HYUNDAI **Technical Service Bulletin**	GROUP **ENGINE MECHANICAL**	NUMBER **24-EM-010H**
	DATE **DECEMBER 2024**	MODEL(S) **ELANTRA N (CN7 N)** **KONA N (OS N)** **VELOSTER N (JS N)**

SUBJECT: DTC P1326 - KNOCK SENSOR AND CONNECTOR REPLACEMENT

Description: Certain Elantra N (CN7 N), Kona N (OS N), and Veloster N (JS N) vehicles may have DTC P1326 set due to water intrusion in the knock sensor connector during heavy rain or car wash conditions. There is no abnormal engine noise present, and the vehicle may enter “limp home” mode.

Follow the procedure in this bulletin to replace the knock sensor and connector to correct the condition on affected vehicles.

Applicable Vehicles:

- ALL 2022 - 2025MY Elantra N (CN7 N)
- ALL 2022 - 2023MY Kona N (OS N)
- ALL 2019-2022MY Veloster N (JS N)

Parts Information:

Model	Part Name	Part Number	Figure	Remarks
Elantra N (CN7 N) Kona N (OS N) Veloster N (JS N)	Knock Sensor	39250-2G700FFF		• QTY: 1
	Intake Manifold Gasket	28411-2GTB0		• QTY: 1 • Replace when intake manifold is removed
	Knock Sensor Wiring Kit	91200-IB000FFF	Wiring Repair Kit 	• Wire Color: Red/Black • Wire Length: 23 mm • QTY: 1
			Terminal Joint 	• Apply “Solder Seal” Alternatively • QTY: 2
			Heat Shrink Tube 	• Resin Type • QTY: 2

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

Required Equipment/Supplies:

Name	Figure (Example only)	Remarks
Wire Stripper and Crimper		Commercially Available
Electrical/Wire Harness Tape		Standard Shop Supply

Warranty Information:

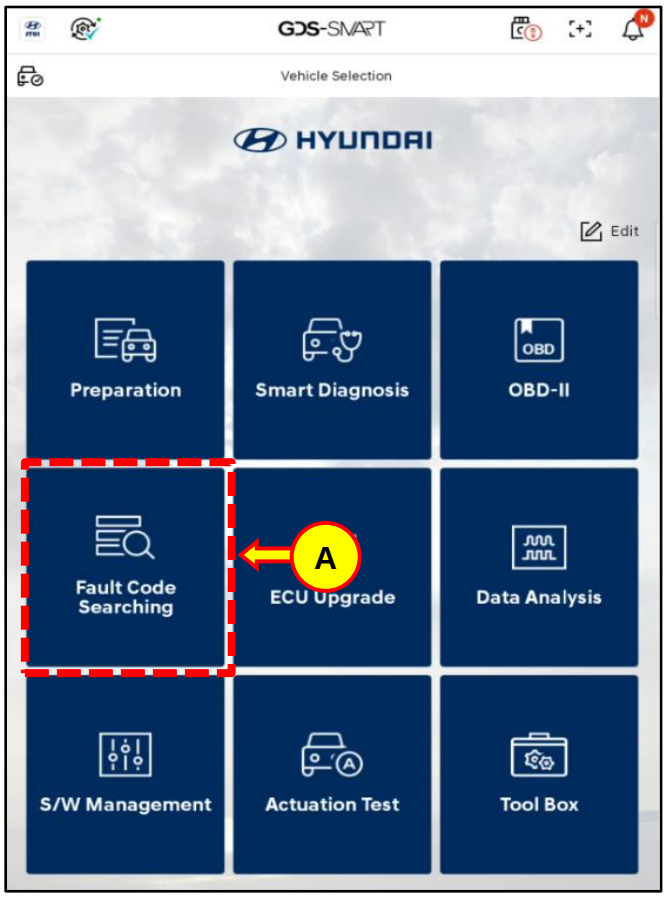
Model	Op. Code	Operation	Op. Time	Causal Part	Nature Code	Cause Code
Elantra N (CN7 N) Kona N (OS N) Veloster N (JS N)	39250F01	Engine Warning Light Inspection, Knock Sensor Replacement, and Knock Sensor Wiring Kit Repair	1.7 M/H	39250–2G700	W17	ZZ1

NOTE 1: Normal warranty applies.
NOTE 2: Submit claim on Claim Entry Screen as “Warranty” type.
NOTE 3: The incident parts are subject to callback through the normal Warranty Technical Center (WTC) parts return process. **Claim is subject to debit if the part is not returned.**
NOTE 4: If a part is found in need of replacement while performing this TSB and the affected part is still under warranty, submit a separate claim using the same repair order. If the affected part is out of warranty, submit a Prior Approval request for goodwill consideration prior to performing the work.

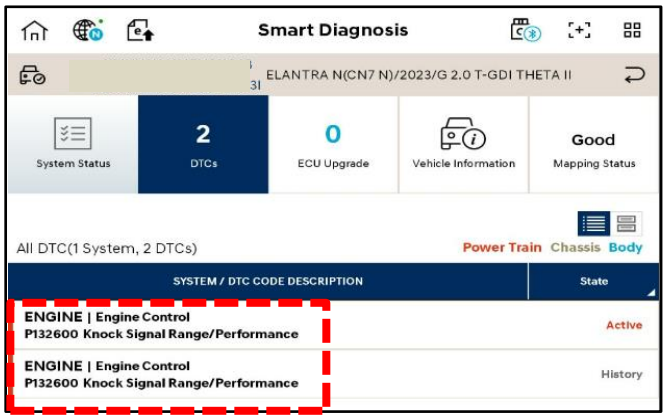
Service Procedure:

DTC Inspection

1. Connect the GDS and turn **ON** the IGN switch.
2. Select **Fault Code Searching** (A) on the home screen.



3. Select **ENGINE** and press **OK**.
4. Verify if DTC P1326 is present.
   - **YES:** Proceed with the **Knock Sensor Replacement** and **Knock Sensor Wiring Repair** procedures.
   - **NO:** This TSB does **NOT** apply.



Information

This bulletin only applies to vehicles with DTC P1326 after a carwash or heavy rain condition.
If the vehicle is experiencing any abnormal engine noise, this bulletin does **NOT** apply.

Information

The GDS will automatically upload the DTC scan results via HMA E-report. Although uploading a STUI image of the DTC is **NOT** required, it is highly recommended to capture any results for dealership records.

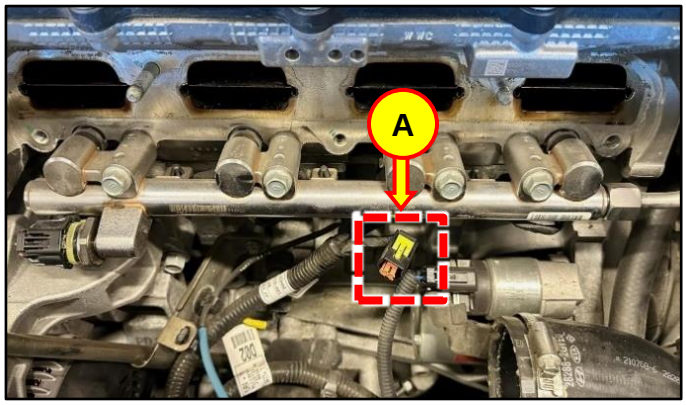
Knock Sensor Replacement

1. Remove the intake manifold and replace the knock sensor according to the shop manual and the steps below.
   Refer to the shop manual:
   - **Engine Mechanical System > Intake and Exhaust System > Intake Manifold > Repair procedures**

Information

Removal of the Electronic Throttle Control (ETC) / throttle body is **NOT** required when removing the intake manifold.

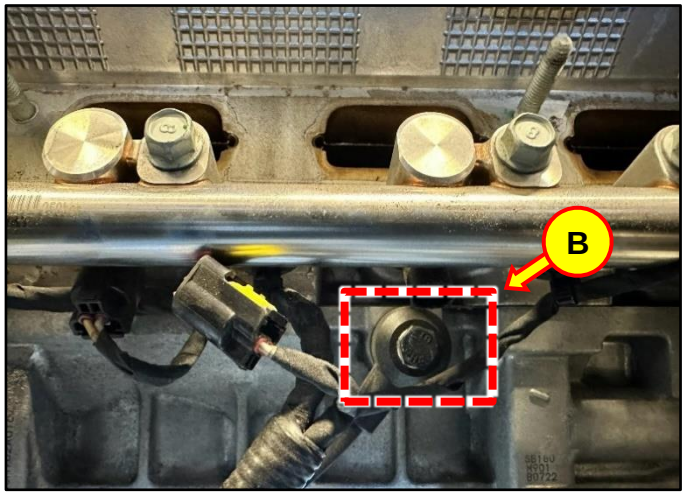
2. Disconnect the GDI injector connector at cylinder # 3 (A) to provide clearance for removal of the knock sensor bolt.



3. Remove the knock sensor bolt (B) then replace the knock sensor.

Tightening Torque:

lb-ft	16
N.m	21



NOTICE

Hand tighten and then torque the knock sensor to specification to prevent damaging the sensor.

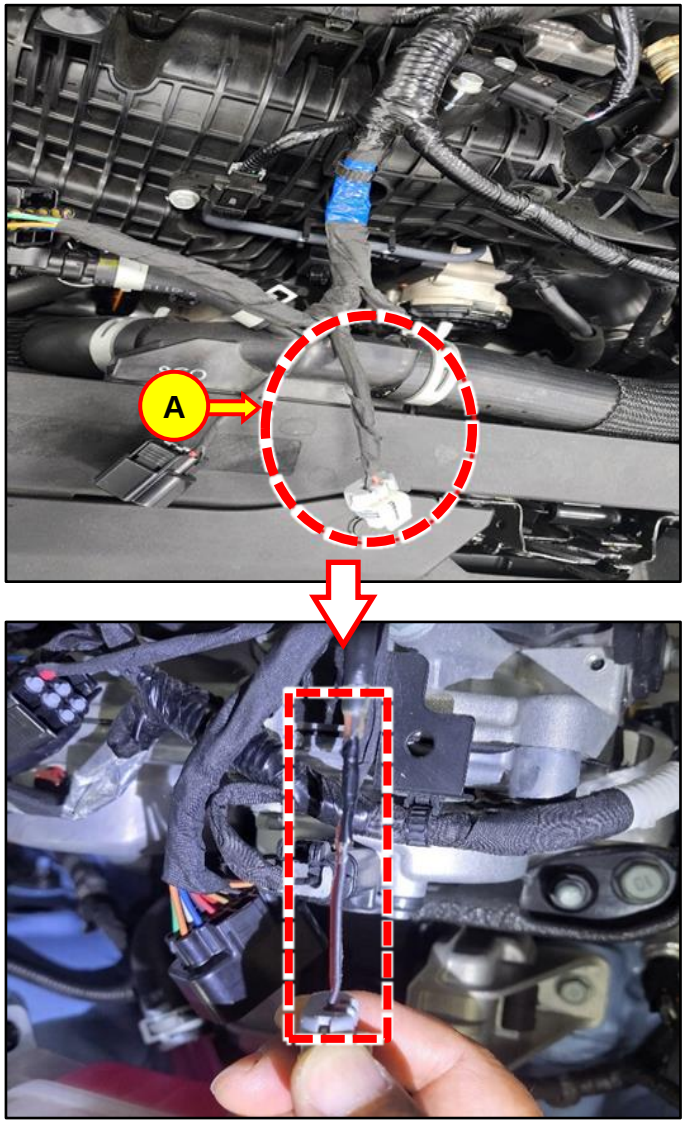
Information

Removal of the GDI High Pressure Fuel Rail (Delivery Pipe) is **NOT** required when replacing the knock sensor.

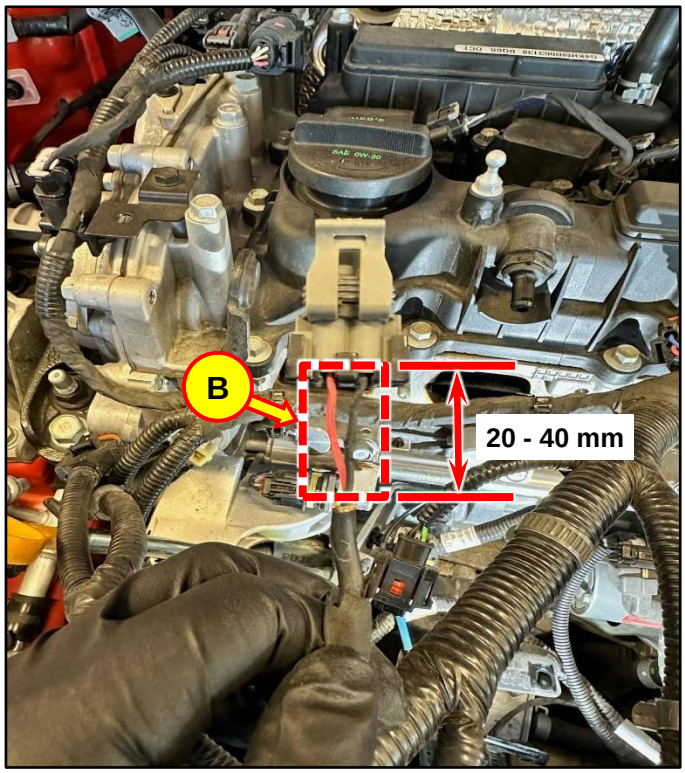
Proceed to **Knock Sensor Wiring Repair** on the next page.

Knock Sensor Wiring Repair

1. Disconnect the knock sensor connector, then remove the heat-resistant tape (A) surrounding the wiring.



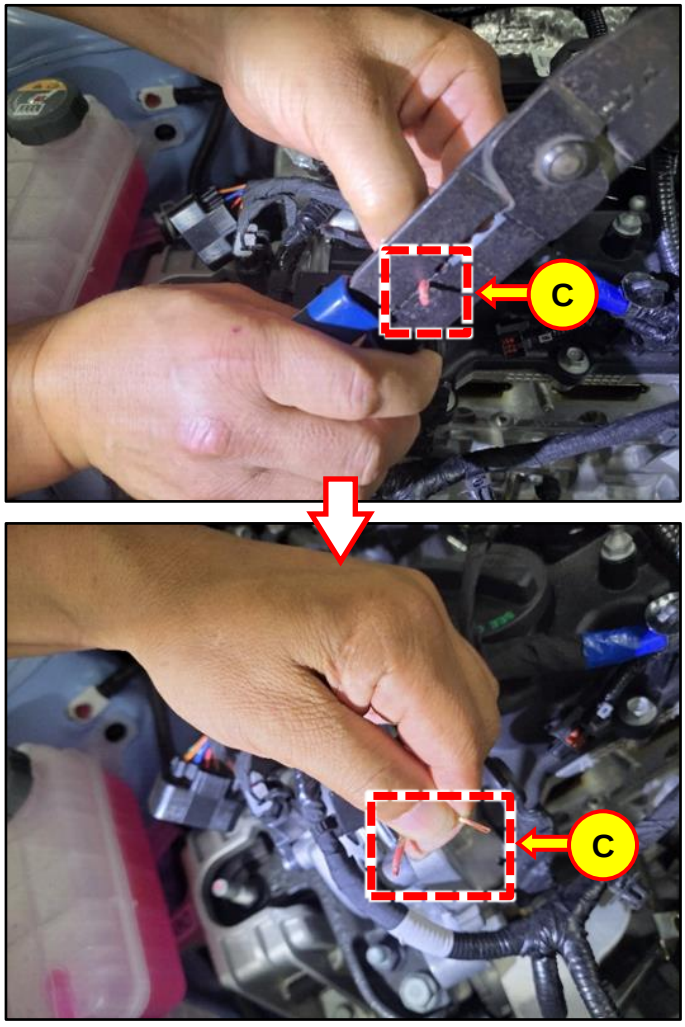
2. Cut the wiring (B) of the knock sensor connector approximately **20 - 40 mm** (**0.7 - 1.5 inches**) away from the connector as shown.



NOTICE

Do **NOT** cut past **40 mm** as the knock sensor wiring contains a shielded wire beyond this point to prevent external noise.

3. Using a wire stripper, strip both ends of the wire (C) on the harness side and the newly supplied knock sensor connector.



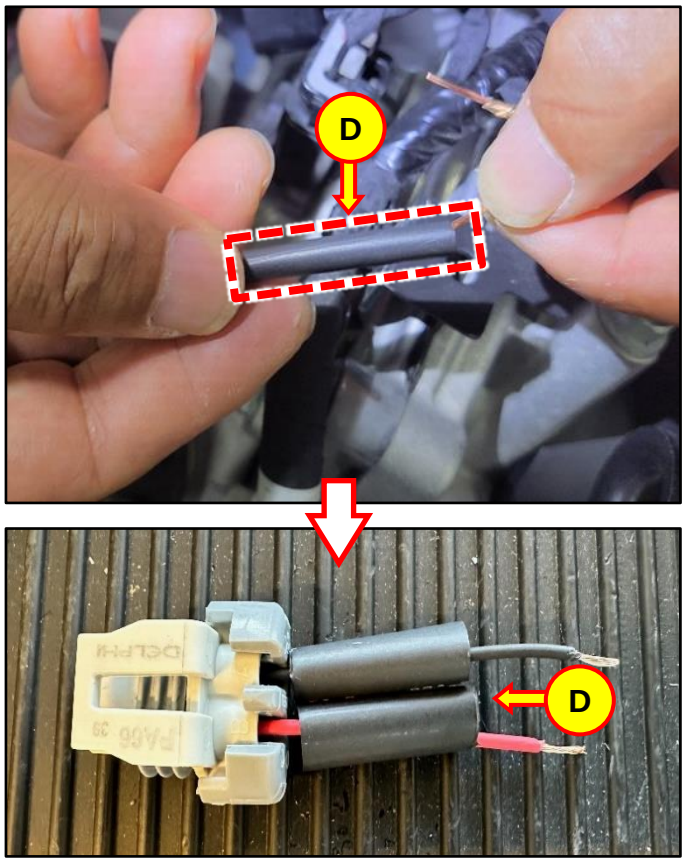
Information

The length of the wire on the new knock sensor connector is longer than the old one.

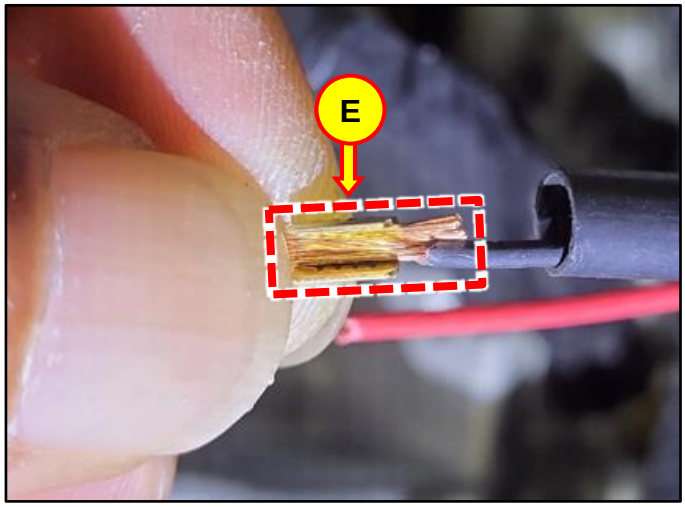
Cut the new wire approximately **10 mm** longer than the length of the removed connector to allow room for splicing.

4. Insert the provided heat shrink tubing onto the new knock sensor connector (D).

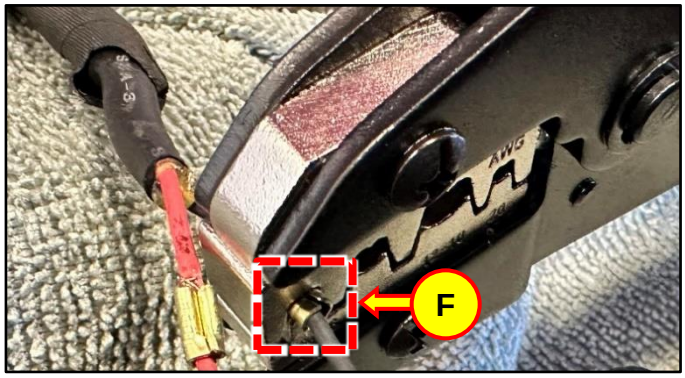
> **Information**
>
> Depending on where the knock sensor wiring was cut, the heat shrink tubing may need to be cut to fit over the splice.



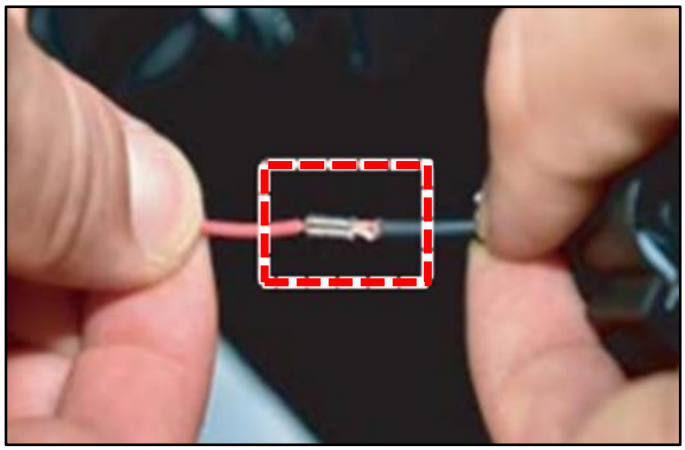
5. Align the newly supplied knock sensor connector wiring and the separated engine wiring harness in a straight line and wrap with the open band (U-shaped) terminal joint (E).



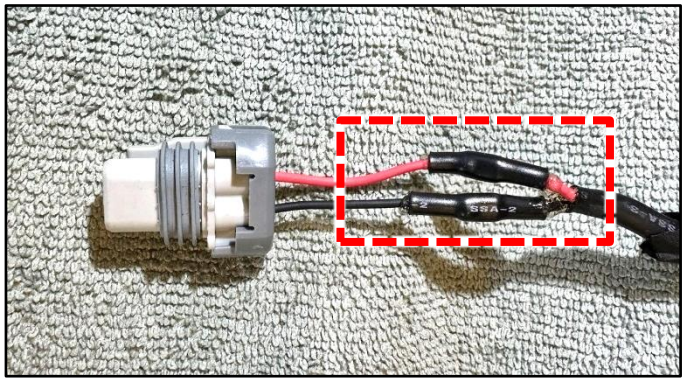
6. Using a crimper, press evenly starting from the end of the terminal joint (F).



7. Perform a slight pull force test to confirm both ends are securely crimped together.



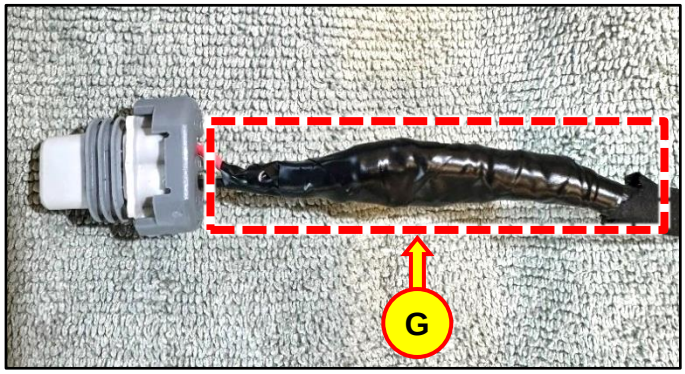
8. Place the heat shrink tubes over the crimped wiring and use a heat gun to insulate the wiring.



Information

Allow adequate time for the heat shrink to cool before applying electrical tape in the next step.

9. Tape the entire wiring using electrical or high-temperature wire harness tape (G).



Information

When installing the connector, listen for an audible click to verify it is fully seated.

10. Reinstall all components in the reverse order of removal.

11. Erase all DTCs and reset the engine adaptive values.

12. Start the engine to confirm proper operation of the vehicle.