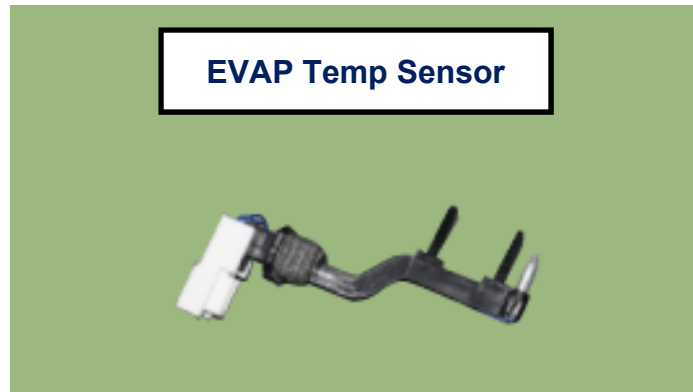
 HYUNDAI Technical Service Bulletin	GROUP HVAC	NUMBER 21-HA-001H
	DATE MAY, 2021	MODEL(S) Santa Fe (TMA)
SUBJECT: EVAPORATOR TEMPERATURE SENSOR INSPECTION		

Description: Certain 2020MY Santa Fe vehicles (TMA) may experience air conditioning not blowing cold air from the vents after some period of normal operation. This condition may be caused by an out of specification Evaporator Temperature Sensor. Follow the procedure in this bulletin to inspect and, if necessary, replace the Evaporator Temperature Sensor to correct the condition.



Applicable Vehicles:

Model	Production Date Range
2020MY Santa Fe (TMA) vehicles	September 1, 2019 ~ April 1, 2020

Parts Information:

PART NAME	PART NUMBER	QTY
THERMISTOR ASSY-A/C EVAP	97614-S1000	1

Warranty Information:

MODEL	OP CODE	OPERATION	OP TIME	CAUSAL P/N	NATURE CODE	CAUSE CODE
Santa Fe (TMA)	10DA16R0	Replace EVAP Temp Sensor	4.6	97614-S1000	IB1	ZZ3

NOTE 1: Submit claim under Campaign Claim Entry Screen.

NOTE 2: If a part that is not covered by this TSB is found in need of replacement while performing the repair for this TSB and the affected part is still under warranty, please 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:**1. (For Dual Automatic Temperature Control equipped vehicles)**

Ensure that the Auto Defogging System (ADS) is not causing the air flow to change from Panel Vents to Defroster Vents.

If the Auto Defogging System is active, disable the system:

- a) Press the front windshield defroster button for 3 seconds when the ignition switch is in the ON position.
- b) When the Auto Defogging System is canceled, the ADS OFF symbol will blink 3 times and "ADS OFF" will be displayed on the climate control information screen.
- c) When the Auto Defogging System is reset, the ADS OFF symbol will blink 6 times without a signal.

*** NOTE**

Be sure to re-enable the Auto Defogging System if the vehicle arrived with it already enabled.

**2. (For Dual Automatic Temperature Control equipped vehicles)**

If the Auto Defogging System is not the cause of the customer concern, connect the GDS and monitor the Evaporator Temperature Sensor values. If current data reading is inconclusive, check Resistance and Voltage at the Evaporator Temperature Sensor per step 3.

(For Manual Temperature Control equipped vehicles)

Check Resistance and Voltage at the Evaporator Temperature Sensor per step 3.

System	Sensor Name(1)	Value	Unit
ENGINE	AC Request to ECU	ON	-
ENGINE	A/C On Condition	ON	-
ENGINE	A/C Compressor ON by ECU	ON	-
AIRCON	In-car Temperature Sensor - Front	29	°C
AIRCON	Ambient Air Temperature Sensor	29	°C
AIRCON	Evaporator Sensor	50	°C
AIRCON	Driver Photo Sensor	0.96	V
AIRCON	Driver Air Mix Potentiometer	11	%

Specification

Evaporator core temperature [°C (°F)]	Resistance [KΩ]	Voltage [V]
-10 (14)	43.35	2.93
0 (32)	27.62	2.40
10 (50)	18.04	1.88
20 (68)	12.11	1.44
30 (86)	8.30	1.08
40 (104)	5.81	0.81

- If the Evaporator Temperature Sensor Reading is not accurate, refer to the Shop Manual to check Resistance and Voltage at the Evaporator Temperature Sensor.
 - Shop Manual Section: Heating, Ventilation And Air Conditioning > Air Conditioning System > Evaporator Temperature Sensor > Repair Procedures > Inspection

*** NOTE**

When the Evaporator Temperature Sensor is disconnected, the GDS will display -2°C (28°F) and the A/C Compressor will be OFF.

- If the Evaporator Temperature Sensor is out of specification, refer to the Shop Manual to replace the Evaporator Temperature Sensor.
 - Shop Manual Section: Heating, Ventilation And Air Conditioning > Air Conditioning System > Evaporator Temperature Sensor > Repair Procedures > Replacement
- Once the inspection and repair is completed, check for proper operation of the Air Conditioning.