SUBJECT:	MDPS ANTI-SHIMMY LOGIC UPDATE

Description: Certain 2022MY Tucson (NX4A) vehicles may exhibit a steering wheel shimmy at highway speeds not related to tire balance nor radial force variation (RFV). This bulletin describes the procedure to update the anti-shimmy logic in the Motor Driven Power Steering (MDPS) ECU.

Applicable Vehicles:
- Certain 2022MY Tucson (NX4A, VINs starting with '5NM') vehicles produced from February 3, 2021 to December 6, 2021.

GDS Information:

System Selection: **MDPS**

Event #	Description
814	NX4A STEERING WHEEL VIBRATION IMPROVEMENT W/O BRAKING

Warranty Information:

MODEL	OP CODE	OPERATION	OP TIME	CAUSAL PART	NATURE CODE	CAUSE CODE
Tucson (NX4A)	56300F29	MDPS UPGRADE	0.3 M/H	56370-N9000	I3T	ZZ3

NOTE: Normal Warranty Applies

> **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.

⚠️**WARNING**

GDS-M Vehicle Battery Low Voltage Warning:
When the vehicle battery is lower than 12 volts, the GDS-M will trigger a Low Battery Voltage Warning. If this Warning occurs,
A. Connect the battery to a fully charged battery jump pack or GR8 charger using "Power Supply Mode" to continue the software update.
OR
B. Select "BACK" to exit the SW update. Then, start the engine and idle with the headlights on for 20 minutes. Return to the SW update after charging the battery.

Notice	↵
⚠️	Warning! lower Battery Voltage. BATTERY VOLTAGE: 11.7

Service Procedure:

1. Perform GDS software update:

    • Refer to TSB **15-GI-001** for the detailed tablet-based Mobile GDS ECU update procedures.

2. Check for Diagnostic Trouble Codes in the **ALL** menus and erase any DTC.

3. Confirm normal vehicle operation.

ROM ID Table:

MODEL	SYSTEM	PART NUMBER	ROM ID	
			OLD	NEW
NX4A	MDPS	56370-N9000	56370-N9000 1.00 1.02	56300-N9100 1.00 1.00
			56370-N9000 1.00 1.03	

Manual Mode Password:

MENU	PASSWORD
NX4A MDPS 56370-N9000	9100