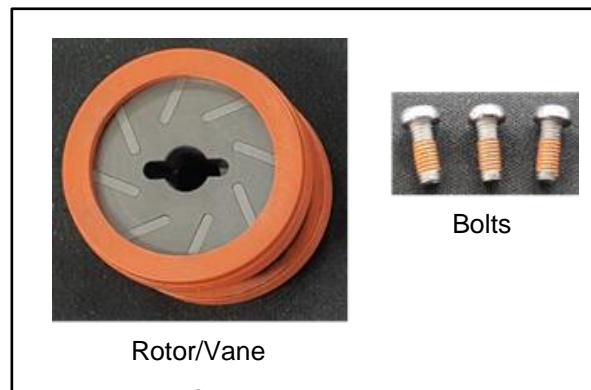
	GROUP Service Campaign	MODEL 2018MY Stinger (CK)
	NUMBER SC204	DATE April 2021
VOLUNTARY SERVICE CAMPAIGN		
SUBJECT: SUPPLEMENTAL VACUUM PUMP INSPECTION AND REPAIR (SC204)		

This bulletin provides the procedure to inspect and replace the rotor and vane in the supplemental brake vacuum pump on some 2018MY Stinger (CK) vehicles produced from September 21, 2017 through April 24, 2018. When the engine has not reached the normal operating temperature, particularly right after being turned on after being parked overnight, repeatedly and quickly applying the brakes can damage the rotor in the supplemental brake vacuum pump. If the rotor is damaged, the Brake Warning Light may illuminate in the instrument panel, and/or the brake pedal may feel hard to press. (Note: This condition does not affect the proper functioning of the brakes while driving.) Before conducting the procedure, verify that the vehicle is included in the list of affected VINs.



Vacuum Pump Rotor/Vane Kit

*** 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.

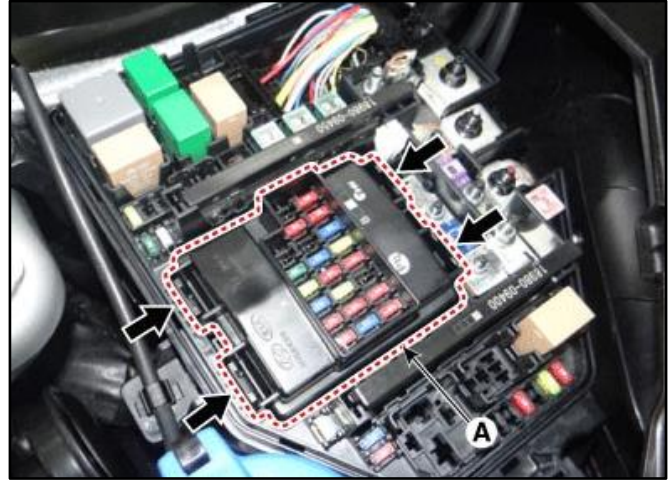
Printed TSB copy is for reference only; information may be updated at any time. Always refer to KGIS for the latest information.

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

Inspection and Repair Procedure:

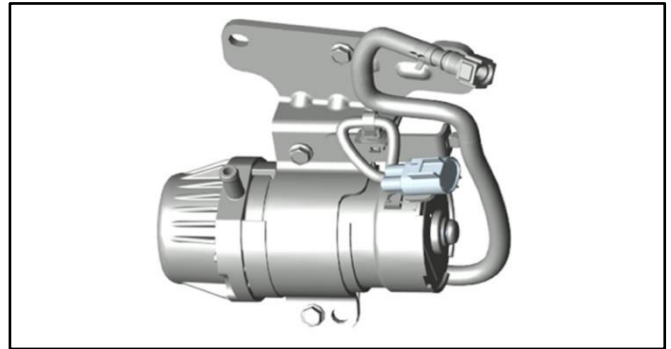
1. Inspect the EVP fuse (20A) in the engine room to ensure it is intact.

If the 20A fuse is blown, replace it.



2. Remove the vacuum pump by referring to the “Brake System → Brake System → Vacuum Pump → Repair procedures” chapter in the applicable Shop Manual on KGIS.

- **Stinger (CK) 3.3L**



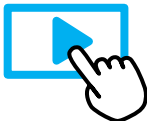
- **Stinger (CK) 2.0L**



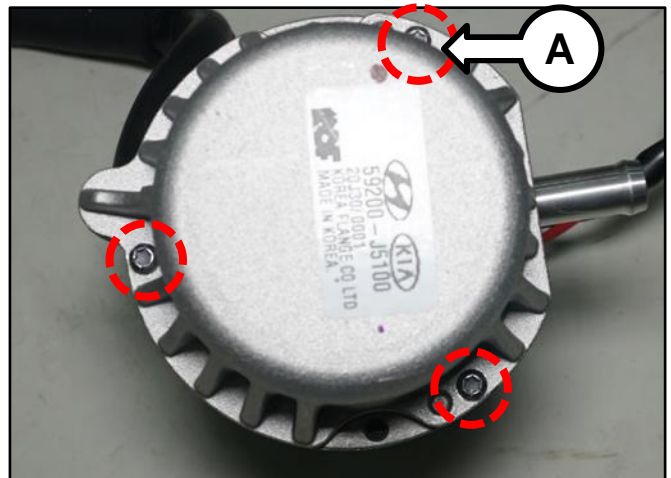
3. Remove the three (3) vacuum pump cover bolts (A).

Torque Specifications:

1.1 – 1.5 lb.ft. (1.5 – 2.0 N.m,
0.15 – 0.20 kgf.m)



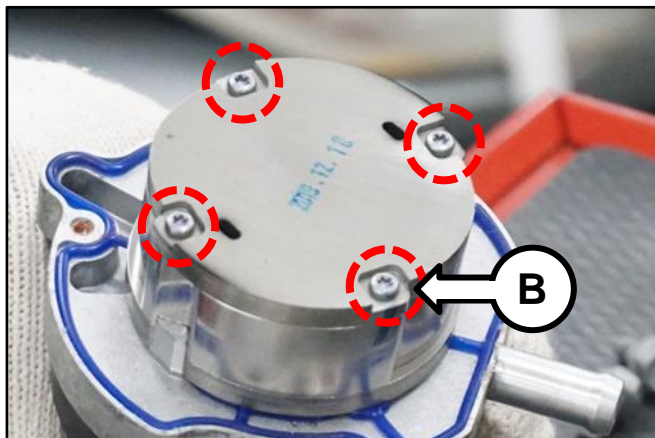
[Reference vacuum pump disassembly and repair video clip for steps 3 - 9.](#)



SUBJECT: SUPPLEMENTAL VACUUM PUMP INSPECTION AND REPAIR (SC204)

4. Remove the four (4) vacuum pump upper plate bolts (B).

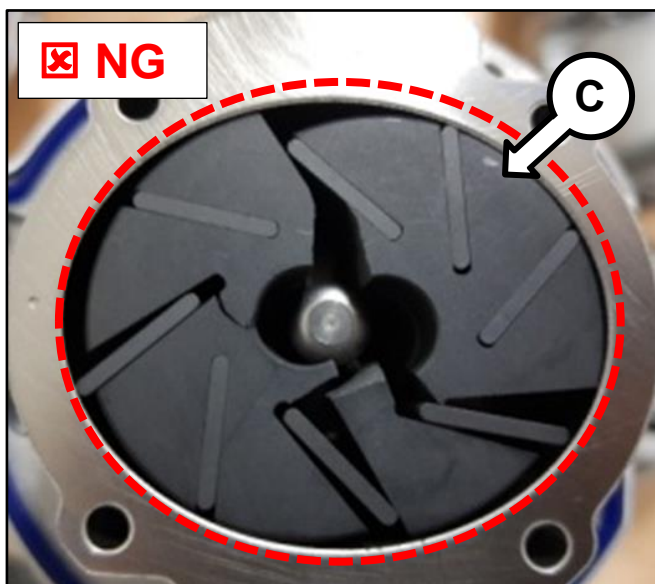
**1.1 – 1.5 lb.ft. (1.5 – 2.0 N.m,
0.15 – 0.20 kgf.m)**



5. Inspect the vacuum pump rotor/vane parts (C) for damage.

Note: Examples of damaged and good parts at right.

For all cases, remove the old parts (damaged or good), and replace with the new rotor/vane parts, according to the following steps.

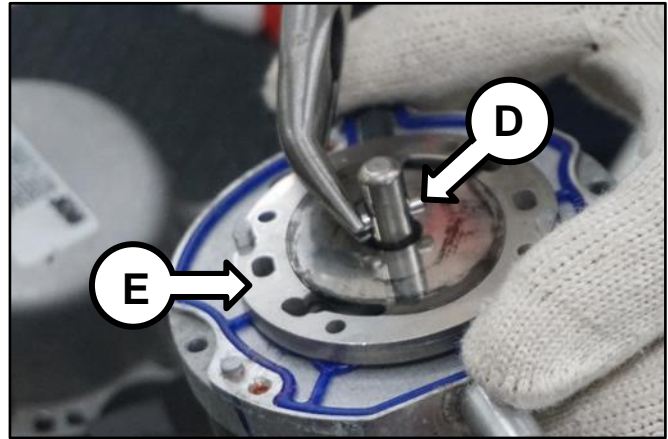


NG: Example of Damaged Rotor/Vane Parts



OK: Example of Good Rotor/Vane Parts

- Using a set of long nose pliers, remove the lock pin (D) to remove the vacuum pump lower plate (E).



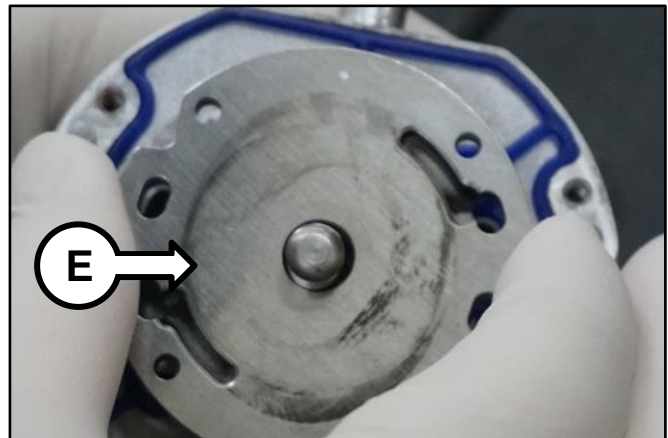
- Blow out the part from dust & foreign substances gently using compressed air gun/nozzle.



[Reference vacuum pump disassembly and repair video clip for steps 3 - 9.](#)



- Be sure to properly align the vacuum pump lower plate (E), then reinstall the lock pin.



- Install the new rotor/vane parts.



SUBJECT: SUPPLEMENTAL VACUUM PUMP INSPECTION AND REPAIR (SC204)

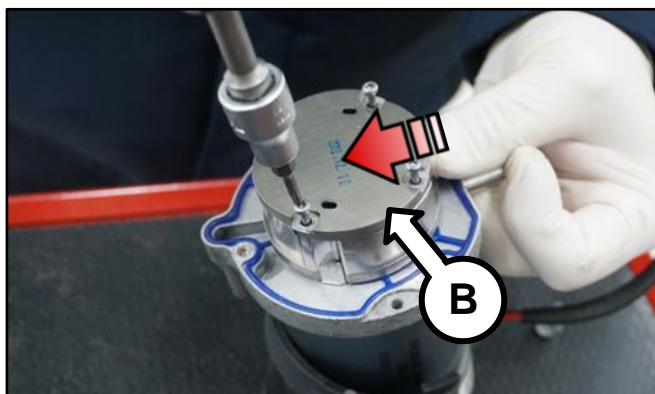
9. Install the vacuum pump upper plate (B) by pushing the plate cover in the direction of the arrow.

Torque the four (4) bolts to specification.

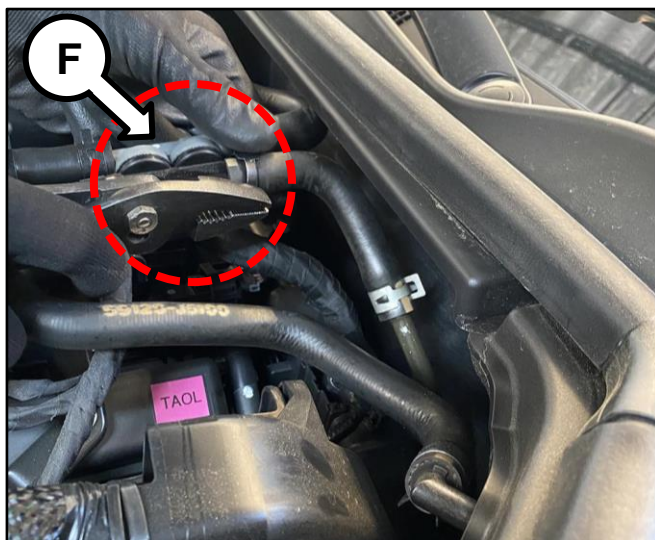
Torque Specifications:

1.1-1.5 lb.ft.

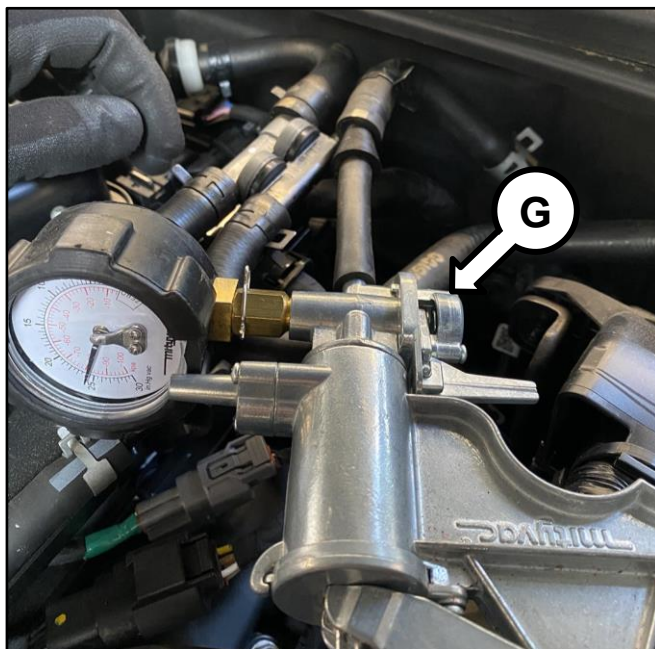
(1.5-2.0 N.m, 0.15-0.20 kgf.m)



10. Re-install the vacuum pump in the reverse order of removal and conduct a vacuum test following steps 11-12 below.
11. Disconnect the brake vacuum hose from the intensifier (F).



12. Install the vacuum gauge (G).



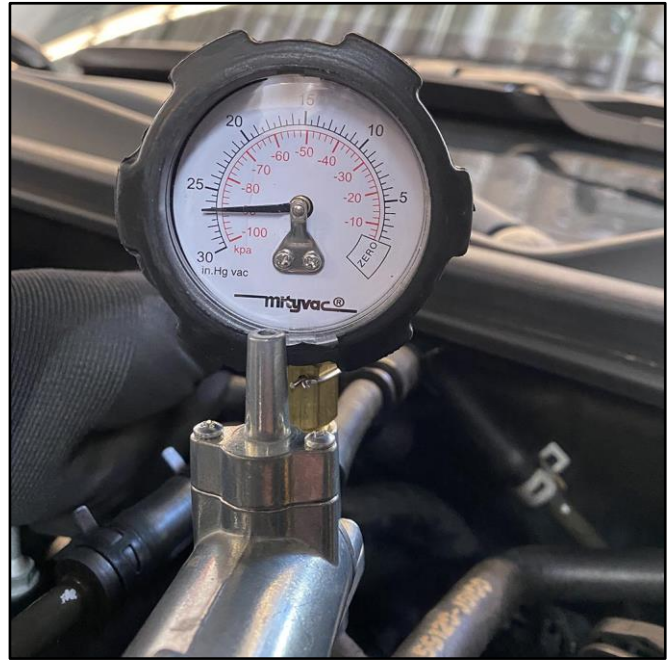
SUBJECT: SUPPLEMENTAL VACUUM PUMP INSPECTION AND REPAIR (SC204)

13. With the engine running, check the pressure reading is within the correct range.

- **OK:** >400mmHg (over 15.65inHg / 0.53bar / 53kPa / 7.69psi)
- **NG:** <400mmHg (under 15.65inHg / 0.53bar / 53kPa / 7.69psi)

Note: If vacuum pump is functioning normally, pressure reading will go over 525mmHg (20.67inHg / 0.7bar / 70kPa / 10.15psi) immediately.

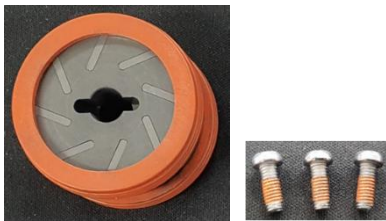
If vacuum level is less than 400mmHg (15.65inHg / 0.53bar / 53kPa / 7.69psi), inspect and repair according to the procedure in this TSB (steps 7 - 9).



SUBJECT: SUPPLEMENTAL VACUUM PUMP INSPECTION AND REPAIR (SC204)**AFFECTED VEHICLE RANGE:**

Model	Production Date Range
Stinger (CK)	September 21, 2017 to April 24, 2018

REQUIRED PART:

Part Name	Part Number	Figure	Qty.
Vacuum Pump Rotor/Vane Kit	59222 J5000QQK	 Rotor/Vane Bolts	1
20A Fuse	18790 05263	N/A	1 (Replace only if blown)

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.
CK 3.3T	R	59220 J5000	0	(SC204) Vacuum Pump Rotor/Vane Kit Replacement and Air Blowing	210027R0	0.8 M/H	59222 J5000QQK	1
CK 2.0T				210027R1	0.6 M/H			

Note: Refer to Warranty Bulletin 2021-09 for claim submission procedures.*** NOTICE**

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference **SC204** when accessing the WebDCS system.

