



HYUNDAI

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NEW POSSIBILITIES.

Technical Service Bulletin

GROUP

RECALL

NUMBER

17-01-032

DATE

APRIL 2017

MODEL(S)

Elantra (AD)

SUBJECT:

**2017 ELANTRA (AD) MDPS MOTOR REPLACEMENT
(RECALL CAMPAIGN 161)**

★ IMPORTANT

***** Dealer Stock and Retail Vehicles *****

Dealers must perform this Recall Campaign on all affected vehicles prior to customer retail delivery and whenever an affected vehicle is in the shop for any maintenance or repair.

When a vehicle arrives at the service department, access Hyundai Motor America's "Warranty Vehicle Information" screen via WEBDCS to identify open Campaigns.

Description: Certain 2017 MY Elantra (AD) vehicles may illuminate the "EPS" indicator lamp in the instrument cluster due to a connection issue at the MDPS Motor-to-ECU connector. When the "EPS" lamp is illuminated, the vehicle may revert to manual steering mode. Steering control can be maintained; however, manual steering mode requires greater driver effort, particularly at low speeds. This could result in an increased risk of a crash. This bulletin describes the procedure to replace the MDPS Motor.



Applicable Vehicles: Certain 2017 MY Elantra (AD) vehicles (VIN beginning with "KMH") produced from December 22, 2016 through December 31, 2016.

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

Parts Information:

PART NAME	PART NUMBER	QTY.	FIGURE
MOTOR ASSY	56330-F2000QQH	1	

Warranty Information:

MODEL	OP CODE	OPERATION	OP TIME	CAUSAL PART NO.	NATURE CODE	CAUSAL CODE
Elantra (AD)	71C021R0	Steering Wheel Column Shaft Motor Replacement	0.7	56330-F2000	I3A	ZZ7

NOTE 1: Submit Claim on Campaign Claim Entry Screen

NOTE 2: If a part is found in need of replacement while performing Recall 161 and the affected part is still under warranty, submit a separate claim using the same Repair Order. If the affected part is out of warranty, submit a Prior Approval Request for goodwill consideration prior to performing the work.

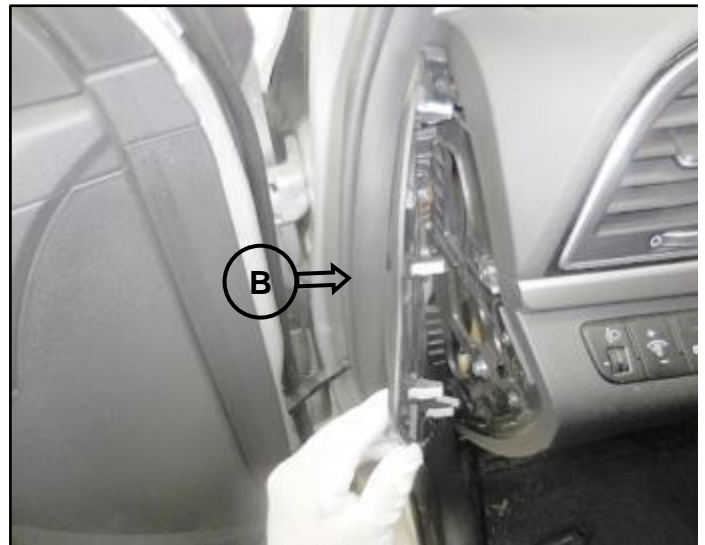
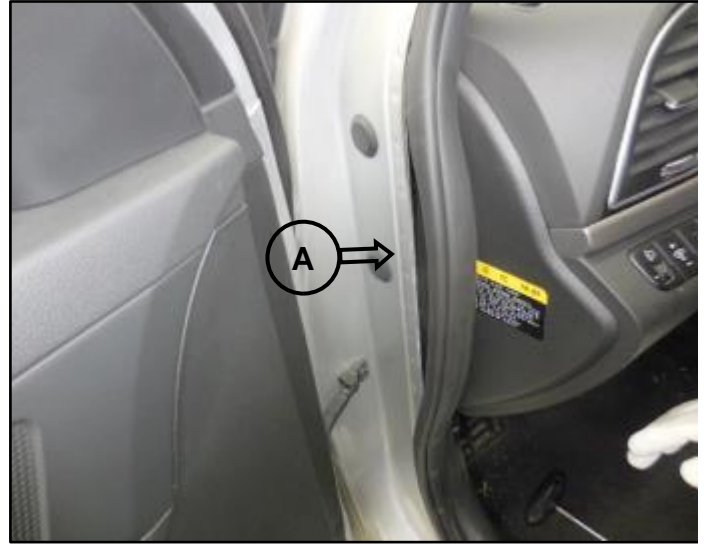
Service Procedure:

1. Move the driver seat to the maximum rearward position.
2. If applicable, record the customer's radio preset stations for AM/FM/XM.
3. Turn the ignition switch OFF and disconnect the battery negative (-) terminal.

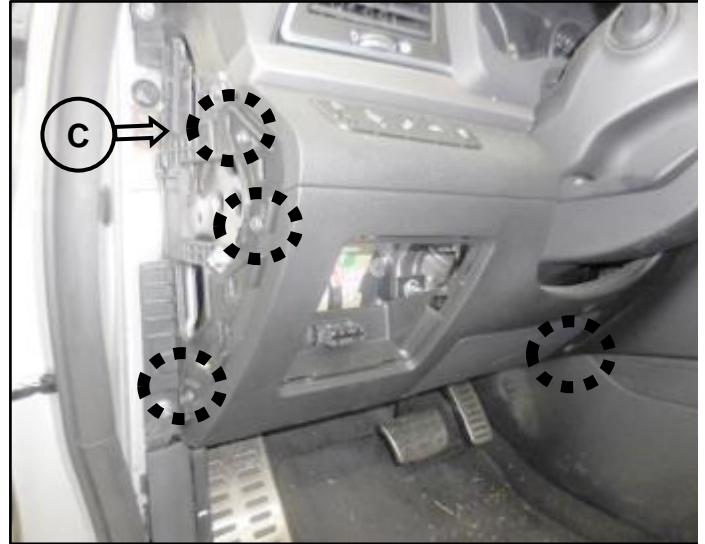
⚠ WARNING

At least three minutes must elapse between disconnecting the battery negative terminal (step 3) and disconnecting the knee airbag (step 13).

4. Remove the weather strip (A).
5. Remove the crash pad side cover (B).

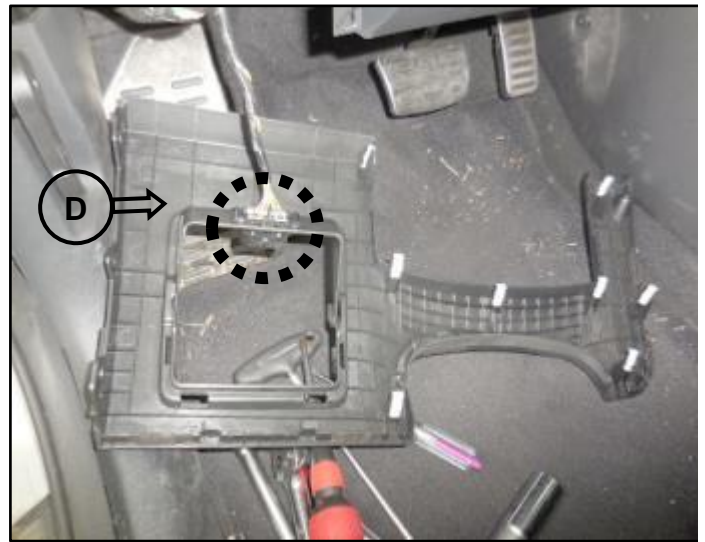


6. Remove diagnostic connector cover and the four crash pad lower panel mounting screws (C).



7. Remove the diagnosis connector (D) by squeezing the two tabs on the connector body and pushing it through the lower panel.

8. Remove the lower panel.



9. Using a plastic trim removal tool, carefully separate the upper steering wheel shroud (E). Use care to avoid scratching the shroud.

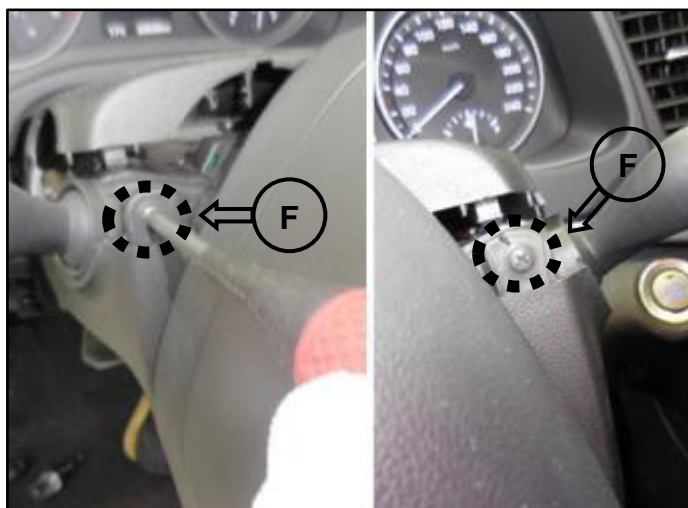


10. Remove the three lower steering wheel shroud mounting screws (F).



NOTICE

For non-smart key equipped vehicles, turn the ignition switch to the "ON" position and move the steering wheel to the right or left in order to access the screws (F).



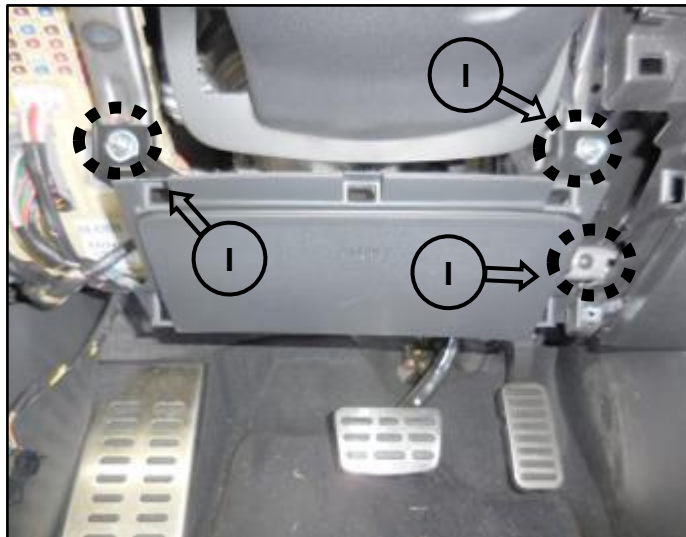
11. Remove the lower steering wheel shroud (H).



12. Remove the three knee airbag mounting nuts (I).

Tightening torque :

7.8 ~11.7 N.m (0.8 ~ 1.2 kgf.m, 5.7 ~ 8.6 lb-ft)



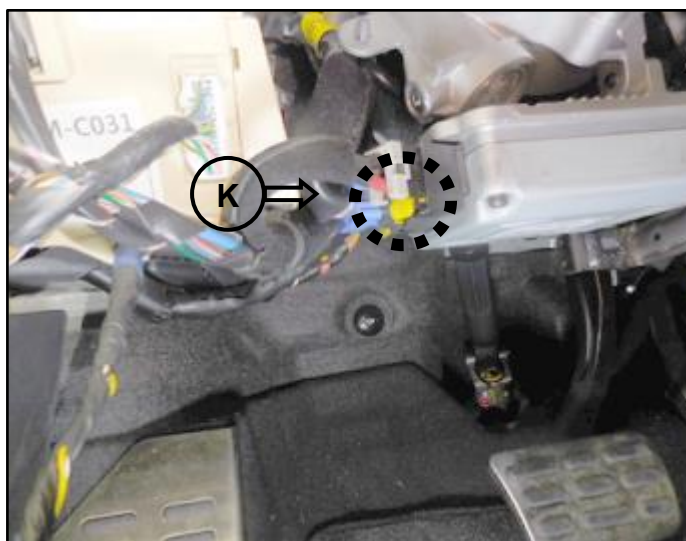
⚠ WARNING

At least three minutes must elapse between disconnecting the battery negative terminal (step 3) and disconnecting the knee airbag (step 13).

13. Disconnect the knee airbag connector (J) and remove the knee airbag.



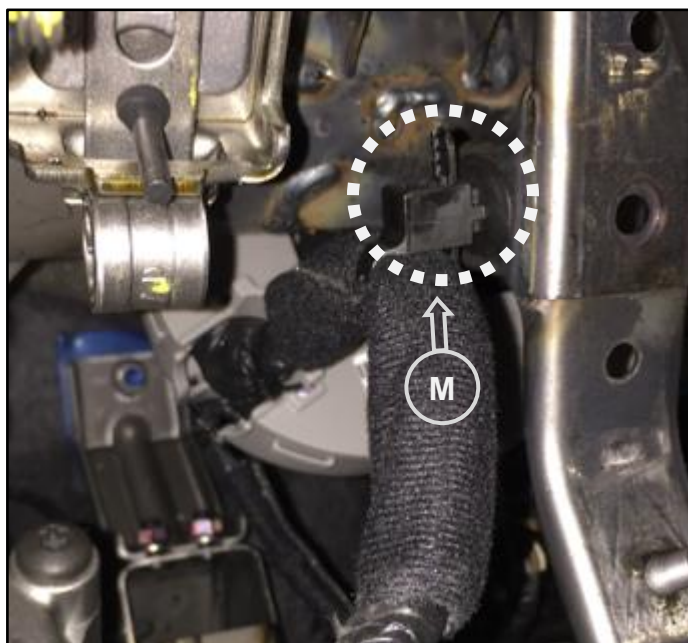
14. Disconnect the ECU left side connector (K) by releasing the yellow connector lock, then squeezing the release tab and pulling the connector outwards.



15. Disconnect the ECU right side connector (L) by releasing the blue connector lock, then squeezing the release tab and pulling the connector outwards.

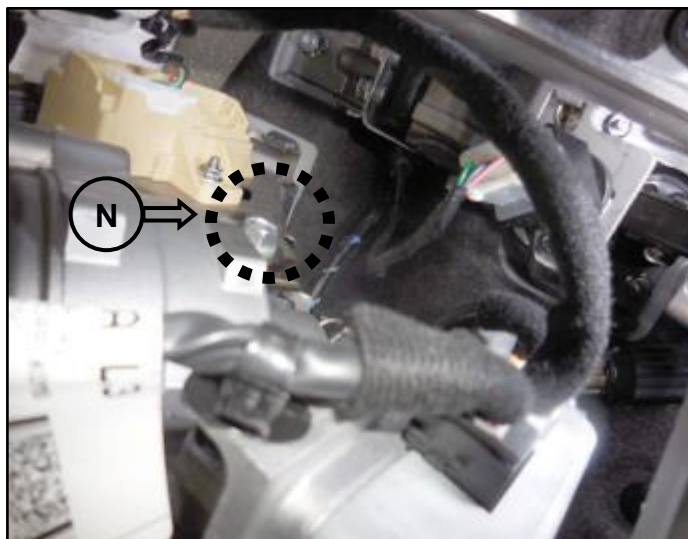


16. Disconnect the clock spring wire harness retainer clip from the lower dash support (M).



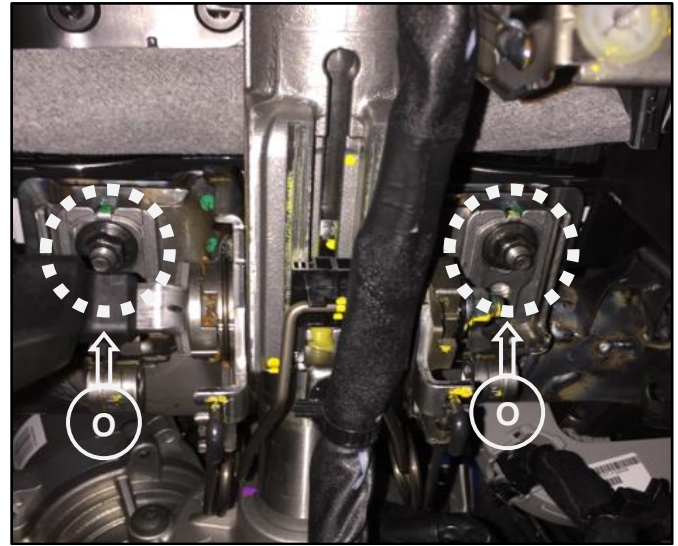
17. Remove the steering column shaft lower mounting bolt (N).

Tightening torque :
53.9 ~58.8 N.m(5.5 ~ 6.0 kgf.m, 39.7 ~ 43.3 lb-ft)

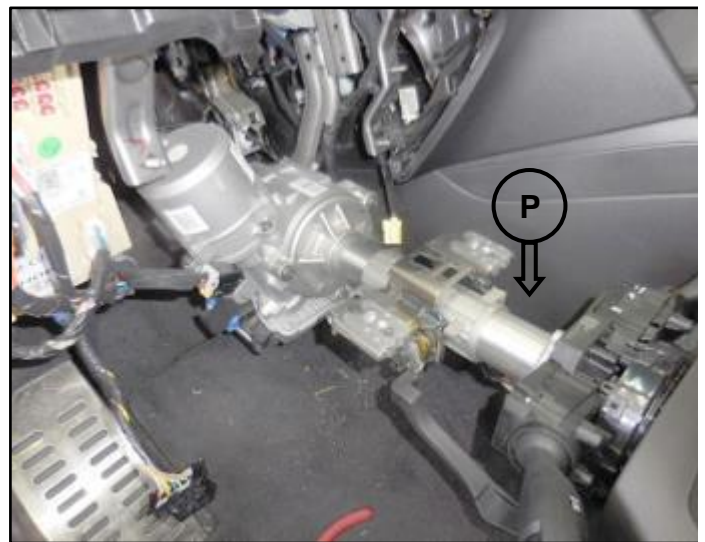


18. Remove the two steering column shaft upper mounting nuts (O).

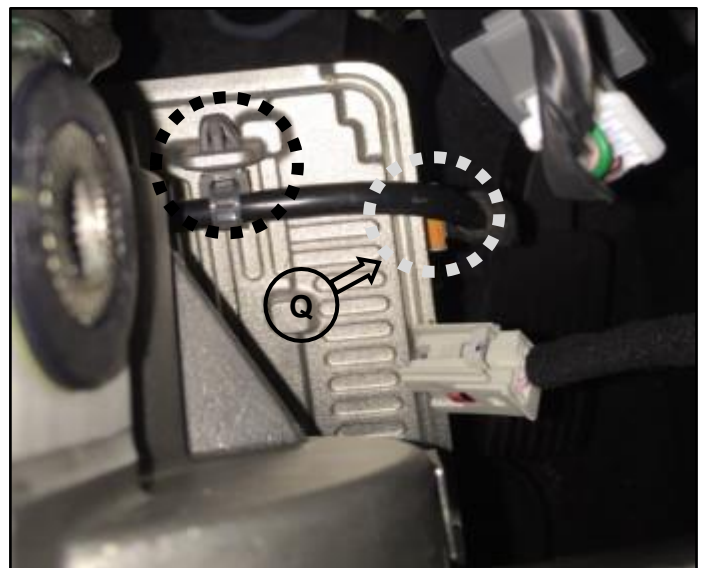
Tightening torque :
24.5 ~29.4 N.m(2.5 ~3.0 kgf.m, 18.0 ~21.6 lb-ft)



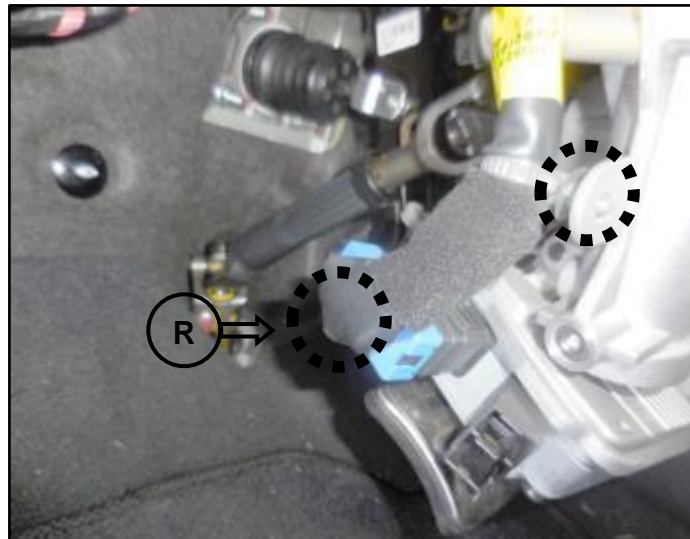
19. Lower the steering column shaft (P) and rest it on the floor.



20. Disconnect the ECU right side connector (Q) by releasing the orange connector lock, then squeezing the release tab and pulling the connector outwards. Disconnect the wire harness retainer clip.



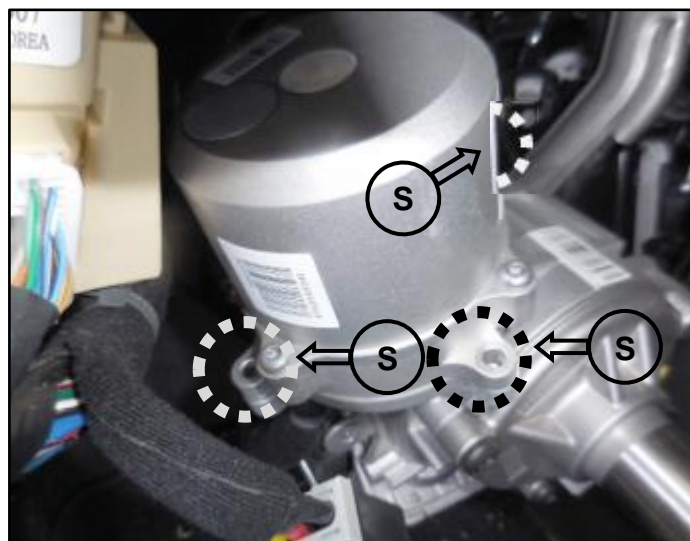
21. Disconnect the MDPS ECU motor connector (R) by releasing the yellow connector lock, then squeezing the release tab and pulling the connector outwards. Disconnect the wire harness retainer clip.



22. Remove the lower three motor mounting bolts (S).

Tightening torque :

7.8 ~11.8 N.m (0.8 ~1.2 kgf.m, 5.7 ~8.6 lb-ft)



23. Remove the motor (T).

24. Install the new motor.

25. Reinstall the parts in reverse order of removal.

26. Check proper steering operation. Confirm "EPS" indicator lamp is not illuminated and clear any incidental DTCs.

