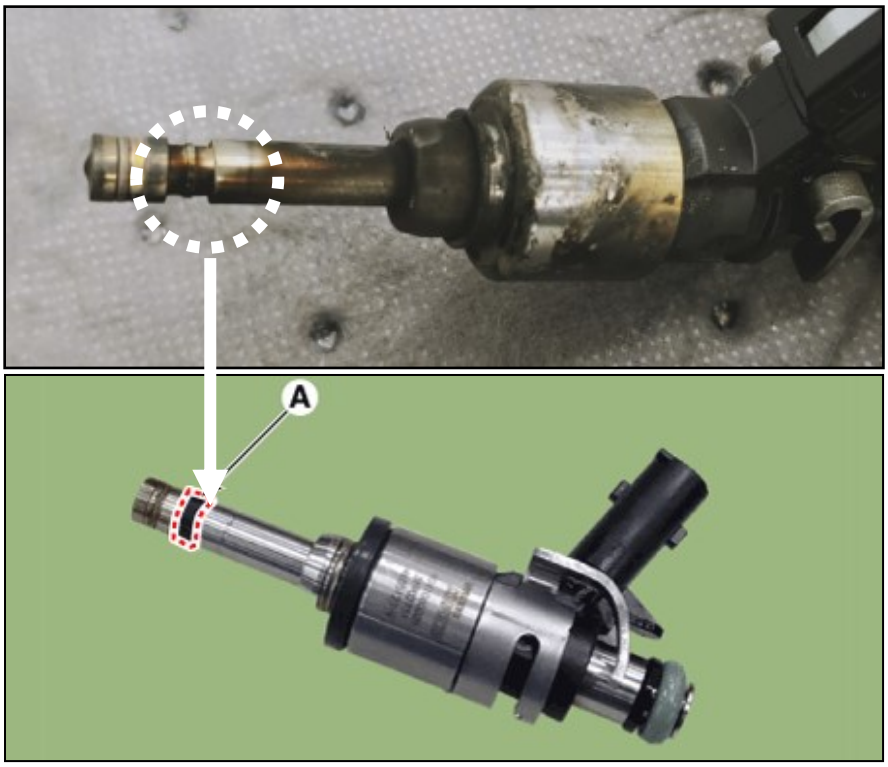
HYUNDAI **Technical Service Bulletin**	GROUP **Engine**	NUMBER **21-EM-010H**
	DATE **September, 2021**	MODEL(S) **Sonata (DN8a)**
SUBJECT:	DN8A 1.6L TGDI MISFIRE HIGH PRESSURE INJECTOR REPLACEMENT	

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 inspect and 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	1

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.

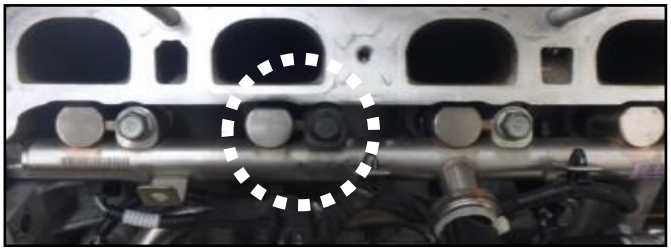
NOTICE

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.

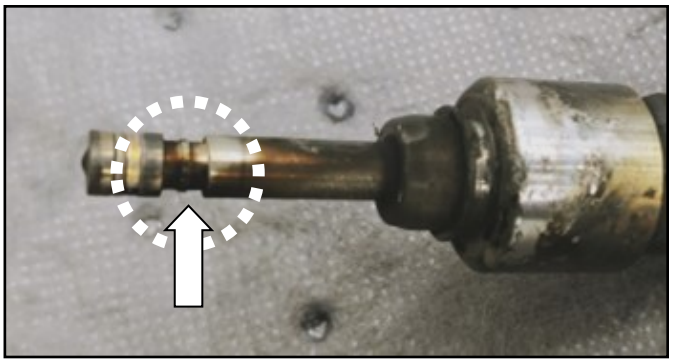
3. Upon removal of the injector associated with the engine's misfire, the following conditions may be shown on the right.



NOTICE

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

4. 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.



5. After replacing the injector, reinstall parts in reverse order of removal.

6. Clear any DTC's present.

7. Start the engine and check for any leaks at idle, then briefly operate the vehicle to verify repair is successful.

8. The service procedure is complete.