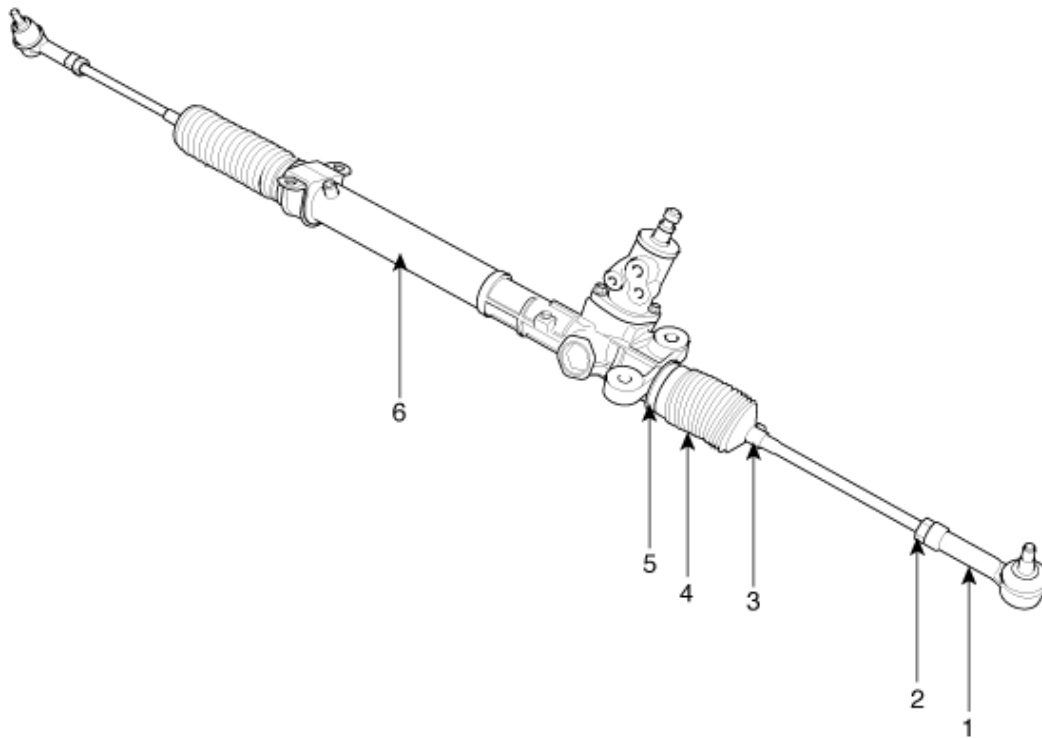


Components



1. Tie rod end assembly
2. Lock nut
3. Bellows clip

4. Bellows
5. Bellows band
6. Rack housing assembly

Replacement

1. Drain the power steering fluid.
2. Remove the front wheel & tire.

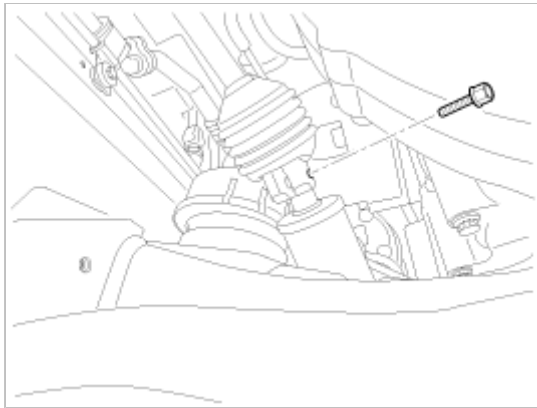
Tightening torque :

90 ~ 110N.m (9.0 ~ 11.0kgf.m, 65 ~ 80lb-ft)

3. Loosen the bolt and then disconnect the universal joint assembly from the pinion of the steering gear box.

Tightening torque :

18 ~ 25N.m (1.8 ~ 2.5kgf.m, 13 ~ 18lb-ft)



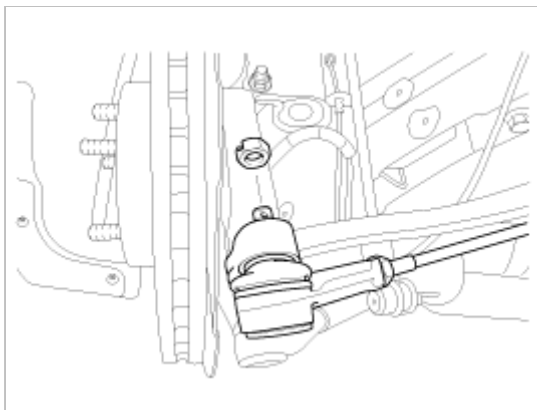
CAUTION

Keep the neutral-range to prevent the damage of the clock spring inner cable when you handle the steering wheel.

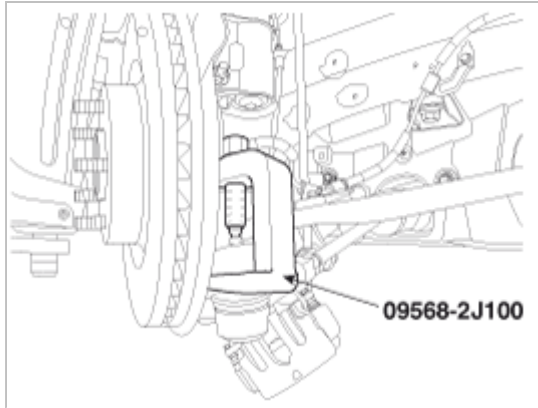
4. Loosen the castle nut.

Tightening torque :

60 ~ 80N.m (6.0 ~ 8.0kgf.m, 43 ~ 58lb-ft)



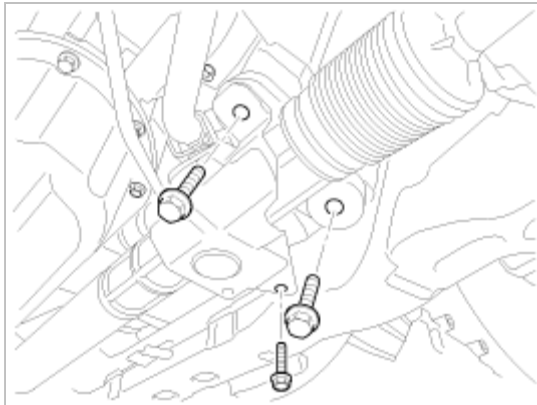
5. Remove the Tie rod end from the front axle by using a SST (09568-2J000).



6. Remove steering gearbox from the cross member by loosening the bracket mounting bolts.

Tightening torque :

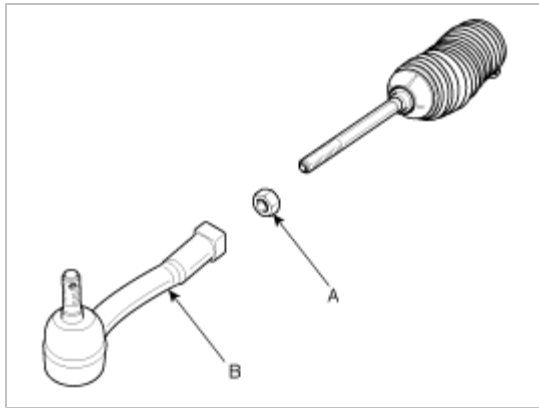
60 ~ 80N.m (6.0 ~ 8.0kgf.m, 43 ~ 58lb-ft)



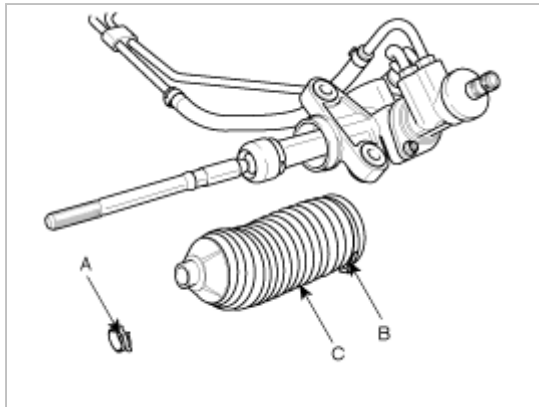
7. Installation is the reverse of the removal.

Disassembly

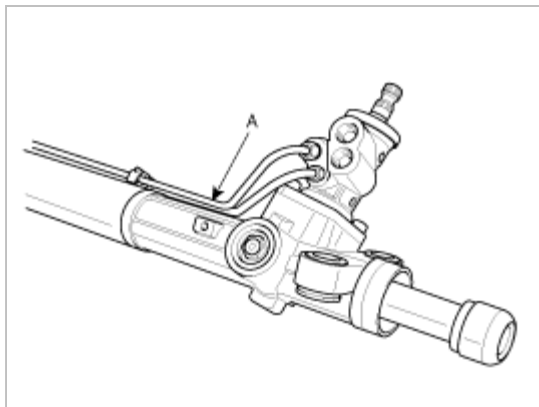
1. Loosen the lock nut (A) and then unscrew the toe-rod end (B) and lock nut from the tie-rod.



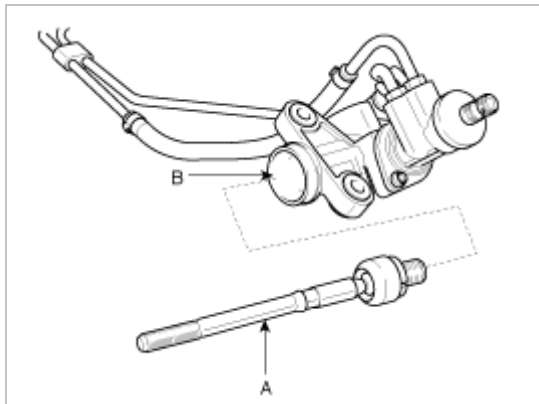
2. Remove the bellows clip (A) and band (B) and then pull the bellows (C) away from the end of the tie-rod.



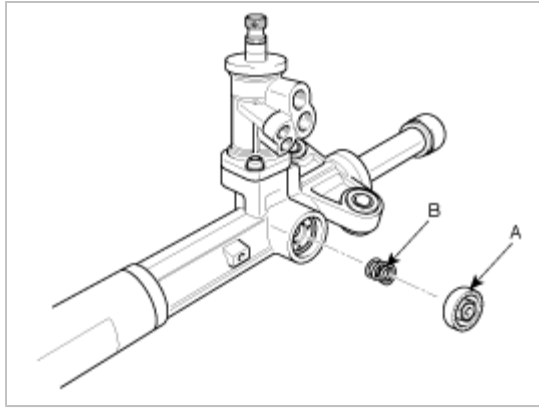
3. Remove the feed tubes (A) from the steering gear box.



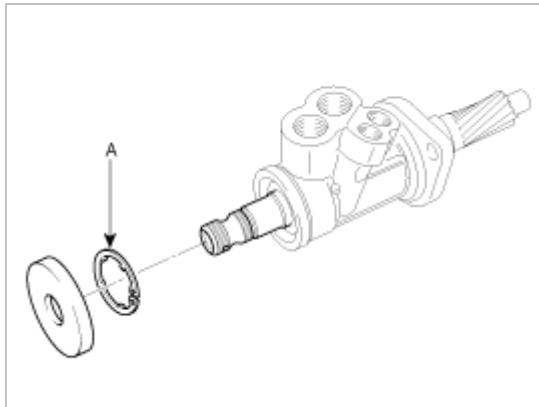
4. Unscrew the tie-rod (A) from the rack bar (B).



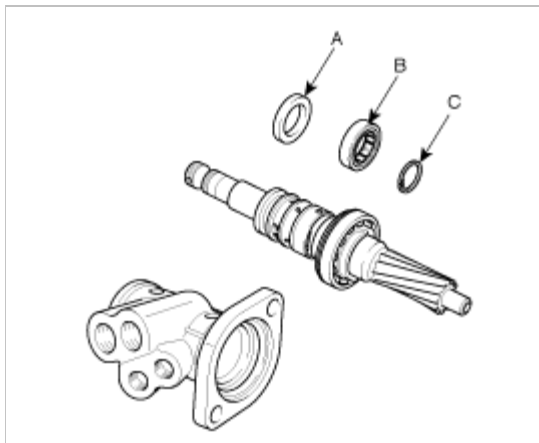
5. Remove the lock nut and yoke plug and then pull out the yoke spring and support yoke.



6. Remove the snap ring (A).



7. Remove the oil seal (A), bearing (B) and snap ring (C).



CAUTION

Do not allow dust, dirt, or foreign materials to contact the disassembled parts or inside of the valve assembly housing.

8. Unscrew the rack bush and pull the rack bar out of the rack housing.

9. Reassembly is the reverse of the disassembly.

Inspection

1. Rack

- A. Check for rack tooth face damage or wear.
- B. Check for oil seal contact surface damage.
- C. Check for rack bending or twisting.
- D. Check for oil seal ring damage or wear.

E. Check for oil seal damage or wear.

2. Pinion valve

A. Check for pinion gear tooth face damage or wear.

B. Check for oil seal contact surface damage.

C. Check for seal ring damage or wear.

D. Check for oil seal damage or wear.

3. Bearing

A. Check for seizure or abnormal noise during abearing rotation.

B. Check for excessive play.

C. Check for missing needle bearing rollers.

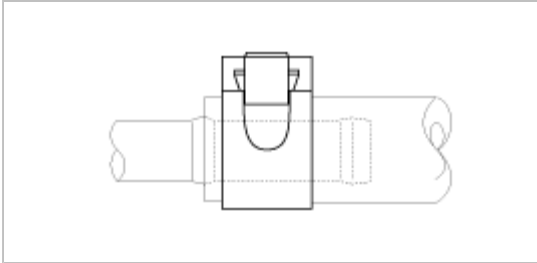
4. Others

A. Check for damage of the rack housing cylinder bore.

B. Check for boot damage, cracking or aging.

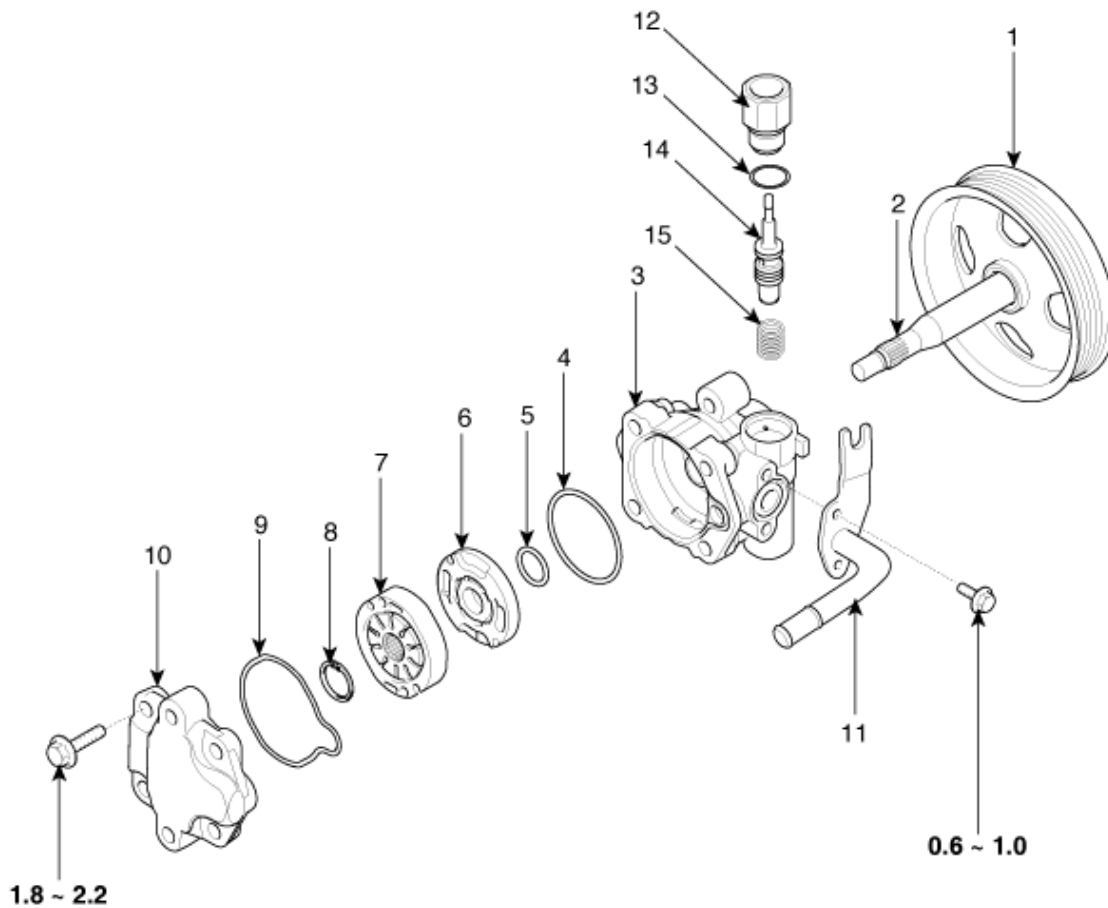
Replacement

- Refer to the components illustration during removal or installation.
- When installing, be sure to connect between hose to tube using a clamp as shown in the illustration.



- Check all clamps for deterioration or deformation; replace with the clamps new one if necessary.
- Add the recommended power steering fluid and bleed the power steering system.

Components



Torque : N.m (kgf.m, lb-ft)

1. Pump pulley	6. Side plate	11. Suction pipe
2. Pump shaft	7. Rotor & vane	12. Connector assembly
3. Pump body	8. O - ring	13. O-ring
4. O - ring	9. O - ring	14. Flow control valve
5. O - ring	10. Pump cover	15. Spring

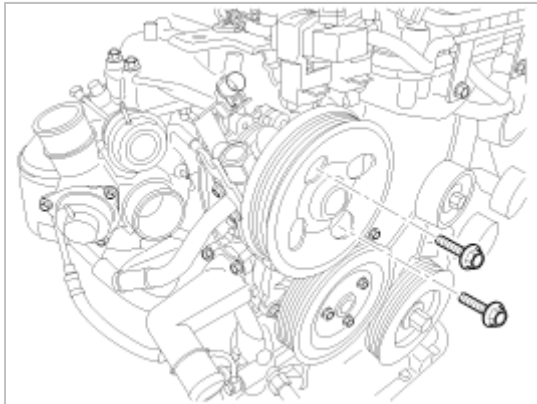
Replacement

[2.0 Theta]

1. Drain the power steering fluid.
2. Remove the drive belt.
3. Disconnect the pressure tube and return hose from the power steering pump.



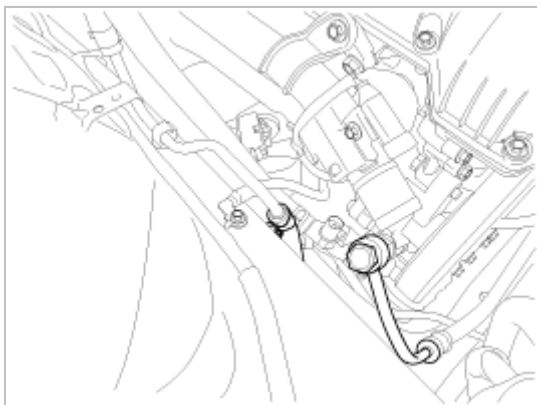
4. Loosen the mounting bolts and then remove the power steering pump.



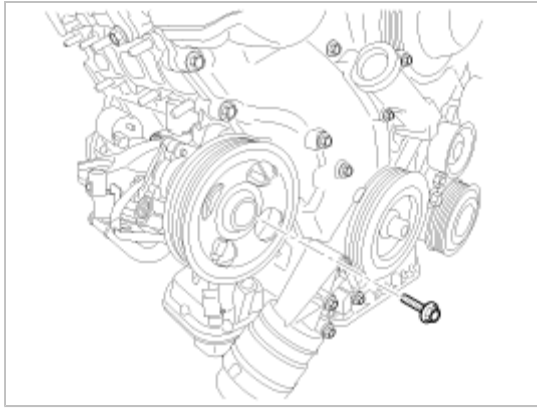
5. Installation is the reverse of the removal.

[3.8 DOHC(VVT)]

1. Drain the power steering fluid.
2. Remove the drive belt.
3. Disconnect the pressure tube and return hose from the power steering pump.



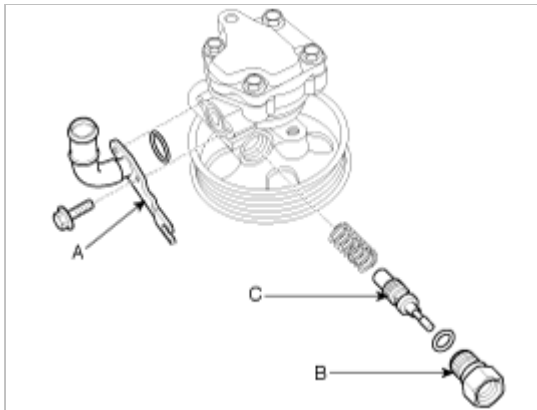
4. Loosen the mounting bolts and then remove the power steering pump.



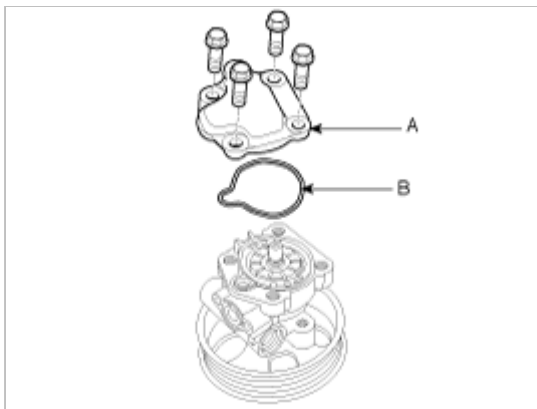
5. Installation is the reverse of the removal.

Disassembly

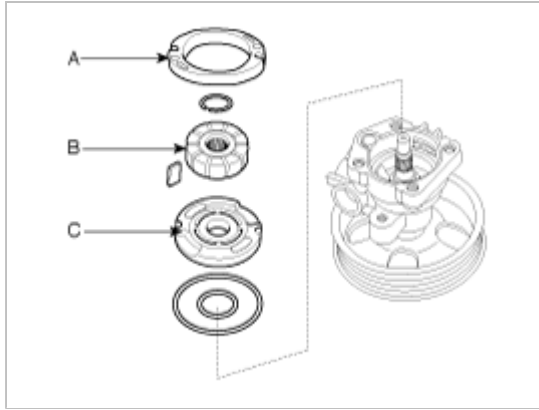
1. Remove the suction tube (A) and O-ring.
2. Unscrew the connector assembly (B) and then pull the flow control valve (C) and spring out of the pump body.



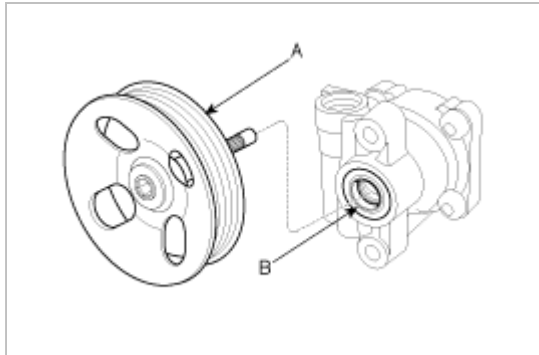
3. Remove the pump cover (A) and O-ring (B).



4. Remove the cam ring (A) and rotor& vanes (B).
5. Remove the side plate (C) and O-rings.



6. Remove the pump pulley & shaft (A) and O – ring (B).



Inspection

1. Check that the flow control valve is not bent.
2. Check the shaft for wear and damage.
3. Check the V belt for wear and deterioration.
4. Check the grooves of the rotor and vanes for stratified abrasion.
5. Check the contact surface of the cam ring and vanes for stratified abrasion.
6. Check vanes for damage.
7. Check that there is no striped wear in the side plate or contacting part between the shaft and the pump cover surface.