

Component Procedures: Front Subframe

Table of Contents

1. Parts and Labor (itype_189)
2. Sub Frame - Repair Procedures (Article 44282)

Component Procedures: Front Subframe

Parts and Labor (itype_189)

Parts

Qualifier	Part #	Name	Price	Note
Front Suspension > Front Sus?	62405F2050	Korea Built	974.14	
Front Suspension > Front Sus?	62405F3050	Us Built	960.68	

Labor

Operation	Qualifier Path	Skill	Std Hrs	Wty Hrs
Remove & Replace	Front Suspension > Crossmember, R&R	B	3.6	0.0

Sub Frame - Repair Procedures (Article 44282)

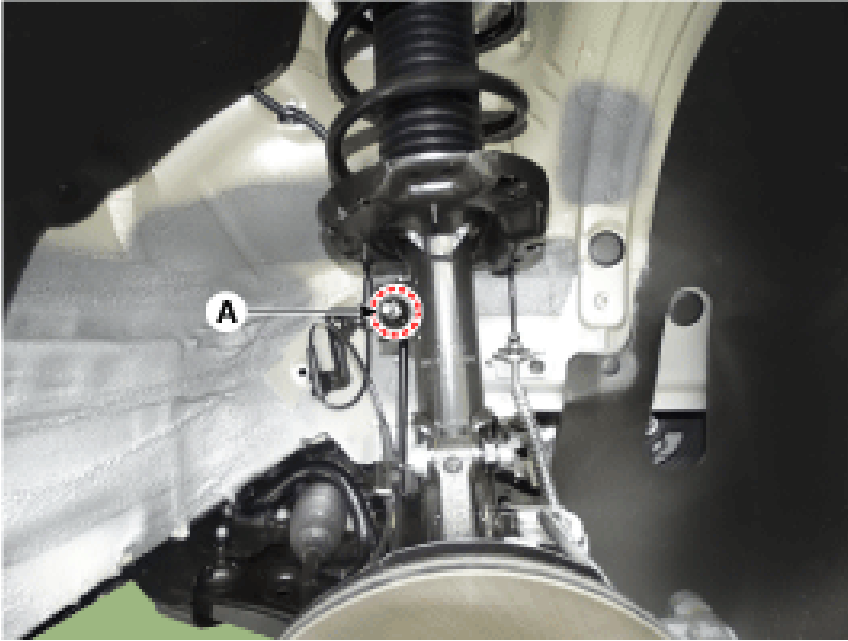
- Removal
- Loosen the wheel nut s slightly.
- Raise the vehicle, and make sure it is securely supported.
- Remove the front wheel and tire (A) from front hub . Tightening torque : 107.9 - 127.5 N.m (11.0 - 13.0 kgf.m, 79.6 - 94.0 lb-ft) Be careful not to damage the hub bolt s when removing the front wheel and tire (A).



Be careful not to damage the hub bolt s when removing the front wheel and tire (A).

NOTICE

- Be careful not to damage the hub bolt s when removing the front wheel and tire (A).
- Disconnect the stabilizer link with the front strut assembly after loosening the 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(A), fix the outer hexagon of stabilizer bar link. Be careful not to damage the stabilizer link boots.



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

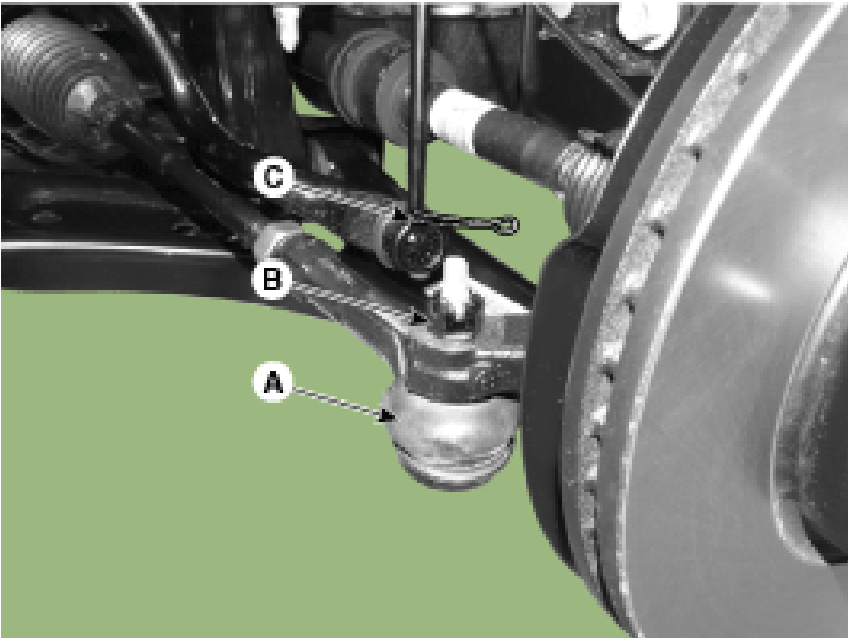
- When loosening the nut(A), fix the outer hexagon of stabilizer bar link. Be careful not to damage the stabilizer link boots.

- Remove the tie rod end ball joint . Remove the split pin (C). Loosen the nut (B). Using SST(09568-1S100), separate the ball joint (A) from the knuckle . Tightening torque : 23.5 - 33.3 N.m (2.4 - 3.4 kgf.m, 17.4 - 24.6 lb-ft)

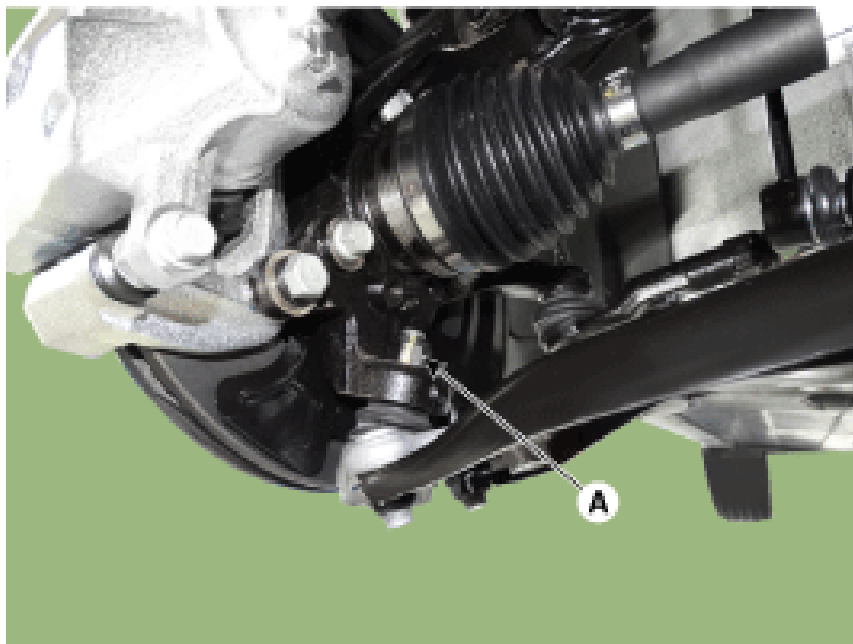
- Remove the split pin (C).

- Loosen the nut (B).

- Using SST(09568-1S100), separate the ball joint (A) from the knuckle .

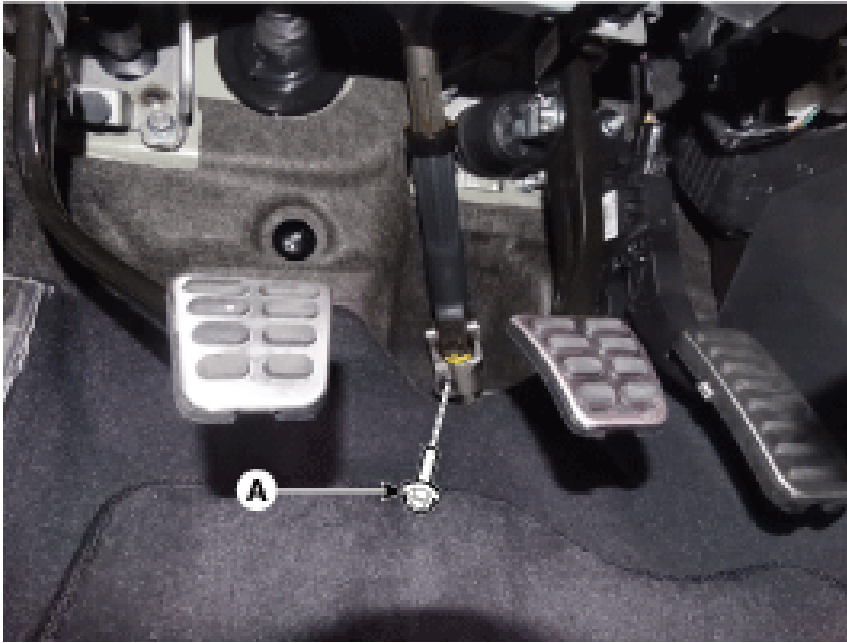


- Loosen the lower arm nut (A) and then remove the lower arm ball joint by using SST(09568-1S100). Tightening torque : 58.8 - 70.6 N.m (6.0 - 7.2 kgf.m, 43.4 - 52.1 lb-ft) Do not reuse the lower arm lock nut(A).



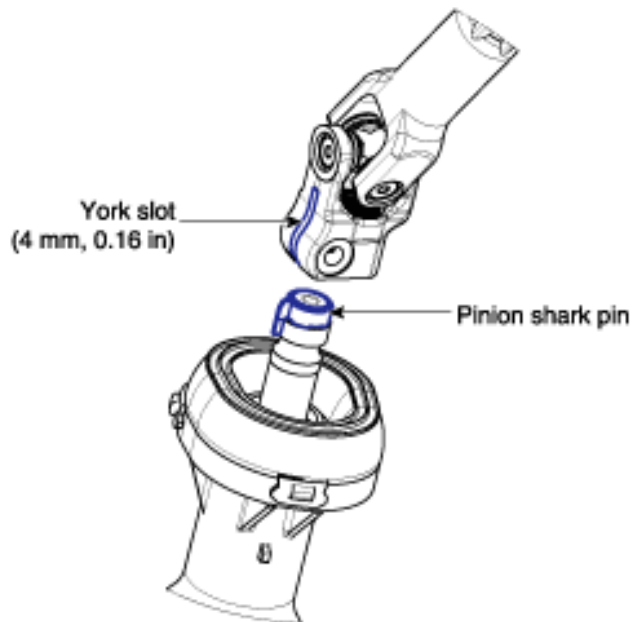
Do not reuse the lower arm lock nut(A).

- Loosen the bolt (A) and then disconnect the universal joint assembly from the pinion of the steering gear box . Tightening torque : 32.4 - 37.3 N.m(3.3 - 3.8 kgf.m, 23.9 - 27.5 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. When assembling, insert the shark pin into the universal joint yoke slot as the below illustration.

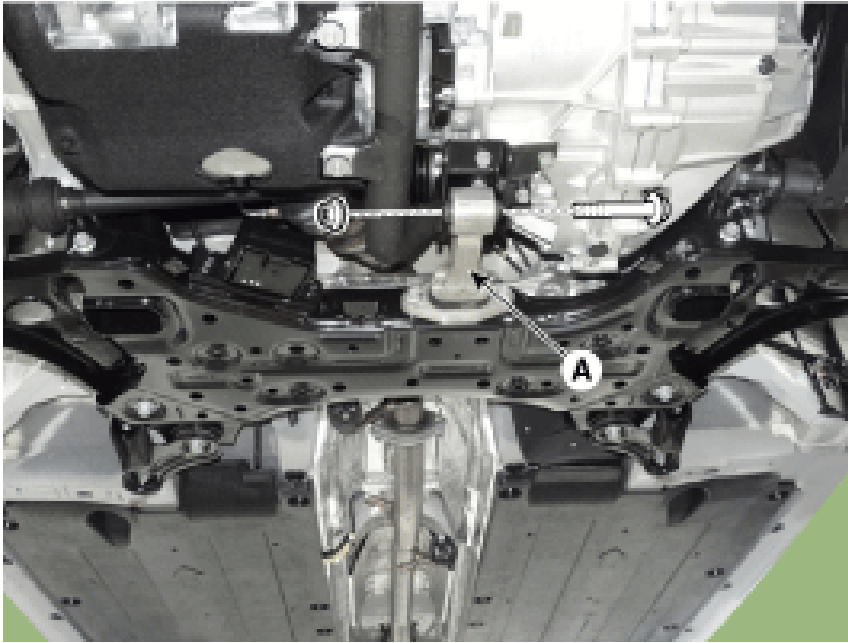


Do not reuse the bolt. Lock the steering wheel in the straight ahead position to prevent the damage of the clock spring inner cable. When assembling, insert the shark pin into the universal joint york slot as the below illustration.

- Do not reuse the bolt.
- Lock the steering wheel in the straight ahead position to prevent the damage of the clock spring inner cable.
- When assembling, insert the shark pin into the universal joint york slot as the below illustration.



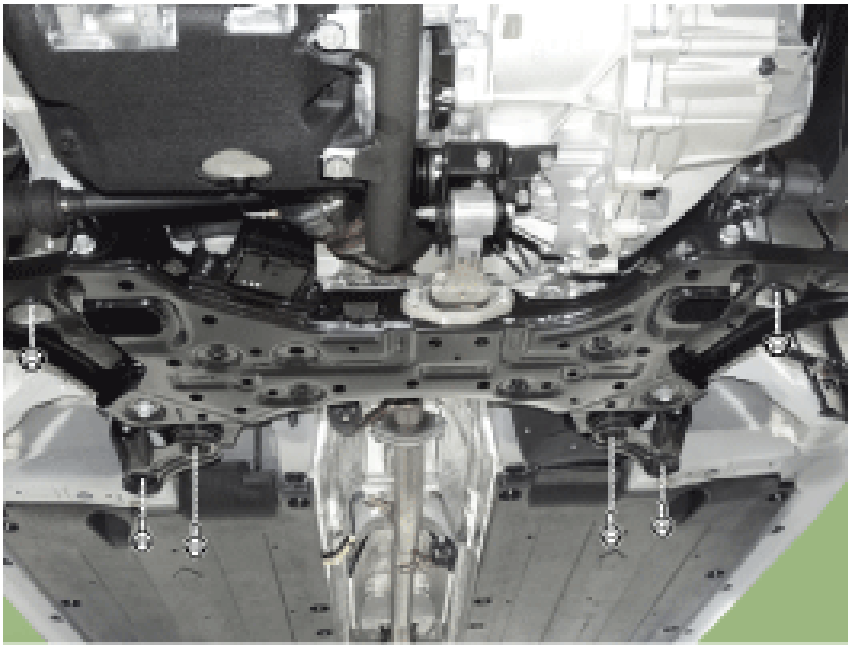
- Remove the roll rod stopper (A) by loosening the bolt and nut. Tightening torque : 107.9 - 127.5 N.m (11.0 - 13.0 kgf.m, 79.6 - 94.0 lb-ft)



- Remove the muffler rubber hanger (A).



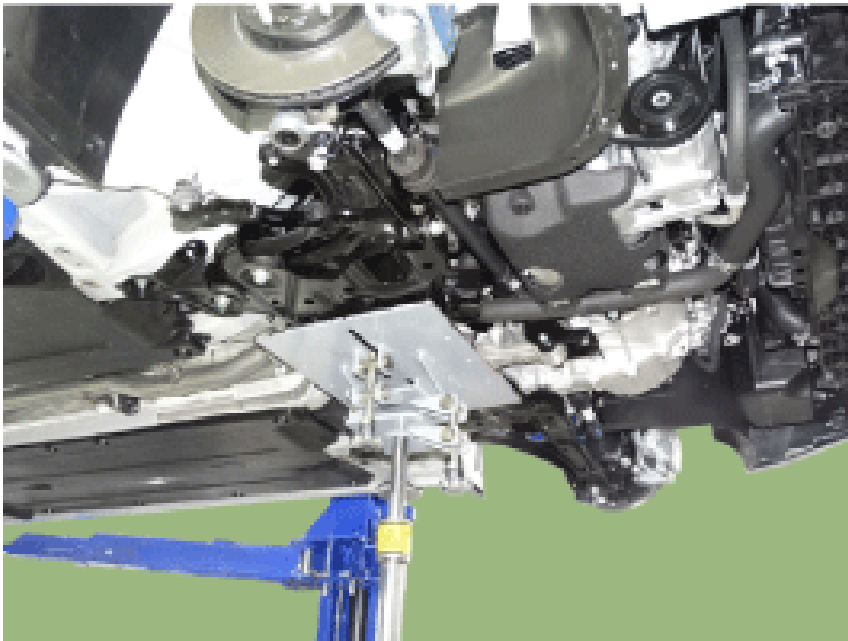
- Remove the subframe by loosening the mounting bolts and nuts. Tightening torque Sub frame mounting bolts and nut : 156.9 - 176.5 N.m (16.0 - 18.0 kgf.m, 115.7 - 130.2 lb-ft) Sub frame stay mounting bolt : 44.1 - 53.9 N.m (4.5 - 5.5 kgf.m, 32.5 - 39.8 lb-ft) Set a transmission jack for safety.



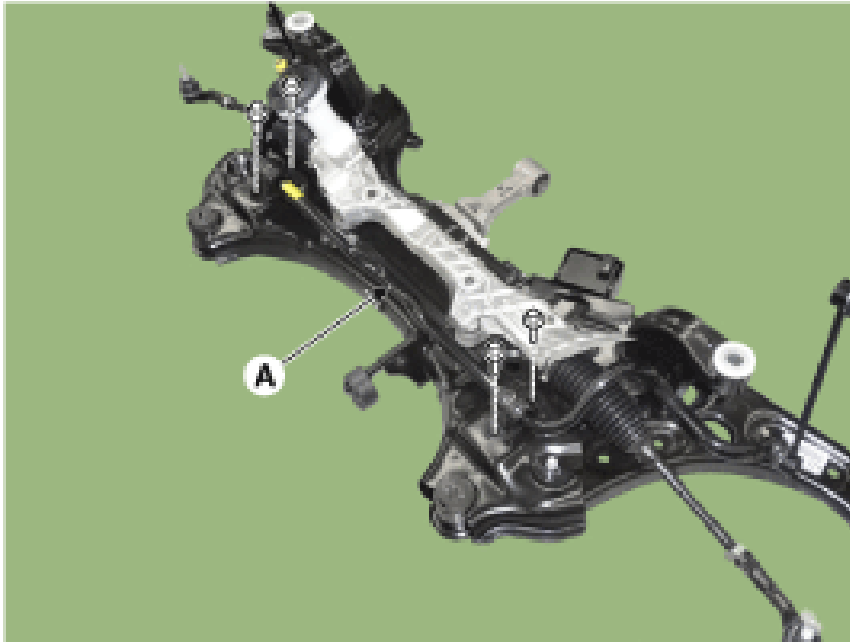
Set a transmission jack for safety.



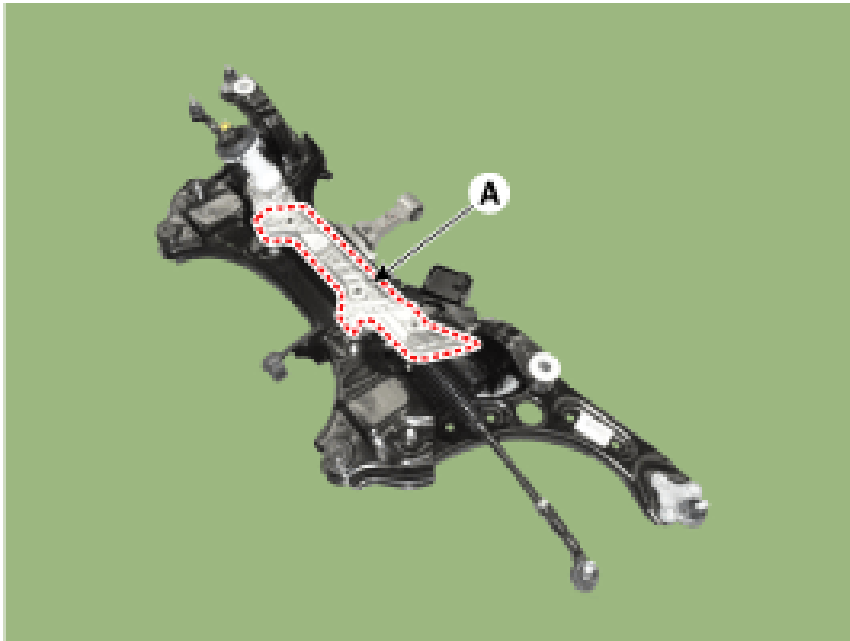
- Set a transmission jack for safety.



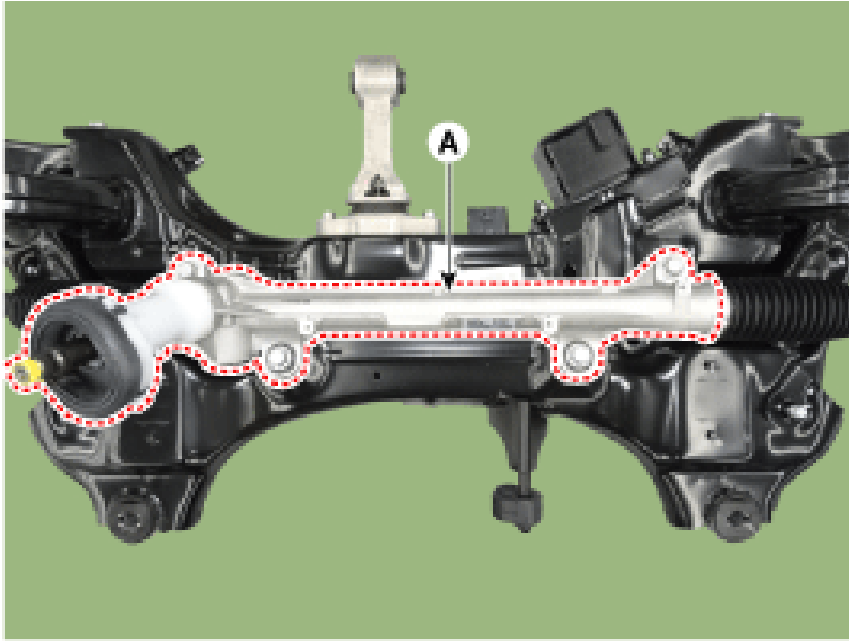
- Loosen the mounting bolts and then remove the stabilizer bar (A). Tightening torque : 44.1 - 53.9 N.m (4.5 - 5.5 kgf.m, 32.5 - 39.8 lb-ft)



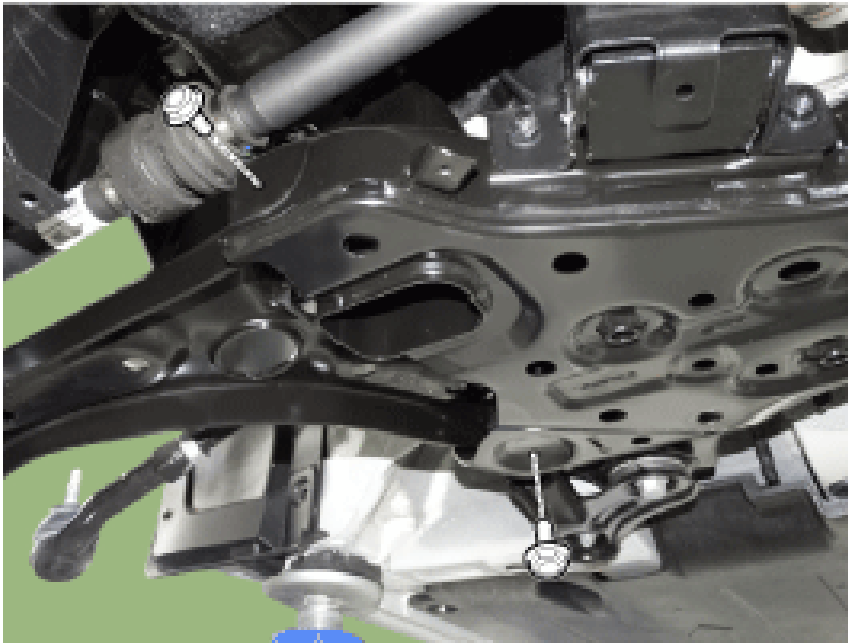
- Remove the protector (A). Tightening torque : 6.9 - 10.8 N.m (0.7 - 1.1 kgf.m, 5.1 - 8.0 lb-ft)



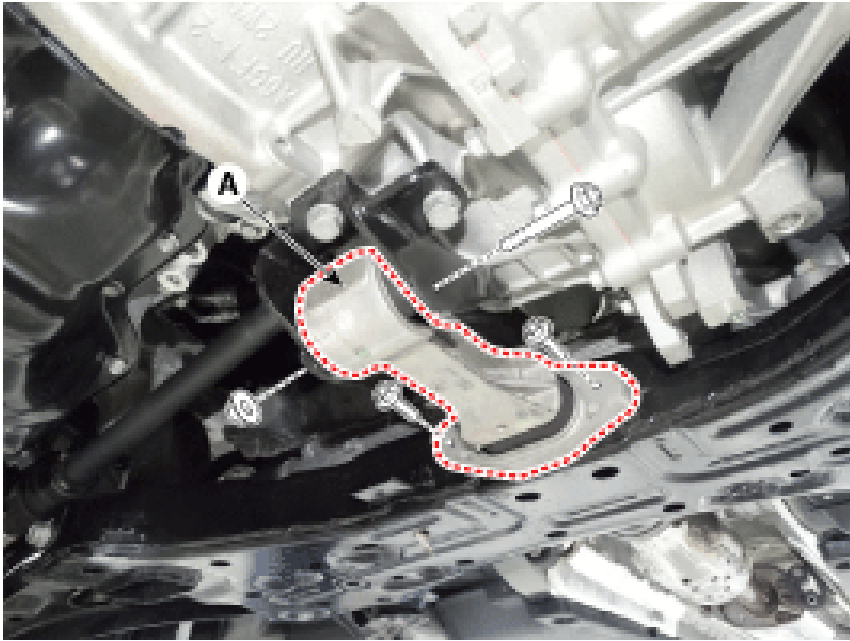
- Remove the steering gearbox from the front sub frame by loosening the mounting bolts. Tightening torque : 88.2 - 107.8 N.m (9.0 - 11.0 kgf.m, 65.0 - 79.5 lb-ft)



- Remove the front lower (A) arm after loosening the bolts & nuts. Tightening torque Front : 117.7 - 137.3 N.m (12.0 - 14.0 kgf.m, 86.8 - 101.3 lb-ft) Rear : 156.9 - 176.5 N.m (16.0 - 18.0 kgf.m, 115.7 - 130.2 lb-ft)



- . Remove the roll rod bracket (A). Tightening torque : 49.0 - 63.7 N.m (5.0 - 6.5 kgf.m, 36.2 - 47.0 lb-ft)



- Install in the reverse order of removal.
- Check the front alignment. (Refer to Suspension System - "Front Alignment")