



GROUP  
Safety Recall Campaign

MODEL  
2022MY  
Carnival (KA4)

NUMBER  
SC211 (Rev 1, 04/28/2021)

DATE  
April 2021

## SAFETY RECALL CAMPAIGN

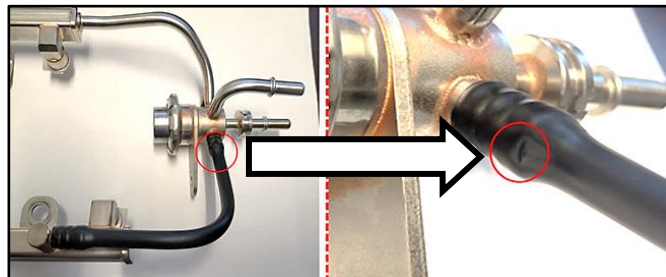
SUBJECT:

**MPI FUEL RAIL LOT INSPECTION  
AND REPLACEMENT (SC211)**

### \* 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 information to check the Lot Number of the MPI fuel rail (also known as the low pressure fuel delivery pipe) on some 2022MY Carnival (KA4) vehicles produced from January 27, 2021 through March 25, 2021. During production at the supplier, the assembly jig for the MPI fuel rail was improperly adjusted which could result in damage to the plastic fuel rail tube. A damaged plastic fuel tube can cause fuel to leak, thus increasing the risk of fire. Follow the procedure outlined in this bulletin to inspect the Lot number and, if required, replace the MPI fuel rail (A). Before conducting the procedure, verify that the vehicle is included in the list of affected VINs.



### \* 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.

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

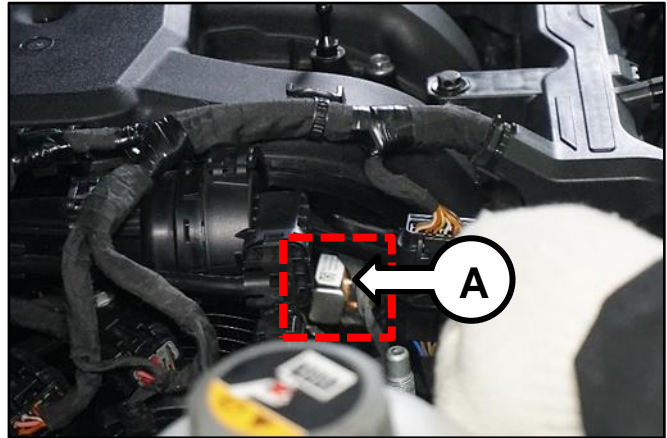
Circulate To:  General Manager  Service Manager  Parts Manager  
 Service Advisors  Technicians  Body Shop Manager  Fleet Repair

**SUBJECT: MPI FUEL RAIL LOT INSPECTION AND REPLACEMENT (SC211)**

**Inspection Procedure:**

1. Open hood and remove the engine cover and locate the low pressure MPI fuel rail Lot decal (A) left side, closest to firewall.

(Refer to image for location area).



2. Using a video scope, check the Lot number of the MPI fuel rail (refer to the sample image/number below).



**1b14131Y = Produced 1/31 (January 31<sup>st</sup>.)**



- 3a. If the 5th through 7th digit value of Lot number **is between 120 and 215**, the MPI fuel rail will need to be replaced. Refer to page 3 for replacement.

- 3b. If the 5th through 7th digit value **is lower than 120 or over 215**, the vehicle does not require MPI fuel rail replacement. No further action is required.

- 3c.

**\* NOTICE**

**REQUIREMENT:** Using the Warranty Claim Attachment feature on KVID, take one (1) clear KVID photo of the label even if the MPI fuel rail does not require replacement.  
**(Attachment Type: 'XX').**

**IMPORTANT**

MPI fuel rails produced **from January 20 through February 15** will need to be replaced.

MPI fuel rails produced **before January 20 or after February 15** does not require replacement.

**\* NOTICE**

If any concerns arise during/after the inspection procedure, open a Techline case online.



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**Replacement Procedure:**

1. Open the junction box cover and remove the fuel pump fuse.
2. Start the vehicle and allow it to idle and wait until the engine stops by itself due to fuel exhaustion in the fuel line.

**\* NOTICE**

**Release of Residual Pressure during the Fuel Delivery Pipe replacement is required.**

- 3a. Remove the surge tank by referring to the "Engine Mechanical System → Intake and Exhaust System → Surge tank → Removal and Installation" chapter in the applicable Shop Manual on KGIS.
- 3b. **DO NOT remove High Pressure Fuel Pipes as they DO NOT need to be removed to replace the MPI Fuel Rail.**

- 4a. Disconnect the low pressure fuel pipe quick connector.
- 4b. Disconnect the fuel feed tube quick-connector using a clip remover tool

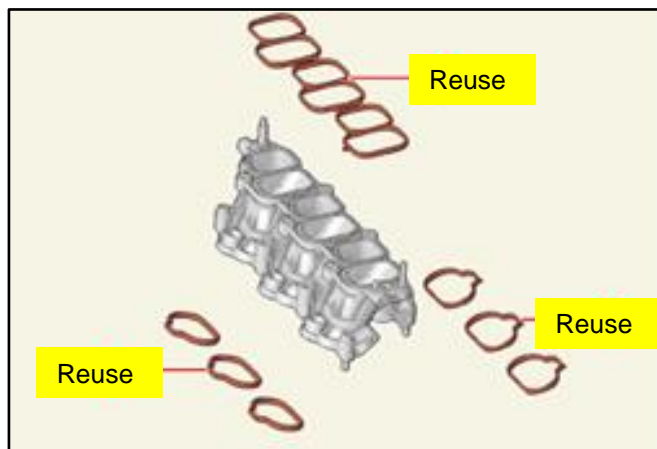
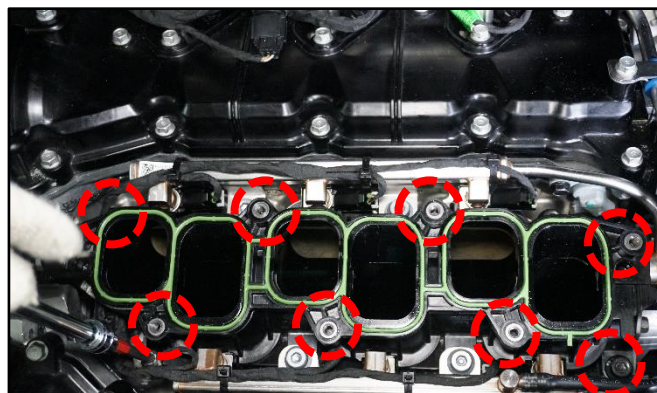
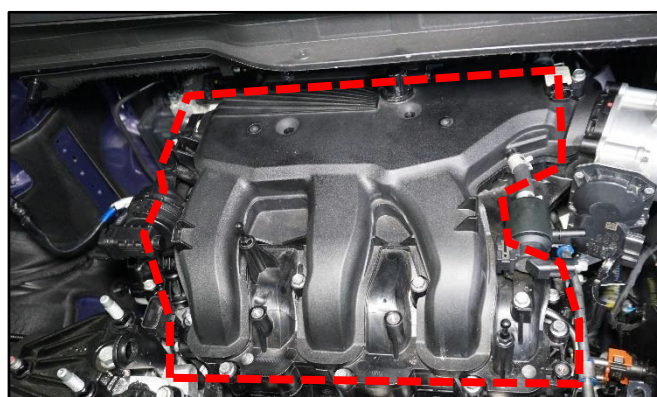
**Note: Block the pipe/connection(s) to prevent contamination).**

- 4c. Remove the eight (8) intake manifold retaining bolts.

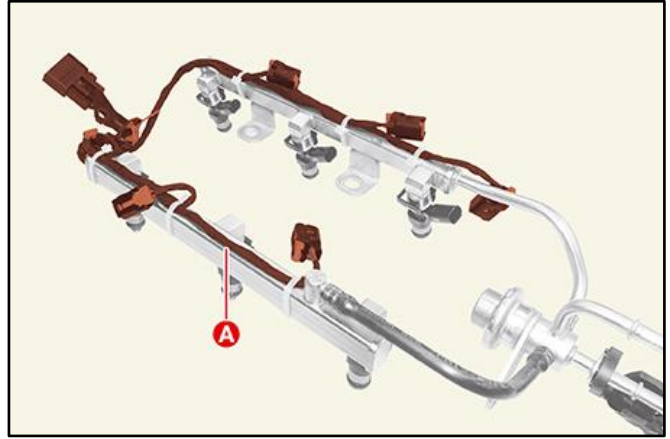
**Torque Specifications:**  
 20.2 - 23.1 lb.ft (27.5 - 31.4 N.m,  
 2.80 - 3.20 kgf.m)

**\* NOTICE**

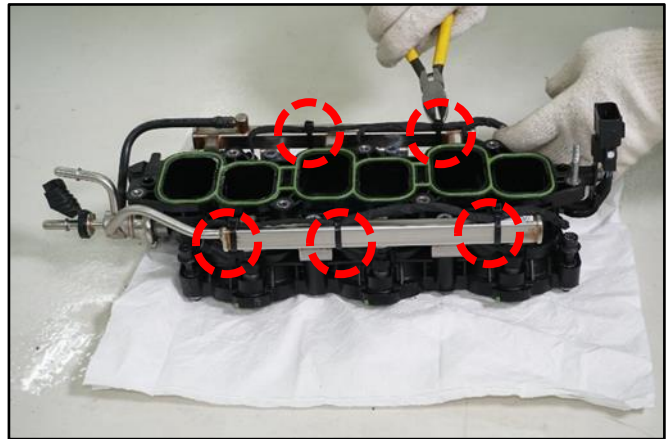
**Reuse the intake manifold gaskets if the vehicle has 5,000 miles or less. Replacement is not required.**



5. Replace the MPI fuel rail (A) using ALL of the additional parts supplied in the kit (ex. O-rings and clips).

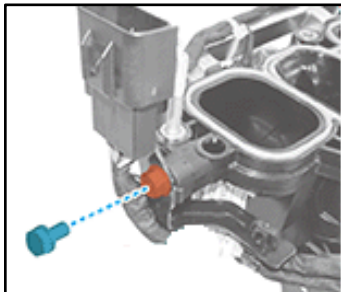


6. Using a set of side cutters, remove the five (5) cable ties shown.



7. Remove the MPI fuel rail & injector assembly from the intake manifold after loosening the mounting bolt.

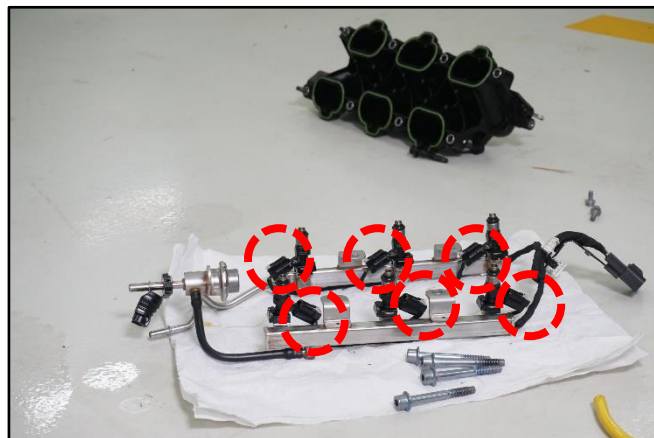
**Torque Specifications:**  
7.2 - 8.7 lb.ft (9.8 - 11.8 N.m,  
1.00 - 1.20 kgf.m)



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## MPI FUEL RAIL LOT INSPECTION AND REPLACEMENT (SC211)

8. Disconnect the injector connectors and remove the injector wiring from the delivery pipe



9. Remove the injectors from the delivery pipe after removing the fixing clip. Be sure to place injectors on a clean surface to prevent contamination.

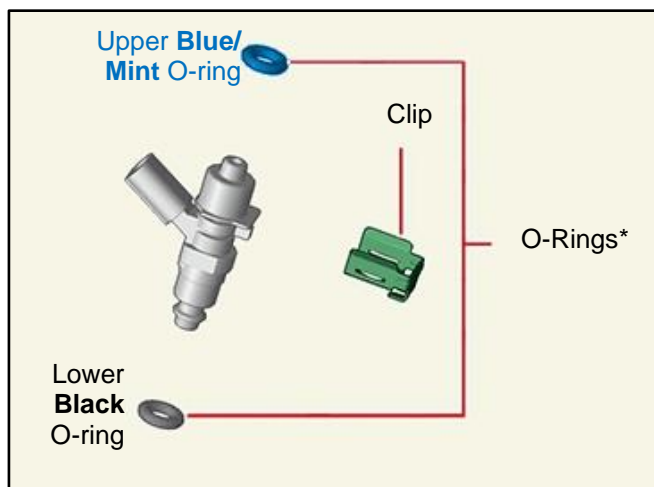


10. Replace the injector 'Upper O-ring & Lower O-ring' from kit.

**\*Apply engine oil to the new injector O-rings prior to installation.**

### \* NOTICE

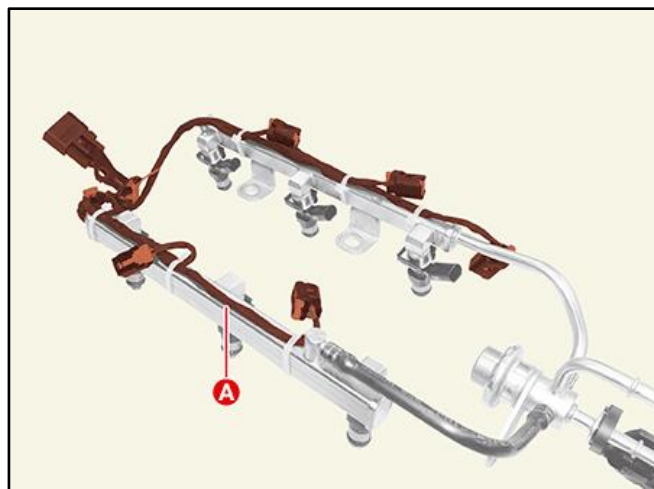
Carefully remove the injectors and ensure to keep new O-rings from dirt/debris. **Ensure to install the new blue/mint and black injector O-rings in the location shown.** Injector Remover SST 09351 C3700 may be required to remove a stuck injector.



11. Install the new MPI fuel rail in the reverse order of removal.

12. After replacing the MPI fuel rail, ensure the following:

- No fuel leak is present
- No DTCs stored
- Vehicle operates normally




**SUBJECT:** MPI FUEL RAIL LOT INSPECTION AND REPLACEMENT (SC211)

AFFECTED VEHICLE RANGE:

Model	Production Date Range
Carnival (KA4)	January 27, 2021 to March 25, 2021

REQUIRED PART:

Part Name	Part Number	Figure	Qty.
Fuel Delivery Pipe Service Kit	35304 3NGCXQQK		<p>1</p> <p>Service Kit Includes 1 Fuel Delivery Pipe, 12 Injector O-Rings, 6 Injector Clips, and 6 Cable Ties</p>

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	35304 3NGC0	0	(SC211) MPI Fuel Rail Lot Inspection	211056R1	0.2 M/H	N/A	0
			MPI Fuel Rail Lot Inspection and Replacement	211056R2	1.5 M/H	35304 3NGCXQQK	1

**Note:** Refer to Warranty Bulletin 2021-08 for claim submission procedures. If replacing the MPI fuel rail, a photo of the Lot number must be attached using the KVID app as a Warranty Claim Attachment type 'XX - Other'.

### \* NOTICE

VIN inquiry data for this repair is provided for tracking purposes only. Kia retailers should reference SC211 when accessing the WebDCS system.