



GROUP
FUE

MODEL
2019-2021MY Forte
(BDm)

NUMBER
052

DATE
April 2021

TECHNICAL SERVICE BULLETIN

SUBJECT: FUEL TANK INLET CHECK VALVE (ICV) MODIFICATION

This bulletin provides information on the modification of the fuel tank Inlet Check Valve (ICV) on some 2019-2021MY Forte (BDm) vehicles produced from July 9, 2018 through December 2, 2020, which may exhibit fuel spit-back from the Fuel Filler Neck, after the tank has been filled up, and the nozzle clicks off. This condition may occur when the ICV in the fuel tank (at end of Fuel Filler Neck) becomes temporarily stuck in the open position due to the ICV ribs preventing the ICV from closing completely. Follow the procedure outlined in this publication to modify clearance between the ICV ribs and the flap to correct this condition.

Fuel Inlet Check Valve



ICV Flap Properly Closed



ICV Flap Stuck Open



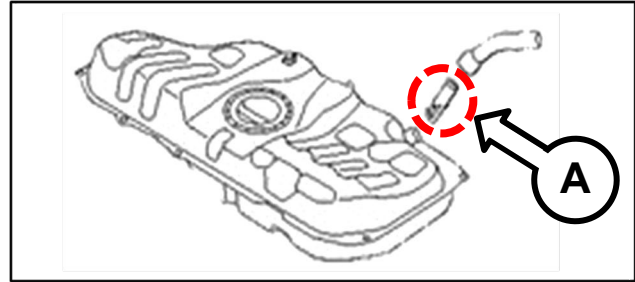
ICV Post Procedure

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

Modification Procedure:

Because the Inlet Check Valve (ICV) (A) is located at the bottom of the fuel filler neck connection, inside the fuel tank, it cannot be accessed from outside. Follow the steps below to access the ICV through the fuel pump location.

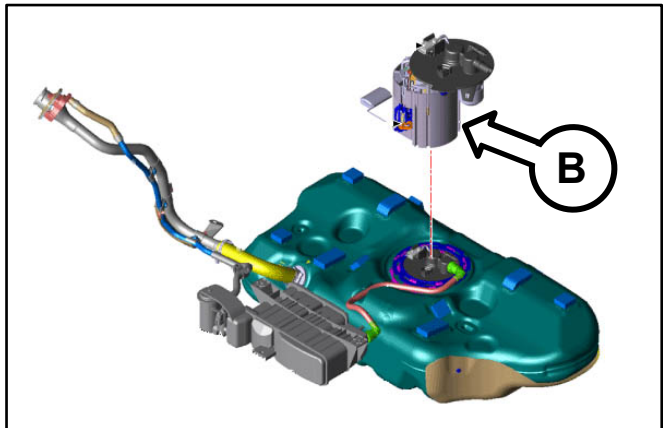


1. Drain the fuel level down to less than 1/8 of a tank. We recommend recovering additional fuel directly from the fuel pump access point; to minimize contact during the procedure.

**CAUTION**

Do not allow the fuel pump to suck in air during initial fuel draining.

2. Depressurize the fuel line by referring to the “Engine Control/Fuel System → Fuel Delivery System → Release Residual Pressure in Fuel Line” chapter in the applicable Shop Manual on KGIS.
3. Remove the fuel pump (B) by referring to the “Engine Control/Fuel System → Fuel Delivery System → Fuel Pump → Repair procedures” chapter in the applicable Shop Manual on KGIS.
4. Use a snake scope (C) (JSP97305 or equivalent) to locate the ICV (A).



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5. Reach into the fuel tank and locate the ICV (A) by hand.

*** NOTICE**

Do **NOT** remove the ICV from the vehicle.



6. Using your hand (with ICV in the fuel tank), bend each rib (D) outward, away from the flap (E), to a 90° angle, or more, and allow to relax as shown.

*** NOTICE**

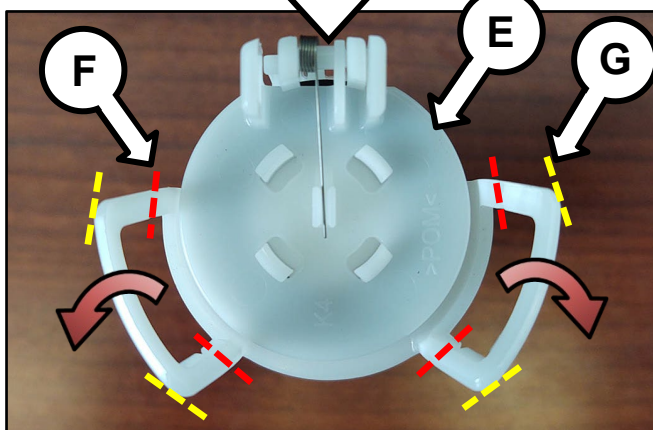
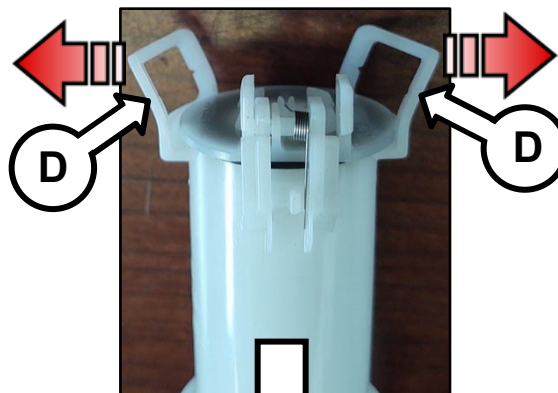
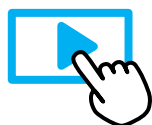
ICV is shown outside of vehicle for illustration purposes only.

- F: Original position (Red line)
- G: New modified position (Yellow line)

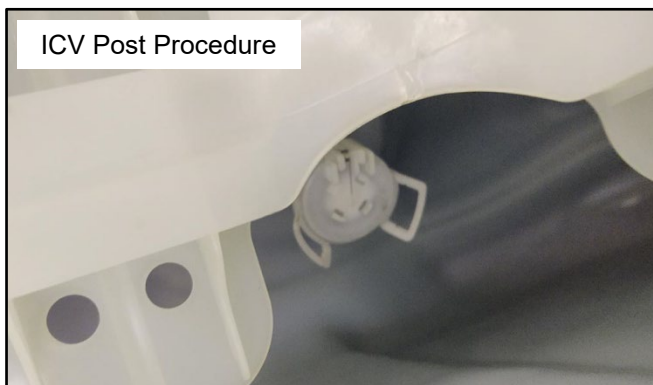
Refer to attached video below for an example.

Note: In video, cut-away fuel tank is shown for demonstration purpose only.

[Video: Bending ICV Ribs](#)



7. Using your hand, move the flap from the "closed" to "open" position to confirm no interference with ICV flap-to-ribs.



8. Reinstall the fuel pump and removed parts in reverse order of removal.




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AFFECTED VEHICLE RANGE:

Model	Production Date Range
Forte (BDm)	July 9, 2018 to December 2, 2020

REQUIRED TOOL:

Tool Name	Figure
Snake Scope (JSP97305)	

WARRANTY INFORMATION:

N Code: I52 C Code: ZZ3

Model	Claim Type	Causal P/N	Qty.	Repair Description	Labor Op Code	Op Time	Replacement P/N	Qty.
Forte (BDm)	W	31120 F2600	0	Bend ICV Ribs	31150R00	1.3 M/H	N/A	0