



## Technical Service Bulletin

GROUP	NUMBER
FUEL SYSTEM	23-FL-007H
DATE	MODEL(S)
DECEMBER 2023	TUCSON (NX4/NX4a)

**SUBJECT:** ECU/TCU UPDATE FOR ISG LOGIC IMPROVEMENT

**Description:** This bulletin provides the procedure to update the Transmission Control Module (TCM) for the 2022MY Tucson (NX4/NX4a) vehicles and the Engine Control Module (ECM) for the 2022-24MY Tucson vehicles to improve operation of the Idle Stop and Go (ISG) system. Under certain circumstances the vehicle may not restart after ISG system has engaged and require a manual restart due to the lack of intake manifold pressure recovery.

### Applicable Vehicles :

- 2022–2024MY Tucson (NX4/NX4a) produced 1/20/2021 – 10/04/2023.

### GDS Information:

System	Event #	Description
Engine	1031	NX4 Theta III 2.5GDI ECU S/W Improvement for ISG Logic Improvement (ECU for VINs starting w/ “KMH”)
TCU	1032	NX4 Theta III 2.5GDI TCU S/W Improvement for ISG Logic Improvement (22MY ONLY – TCU for VINs starting w/ “KMH”)
Engine	1033	NX4a Theta III 2.5GDI ECU S/W Improvement for ISG Logic Improvement (ECU for VINs starting w/ “5NM”)
TCU	1034	NX4a Theta III 2.5GDI TCU S/W Improvement for ISG Logic Improvement (22MY ONLY – TCU for VINs starting w/ “5NM”)

(\*or use a later available event as listed in the GDS ECM System Update screen if one is available.)

**Warranty Information:**

Model	Op. Code	Operation	Op. Time	Causal Part	Nature Code	Cause Code
2022MY Tucson (NX4/NX4a)	39110FG8	ECU + TCU Software Update	0.6 M/H	39110-2S***	I11	ZZ3
2022-2024MY Tucson (NX4/NX4a)	39110FG9	ECU Software Update	0.4 M/H	39110-2S***		

**NOTE 1:** Normal warranty applies.

**NOTE 2:** Submit claim on Claim Entry Screen as “Warranty” type.

**NOTE 3:** This TSB includes Repair validation photos. Op times include VIN, Mileage, and photo repair validation photos as outlined in the Digital Documentation Policy.

**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.

**NOTE 5:** Please refer to parts catalog for full ECU causal part numbers.

**Service Procedure:****STUI**

This TSB includes Repair validation photos. Refer to the latest Digital Documentation Policy for requirements.

**NOTICE**

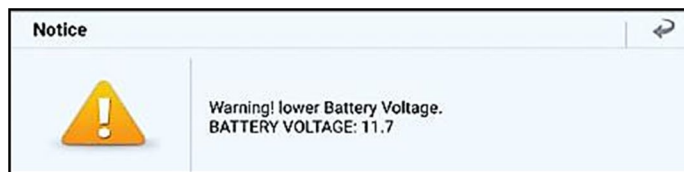
**You must initially perform the GDS ECU Update in Auto Mode.**

- If the ECU Update starts but then fails in Auto Mode, perform the update in Manual Mode to recover.

**NOTICE**

**GDS Vehicle Battery Low Voltage Warning:**

If voltage is below 12 volts as per the below GDS warning, then select **Back** and run the vehicle for at least 20 minutes to ensure an adequate battery state of charge for reliable update results. Turn ignition back on, and then retry the ECU update again.

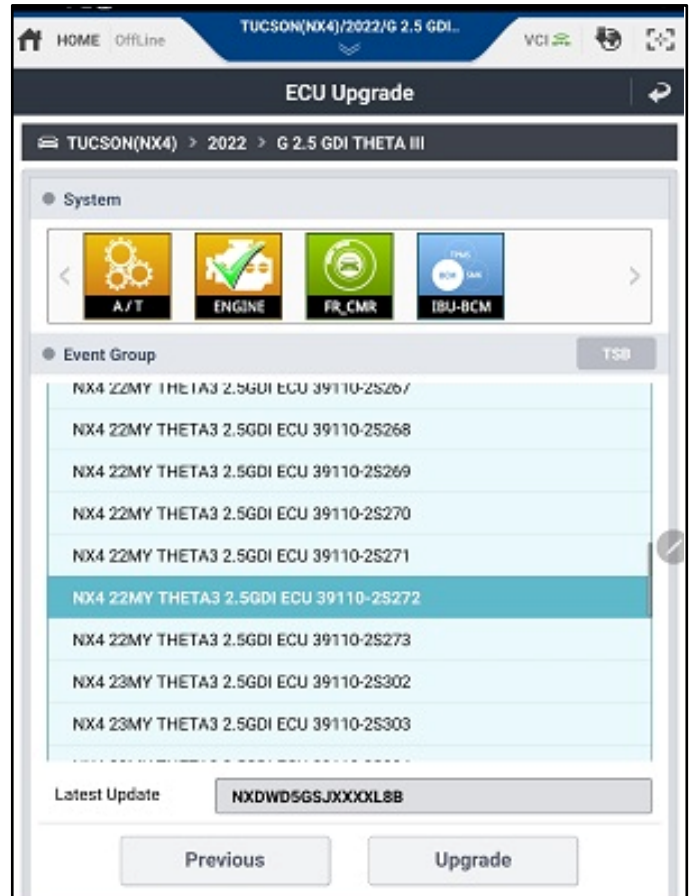


1. Perform the ECU Update in Auto Mode.

Use the Auto Mode ID Check to verify the ECU ROM ID before updating the software.

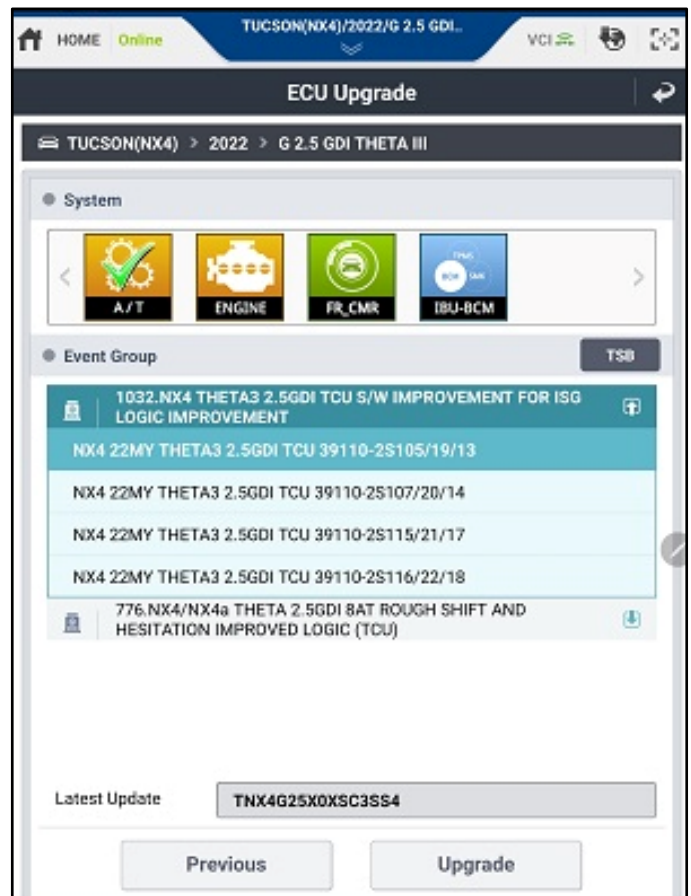
**i Information**

Refer to TSB 15-GI-001 for additional tablet-based Mobile GDS ECU update information.



**i Information**

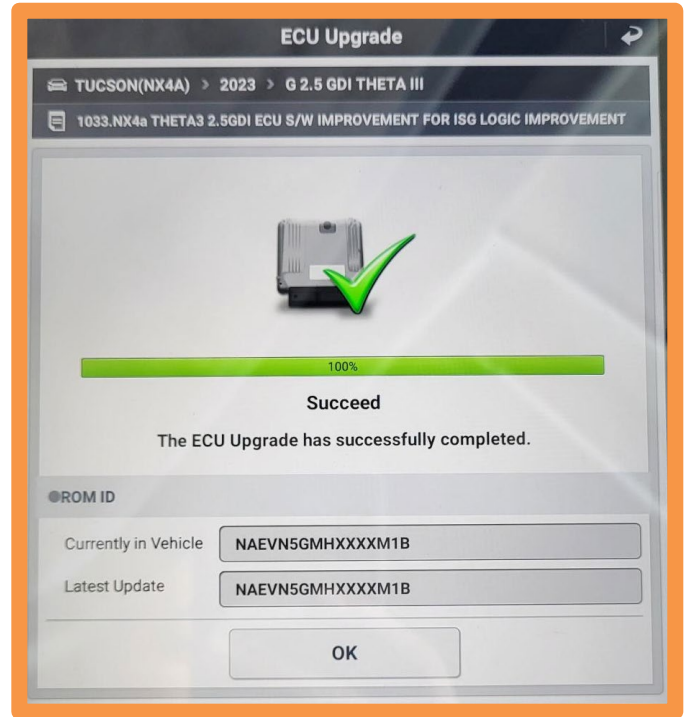
The TCU updates (1032, 1034) only apply to certain 2022MY vehicles.



2.

**STUI**

Take a screenshot of the ECU Update Complete screen using your particular tablet's screenshot save method and upload to STUI.



3. After the ECU Upgrade process shows 100% complete, cycle the ignition key to OFF for at least 10 seconds to reset the control unit.
4. Perform an All Systems Fault Code search and erase the history of the DTC that had incidentally occurred from the ECU update.
5. Start the vehicle in **Ready** mode to confirm proper operation of the vehicle.

**ROM ID Information Table: Event 1031 (ECU for VINs starting w/ "KMH")**

Model	MY	System	ECU Part Number	ROM ID	
				OLD	NEW
NX4	2022	ECU	39110-2S105	NXDWD5GMAXXXXJ1B NXDWD5GMAXXXXJ1A	NXDWD5GMAXXXXL8B
			39110-2S107	NXDWD5GMCXXXXJ1B NXDWD5GMCXXXXJ1A	NXDWD5GMCXXXL8B
			39110-2S119	NXDWD5GKAXXXJ1B NXDWD5GKAXXXJ1A	NXDWD5GKAXXXL8B
			39110-2S113	NXDWD5GSAXXXJ1B NXDWD5GSAXXXJ1A	NXDWD5GSAXXXL8B
			39110-2S116	NXDWD5GMKXXXJ1B NXDWD5GMKXXXJ1A	NXDWD5GMKXXXL8B
			39110-2S262	NXDWD5GMAXXXL6B NXDWD5GMAXXXL6A NXDWD5GMAXXXL8A	NXDWD5GMAXXXL8B
			39110-2S263	NXDWD5GMCXXXL6B NXDWD5GMCXXXL6A NXDWD5GMCXXXL8A	NXDWD5GMCXXXL8B
			39110-2S264	NXDWD5GKAXXXL6B NXDWD5GKAXXXL6A NXDWD5GKAXXXL8A	NXDWD5GKAXXXL8B
			39110-2S266	NXDWD5GSAXXXL6B NXDWD5GSAXXXL6A NXDWD5GSAXXXL8A	NXDWD5GSAXXXL8B
			39110-2S269	NXDWD5GMKXXXL6B NXDWD5GMKXXXL6A NXDWD5GMKXXXL8A	NXDWD5GMKXXXL8B
	2023	39110-2S302	NXEVD5GMAXXXM1A NXEVD5GMAXXXM0A	NXEVD5GMAXXXM1B	
		39110-2S303	NXEVD5GMCXXXM1A NXEVD5GMCXXXM0A	NXEVD5GMCXXXM1B	
		39110-2S304	NXEVD5GKAXXXM1A NXEVD5GKAXXXM0A	NXEVD5GKAXXXM1B	
		39110-2S307	NXEVD5GMKXXXM1A NXEVD5GMKXXXM0A	NXEVD5GMKXXXM1B	
		2024	39110-2S328	NXFVD5GMAXXXM1B	NXFVD5GMAXXXM1C
	39110-2S329		NXFVD5GMCXXXM1B	NXFVD5GMCXXXM1C	
	39110-2S330		NXFVD5GKAXXXM1B	NXFVD5GKAXXXM1C	
	39110-2S333		NXFVD5GMKXXXM1B	NXFVD5GMKXXXM1C	

**ROM ID Information Table: Event 1032 (22MY ONLY – TCU for VINs starting w/ "KMH")**

Model	MY	System	ECU Part Number	ROM ID	
				OLD	NEW
NX4	2022	TCU	39110-2S105	TNX4G25X0XSC1SS2	TNX4G25X0XSC3SS4
			39110-2S107	SNX4G25X0XSC1SS2	SNX4G25X0XSC3SS4
			39110-2S119	TNX4G25X0XSC1SS2	TNX4G25X0XSC3SS4
			39110-2S113	TNX4G25X0XSC1SS2	TNX4G25X0XSC3SS4
			39110-2S116	SNX4G25X4XSC1SS2	SNX4G25X4XSC3SS4

## ROM ID Information Table: Event 1033 (ECU for VINs starting w/ "5NM")

Model	MY	System	ECU Part Number	ROM ID	
				OLD	NEW
NX4a	2022	ECU	39110-2S161	NADWN5GMFXXXXJ1A NADWN5GMFXXXXJ1B	NADWN5GMFXXXXL8B
			39110-2S162	NADWN5GMGXXXXJ1A NADWN5GMGXXXXJ1B	NADWN5GMGXXXXL8B
			39110-2S163	NADWN5GMHXXXXJ1A NADWN5GMHXXXXJ1B	NADWN5GMHXXXXL8B
			39110-2S170	NADWN5GMKXXXXJ1A NADWN5GMKXXXXJ1B	NADWN5GMKXXXXL8B
			39110-2S165	NADWN5GSFXXXXJ1A NADWN5GSFXXXXJ1B	NADWN5GSFXXXXL8B
			39110-2S166	NADWN5GSGXXXXJ1A NADWN5GSGXXXXJ1B	NADWN5GSGXXXXL8B
			39110-2S181	NADWN5GKFXXXXJ1A NADWN5GKFXXXXJ1B	NADWN5GKFXXXXL8B
			39110-2S182	NADWN5GKGXXXXJ1A NADWN5GKGXXXXJ1B	NADWN5GKGXXXXL8B
			39110-2S280	NADWN5GMFXXXXL6A NADWN5GMFXXXXL6B NADWN5GMFXXXXL8A	NADWN5GMFXXXXL8B
			39110-2S281	NADWN5GMGXXXXL6A NADWN5GMGXXXXL6B NADWN5GMGXXXXL8A	NADWN5GMGXXXXL8B
			39110-2S283	NADWN5GMHXXXXL6A NADWN5GMHXXXXL6B NADWN5GMHXXXXL8A	NADWN5GMHXXXXL8B
			39110-2S285	NADWN5GMKXXXXL6A NADWN5GMKXXXXL6B NADWN5GMKXXXXL8A	NADWN5GMKXXXXL8B
			39110-2S286	NADWN5GSFXXXXL6A NADWN5GSFXXXXL6B NADWN5GSFXXXXL8A	NADWN5GSFXXXXL8B
			39110-2S287	NADWN5GSGXXXXL6A NADWN5GSGXXXXL6B NADWN5GSGXXXXL8A	NADWN5GSGXXXXL8B
			39110-2S181	NADWN5GKFXXXXJ1A NADWN5GKFXXXXJ1B	NADWN5GKFXXXXL8B
			39110-2S182	NADWN5GKGXXXXJ1A NADWN5GKGXXXXJ1B	NADWN5GKGXXXXL8B
			39110-2S280	NADWN5GMFXXXXL6A NADWN5GMFXXXXL6B NADWN5GMFXXXXL8A	NADWN5GMFXXXXL8B
			39110-2S281	NADWN5GMGXXXXL6A NADWN5GMGXXXXL6B NADWN5GMGXXXXL8A	NADWN5GMGXXXXL8B
			39110-2S283	NADWN5GMHXXXXL6A NADWN5GMHXXXXL6B NADWN5GMHXXXXL8A	NADWN5GMHXXXXL8B



**ROM ID Information Table: Event 1033 (Continued) (ECU for VINs starting w/ "5NM")**

Model	MY	System	ECU Part Number	ROM ID	
				OLD	NEW
NX4a	2022	ECU	39110-2S285	NADWN5GMKXXXXL6A NADWN5GMKXXXXL6B NADWN5GMKXXXXL8A	NADWN5GMKXXXXL8B
			39110-2S286	NADWN5GSFXXXXL6A NADWN5GSFXXXXL6B NADWN5GSFXXXXL8A	NADWN5GSFXXXXL8B
			39110-2S287	NADWN5GSGXXXXL6A NADWN5GSGXXXXL6B NADWN5GSGXXXXL8A	NADWN5GSGXXXXL8B
			39110-2S292	NADWN5GKFXXXXL6A NADWN5GKFXXXXL6B NADWN5GKFXXXXL8A	NADWN5GKFXXXXL8B
			39110-2S293	NADWN5GKGXXXXL6A NADWN5GKGXXXXL6B NADWN5GKGXXXXL8A	NADWN5GKGXXXXL8B
	2023		39110-2S310	NAEVN5GMFXXXXM0A NAEVN5GMFXXXXM1A	NAEVN5GMFXXXXM1B
			39110-2S311	NAEVN5GMGXXXXM0A NAEVN5GMGXXXXM1A	NAEVN5GMGXXXXM1B
			39110-2S313	NAEVN5GMHXXXXM0A NAEVN5GMHXXXXM1A	NAEVN5GMHXXXXM1B
			39110-2S315	NAEVN5GMKXXXXM0A NAEVN5GMKXXXXM1A	NAEVN5GMKXXXXM1B
			39110-2S316	NAEVN5GKFXXXXM0A NAEVN5GKFXXXXM1A	NAEVN5GKFXXXXM1B
	2024		39110-2S317	NAEVN5GKGXXXXM0A NAEVN5GKGXXXXM1A	NAEVN5GKGXXXXM1B
			39110-2S336	NAFVN5GMFXXXXM1B	NAFVN5GMFXXXXM1C
			39110-2S337	NAFVN5GMGXXXXM1B	NAFVN5GMGXXXXM1C
			39110-2S339	NAFVN5GMHXXXXM1B	NAFVN5GMHXXXXM1C
			39110-2S341	NAFVN5GMKXXXXM1B	NAFVN5GMKXXXXM1C
			39110-2S342	NAFVN5GKFXXXXM1B	NAFVN5GKFXXXXM1C
			39110-2S343	NAFVN5GKGXXXXM1B	NAFVN5GKGXXXXM1C
			39110-2S336	NAFVN5GMFXXXXM1B	NAFVN5GMFXXXXM1C
			39110-2S337	NAFVN5GMGXXXXM1B	NAFVN5GMGXXXXM1C
			39110-2S339	NAFVN5GMHXXXXM1B	NAFVN5GMHXXXXM1C
39110-2S341	NAFVN5GMKXXXXM1B	NAFVN5GMKXXXXM1C			
39110-2S342	NAFVN5GKFXXXXM1B	NAFVN5GKFXXXXM1C			
39110-2S343	NAFVN5GKGXXXXM1B	NAFVN5GKGXXXXM1C			

**ROM ID Information Table: Event 1034 (22MY ONLY – TCU for VINs starting w/ “5NM”)**

Model	MY	System	ECU Part Number	ROM ID	
				OLD	NEW
NX4a	2022	TCU	39110-2S161	TNX4G25X0XSC1SS2	TNX4G25X0XSC3SS4
			39110-2S162	TNX4G25X0XSC1SS2	TNX4G25X0XSC3SS4
			39110-2S163	SNX4G25X0XSC1SS2	SNX4G25X0XSC3SS4
			39110-2S170	SNX4G25X4XSC1SS2	SNX4G25X4XSC3SS4
			39110-2S165	TNX4G25X0XSC1SS2	TNX4G25X0XSC3SS4
			39110-2S166	TNX4G25X0XSC1SS2	TNX4G25X0XSC3SS4
			39110-2S181	TNX4G25X0XSC1SS2	TNX4G25X0XSC3SS4
			39110-2S182	TNX4G25X0XSC1SS2	TNX4G25X0XSC3SS4

**Manual Mode Password: Event 1031 (ECU for VINs starting w/ “KMH”)**

ECM Menu	Password
NX4 22MY THETA3 2.5GDI ECU 39110-2S105	5012
NX4 22MY THETA3 2.5GDI ECU 39110-2S107	7012
NX4 22MY THETA3 2.5GDI ECU 39110-2S119	9112
NX4 22MY THETA3 2.5GDI ECU 39110-2S113	3112
NX4 22MY THETA3 2.5GDI ECU 39110-2S116	6112
NX4 22MY THETA3 2.5GDI ECU 39110-2S262	2622
NX4 22MY THETA3 2.5GDI ECU 39110-2S263	3622
NX4 22MY THETA3 2.5GDI ECU 39110-2S264	4622
NX4 22MY THETA3 2.5GDI ECU 39110-2S266	6622
NX4 22MY THETA3 2.5GDI ECU 39110-2S269	9622
NX4 23MY THETA3 2.5GDI ECU 39110-2S302	2032
NX4 23MY THETA3 2.5GDI ECU 39110-2S303	3032
NX4 23MY THETA3 2.5GDI ECU 39110-2S304	4032
NX4 23MY THETA3 2.5GDI ECU 39110-2S307	7032
NX4 24MY THETA3 2.5GDI ECU 39110-2S328	8232
NX4 24MY THETA3 2.5GDI ECU 39110-2S329	9232
NX4 24MY THETA3 2.5GDI ECU 39110-2S330	0332
NX4 24MY THETA3 2.5GDI ECU 39110-2S333	3332

**Manual Mode Password: Event 1032 (22MY ONLY – TCU for VINs starting w/ “KMH”)**

TCU Menu	Password
NX4 22MY THETA3 2.5GDI TCU 39110-2S105/19/13	9105
NX4 22MY THETA3 2.5GDI TCU 39110-2S107	9107
NX4 22MY THETA3 2.5GDI TCU 39110-2S115	9115
NX4 22MY THETA3 2.5GDI TCU 39110-2S116	9116



**Manual Mode Password: Event 1033 (Continued) (ECU for VINs starting w/ "5NM")**

ECM Menu	Password
NX4a 22MY THETA3 2.5GDI ECU 39110-2S161/280	1612
NX4a 22MY THETA3 2.5GDI ECU 39110-2S162/281	2612
NX4a 22MY THETA3 2.5GDI ECU 39110-2S163/283	3612
NX4a 22MY THETA3 2.5GDI ECU 39110-2S170/285	0712
NX4a 22MY THETA3 2.5GDI ECU 39110-2S165/286	5612
NX4a 22MY THETA3 2.5GDI ECU 39110-2S166/287	6612
NX4a 22MY THETA3 2.5GDI ECU 39110-2S181/292	1812
NX4a 22MY THETA3 2.5GDI ECU 39110-2S182/293	2812
NX4a 23MY THETA3 2.5GDI ECU 39110-2S310	2310
NX4a 23MY THETA3 2.5GDI ECU 39110-2S311	2311
NX4a 23MY THETA3 2.5GDI ECU 39110-2S313	3132
NX4a 23MY THETA3 2.5GDI ECU 39110-2S315	2315
NX4a 23MY THETA3 2.5GDI ECU 39110-2S316	2316
NX4a 23MY THETA3 2.5GDI ECU 39110-2S317	2317
NX4a 24MY THETA3 2.5GDI ECU 39110-2S339	2339
NX4a 24MY THETA3 2.5GDI ECU 39110-2S341	2341
NX4a 24MY THETA3 2.5GDI ECU 39110-2S342	2342
NX4a 24MY THETA3 2.5GDI ECU 39110-2S343	2343

**Manual Mode Password: Event 1034 (22MY ONLY – TCU for VINs starting w/ "5NM")**

TCU Menu	Password
NX4a 22MY THETA3 2.5GDI TCU 39110-2S161/62/65/66/81/82	9061
NX4a 22MY THETA3 2.5GDI TCU 39110-2S169/75/83	9069
NX4a 22MY THETA3 2.5GDI TCU 39110-2S163/64/67/68/84/85	9163
NX4a 22MY THETA3 2.5GDI TCU 39110-2S170/76/86	9170