



GROUP
ELE

MODEL
2017MY
Sorento (UMa)
Optima (JFa)

NUMBER

131 (Rev 1, 7/21/2017)

DATE

April 2017

TECHNICAL SERVICE BULLETIN

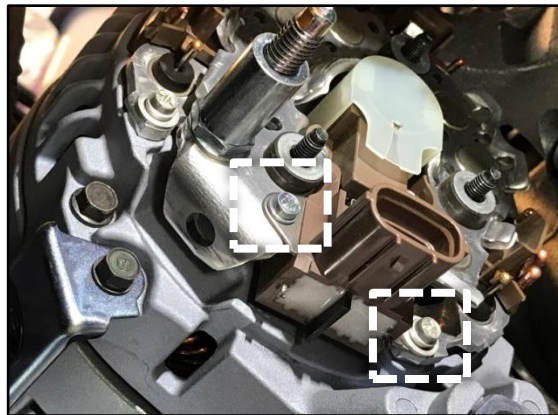
SUBJECT:

SERVICE ACTION: VOLTAGE REGULATOR
PERFORMANCE ENHANCEMENT (SA278)

* NOTICE

This bulletin has been revised to include additional information. New/revised sections of this bulletin are indicated by a black bar in the margin area.

This bulletin provides the procedure to increase the torque on the voltage regulator screws on some 2017MY Sorento (UMa), produced from October 3, 2016 to January 24, 2017, and 2017MY Optima (JFa) vehicles, produced from October 3, 2016 to January 26, 2017, which may experience low battery voltage or a no-start condition. Follow the procedure outlined in this bulletin to increase the two (2) screws' torque on the voltage regulator. Before conducting the procedure, verify that the vehicle is included in the list of affected VINs.



Voltage Regulator Screws

* 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 **SA278**.

File Under: <Electrical>

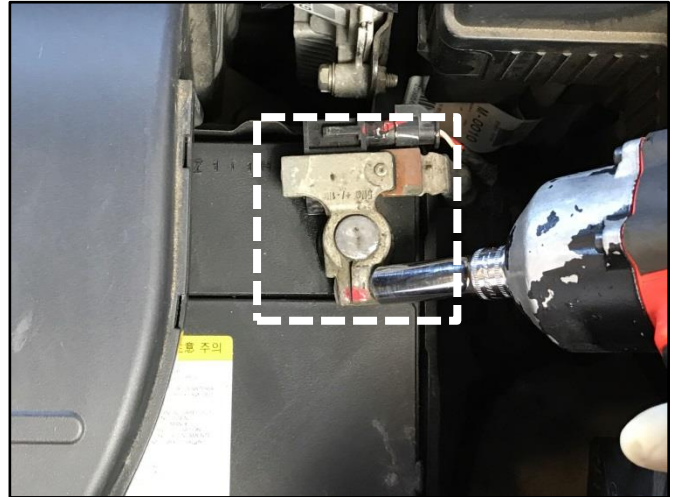
Circulate To: General Manager Service Manager Parts Manager
 Service Advisors Technicians Body Shop Manager Fleet Repair

Service Procedure:

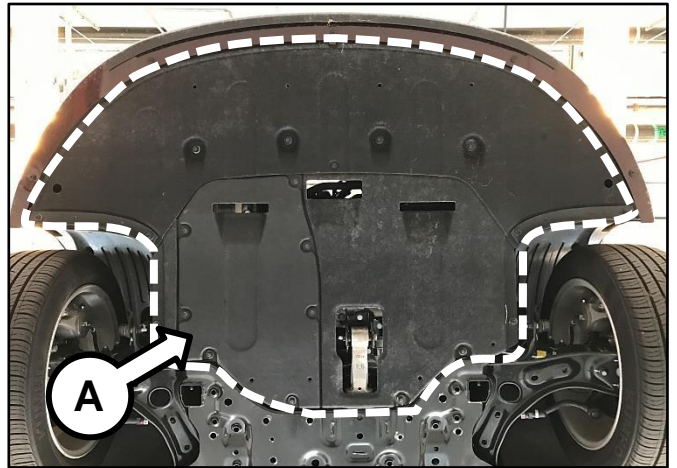
1. Record the customer's radio presets before proceeding to the next step.
2. With the vehicle lowered on a vehicle lift, disconnect the negative (-) battery terminal.

**CAUTION**

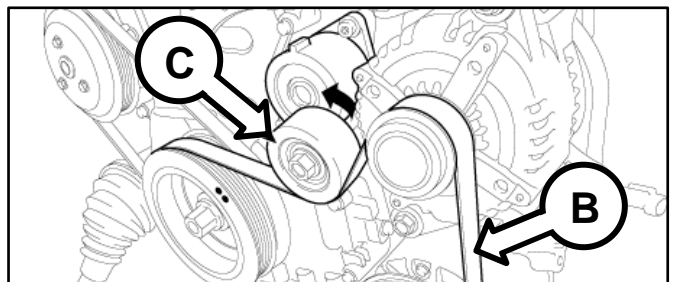
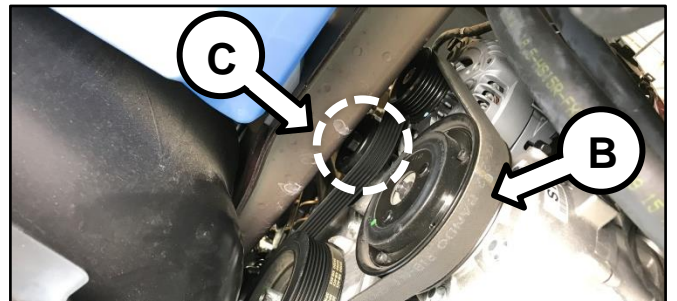
Ensure the negative (-) battery terminal is disconnected to prevent blowing the Main Fuse. Warning indicators may not be present with the fuse blown. The vehicle battery may also deplete and cause a no-start condition. If the Main Fuse is blown after performing this procedure, the Warranty Claim may be subject to chargeback.



3. Raise the vehicle and remove the undercover (A).

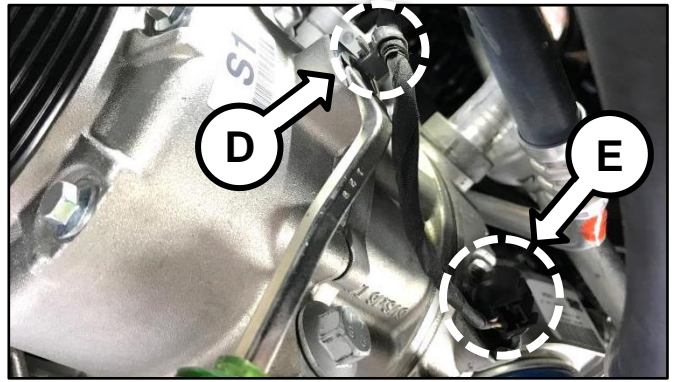


4. Partially remove the drive belt (B) by turning the belt tensioner (C) counterclockwise.

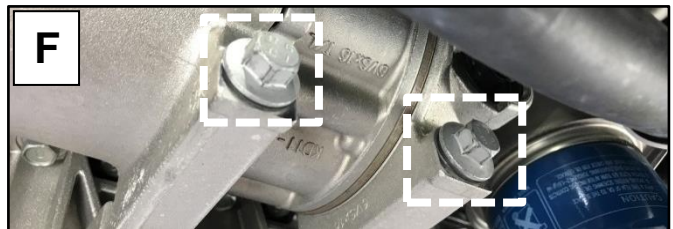
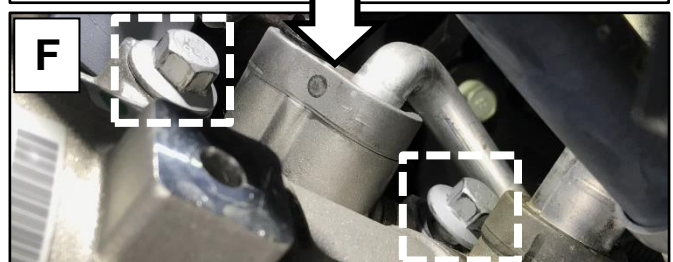
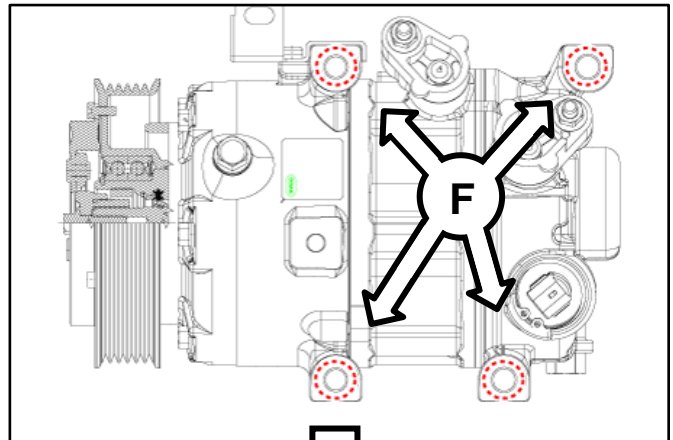


SUBJECT: VOLTAGE REGULATOR PERFORMANCE ENHANCEMENT (SA278)

5. Remove the harness clip (D) from the A/C compressor and disconnect the A/C compressor connector (E).



6. Remove the four (4) compressor retaining bolts (F) and move the compressor to the side.

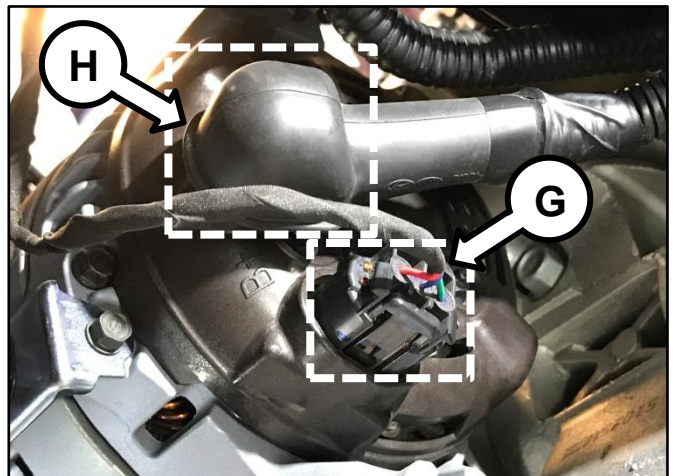


7. Disconnect the alternator connector (G) and remove the "B+" post terminal nut under the terminal cover (H). Move the connector and wire to the side.

Tightening torque for B+ nut:
86.4 – 104.4 lb.in (9.8 – 11.8 Nm, 1.0 – 1.2 kgf.m)

**CAUTION**

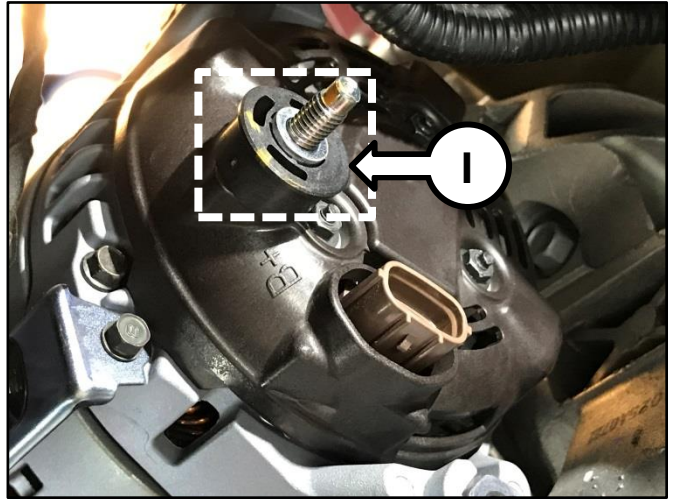
Ensure the negative (-) battery terminal is disconnected to prevent blowing the Main Fuse.



8. Remove the B+ post spacer (I).

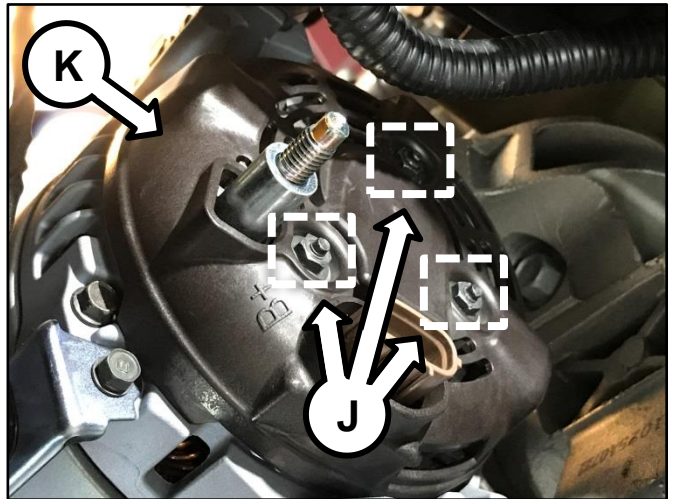
*** NOTICE**

When reinstalling the spacer, ensure it is properly seated.



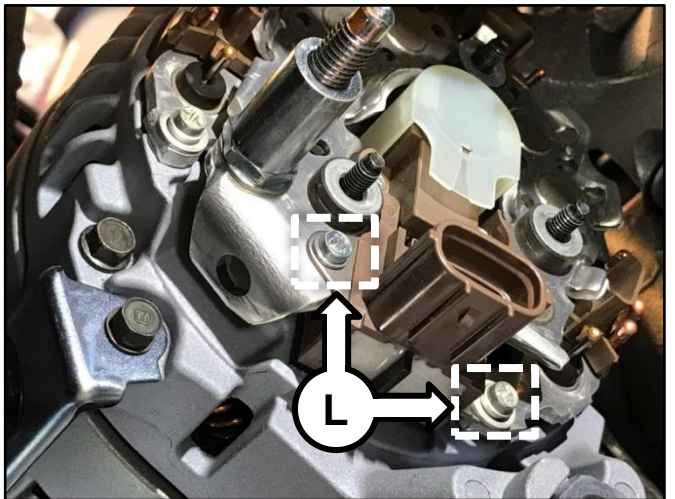
9. Remove the three (3) alternator cover retaining nuts (J) and remove the cover (K).

Tightening torque:
39.5 lb.in (4.4 Nm, 45 kgf.cm)



10. With a torque wrench, tighten the two (2) voltage regulator screws (L) to the specified torque.

Tightening torque:
18.58 lb.in (2.1 Nm, 22 kgf.cm)



11. Reinstall all removed components in the reverse order of removal. Torque all removed nuts and bolts to specifications.
12. Start the engine and turn the headlights on. Connect a DVOM at the positive post of the alternator and chassis ground and confirm charging system voltage is present.
13. Confirm proper operation of the vehicle.
14. Reprogram the customer's radio presets if necessary.

SUBJECT: VOLTAGE REGULATOR PERFORMANCE ENHANCEMENT (SA278)

AFFECTED VEHICLE RANGE:

Model	Production Date Range
Sorento (UMa)	October 3, 2016 to January 24, 2017
Optima (JFa)	October 3, 2016 to January 26, 2017

WARRANTY INFORMATION:

N Code: N99 C Code: C99

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
UMa	V	37300 2G061	0	(SA278) Voltage Regulator Performance Enhancement	170A17R0	0.8 M/H	N/A	0
JFa					170A18R0			

**CAUTION**

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*** NOTICE**

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference SA278 when accessing the WebDCS system.