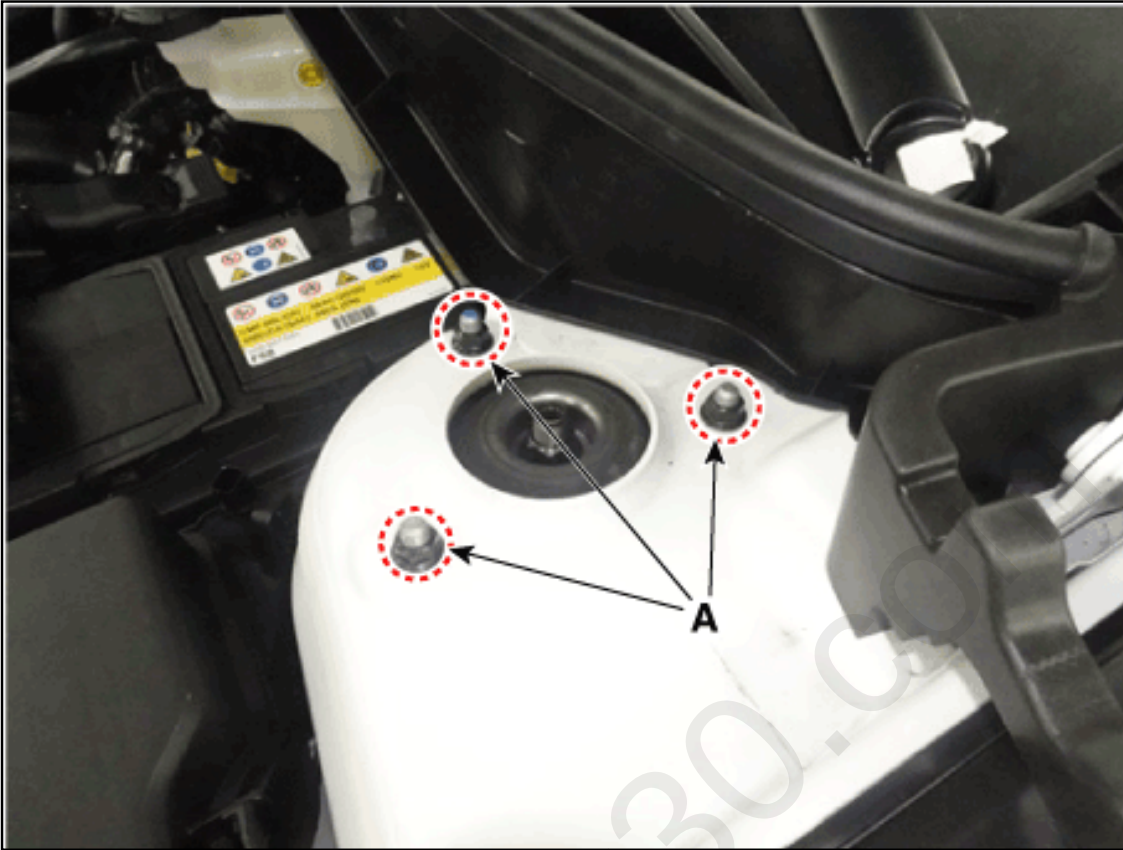
6. Disconnect the continuously variable damping control connector (A) and then remove the cap (B).



7. Loosen the front strut upper mounting nuts (A).

Tightening torque :

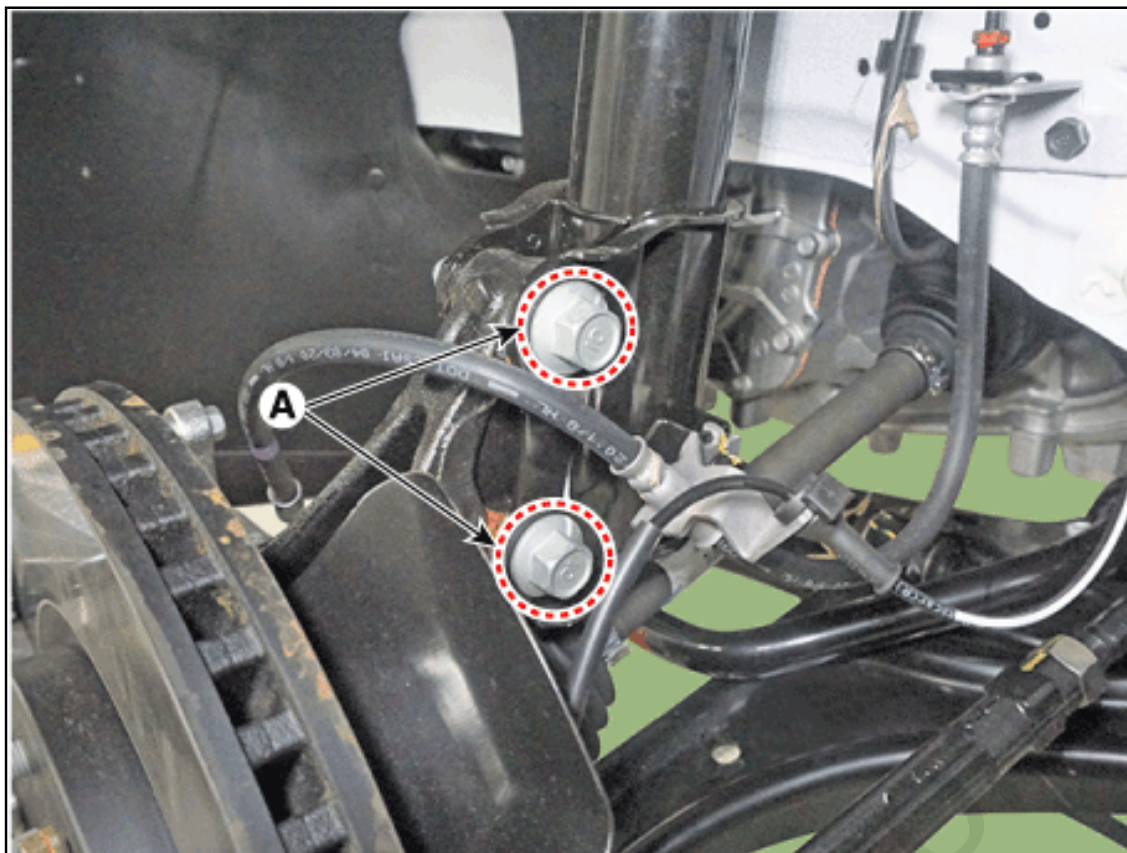
53.9 - 73.9 N.m (5.5 - 7.5 kgf.m, 39.8 - 54.2 lb-ft)



8. Remove the front strut assembly from the front axle after loosening the mounting bolts and nuts (A).

Tightening torque :

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



Disassembly



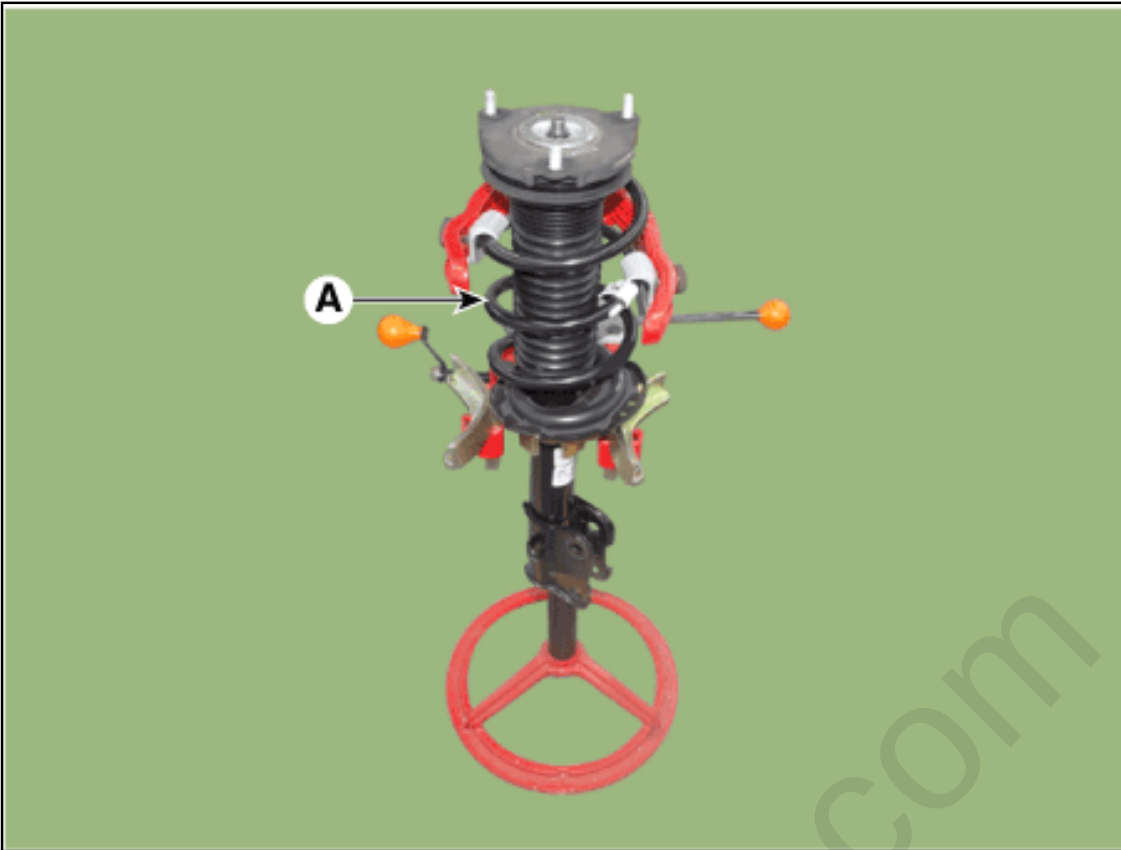
- When compressing the coil spring, be cautious as there may be corrosion due to damage to the coil spring painting.
In order to avoid such painting damage, compress by putting over the waste hose, etc. (Refer to the picture below.)



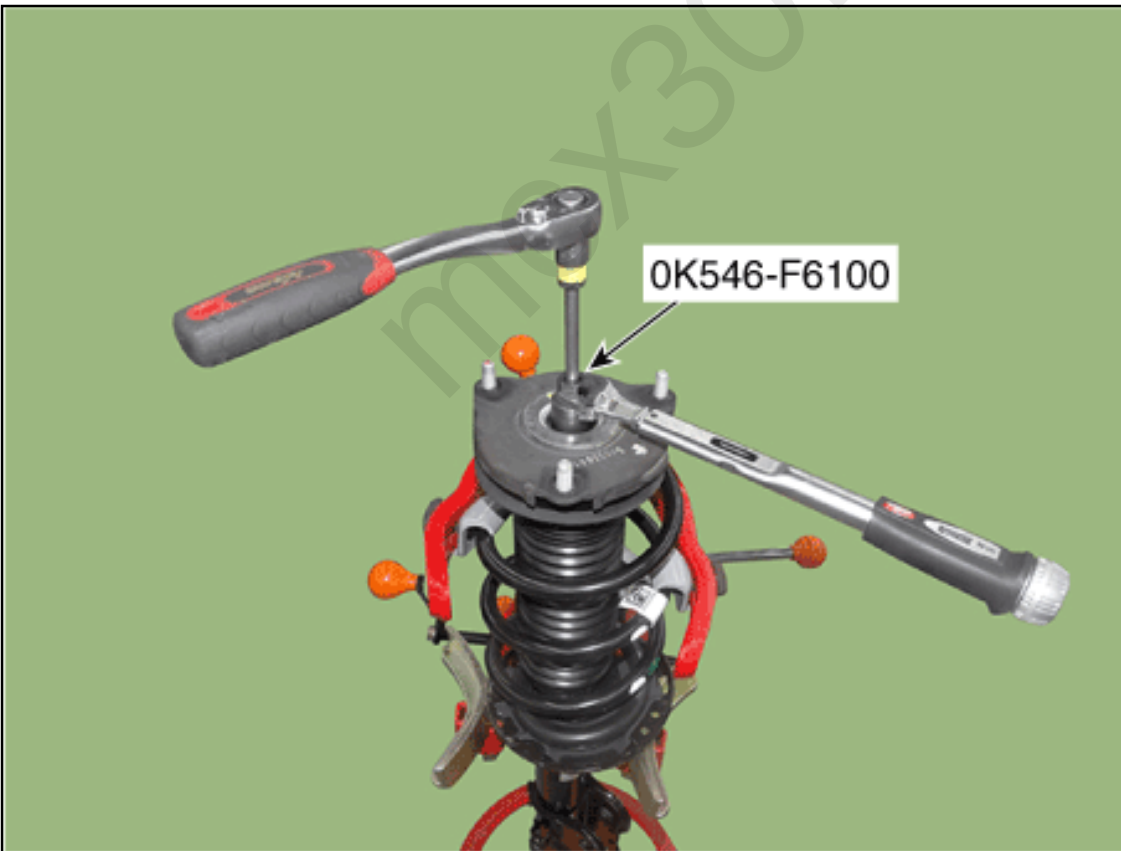
1. Remove the insulator cap (A).



2. Using the spring compressor, compress the coil spring (A).



3. Using SST (0K546-F6100), loosen the self locking nut.



4. Remove the insulator, spring pad, coil spring and dust cover from the strut assembly.

Removal



- When lifting a vehicle using a lift, be careful not to damage the lower parts of the vehicle (floor under cover, fuel filter, fuel tank, canister).

(Refer to General Information - "Lift Point")

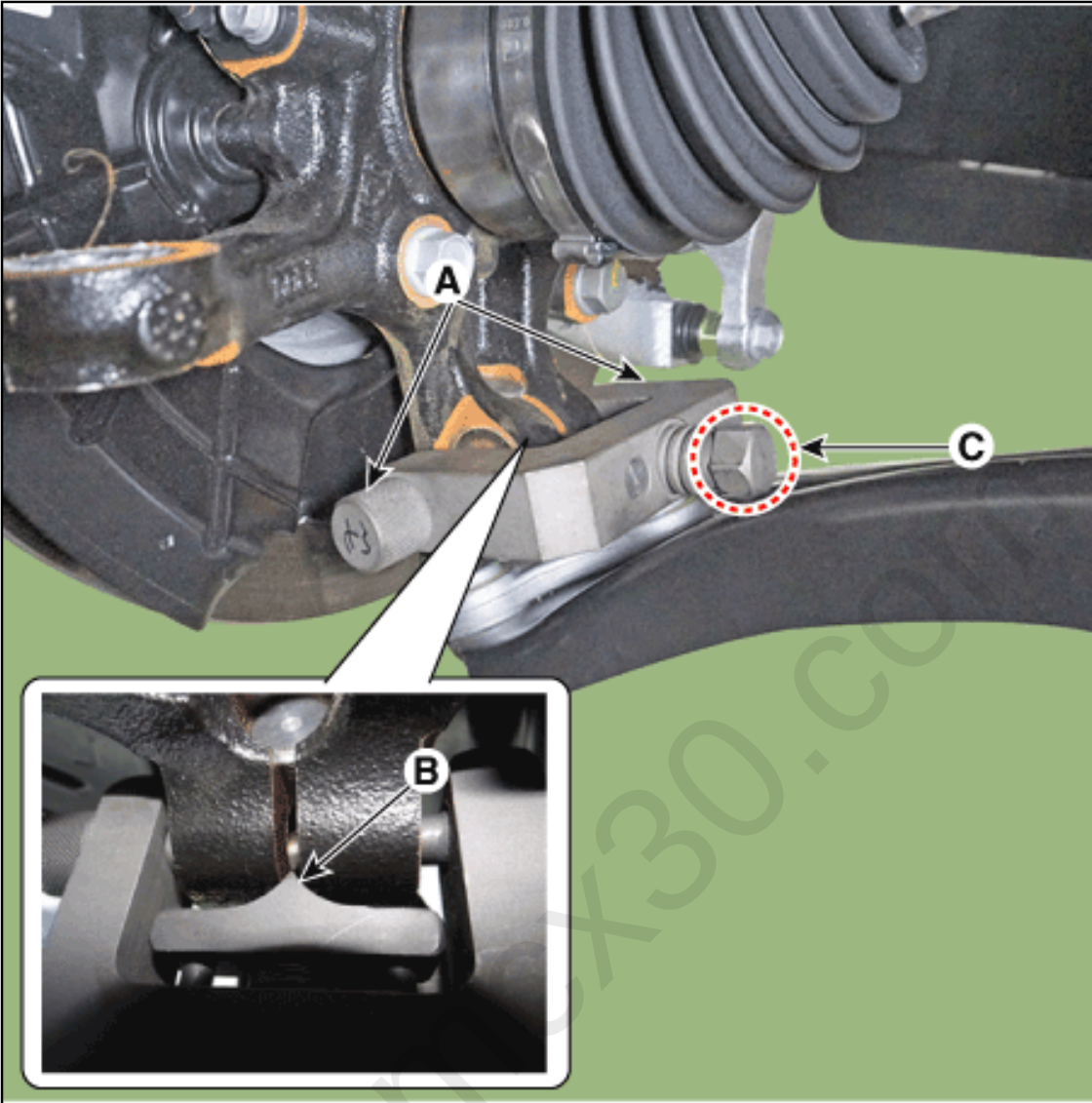
1. Loosen the front wheel nuts slightly.
Raise the vehicle, and make sure it is securely supported.
2. Remove the front wheel and tire.
(Refer to Suspension System - "Wheel")
3. Loosen the front lower arm mounting bolt and nut (A).

Tightening torque :

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



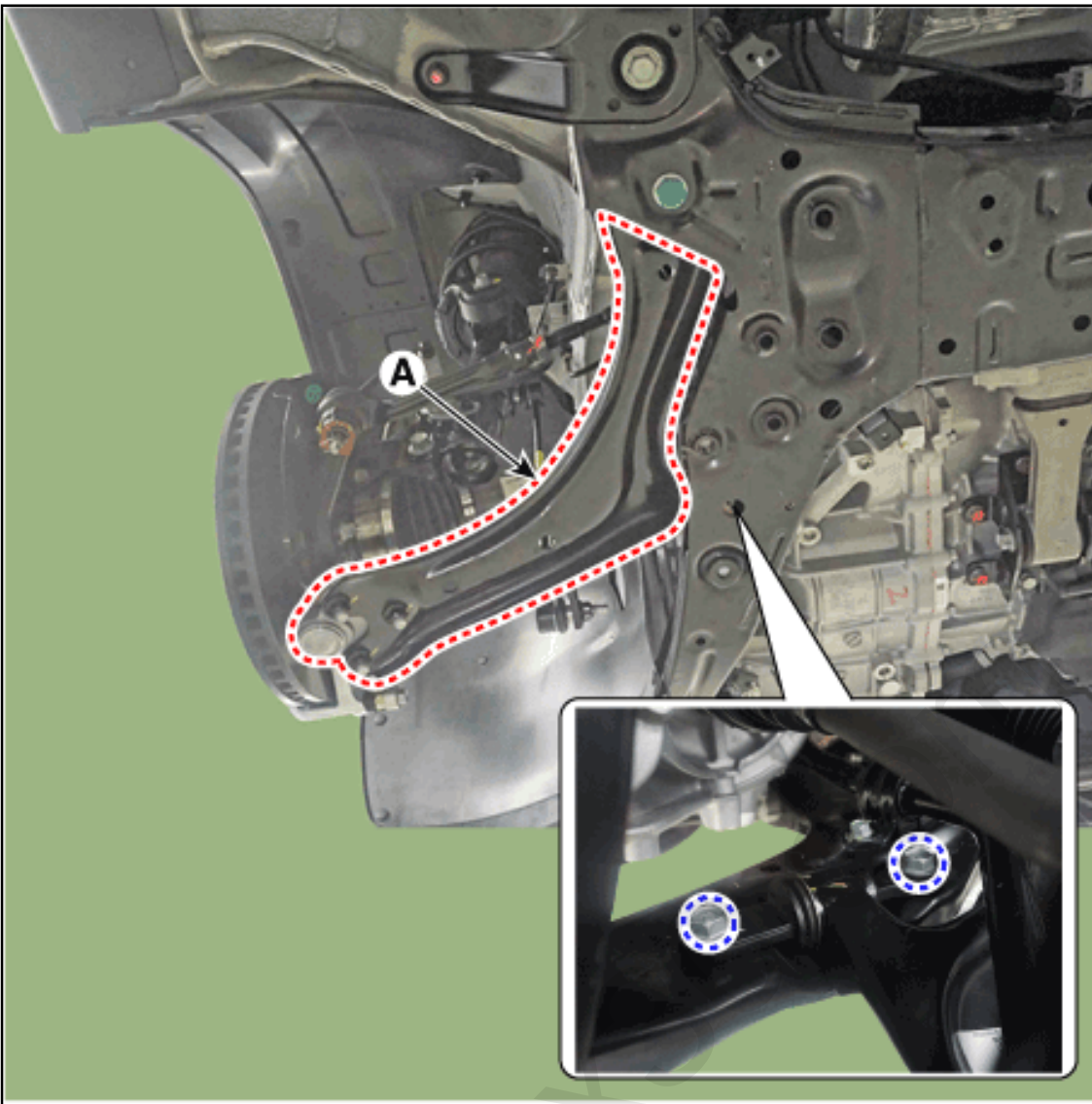
4. Remove the lower arm from the knuckle by using the SST (09568-4R100).
- (1) Install the support bolt (A) from lower arm bolt hole.
 - (2) Install the support body (B) from front axle.
 - (3) Tighten the bolt (C).



5. Remove the lower arm (A) from the sub frame after loosening the mounting bolts.

Tightening torque :

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



Inspection

1. Check the bushing for wear and deterioration.
2. Check the lower arm for bending or breakage.
3. Check the lower arm for deformation.
4. Check the all bolts and nuts.

Replacement



- When lifting a vehicle using a lift, be careful not to damage the lower parts of the vehicle (floor under cover, fuel filter, fuel tank, canister).

(Refer to General Information - "Lift Point")

1. Loosen the front wheel nuts slightly.
Raise the vehicle, and make sure it is securely supported.
2. Remove the front wheel and tire.

(Refer to Suspension System - "Wheel")

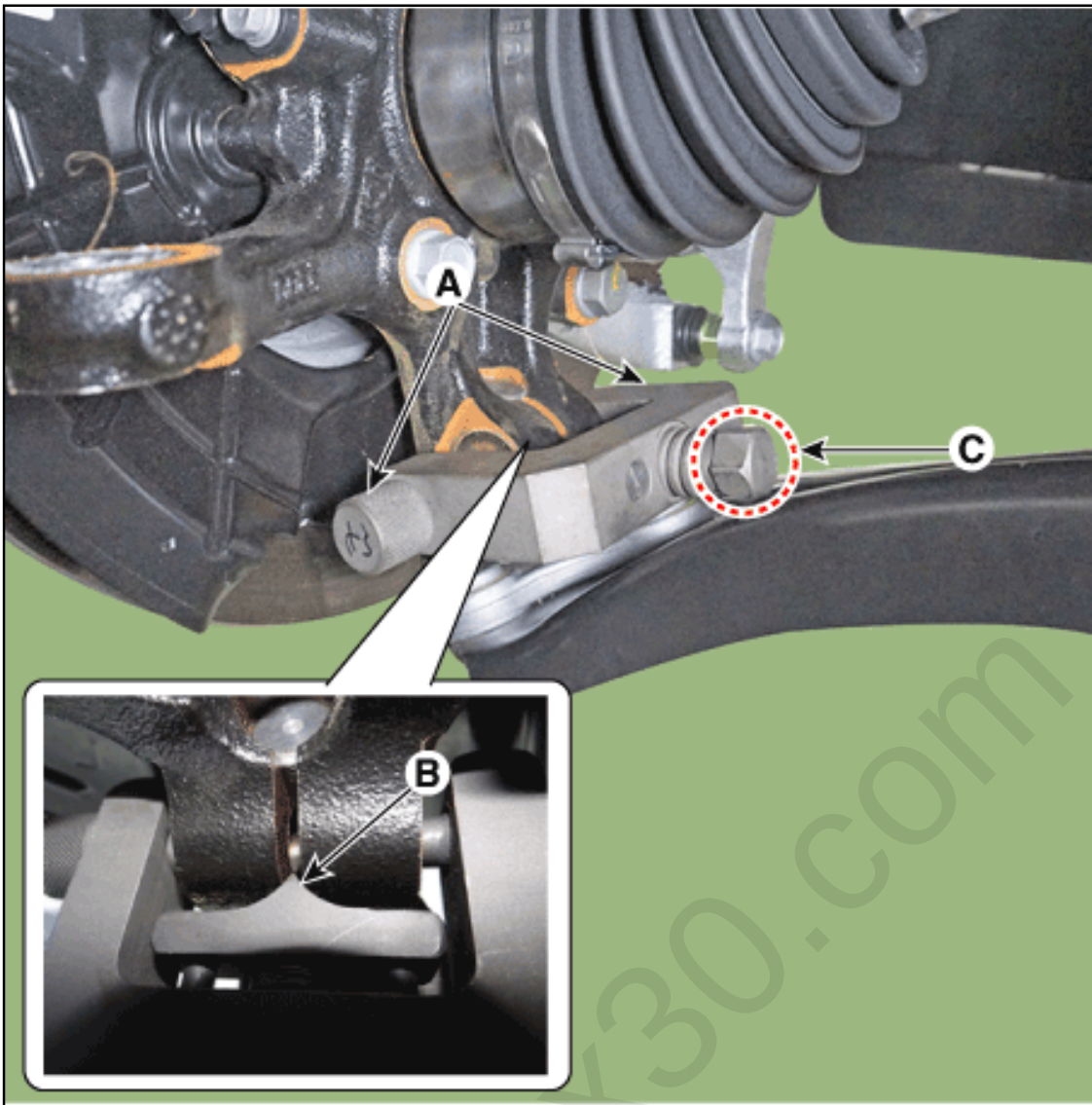
3. Loosen the front lower arm mounting bolt and nut (A).

Tightening torque :

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



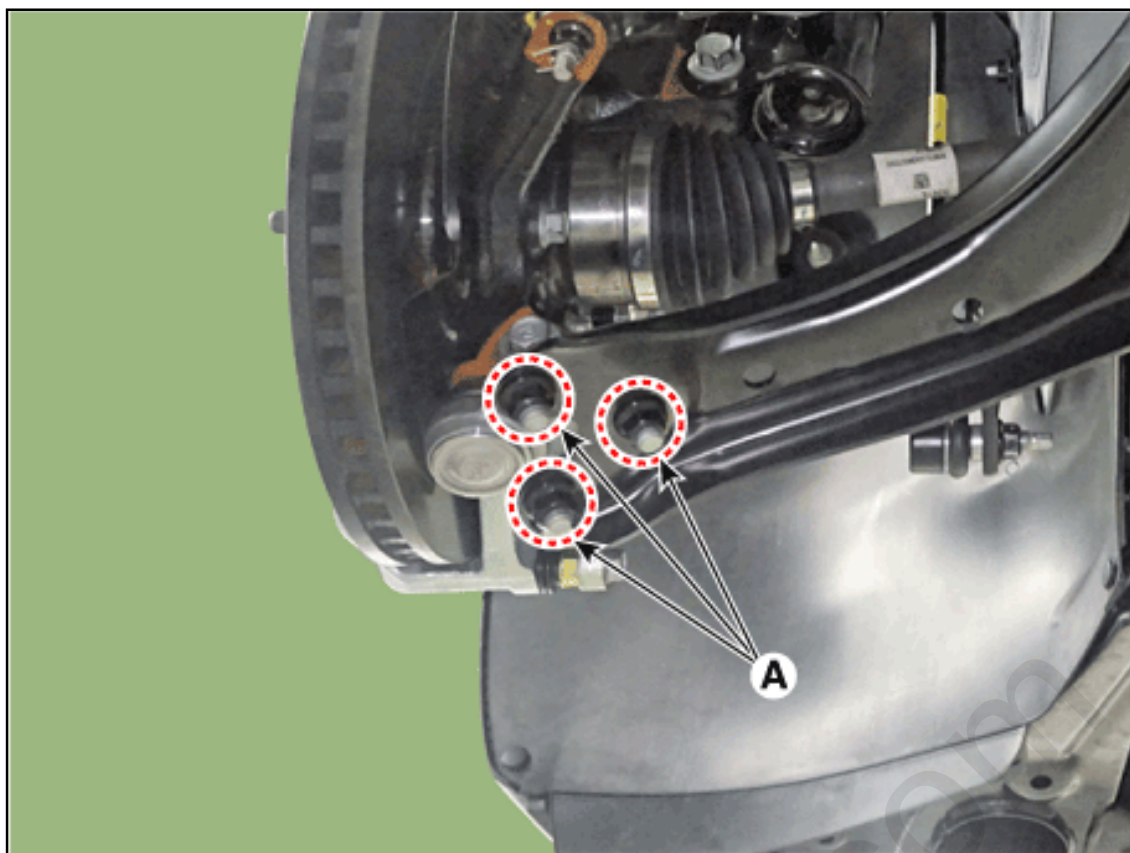
4. Remove the lower arm from the knuckle by using the SST (09568-4R100).
 - (1) Install the support bolt (A) from lower arm bolt hole.
 - (2) Install the support body (B) from front axle.
 - (3) Tighten the bolt (C).



5. Remove the ball joint assembly after loosening the mounting nuts (A).

Tightening torque :

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



Removal



- When lifting a vehicle using a lift, be careful not to damage the lower parts of the vehicle (floor under cover, fuel filter, fuel tank, canister).

(Refer to General Information - "Lift Point")

1. Loosen the front wheel nuts slightly.
Raise the vehicle, and make sure it is securely supported.
2. Remove the front wheel and tire.
(Refer to Suspension System - "Wheel")
3. Loosen the stabilizer link mounting nut (A).

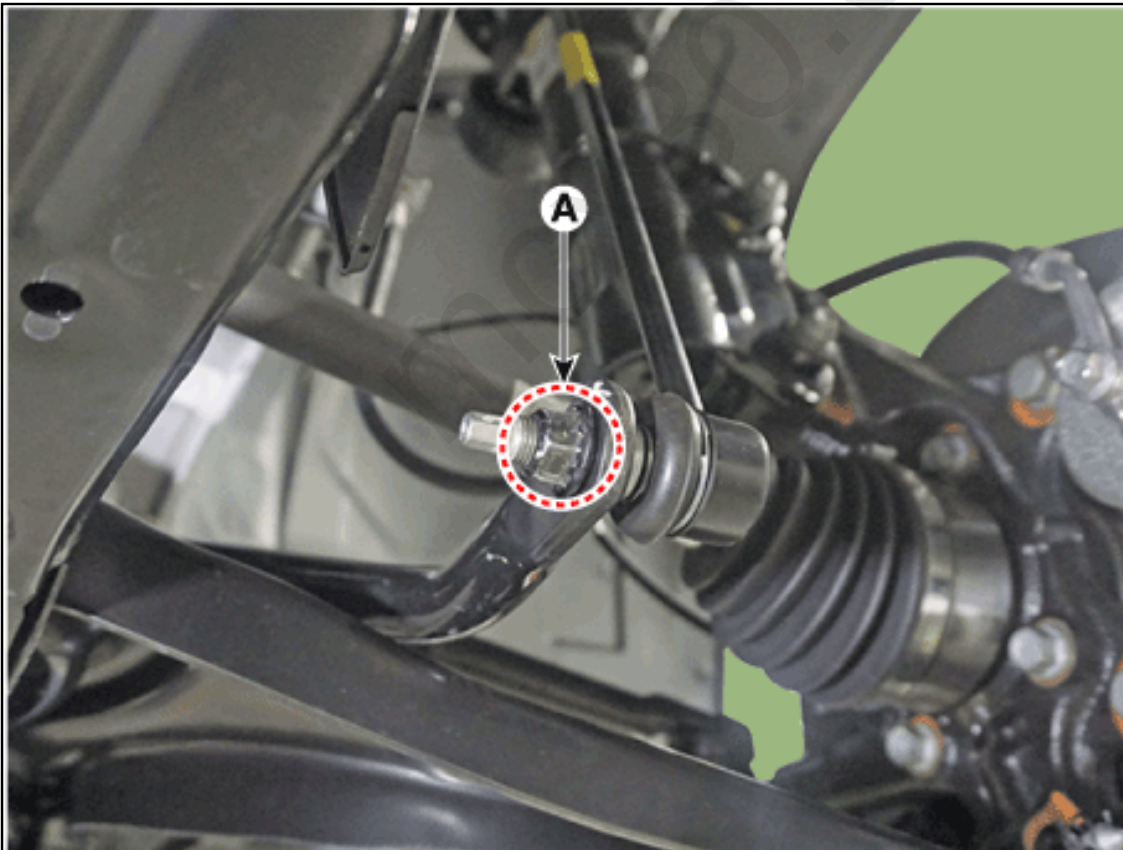
Tightening torque :

98.1 - 117.7 N.m (10.0 - 12.0 kgf.m, 72.3 - 86.8 lb-ft)

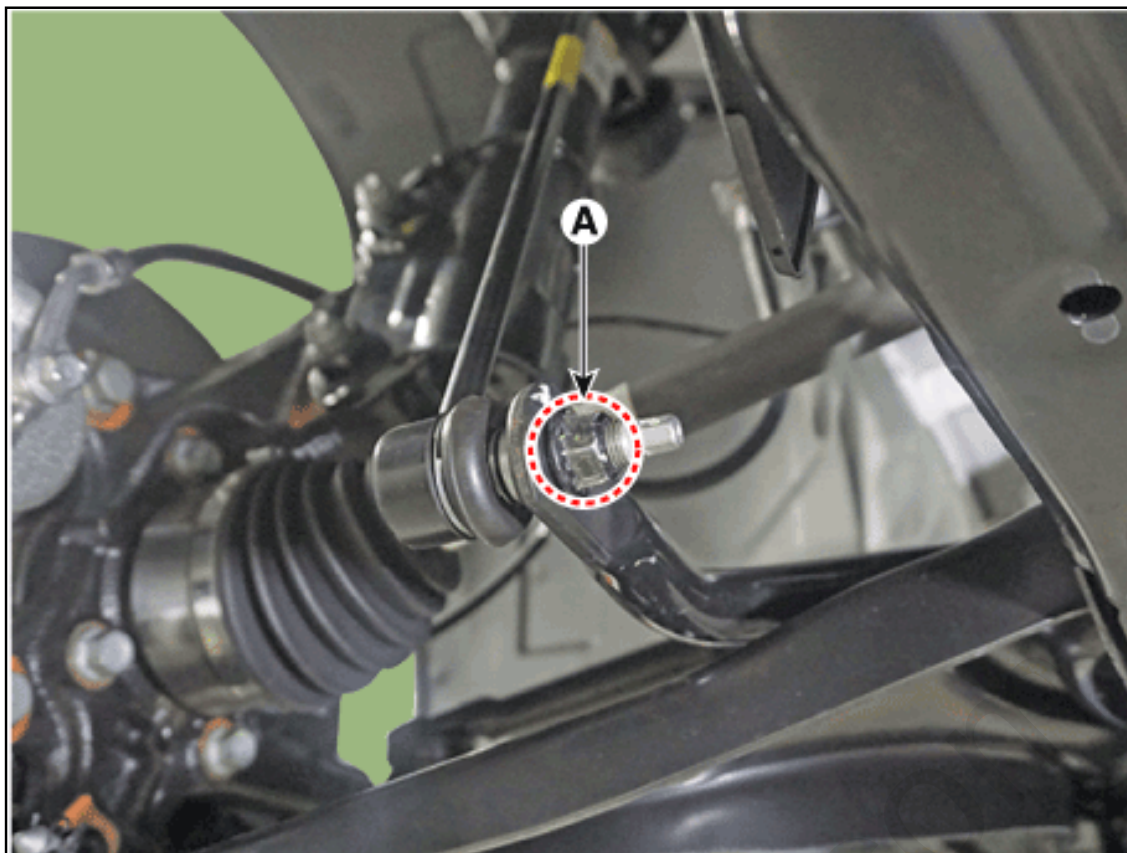


- When loosening the nut, fix the outer hexagon of stabilizer bar link.
- Be careful not to damage the stabilizer link boots.

[LH]



[RH]

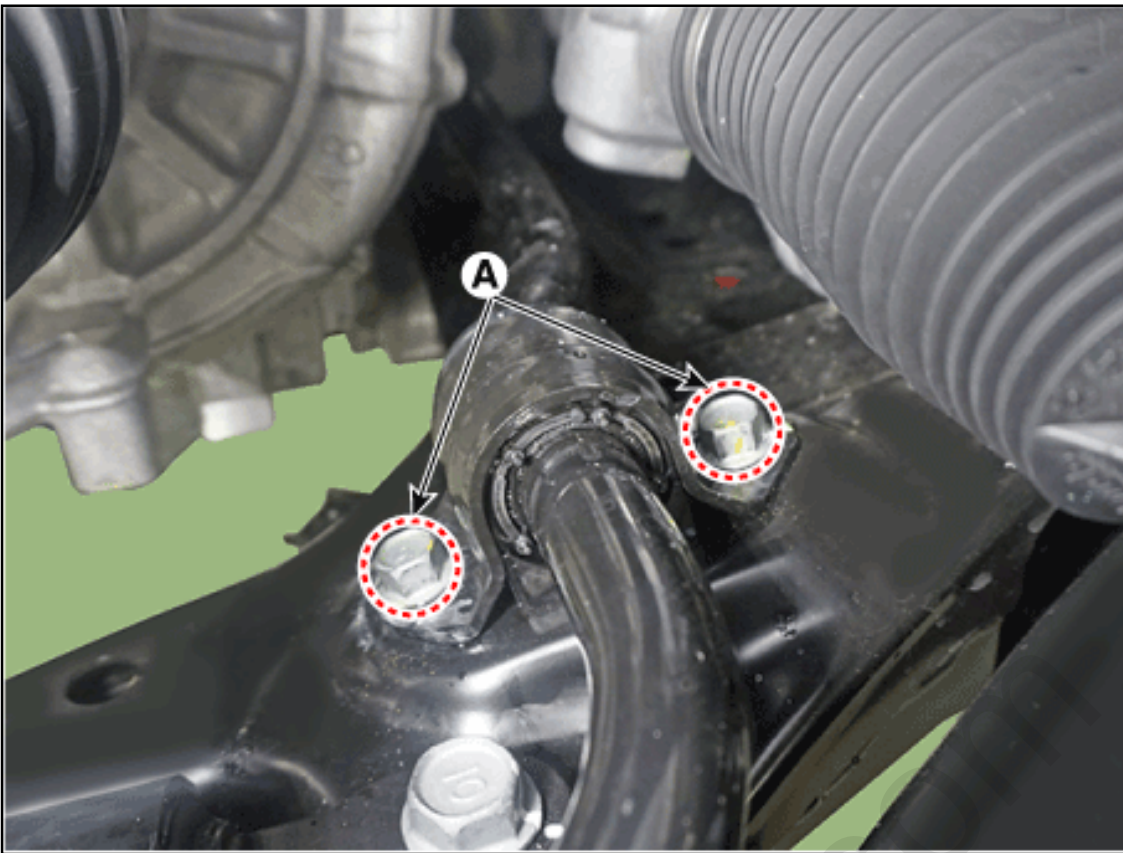


4. Remove the stabilizer bar after loosening the mounting bolts (A).

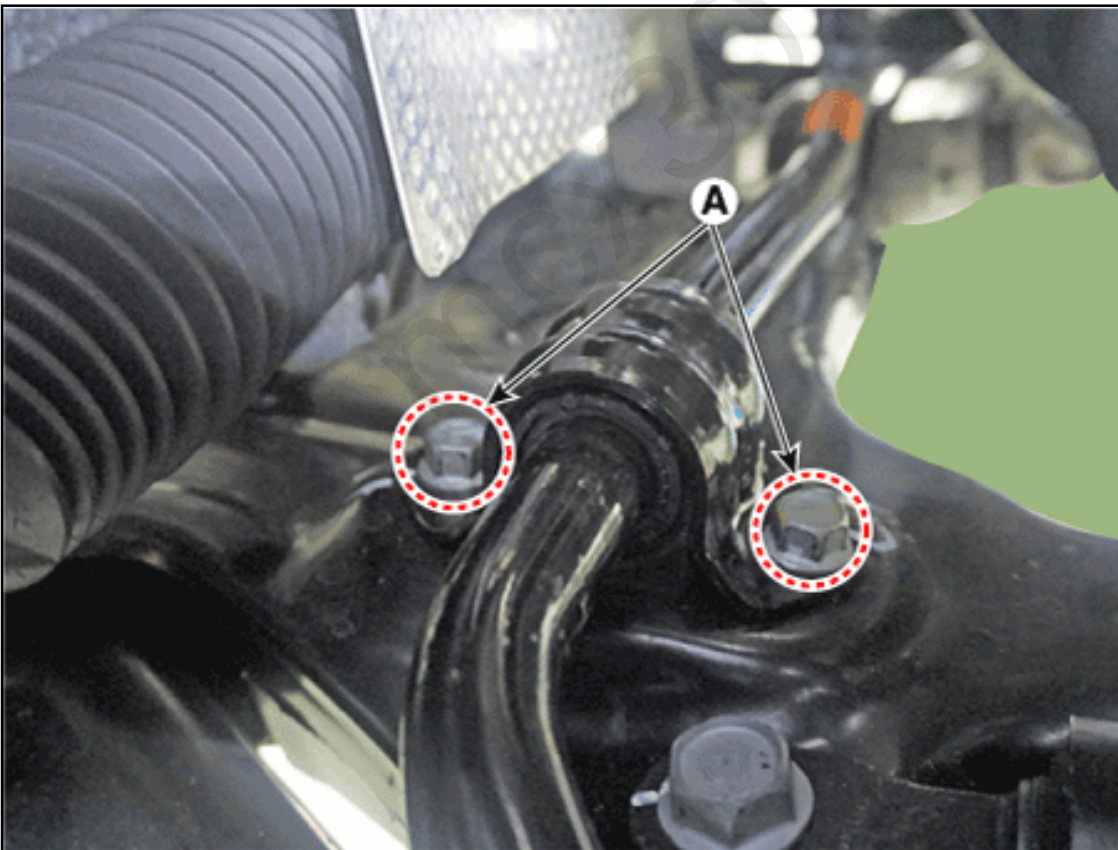
Tightening torque :

49.0 - 63.7 N.m (5.0 - 6.5 kgf.m, 36.2 - 47.0 lb-ft)

[LH]



[RH]



Inspection

1. Check the bushing for wear and deterioration.
2. Check the front stabilizer link ball joint for damage.

Installation

1. To install, reverse the removal procedures.
2. Check the alignment.

(Refer to Suspension System - "Alingment")

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Removal



- When lifting a vehicle using a lift, be careful not to damage the lower parts of the vehicle (floor under cover, fuel filter, fuel tank, canister).

(Refer to General Information - "Lift Point")

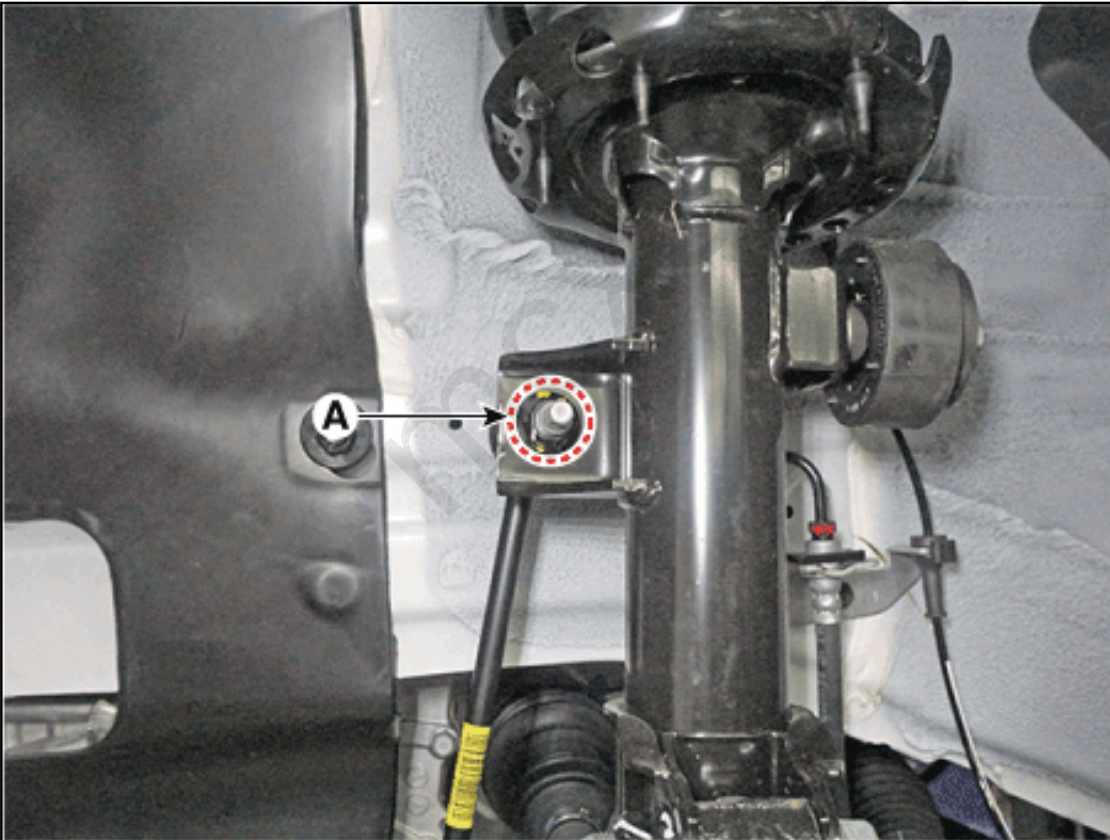
1. Loosen the front wheel nuts slightly.
Raise the vehicle, and make sure it is securely supported.
2. Remove the front wheel and tire.
(Refer to Suspension System - "Wheel")
3. Remove the stabilizer link bar link from the front strut after loosening the mounting nut (A).

Tightening torque :

98.1 - 117.7 N.m (10.0 - 12.0 kgf.m, 72.3 - 86.8 lb-ft)



- When loosening the nut, fix the outer hexagon of stabilizer bar link.
- Be careful not to damage the stabilizer link boots.



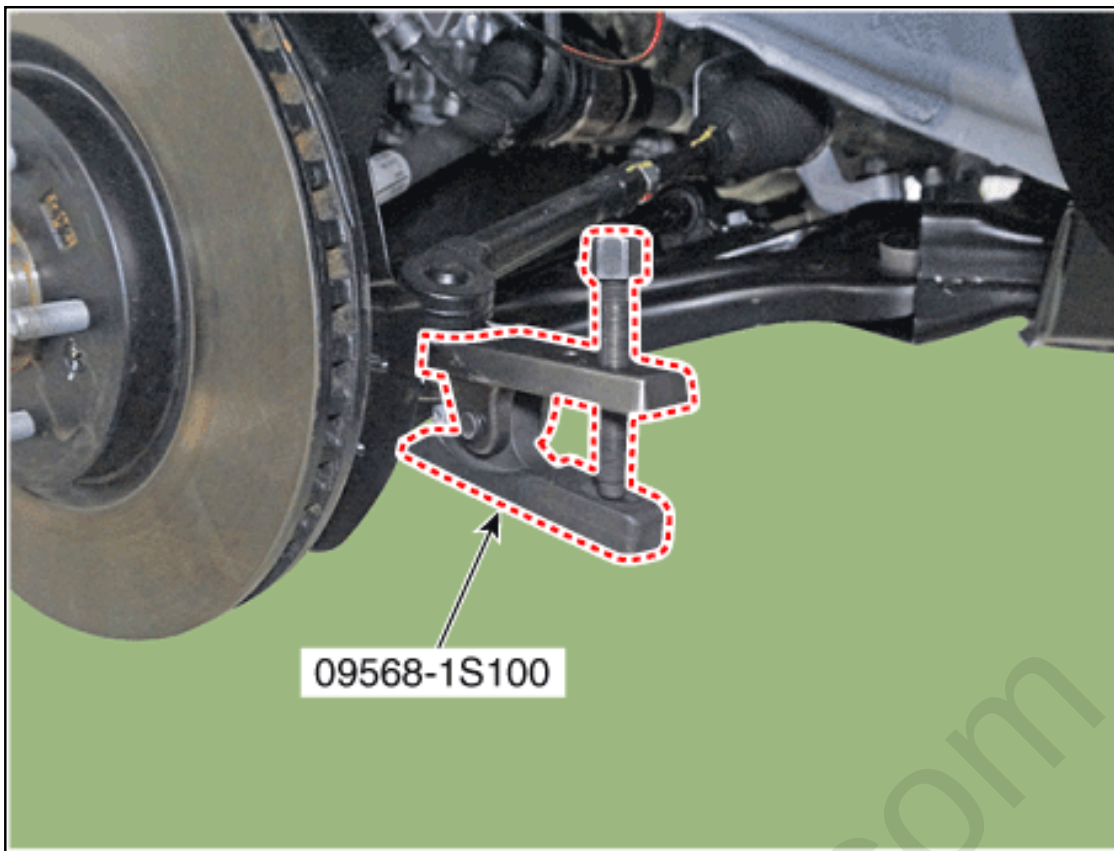
4. Loosen the tie rod end ball joint nut (A).

Tightening torque :

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



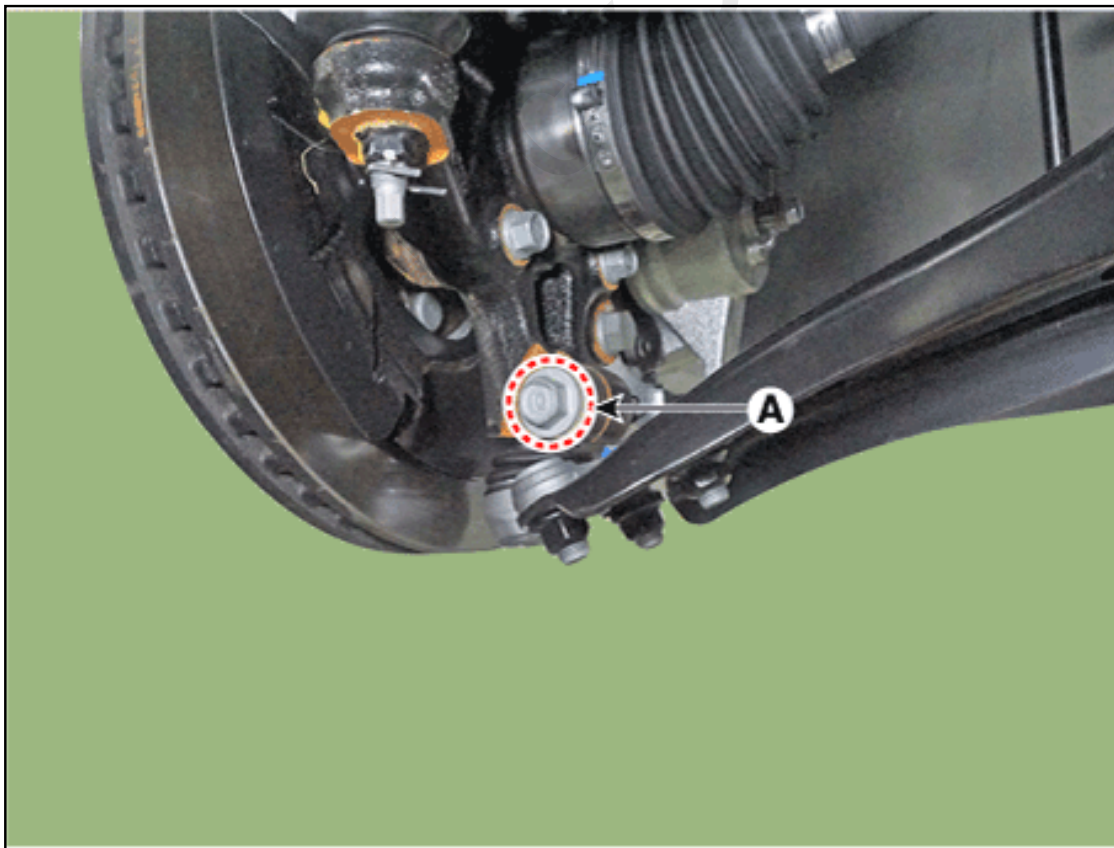
5. Remove the tie rod end ball joint using the SST (09568-1S100).



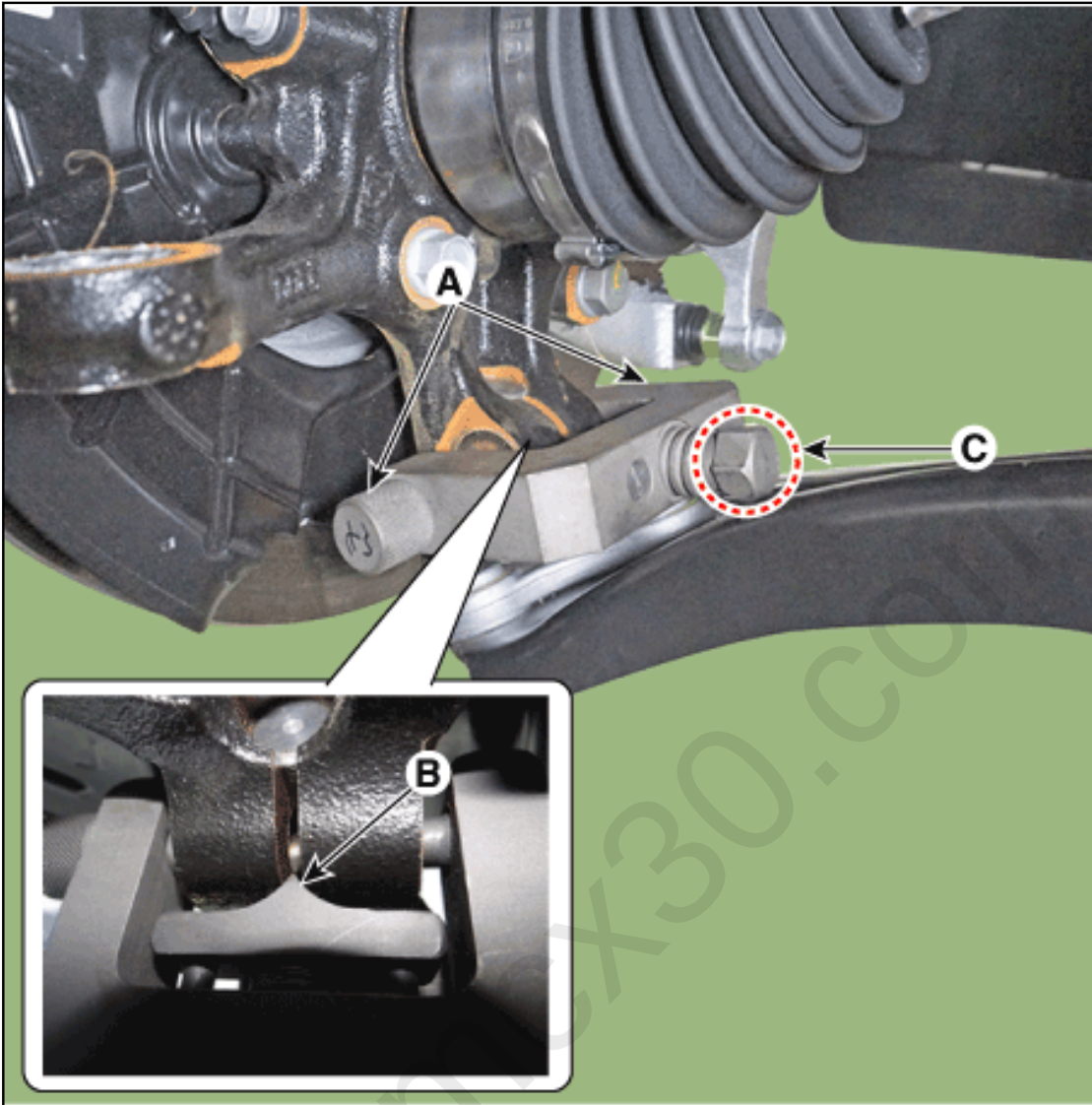
6. Loosen the front lower arm mounting bolt and nut (A).

Tightening torque :

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



7. Remove the lower arm from the knuckle by using the SST (09568-4R100).
- (1) Install the support bolt (A) from lower arm bolt hole.
 - (2) Install the support body (B) from front axle.
 - (3) Tighten the bolt (C).



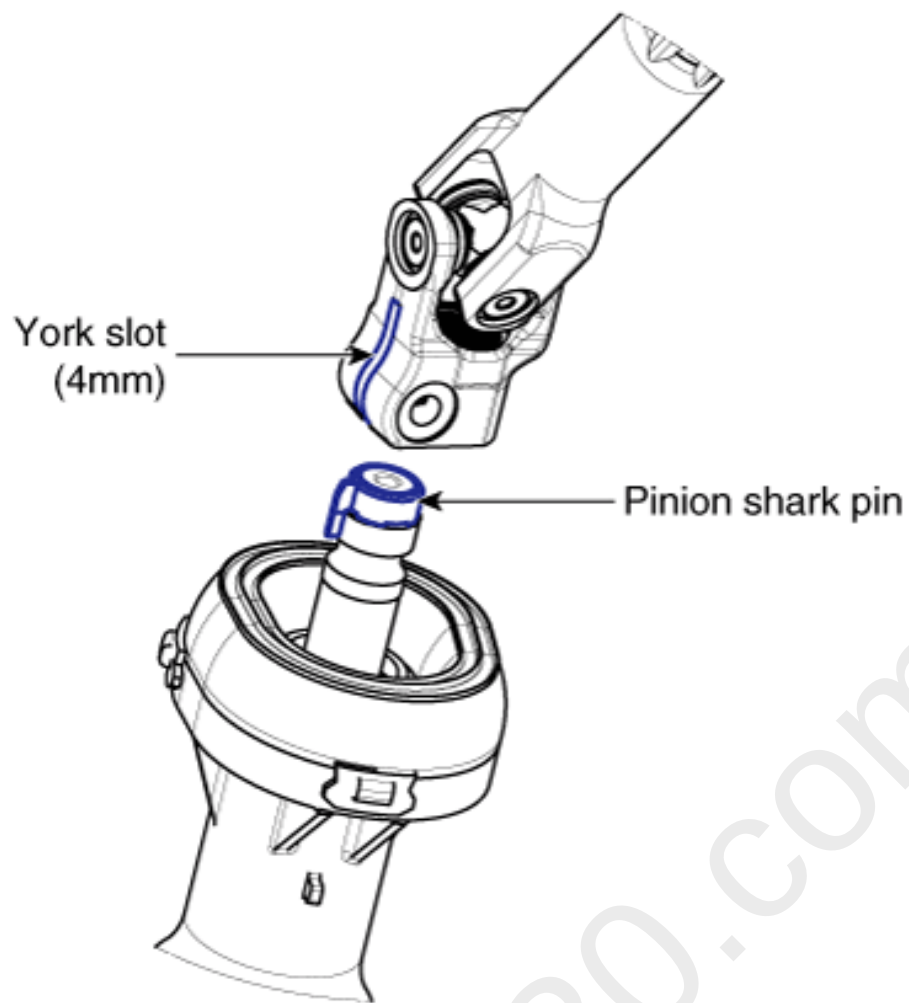
8. Separate the universal joint from the steering gear box after universal joint mounting bolt (A).

Tightening torque :

53.9 - 58.8 N.m (5.5 - 6.0 kgf.m, 39.8 - 43.4 lb-ft)



- Do not reuse the bolt.
- Lock the steering wheel in the straight ahead position to prevent the damage of the clock spring inner cable.
- Assemble so that the universal joint hole is inserted matching the cut surface of the pinion shaft shark pin.



9. Remove the under cover.

(Refer to Engine Mechanical System - "Engine Room Under Cover")

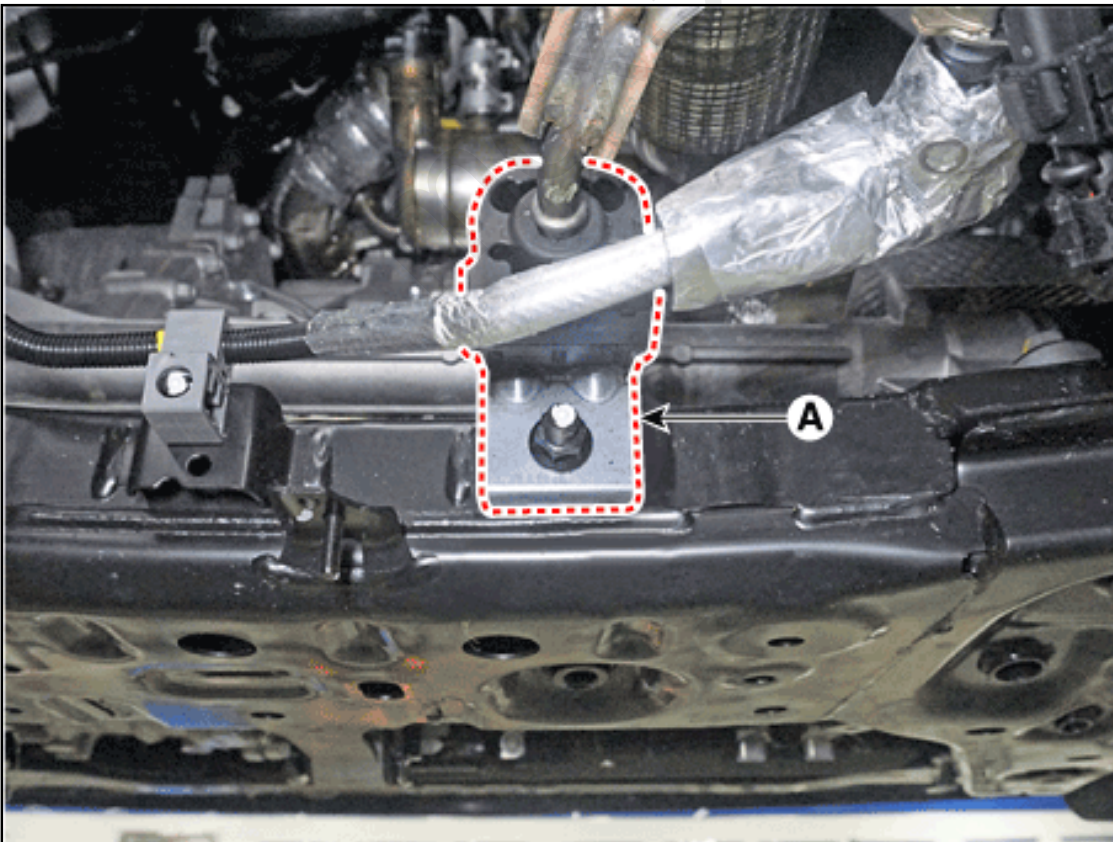
10. Disconnect the R-MDPS main connector (A). **[R-MDPS Type only]**



11. Remove the muffler rubber hanger (A) from the sub frame after loosening the mounting nut.

Tightening torque :

19.6 - 25.5 N.m (2.0 - 2.6 kgf.m, 14.5 - 18.8 lb-ft)

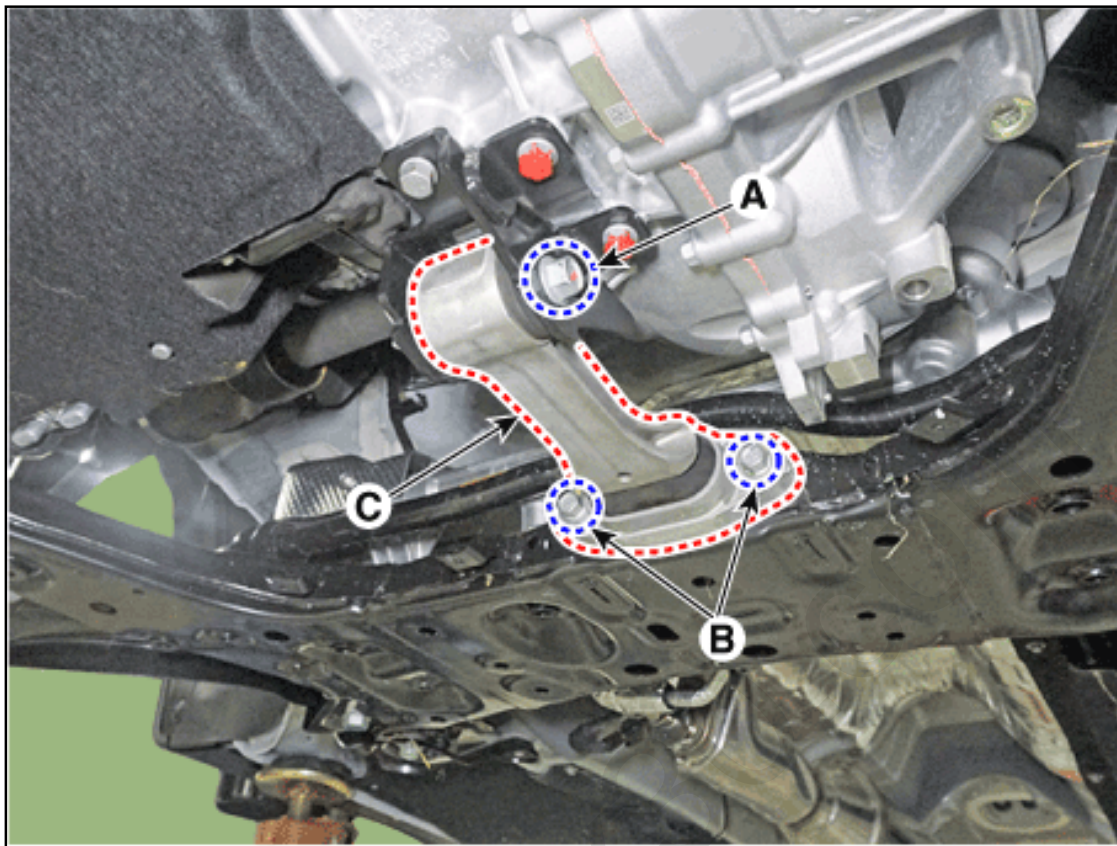


12. Remove the roll rod bracket (C) after loosening the bolt (A), (B).

Tightening torque :

(A) : 107.9 - 127.5 N.m (11.0 - 13.0 kgf.m, 79.6 - 94.0 lb-ft)

(B) : 49.0 - 63.7 N.m (5.0 - 6.5 kgf.m, 36.2 - 47.0 lb-ft)



- Set a transmission jack for safety.

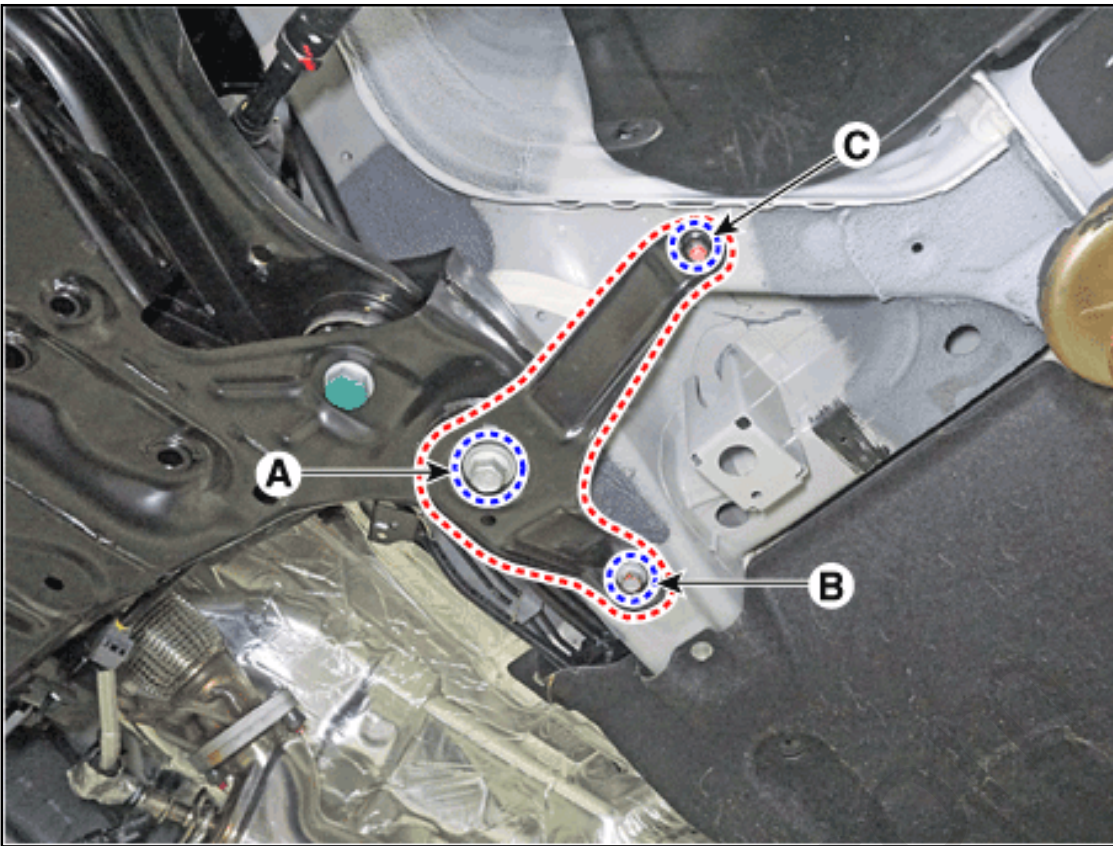
13. Remove the sub frame stay after loosening the mounting bolts (A, B) and nut (C).

Tightening torque :

(A) : 176.5 - 196.1 N.m (18.0 - 20.0 kgf.m, 130.2 - 144.7 b-ft)

(B) : 44.1 - 53.9 N.m (4.5 - 5.5 kgf.m, 32.5 - 39.8 lb-ft)

(C) : 44.1 - 53.9 N.m (4.5 - 5.5 kgf.m, 32.5 - 39.8 lb-ft)



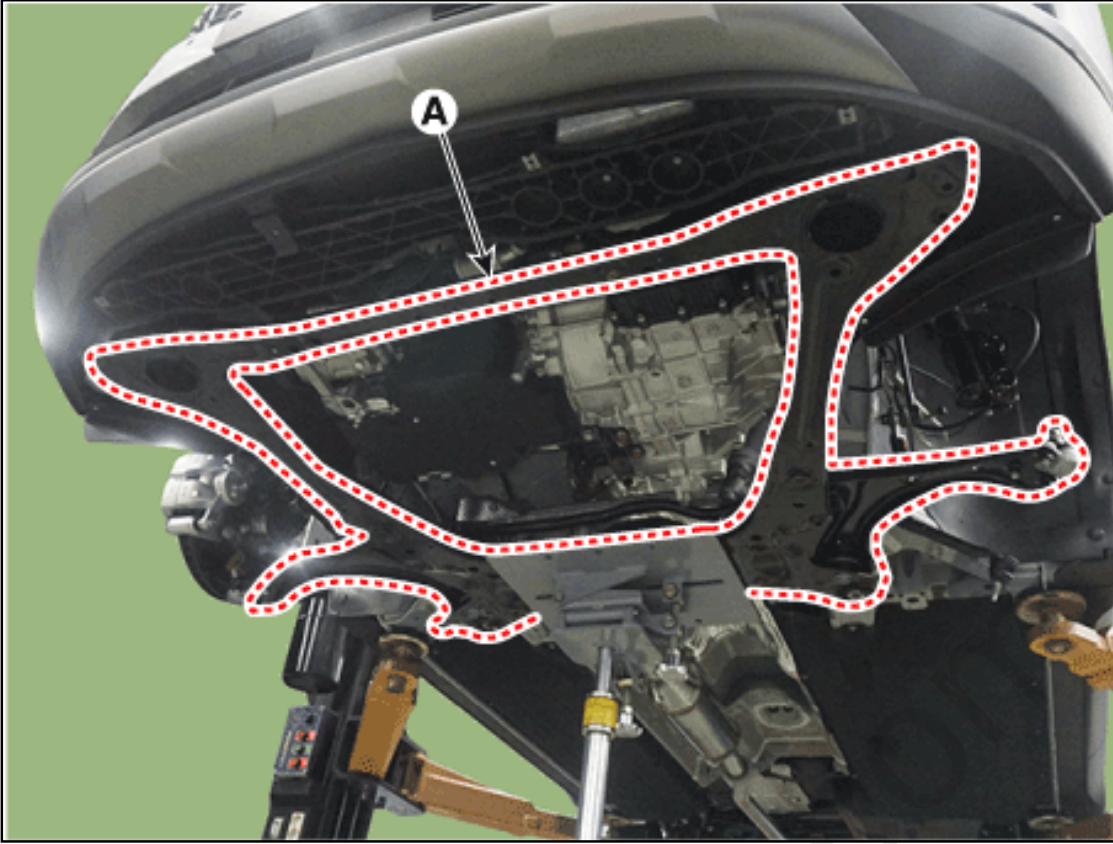
14. Loosen the sub frame mounting nuts (A).

Tightening torque :

176.5 - 196.1 N.m (18.0 - 20.0 kgf.m, 130.2 - 144.7 b-ft)



15. Remove the sub frame.

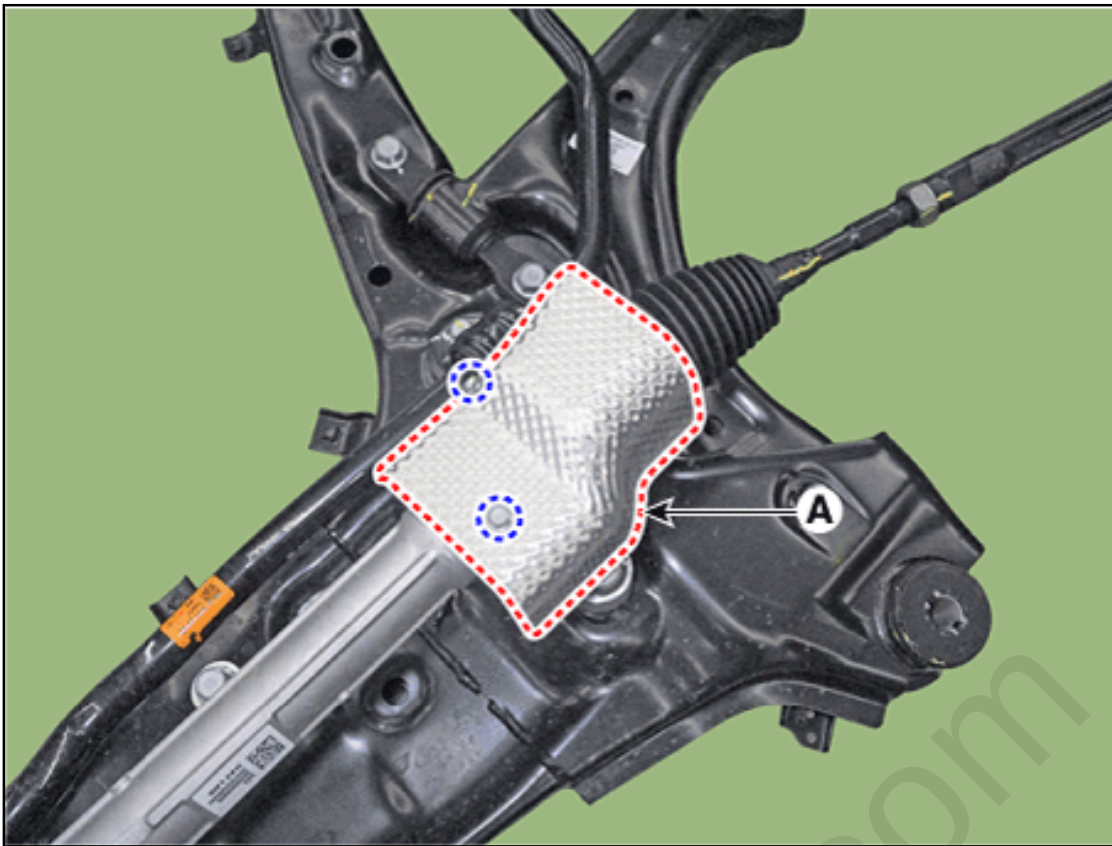


16. Remove the heat protector (A).

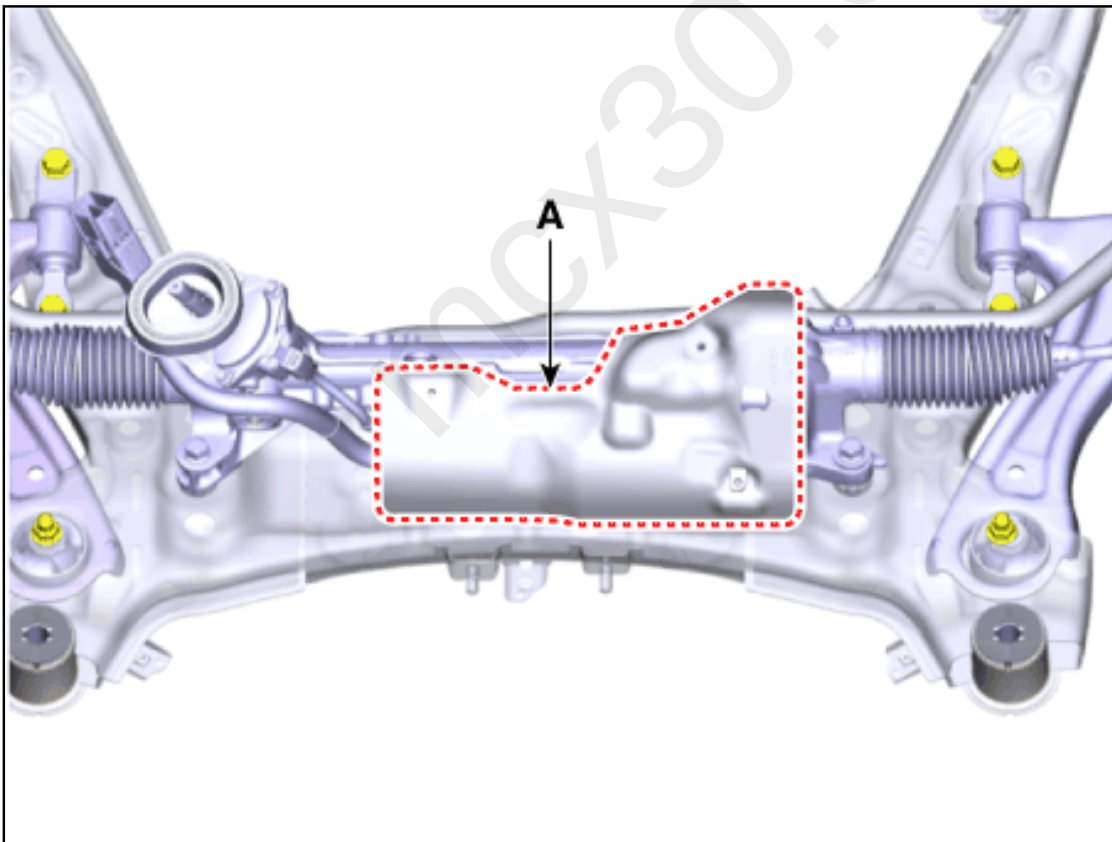
Tightening torque :

7.8 - 11.8 N.m (0.8 - 1.2 kgf.m, 5.8 - 8.7 lb-ft)

[C-MDPS]



[R-MDPS]

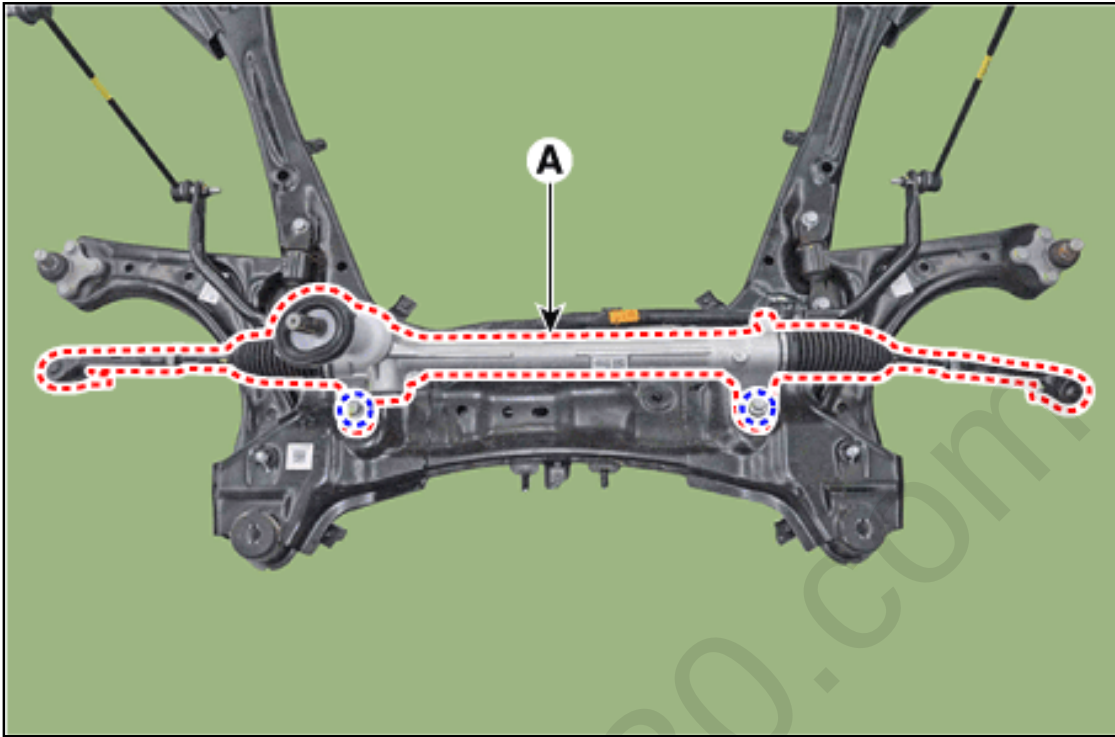


17. Remove the steering gearbox (A) from the front sub frame after loosening the mounting bolts.

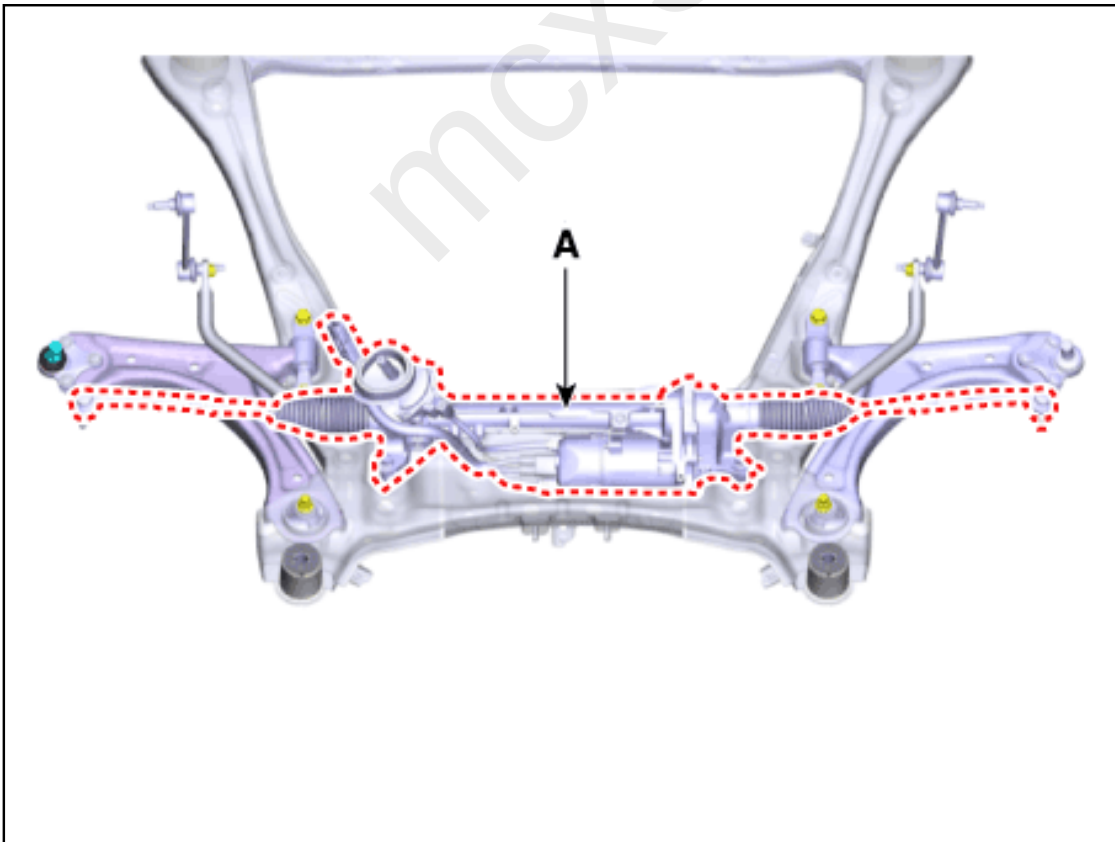
Tightening torque :

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

[C-MDPS]



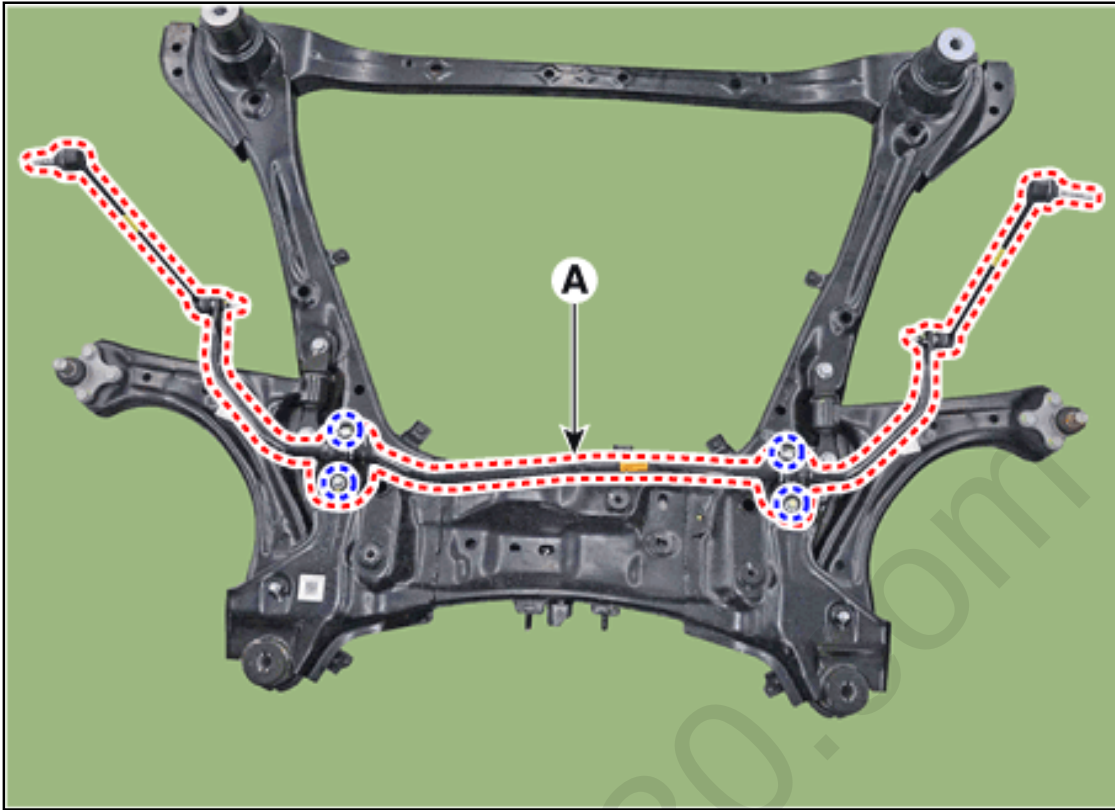
[R-MDPS]



18. Remove the stabilizer bar (A) from the sub frame after loosening the mounting bolts.

Tightening torque :

49.0 - 63.7 N.m (5.0 - 6.5 kgf.m, 36.2 - 47.0 lb-ft)



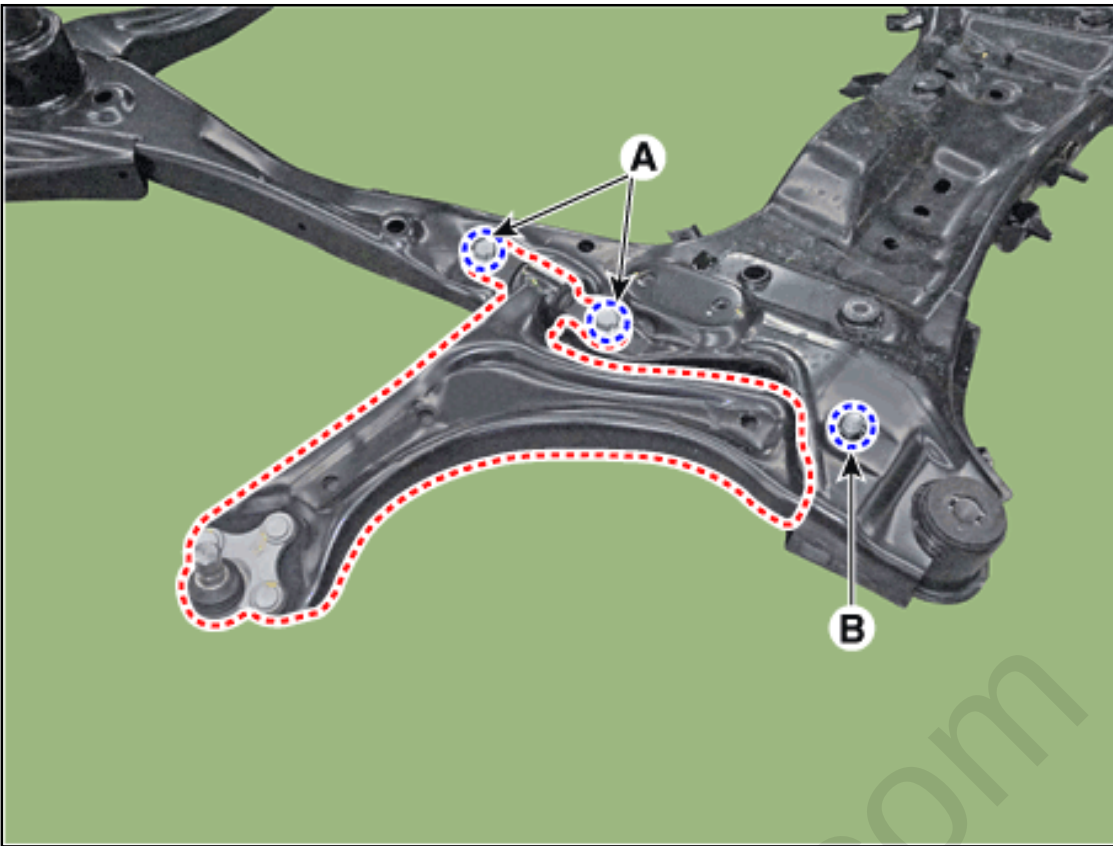
19. Remove the front lower arm after loosening the mounting bolts (A, B).

Tightening torque :

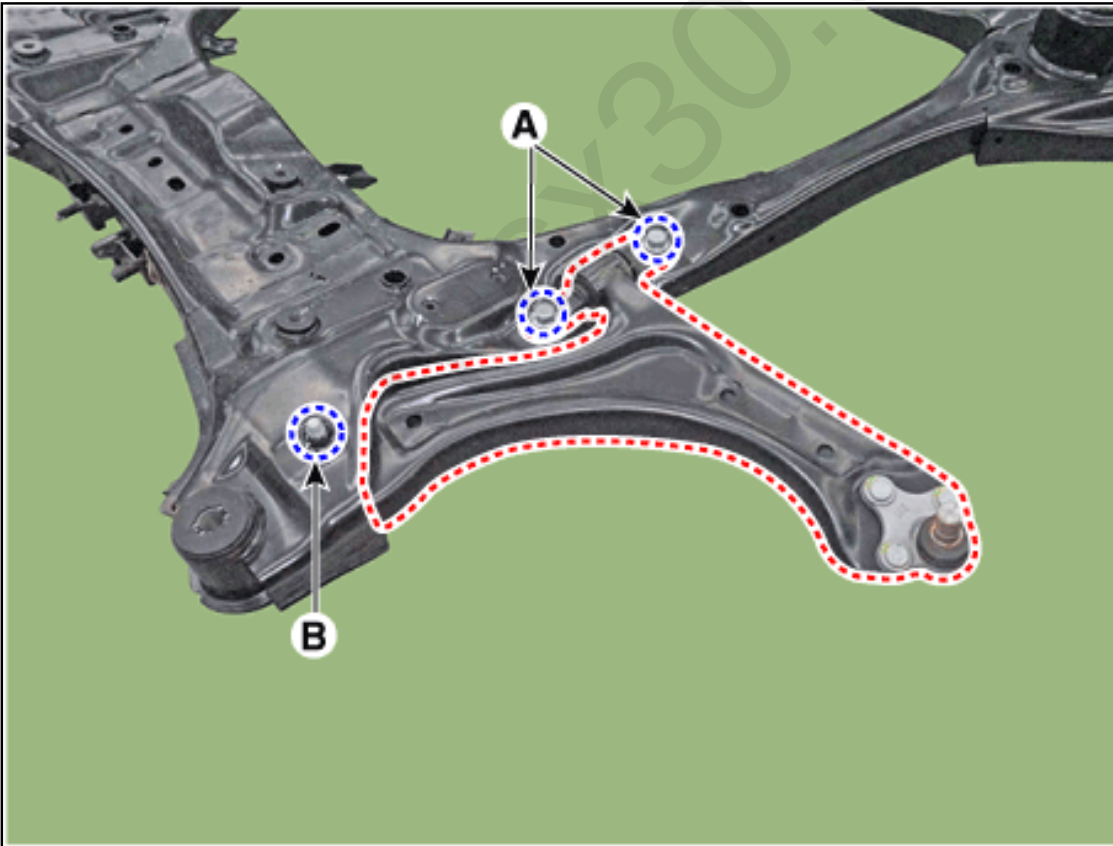
(A) : 156.9 - 176.5 N.m (16.0 - 18.0 kgf.m, 115.7 - 130.2 lb-ft)

(B) : 156.9 - 176.5 N.m (16.0 - 18.0 kgf.m, 115.7 - 130.2 lb-ft)

[LH]



[RH]



Installation

1. To install, reverse the removal procedures.

2. Check the alignment.

(Refer to Suspension System - "Alingment")

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