



# HYUNDAI

## Technical Service Bulletin

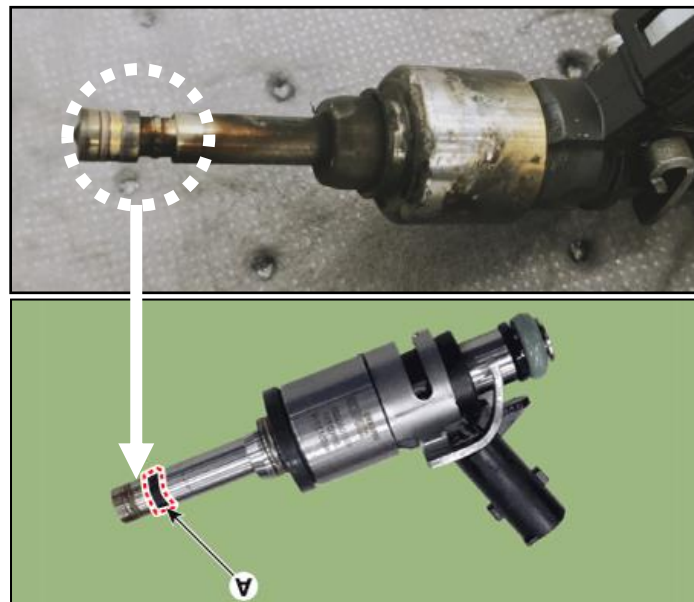
GROUP <b>Engine</b>	NUMBER <b>21-EM-010H-1</b>
DATE <b>NOVEMBER 2021</b>	MODEL(S) <b>Sonata (DN8a)</b>

<b>SUBJECT:</b>	DN8A 1.6L TGDI MISFIRE HIGH PRESSURE INJECTOR REPLACEMENT
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***This TSB supersedes TSB# 21-EM-010H to include updated parts information and service procedures to complete the repair.***

**Description:** Certain 2020-2021 Sonata (DN8a) vehicles with 1.6T engines may exhibit a check engine light in conjunction with a popping noise, abnormal smell from the engine compartment, rough running, or reduced power due to a misfire.

Follow the inspection procedure outlined in this bulletin to identify any high-pressure injectors with burnt injector tip seals and replace any affected injector and tip seals to repair the condition.



**Applicable Vehicles:** 2020-2021MY Sonata (DN8a) equipped with 1.6L T-GDI engines (VINs starting with 5NP).

**Production Date Range:** 10/22/2019 - 08/28/2020

### Parts Information:

PART NUMBER	PART NAME	QTY
35310-2M417	INJECTOR COMPLETE	* Must replace for any affected injector
35312-2M400	TIP SEAL-INJECTOR	* Must replace for any reused injector(s)
35305-2M414	PIPE-HIGH PRESSURE,LH	1 (Must replace with new for reassembly)

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

**Warranty Information:**

Model	Op Code	Operation	Op Time	Causal Part	Nature Code	Cause Code
Sonata (DN8a)	35310R5T	INJECTOR ASSY-FUEL (1EA~ALL) (T-GDI)	Refer to WEBLTS for current labor time	35310-2M417	I3T	ZZ3
	35310RQ0	DIAGNOSTIC TOOL OPERATION				

**NOTE:** Normal Warranty Applies.**Service Procedure:**

1. If the vehicle is diagnosed with having a misfire and the ignition coil, spark plug, and associated connections are identified to be operating as designed, proceed to diagnose as follows in step 2.



2. Complete a leakdown test on the affected cylinder exhibiting a misfire. If leakdown is 15% or greater, locate the source of escaping air.

One possible source of a leak can be a GDI injector underneath the intake manifold. If no leak is found in this location, proceed further for continued diagnosis.

**NOTICE**

Engine leak down test instructions can be found at: [HMA Dealer Portal > Service Information > Fix It Right > Engine Mechanical System > Engine Leak-Down Test.](#)

**NOTICE**

One method to help determine the source of an air leak is to use the open end of a stethoscope.

## SUBJECT: DN8A 1.6L TGDI MISFIRE HIGH PRESSURE INJECTOR REPLACEMENT

- Before working on the fuel delivery system, be sure to deplete the residual fuel pressure in the fuel lines following the procedure outlined in the shop manual.

Refer to the shop manual section for complete service procedure:

**Engine Control / Fuel System > Fuel Delivery System > Release Residual Pressure in Fuel Line**

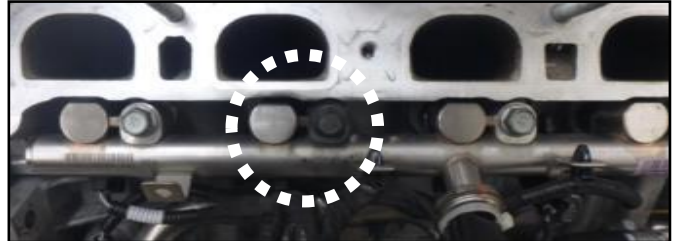
### NOTICE

Be sure to wrap the connection joints with a shop towel to capture any dripping fuel.

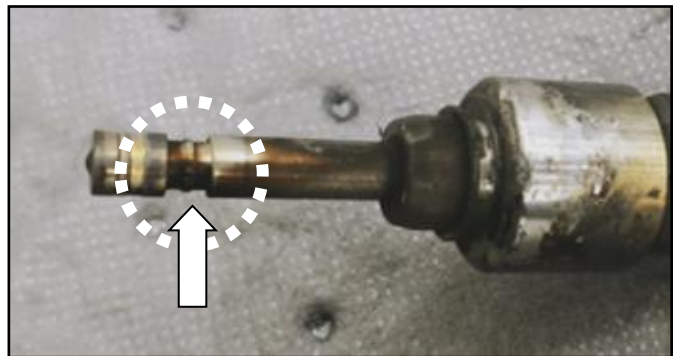
- Upon removal of the injector associated with the engine's misfire, the following conditions may be shown on the right.

### NOTICE

Conditions of burnt-out injector tip seals can be soot deposits around affected injector area and cylinder boss.



- Upon removal of the GDI Injector, if injector has the appearance as seen to the right, **replace the whole injector**. Do not just replace the tip seal of the injector in this case.

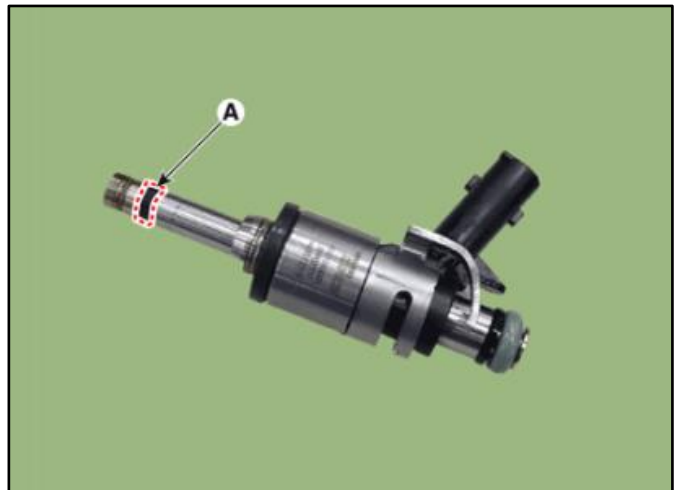


- If the appearance of the injector tip is not burnt, **install new combustion seals on all the reused injectors** during reinstallation.

In addition, **replace the high pressure fuel pipe** with a new part after reinstallation of the fuel rail.

Refer to the shop manual section for complete service procedure:

**Engine Control / Fuel System > Fuel Delivery System > Delivery Pipe**



7. After replacing the injector or injector tip seal, install the remaining parts in reverse order of removal.

**NOTICE**

**During reassembly, be sure to install a new high pressure fuel pipe.  
Reusing the old high pressure fuel pipe may result in fuel leaks.**

8. Clear any DTC's present.
9. Start the engine and check for any leaks at idle, then briefly operate the vehicle to verify repair is successful.
10. The service procedure is complete.