This bulletin provides information regarding the replacement of the flexible coupling in the Motor Driven Power Steering (MDPS) on some 2011-2014 MY Optima (QF/TF/TFH) vehicles, produced from August 12, 2010 to December 18, 2013. The MDPS unit may experience noise when turning the steering wheel left or right, especially while the vehicle is stopped. Kia’s analysis has identified that this condition occurs mainly in extremely high humidity states adjacent to warm ocean waters due to the wear of the flexible coupling in the MDPS, after extended usage over years. The extremely high humidity states adjacent to warm ocean waters include: Alabama, Florida, Georgia, Hawaii, Louisiana, Mississippi, North Carolina, South Carolina, and Texas.

For vehicles sold or currently registered in extremely high humidity states adjacent to warm ocean waters, replace the flexible coupling with a new one if it has not been previously replaced under warranty. Before conducting the procedure, verify that the vehicle is included in the list of the affected VINs.

For vehicles sold or registered in all other states, Kia is extending the warranty on the flexible coupling in the MDPS from 5 years/60,000 miles to 10 years/unlimited mileage, starting from the date of first service in order to ensure customer satisfaction. If the MDPS unit experiences noise when turning the steering wheel left or right, replace the affected flexible coupling with a new one.
Service Procedure:

1. Remove the crash pad lower panel (A) by referring to “Body (Interior and Exterior) → Interior → Crash Pad → Repair procedures” on KGIS.

2. Loosen three (3) steering column shroud retaining screws (B) and then remove the steering column upper and lower shrouds.

   ★ NOTICE

   When loosening the steering wheel column shroud retaining screws, turn the steering wheel 90° to the left/right from aligned position.

3. Disconnect the MDPS electrical connectors (C).

   ★ NOTICE

   To assure complete customer satisfaction, always remember to refer to WebDCS Warranty Coverage (validation) Inquiry Screen (Service → Warranty Coverage → Warranty Coverage Inquiry) for a list of any additional campaigns that may need to be performed on the vehicle before returning it to the customer.
4. Disconnect the multifunction switch, wiper and washer switch, airbag, and heated steering wheel electrical connectors.

5. Loosen both steering column retaining bolts (D) and both nuts (E) and lower the steering column assembly.

   **Tightening torque:**
   9.4~13.0 lb-ft (12.7~17.7 Nm)
6. Loosen the three MDPS motor retaining bolts (F) and lift the MDPS motor and set it to the side.

Tightening torque:
5.8~8.7 lb-ft (7.8~11.8 N-m)

7. Remove the flexible coupling (G) from the housing. In addition, use an air gun to remove any foreign matter from the motor and/or the housing.
8. Install the new improved flexible coupling onto the steering column.

**NOTICE**

Before installing the new part, make sure it has “HNBR” embossed on the surface.

The position of the flexible coupling is not specific and can be installed facing upward or downward.

9. Reassemble all other components, confirm MDPS operation and test all multi function switch functions for proper operation.

**REQUIRED PART:**

<table>
<thead>
<tr>
<th>Part Name</th>
<th>Part No.</th>
<th>Qty</th>
<th>Figure</th>
<th>Comments</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flexible Coupling</td>
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<td>1</td>
<td><img src="image1.png" alt="Image" /></td>
<td>New improved flexible coupling has “HNBR” embossed on it</td>
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**AFFECTED VEHICLE PRODUCTION RANGE:**

<table>
<thead>
<tr>
<th>Model</th>
<th>Production Date Range</th>
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<tbody>
<tr>
<td>Optima (QF/TF/TFH)</td>
<td>From August 12, 2010 to December 18, 2013</td>
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SUBJECT: MDPS FLEXIBLE COUPLING REPLACEMENT (CS1604)

WARRANTY INFORMATION FOR CS1604:

N CODE = N99  C CODE = C99

<table>
<thead>
<tr>
<th>Model</th>
<th>Claim Type</th>
<th>Causal P/N</th>
<th>Qty.</th>
<th>Repair Description</th>
<th>Labor Op Code</th>
<th>Op Time</th>
<th>Replacement P/N</th>
<th>Qty.</th>
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</thead>
<tbody>
<tr>
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<td>V</td>
<td>56310 2T301</td>
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<td>Flexible Coupling Replacement</td>
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<td>Optima (TF) KMC Built</td>
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<td>Flexible Coupling Replacement</td>
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<tr>
<td>Optima(TF/TFH) KMC Built</td>
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<td>56310 4U100</td>
<td>0</td>
<td>Flexible Coupling Replacement</td>
<td>160081R0</td>
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WARRANTY INFORMATION FOR ANY REPAIRS TO AFFECTED VEHICLES NOT INCLUDED IN CS1604:

N CODE= D61 C CODE= ZZ4

<table>
<thead>
<tr>
<th>Model</th>
<th>Claim Type</th>
<th>Causal P/N</th>
<th>Qty.</th>
<th>Repair Description</th>
<th>Labor Op Code</th>
<th>Op Time</th>
<th>Replacement P/N</th>
<th>Qty.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optima (QF/TF/TFH)</td>
<td>W</td>
<td>56315 2K000FFF</td>
<td>1</td>
<td>Flexible Coupling Replacement</td>
<td>56315F02</td>
<td>0.8</td>
<td>N/A</td>
<td>0</td>
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</tbody>
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★ NOTICE
The repair procedure to replace the flexible coupling of the MDPS on 2011-2014 MY Optima (QF/TF/TFH) has been modified from the original repair procedure outlined in KGIS and previously in TSB CHA 044 (removal of certain parts as currently shown in the service procedure on KGIS is not necessary to complete the replacement of the flexible coupling). As a result, the labor time for this repair has been adjusted to 0.8 M/H (including inspection).

★ NOTICE
To assure complete customer satisfaction, always remember to refer to WebDCS Warranty Coverage (validation) Inquiry Screen (Service → Warranty Coverage → Warranty Coverage Inquiry) for a list of any additional campaigns that may need to be performed on the vehicle before returning it to the customer.