



Technical Service Bulletin

GROUP ENGINE ELECTRICAL	NUMBER 23-EE-005H
DATE APRIL 2023	MODEL(S) SONATA (DN8)


SUBJECT: JE102 JOINT CONNECTOR REPAIR
(P0121,P0221,P0405,P0489,P0191,P0507 AND/OR P0471)

Description: This bulletin provides the procedure to repair poor pin tension at joint connector JE102 in certain Sonata (1.6 T-GDI engine) with one or more DTC.

Applicable Vehicles:

- All 2020-2023MY Sonata (DN8) equipped with 1.6L T-GDI Engine (VINs starting with 5NP)

Parts Information:

MODEL	PART NAME	PHOTO	QTY
Haisstronica Marine Grade Solder and Seal Connectors AWG 16-14	Locally obtained		4

Warranty Information:

MODEL	OP CODE	OPERATION	OP TIME	CAUSAL PART	NATURE CODE	CAUSAL CODE
Sonata (DN8)	91201FJ1	Repair JE102	0.8 M/H	91410L0063	I3T	ZZ3

NOTE 1: Normal Warranty applies.

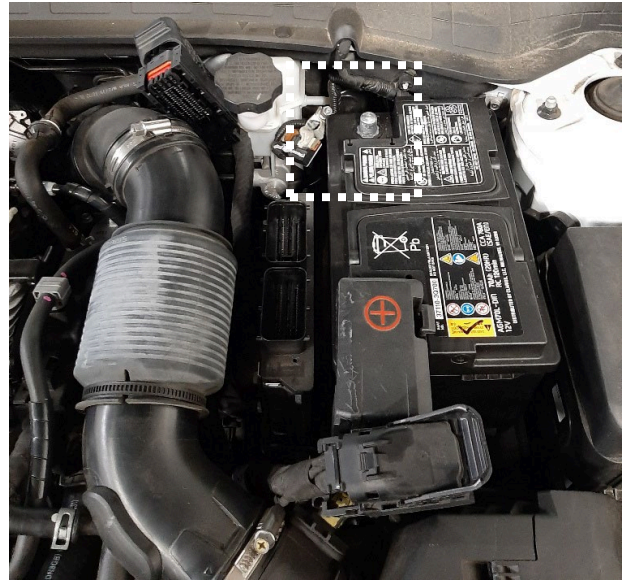
NOTE 2: Include cost of AWG 16-14 in sublet as part of claim submission for reimbursement.

Service Procedure:

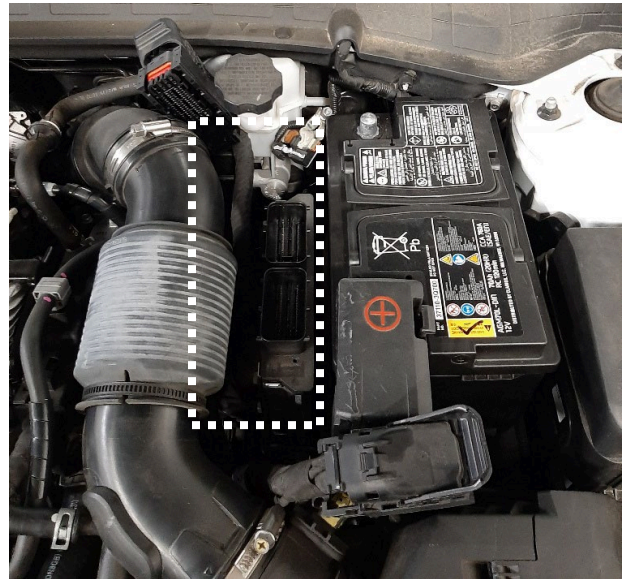
1. Disconnect Negative Battery Terminal and make note of customer radio presets to program back later.

*** NOTE**

**Tightening Torque
6.5 lb-ft**



2. Disconnect ECM Connectors.



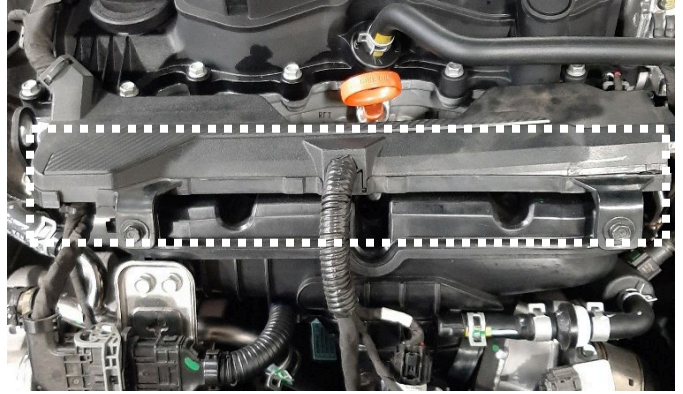
3. Remove two bolts securing Control Harness to Intake Manifold.

*** NOTE**

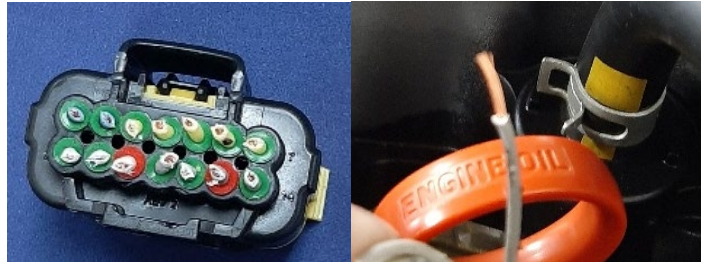
**Tightening Torque
6.5 lb-ft**



4. Cut the zip ties at each end of the Control Harness Cover. Using a flat head screwdriver, gently separate the upper and lower halves of the Control Harness Cover.



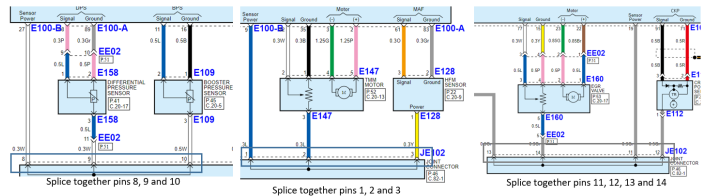
5. Disconnect JE102 from the Cover.
 - Trim the tape on the harness to allow for more wire.
 - Cut the wires as close to the back of the connector as possible as shown.



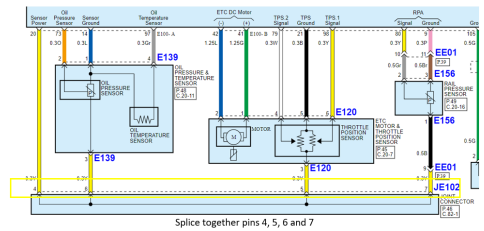
CAUTION
 Cut wires one at a time and do NOT mix pin 3 yellow wire with pin 4,5,6 and 7

- Strip 3/8" of the insulation from all wires.

6. Using Solder and Seal Connectors, twist, install and splice circuits as stated below and shown on the right. Using a Micro Torch or Heat Gun, melt the solder in the connector and seal. Refer to Online ETM if additional information is required.



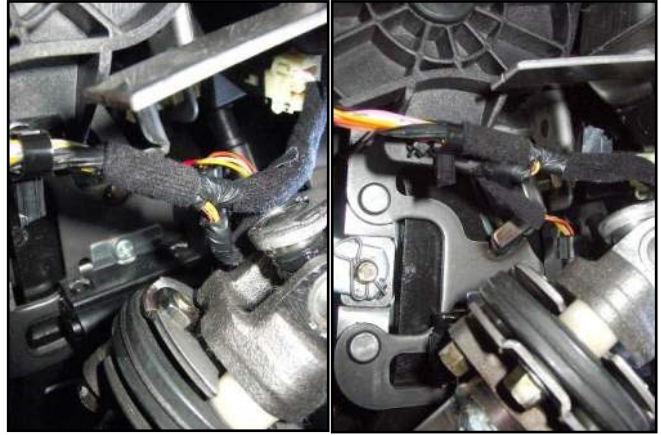
- Connect wires from pins 1, 2 and 3 together (2 blue wires and 1 yellow wire).
- Connect wires from pins 4, 5, 6 and 7 together (all yellow wires).
- Connect wires from pins 8, 9 and 10 together (all white wires).
- Connect wires from pins 11, 12, 13 and 14 together (all grey wires).



CAUTION
 Use caution when heating the connectors to prevent damage to the fuel line.



7. Using a Zip Tie, secure the repaired wiring to the Control Harness.



8. Reassemble in reverse order of disassembly.
9. Clear DTC's and Reset Adaptive Values.