



Technical Service Bulletin

GROUP
STEERING

NUMBER
18-ST-001

DATE
MAY, 2018

MODEL(S)
**Elantra (MD/UD)
Elantra GT (GD)
Veloster (FS)**

SUBJECT: STEERING RACK SUPPORT YOKE NOISE

Description: On some Elantra (MD/UD), Elantra GT (GD) and Veloster (FS) vehicles, a noise may develop in the steering rack. This bulletin does not address any steering function related concerns. This bulletin provides information on replacement of the steering rack support yoke assembly.



Applicable Vehicles:

- All 2011 to 2016 model year Elantra (MD and UD)
- All 2012 to 2017 model year Elantra GT (GD)
- All 2011 to 2017 model year Veloster and Veloster Turbo (FS)

Circulate To: General Manager, Service Manager, Parts Manager, Warranty Manager, Service Advisors, Technicians, Body Shop Manager, Fleet Repair

SUBJECT:

MD/UD/GD/FS STEERING RACK SUPPORT YOKE NOISE

Part Information:

| Part Name | Part Number | Photo |
|----------------------|----------------|---|
| YOKE KIT | 56570-3X000FFF |  |
| UNIVERSAL JOINT BOLT | 56415-2H000 |  |

Tool Information:

| Name | Photo | Remark |
|--------------|---|-------------------|
| 24mm HEX BIT |  | DEALER TO PROVIDE |

Warranty Information:

| Model | Op. Code | Operation | Op. Time | Causal Part | Nature | Cause |
|-----------------------------------|----------|------------------|----------|-------------|--------|-------|
| Elantra (MD/U) Elantra GT (GD) | 56570F00 | YOKE REPLACEMENT | 1.8 M/H | 56532-3X000 | Q55 | ZZ5 |
| Veloster (FS) | 56570F01 | | 1.9 M/H | | | |

Service Procedure:

1. Secure the steering wheel in the straight ahead position to prevent damage to the clock spring.

*** NOTE**

Do **NOT** allow the steering wheel to spin freely to prevent damage to the clock spring.



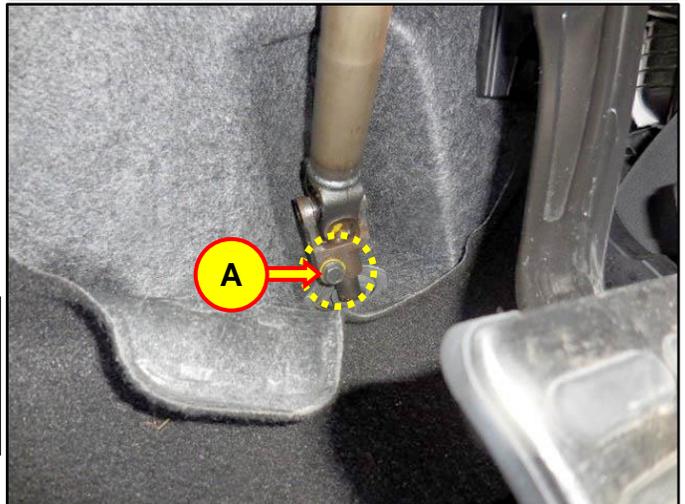
2. Loosen and remove the universal joint bolt (A). Discard the bolt.

Tightening torque:

32.3 ~ 37.2 Nm (3.3 ~ 3.8 kgf.m, 23.8 ~27.4 lb-ft)

⚠ CAUTION

Must use a new universal joint bolt (A), P/N 56415-2H000, during reassembly.



3. Lift up the vehicle and then remove the front wheels & tires (B).

Tightening torque:

88.2 ~ 107.8 N.m (9.0 ~ 11.0kgf.m, 65.0 ~79.5 lb-ft)

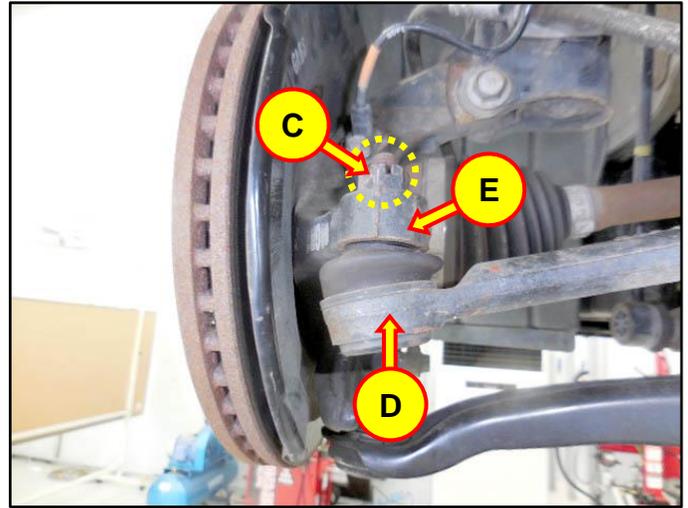


4. Remove the split pin and nut (C) and then separate the tie rod end (D) from the knuckle (E).

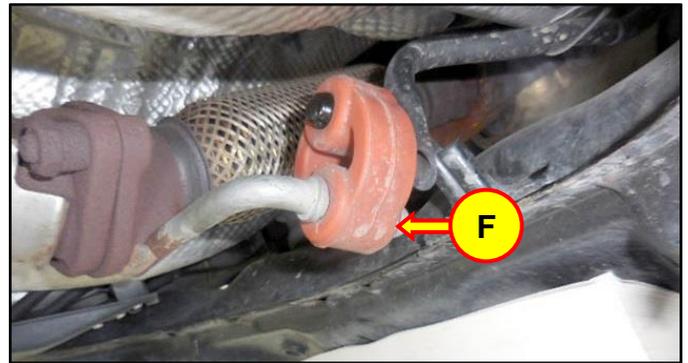
Perform procedure on the other side.

Tightening torque:

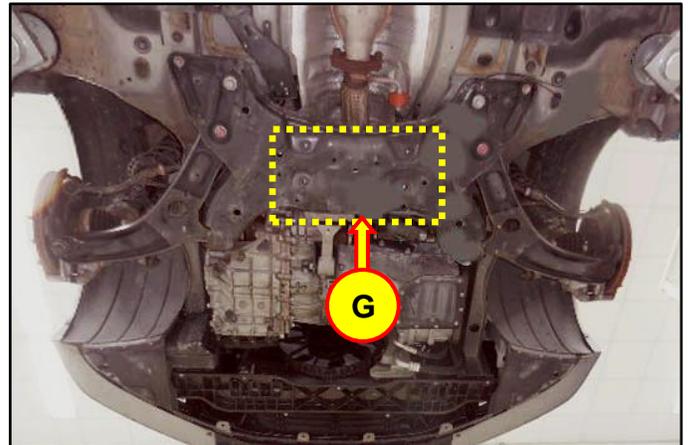
23.5 ~ 33.3 N.m (2.4 ~ 3.4kgf.m, 17.3 ~24.5 lb-ft)



5. Remove the exhaust tube hanger (F).



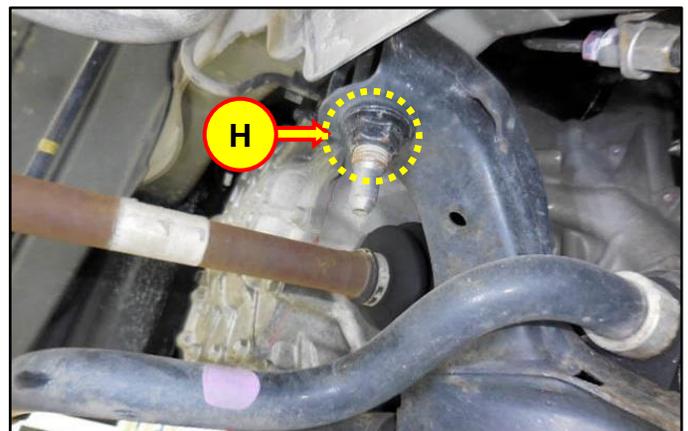
6. Support the front sub frame (G) within the area shown with a jack.



7. Remove all the sub frame mounting nuts (H).

Tightening torque:

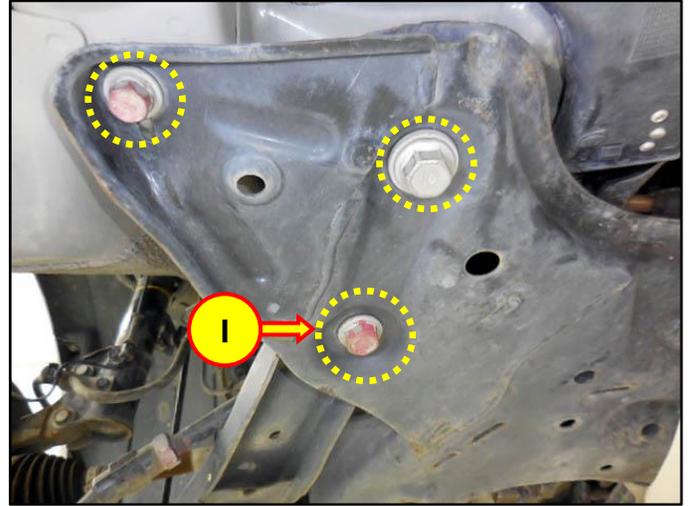
156.9 ~ 176.5 N.m (16.0~ 18.0kgf.m, 115.7 ~130.1 lb-ft)



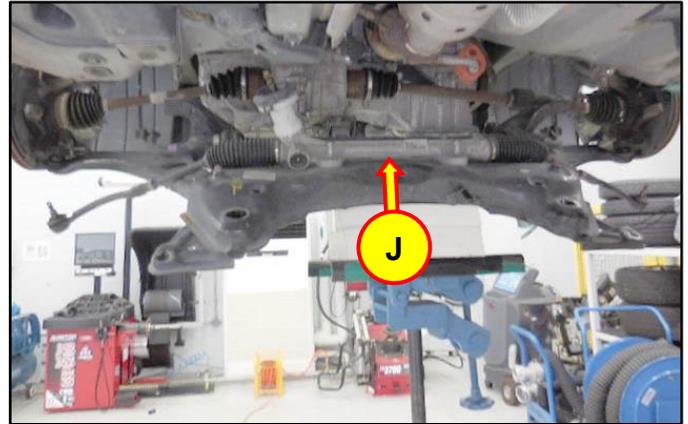
8. Remove all the sub frame stay bolts (I).

Tightening torque:

44.1 ~ 53.9 N.m (4.5~ 5.5kgf.m, 32.5 ~39.7 lb-ft)



9. Carefully lower the sub frame to provide access to the steering rack (J).

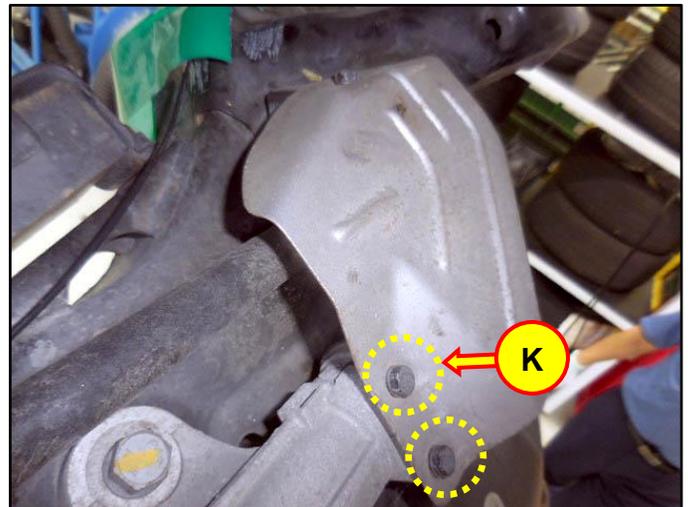


10. Remove the bolts (K) and the protector from the steering rack.

Reuse the protector during reassembly.

Tightening torque:

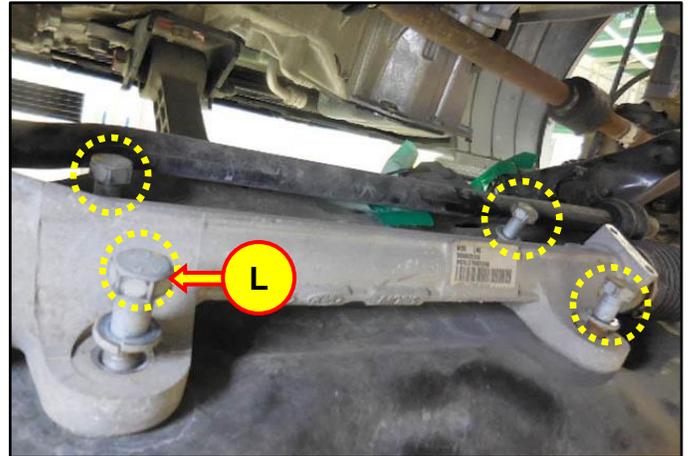
6.9 ~ 10.8 N.m (0.7 ~ 1.1 kgf.m, 5.1 ~ 8.0 lb-ft)



11. Remove the bolts (L), then remove the steering rack from the vehicle.

Tightening torque:

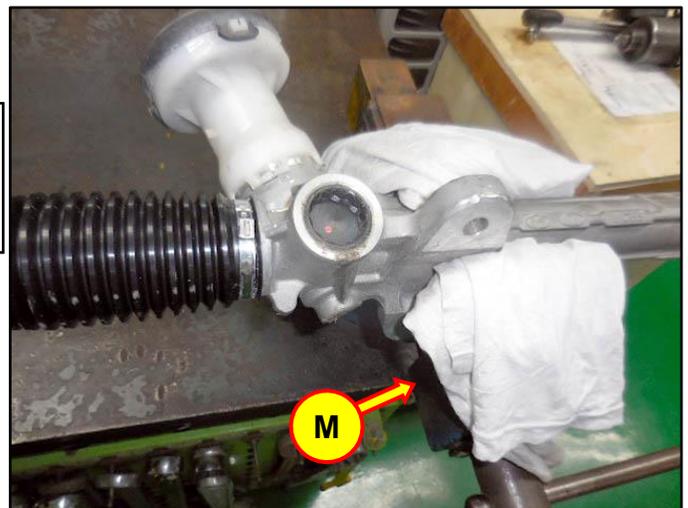
58.8 ~ 78.8 N.m (6.0 ~ 8.0 kgf.m, 43.4 ~ 57.9 lb-ft)



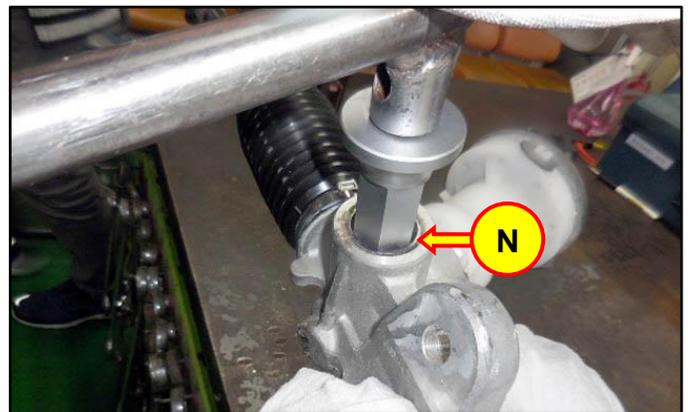
12. Secure the steering rack in a vice (M).

*** NOTE**

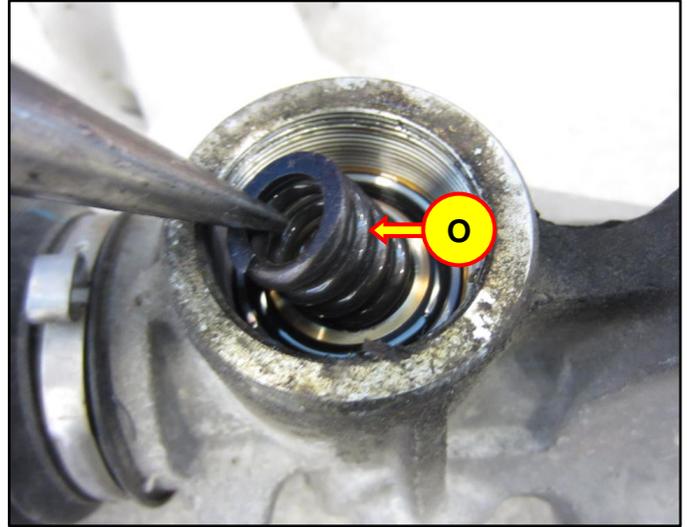
Protect the steering rack from damage when securing in the vice.



13. Loosen and remove the yoke plug (N) and discard.



14. Remove the yoke spring (O). Do not discard the yoke spring. The spring will be reused during reassembly.



15. Clean the threads and interior of yoke plug housing with a clean rag and isopropyl alcohol.

*** NOTE**

Only use the isopropyl alcohol to clean the threads and yoke plug housing.



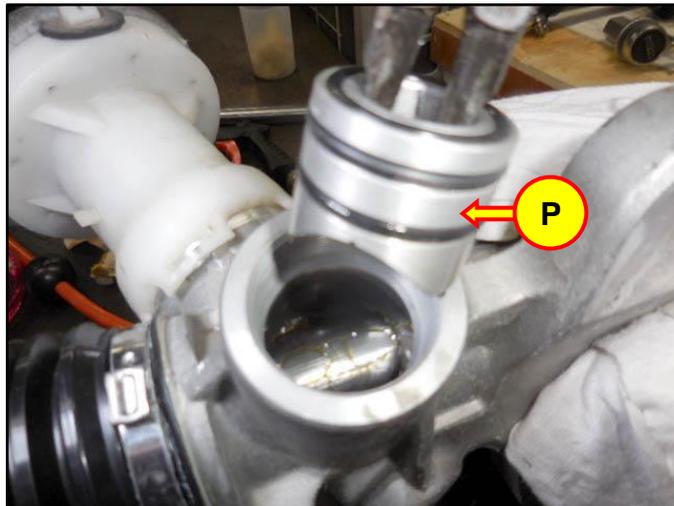
16. Clean out the remaining debris with an air gun.

⚠ CAUTION

Wear protective goggles when performing this step.



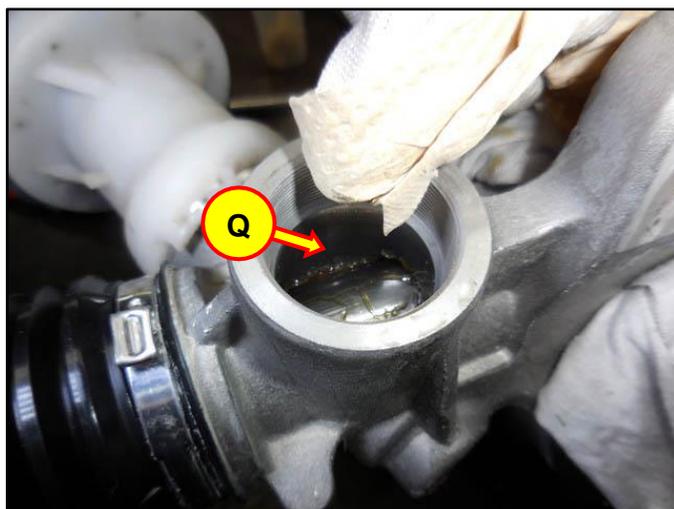
17. Remove the support yoke (P) and discard.



18. Clean the interior of yoke plug housing (Q) with a clean rag and isopropyl alcohol.

*** NOTE**

Only use the isopropyl alcohol to clean the yoke plug housing.



19. Apply the grease evenly on the contact side of the new rack bar support yoke.

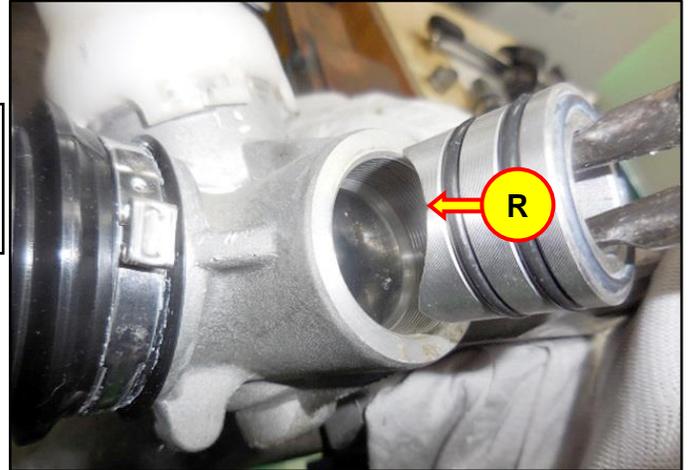
Use all the grease provided in the packet.



20. Install the new support yoke.

*** NOTE**

Ensure that the curve (R) of the support yoke is aligned as shown in the photo to the right.



21. Reinstall the yoke spring.



22. Hand tighten the new yoke plug.



23. Tighten the yoke plug to the torque specification.

Tightening torque:

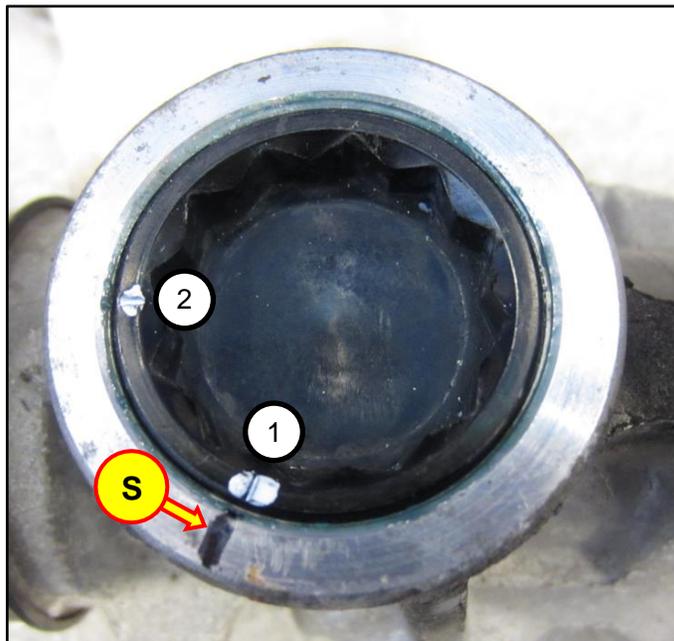
50 N.m (5.0 kgf.m, 36.8 lb-ft)



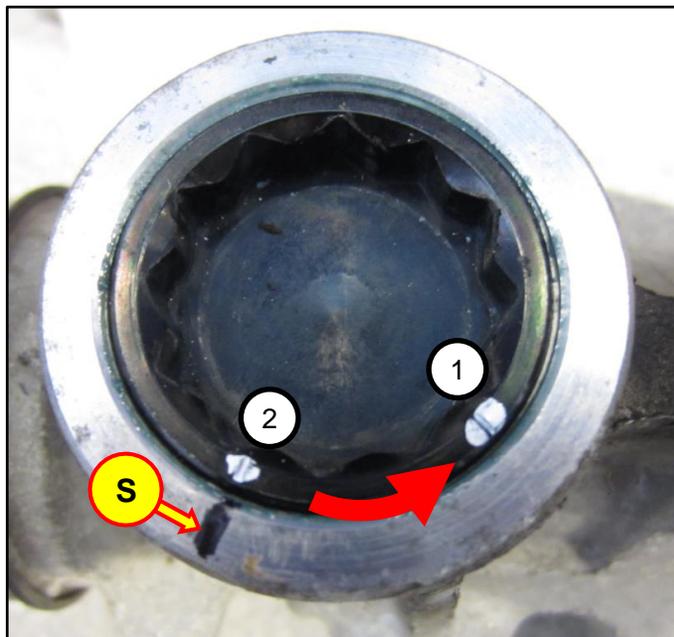
- 24a. Set the final torque of the yoke plug:

Mark the steering rack housing (S) next to the white dot (1) marked on the yoke plug.

Use the photo to the right as a guide on marking the steering rack housing.



- b. Rotate the yoke plug counter-clockwise until the white yoke plug mark labeled (2) reaches the steering rack housing mark labeled (S).



25. Reinstall all removed parts in reverse order of removal.
26. Perform wheel alignment.