	GROUP	NUMBER
HYUNDAI NEW THINKING. NEW POSSIBILITIES.	Chassis	14-SS-001
Technical Service Bulletin	DATE	MODEL(S)
reclinical Service Bulletin	JANUARY 2014	Sonata (YF)
SUBJECT: YF SONATA MDPS COUPLING REPLACEMENT		

Description: This bulletin describes the procedure to replace the flexible rubber coupling in the MDPS (motor driven power steering) assembly to address a minor clicking noise when turning the steering wheel in some Sonata (YF) vehicles.



Applicable Vehicles: Sonata (YF) vehicles produced from SOP to 12/11/2013

Parts Information:

PART NAME	PART NUMBER	QTY
Flexible Coupling	56315-2K000-FFF	1

Warranty Information:

Model	Op Code	Operation	Op Time	Causal Part #	Nature Code	Cause Code
YF	56315F00	Replace MDPS flexible coupling	1.5 M/H	56315- 2K000-FFF	N29	C06

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

YF SONATA MDPS COUPLING REPLACEMENT

Service Procedure:

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1.

Remove MDPS assembly from the vehicle (refer to shop manual for removal procedure).

***** NOTE

Carefully align the steering wheel to the center position, with the front wheels pointing straight ahead before removing MDPS assembly.

When re-installing MDPS assembly, make sure the steering wheel is aligned to the center position, and that the front wheels are still pointing straight ahead.



2. Loosen the 3 bolts (A) to remove the MDPS motor using a T25 socket, or similar tool.



3. Remove rubber coupler (B).

Use an air gun or brush to remove all debris around the coupling seating areas (C).

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4. Install new flexible coupler (D) into MDPS assembly. Verify that the coupling is correctly seated.



5. Install the motor back onto the assembly and re-install the MDPS assembly into the vehicle in the reverse order of removal.

(Tightening torque MDPS motor bolts: 7.84~11.76 Nm or 0.8~1.2kgf)





 Connect GDS VCI to DLC connector. Connect VCI to GDS using USB cable. Turn the ignition ON and verify that all electrical systems turn off (no electrical load). Select model and EPS (Electric Power Steering) system, then press "OK" button on the screen.



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7. Select "Option Treatment" under the Vehicle S/W Management tab.o



8. Select "ASP Calibration."



9. Press "OK" to continue with ASP calibration.

8 5 ² 3 6 ¹ 6 ¹	P Calibration] Is function is used for initialing ASP Calibration. Perform this tion when you replace EPS ECU or do work related to EPS. rou're ready, press [O4] button.	0

YF SONATA MDPS COUPLING REPLACEMENT

10. Center the steering wheel with the ignition ON and engine idling, then press "OK."



11. Turn the ignition OFF and wait for 15 seconds. Then turn the ignition ON and press "OK."



12. Under Current Data, verify that the Steering Angle Sensor value is at: 0.0 ± 5.0 degrees

Selective Display ‡ 📔 Full List 💠 🗍 Graph 💠 Items List ‡ Reset Min.Max Record 🛛 Stop ‡ Grouping VSS				
Sensor Name	Value	Unit		
Battery Voltage	11.89	V		
Steering Wheel Torque	0	Nm		
Steering Angle Sensor	0.0			
Calibrated Steering Angle Sensor Offset	0	•		
Steering Wheel Velocity	2	degree/s		
Motor Current	0	Α		
Target Motor Current	0	Α		
Target Motor Torque	0	Nm		
ECU Temperature	31	.С		
Motor Temperature	36	'C		
Percentage Of Derating	0	%		
Vehicle Speed	0	MPH		
Filtered Vehicle Speed	0	МРН		
Angle Sensor Index Status	DETECT			
Engine Status	STOP			
Calibration Status	CAL.& INITIAL	-		