



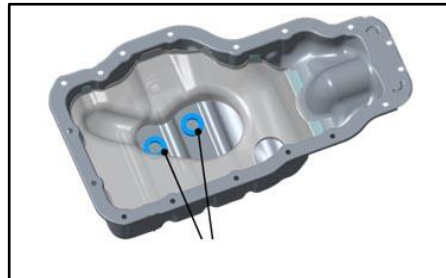
GROUP	MODEL
Safety Recall Campaign	2017-2018MY Forte (YDm)
NUMBER	DATE
SC210	August 2021

SAFETY RECALL CAMPAIGN

SUBJECT:

OIL PAN & OIL FILTER REPLACEMENT FOR 2.0L NU MPI ENGINE (SC210)

This bulletin provides the procedure to replace the engine oil pan on some 2017-2018MY Forte (YDm) vehicles produced from June 5, 2017 through July 24, 2017 with a new one that includes magnets. In addition, the oil filter in these vehicles is also to be replaced. The subject vehicles may exhibit abnormal engine noise, an oil pressure warning lamp and/or MIL on due to the conditions described below. The engine oil pump contains a variable relief plunger that controls oil pressure. Over time, normally occurring foreign particles that are not captured by the oil filter can become stuck in the plunger due to a sharp edge on the plunger, resulting in reduced oil pressure and engine lubrication. If the vehicle is continually operated with this condition, the engine can be damaged and loss of motive power may occur, increasing the risk of a crash. Follow the procedure outlined in this publication to install the new engine oil pan and replace the oil filter with the parts listed in this bulletin. The new engine oil pan includes two (2) magnets to capture any foreign particles in the oil pan to prevent them from becoming stuck on the oil pump plunger. Before conducting the procedure, verify that the vehicle is included in the list of affected VINs.



New Oil Pan Assembly with Magnets

NOTICE

There is no charge to the vehicle owner for this repair. Under applicable law, you may not sell or otherwise deliver any affected vehicle until it has been repaired pursuant to the procedures set forth in this bulletin.

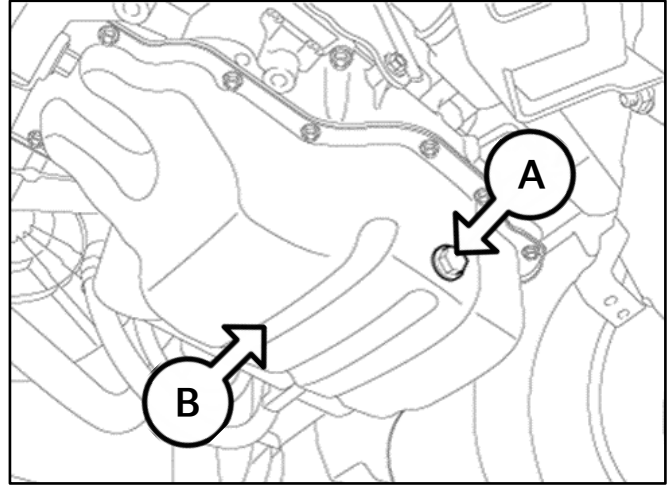
NOTICE

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.

Removal Procedure:

1. Raise vehicle on lift.
2. Remove the engine room under cover by referring to the "Engine Mechanical System → Engine and Transaxle Assembly → Engine Room Under Cover → Repair procedures" in the applicable Shop Manual on KGIS.
3. Remove the engine oil drain plug (A) and drain oil into an oil recycling container. Then remove the engine oil pan (B).

Refer to "Engine Mechanical System → Lubrication System → Oil Pan → Repair Procedures" in the applicable shop manual for more information.



4. Remove and replace the engine oil filter (C).



Tightening torque for oil filter:
104 - 139 lb.in (11.8 - 15.7 N.m)

NOTICE

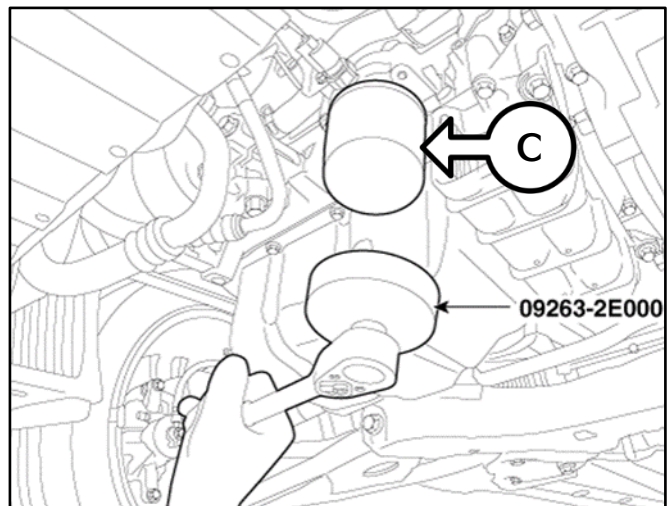
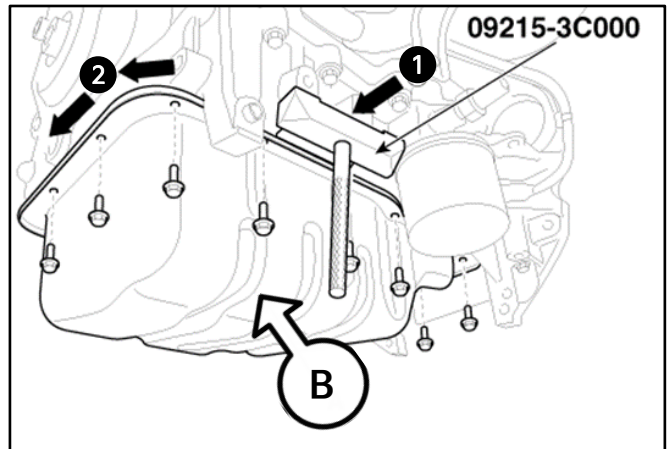
- SST (09263 2E000 or K95U 1001G) to remove the oil filter.
- SST (09215 3C000) to remove the oil pan.

IMPORTANT

Removal of the oil screen outlined on KGIS is NOT required.

CAUTION

- Do **NOT** turn the SST over abruptly without tapping as it can result in damage to the SST.
- Be careful not to damage the contact surfaces of the lower crankcase and the oil pan.



Follow the outline on page 3 to install the new oil pan with magnets.

SUBJECT:

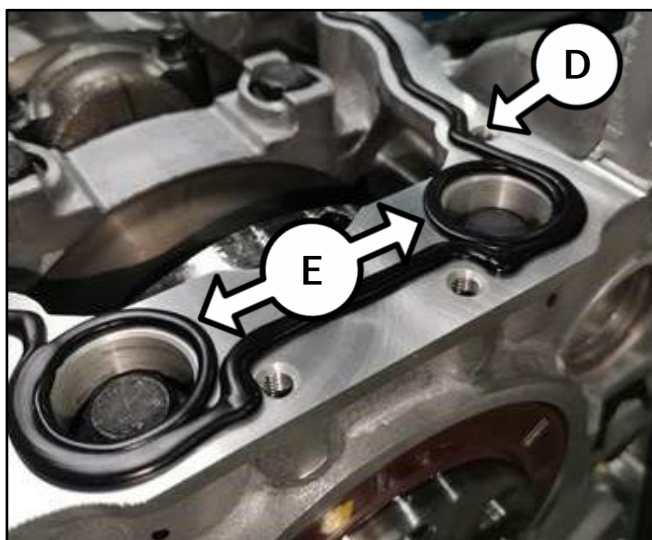
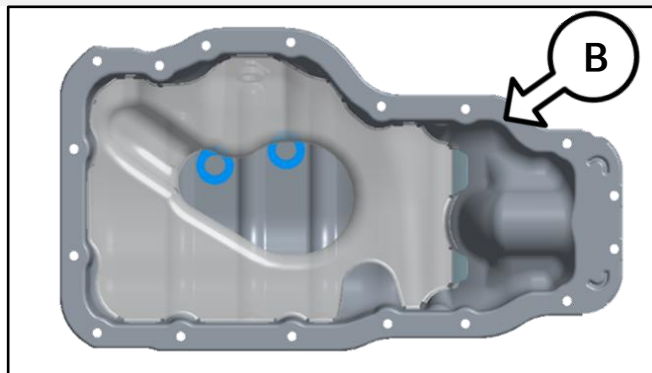
OIL PAN & OIL FILTER REPLACEMENT FOR 2.0L NU MPI ENGINE (SC210)**Installation Procedure:**

- Using a gasket scraper, remove the old sealant from the lower crankcase surfaces.
The sealant locations indicated on the oil pan (B) and the lower crankcase (D) must be free of harmful foreign materials, oil, dust, and moisture. **Ensure the mating surface is oil free prior to applying RTV.**
- Apply RTV Silicone Gasket Maker (UM016 CH123) liquid gasket to the new oil pan 4-5mm wide as shown. A continuous bead of sealant should be applied to prevent any path of oil leakage.
- Apply a 1.5-2.5mm wide strip of silicone to the circular sections (E) as shown.

Bead width of sealant:

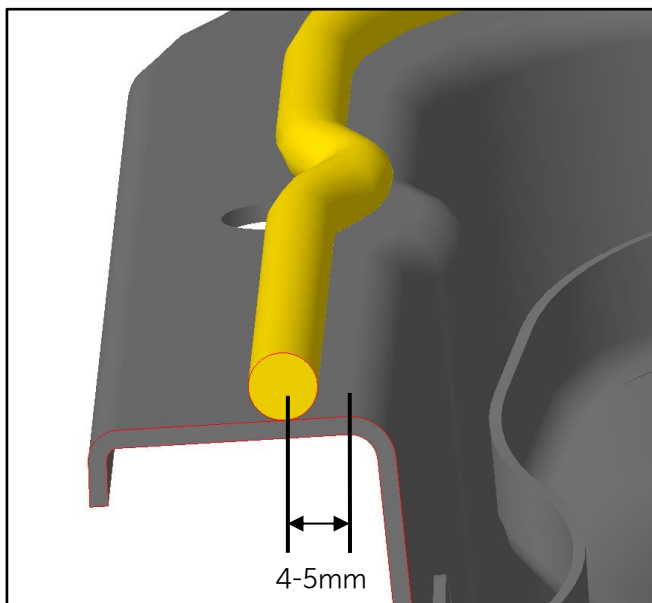
- Section (E): 1.5 - 2.5 mm (0.06 - 0.10 in.)

Note: Photo at right is for reference purposes only.

**ⓘ IMPORTANT**

- When applying sealant gasket, sealant must not protrude into the inside of the oil pan (leave a gap of 4-5 mm between sealant and inside shoulder of oil pan).
- To prevent leakage of oil, apply sealant gasket on the inner threads of the bolt holes.
- If the sealant is applied to the bottom surface of the lower crankcase, it should be the same position as the oil pan.

- After applying liquid sealant on the oil pan, assemble it to the engine block within 5 minutes after sealant was applied, including bolt torque completion in step 5 on the next page.

**Bead Width of Sealant:**

- Whole section: 4.0 - 5.0 mm (0.16 - 0.20 in.)
Sealant: RTV Silicone Gasket Maker (UM016 CH123)

5. Install the new oil pan (B). Uniformly tighten the oil pan retaining bolts in several passes.



Tightening torque for oil pan bolts:
104 - 121 lb.in (11.8 - 13.7 N.m)

6. Confirm the new oil drain plug (A) with gasket is tightened to specification, and lower the vehicle.



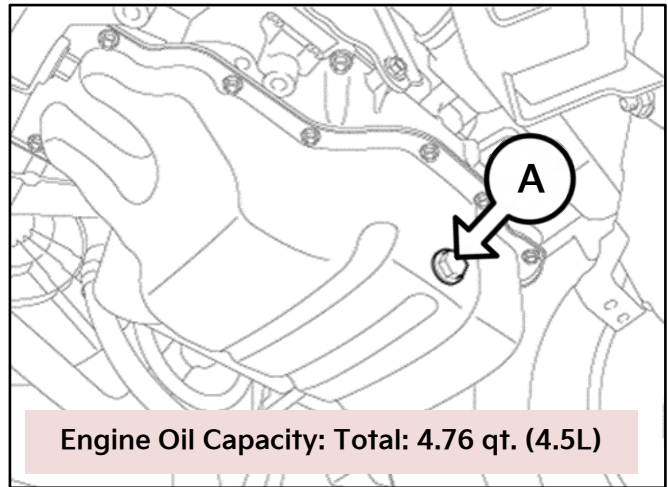
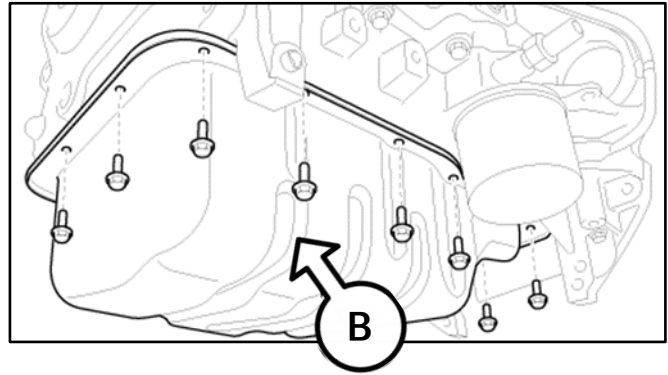
Tightening torque for oil drain plug:
25.3 - 32.5 lb.ft (34.3 - 44.1 N.m)

7. Remove engine oil filler cap, fill engine with recommended engine oil specification, and reinstall engine oil cap.

8. Start the engine and inspect for oil leaks. Ensure the engine oil gauge or light registers pressure and allow vehicle to warm up.

9. After engine is warm, shut off, and wait (5) minutes; then check oil level (level should be between the "L" and "F" marks on the dipstick). If the engine oil is low, check for leaks and inspect. Add oil up to the "F" mark, as necessary.

10. Reinstall under covers, before test driving to confirm no leaks, and proper vehicle operation.





ⓘ IMPORTANT

Do NOT start the engine and do not pressurize the engine within 30 minutes after assembling the oil pan to the engine.



SUBJECT: OIL PAN & OIL FILTER REPLACEMENT FOR 2.0L NU MPI ENGINE (SC210)
AFFECTED VEHICLE RANGE:

Model	Production Date Range
Forte (YDm)	June 5, 2017 to July 24, 2017

REQUIRED TOOL:

Tool Name	Part Number	Figure	Comments
Oil Filter Wrench	09263 2E000 or K95U 1001G		Used for removal and installation of oil filter
Oil Pan Remover	09215 3C000		Used for removal of oil pan. This tool MUST be used to separate oil pan from lower crankcase assembly without damaging sealing surfaces.

REQUIRED PART:

Part Name	Part Number	Figure	Qty.
Oil Pan with Magnets*	21500 2E020QQK		1
Oil Pan Service Kit	21501 2E021QQK		1

***Note:** Oil drain plug and gasket are included with the oil pan.

WARRANTY INFORMATION:

N Code: N99 C Code: C99

Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
R	21510 2E023	0	(SC210) Engine Oil Pan with Magnets & Oil Filter Replacement	211M08R0	1.5 M/H	21500 2E020QQK and 21501 2E021QQK	1

Note: For labor operations that include Oil Pan replacement, use sublet code 'X3' for engine oil reimbursement with a maximum allowed amount of \$35.00; use sublet code 'X1' for RTV Silicone Gasket Maker (UM016 CH123) for a maximum of \$8.00. Refer to Warranty Bulletin 2021-12 for claim submission.

NOTICE

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference **SC210** when accessing the WebDCS system.