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|----------------------|---|
| GROUP CHA | MODEL 2012MY Optima (TF/QF) 2011-2012MY Optima (TF HEV) |
| NUMBER 040 | DATE August 2013 |

TECHNICAL SERVICE BULLETIN

SUBJECT: SERVICE ACTION: REAR LOWER CONTROL ARM
REPLACEMENT PROCEDURE (SA150)

This bulletin provides the procedure for replacing both rear lower control arms on some Optima (TF), Optima (QF) and Optima Hybrid (TF HEV) vehicles produced from February 15, 2011 through April 5, 2012, that are in states where heavy amounts of road salt are used for de-icing in the winter months (see table below for applicable production date ranges). Resulting corrosion will cause a knocking or clunking noise from the lower control arm which will be heard by the occupants. The 21 states which are known to use heavy amounts of road salt are: CT, DC, DE, IA, IL, IN, MA, MD, ME, MI, MN, MO, NH, NJ, NY, OH, PA, RI, VT, WI and WV. Before conducting the procedure, verify the vehicle is included in the list of affected VINs.

AFFECTED MODELS:

| Model | Production Date Range |
|---------------------------|---|
| Optima (TF) | From February 17, 2012 to April 3, 2012 |
| Optima (QF) | From August 9, 2011 to April 5, 2012 |
| Optima Hybrid (TF Hybrid) | From February 15, 2011 to April 3, 2012 |

★ NOTICE

A Service Action is a repair program without customer notification that is performed during the warranty period. Any dealer requesting to perform this repair outside the warranty period will require DPSM approval.

Repair status for a VIN is provided on WebDCS (Service> Warranty Coverage> Warranty Coverage Inquiry> Campaign Information). Not completed Recall / Service Action reports are available on WebDCS (Consumer Affairs> Not Completed Recall> Recall VIN> Select Report), which includes a list of affected vehicles.

This issue number is SA150.

File Under: <CHASSIS>

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

*** NOTICE**

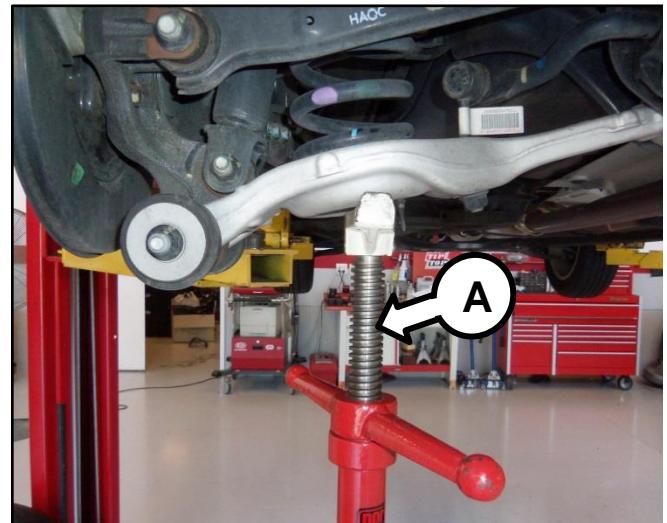
VINs which start with KNA are designated Optima (TF/TF HEV) and built in South Korea. VINs that start with 5XX are designated Optima (QF) and built in the United States.

Service Procedure:

1. Lift the vehicle off the ground.
2. Remove the rear wheels.

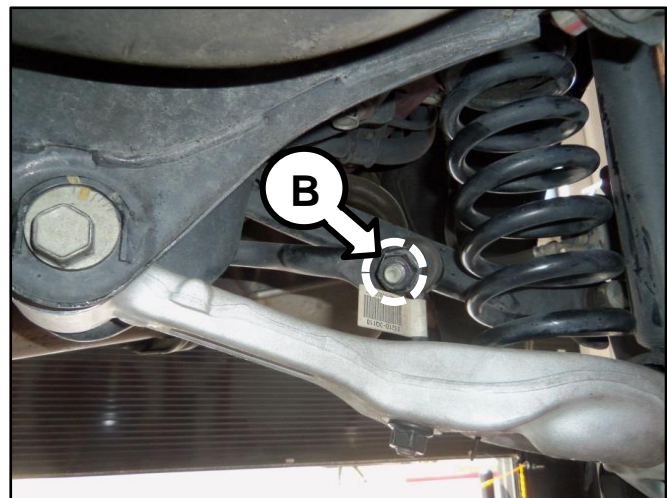
**Lug nut tightening torque:
65.1~79.6 lb-ft (88.3~107.9 Nm)**

3. Place a transmission jack (A) directly below the left side lower control arm, as shown.



4. Remove the sway bar mounting nut (B) and the sway bar joint from the linkage.

**Tightening torque:
72.3~86.8 lb-ft (99~117 Nm)**



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5. Remove the nut (C) securing the lower control arm bolt to the spindle.

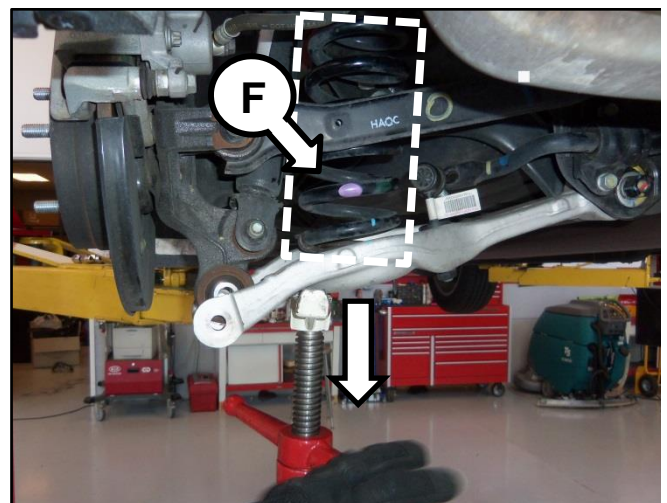
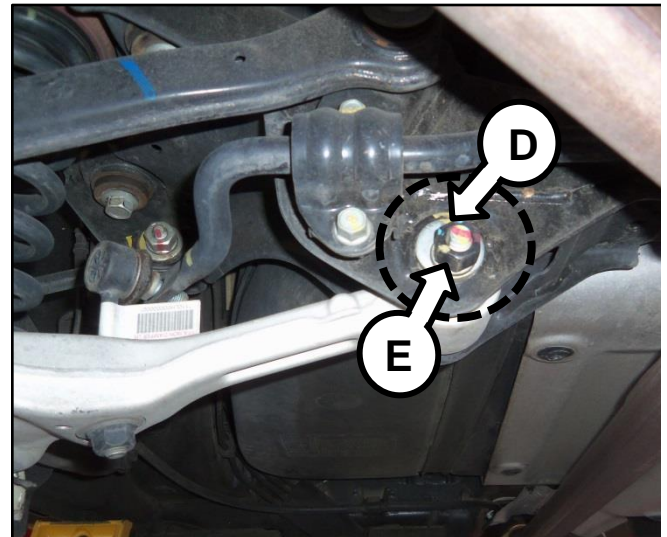
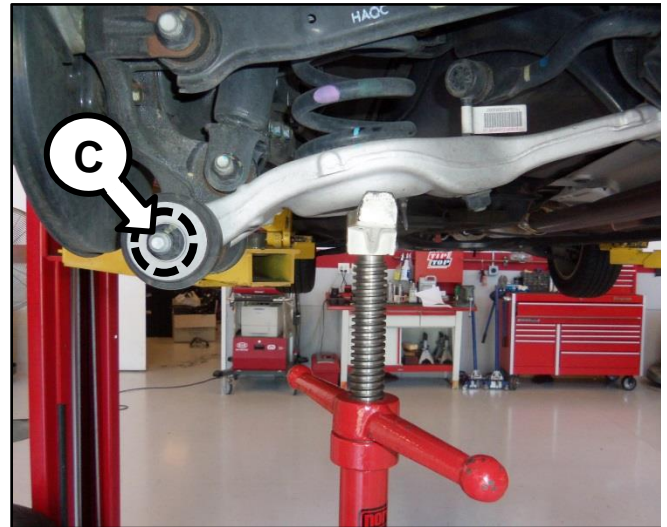
Tightening torque:
101.3~115.7lb-ft (138~156 Nm)

*** NOTICE**

Prior to performing step 6, make an alignment mark (D) on the eccentric washer and the sub-frame, as shown. This will make the rear alignment procedure easier to perform.

6. Remove the mounting nut (E) from the bolt securing the lower control arm to the sub-frame.

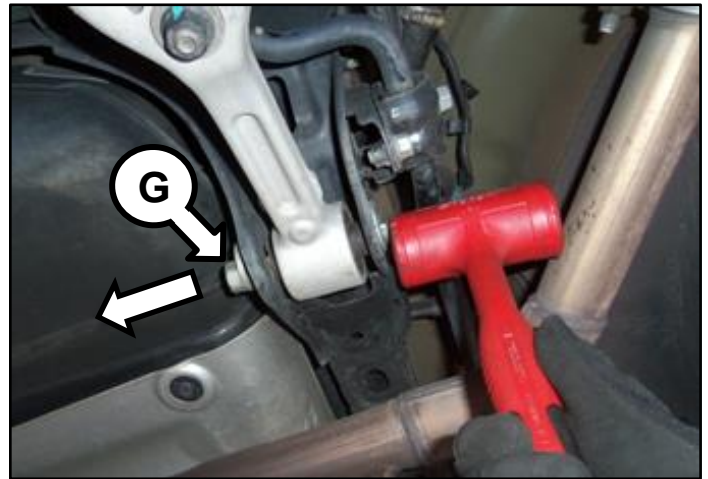
7. Remove the lower control arm bolt from the spindle side and carefully lower the transmission jack to remove the coil spring (F).



SUBJECT:

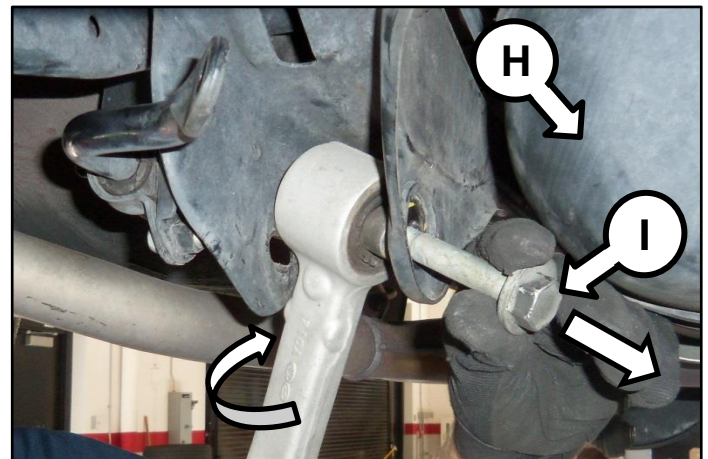
SERVICE ACTION: REAR LOWER CONTROL ARM REPLACEMENT PROCEDURE (SA150)

8. Remove the lower control arm mounting bolt (G) from the sub-frame side.
9. Remove the left lower control arm from the vehicle.



* TIP


On the right side of the vehicle, the fuel tank (H) will interfere with the removal of the sub-frame side lower control arm bolt (I). Slightly twist the lower control arm, as shown, to achieve the required clearance between the bolt and the fuel tank.



10. Remove the right side lower control arm by following the steps above.
11. Reinstall all components by reversing the order of removal.
12. Perform a four wheel alignment and test drive the vehicle to confirm proper operation.

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REQUIRED PART:

| Part Name | Part No. | Figure | Comments |
|--------------------|----------------|--|---|
| Rear Lower Arm Kit | 55277 3Q888QQK |  | 1 KIT includes both rear lower control arms. (LH, RH) |

AFFECTED VEHICLE PRODUCTION RANGE:

| Model | Production Date Range |
|---------------------------|---|
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SERVICE ACTION WARRANTY INFORMATION:

| Claim Type | Causal P/N | Qty. | N Code | C Code | Repair Description | Labor Op Code | Op Time | Replacement P/N | Qty. |
|------------|-------------|------|--------|--------|---|---------------|---------|-----------------|------|
| V | 55220 3Q110 | 0 | N59 | C07 | (SA150) Rear lower arm replace (Both) & Align | 130069R0 | 1.8 M/H | 55277 3Q888QQK | 1 |

*** NOTICE**

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference SA150 when accessing the WebDCS system.