

 **HYUNDAI**  
**Technical Service Bulletin**

GROUP <b>RECALL</b>	NUMBER <b>24-01-048H</b>
DATE <b>JUNE 2024</b>	MODEL(S) <b>TUCSON (NX4A) SANTA CRUZ (NXT)</b>

**SUBJECT:** MOTOR DRIVEN POWER STEERING  
POWER PACK REPLACEMENT  
(RECALL 261)

**\* IMPORTANT**

Vehicle repairs related to safety recalls are critically important and must be performed properly in accordance with TSB procedures. Review this bulletin in its entirety prior to beginning any repair work.

As required by federal law, dealers must not deliver new vehicles for sale or for lease to customers until all open recalls have been performed. Dealers must also perform all open recalls on used vehicles, demo, and rental vehicles prior to placing them into customer use and whenever an affected vehicle is in the shop for any maintenance or repair.

Access the “Vehicle Information” screen via WebDCS to identify open recalls.

**Description:** The motor-driven power steering (MDPS) assembly in certain Tucson (NX4A) and Santa Cruz (NXT) vehicles might contain a printed circuit board (PCB) inside the Electric Power Pack that was assembled with contaminated flux during supplier manufacturing, increasing the risk of an electrical short. A short on the PCB controller could lead to a malfunction of the MDPS assembly, resulting in MIL illumination and loss of power steering assist during vehicle operation. Follow the information in this bulletin to replace the Electric Power Pack.



**Applicable Vehicles (Certain):**

- 2024MY Tucson (NX4A) produced from 04/29/2024 – 05/06/2024
- 2024MY Santa Cruz (NXT) produced from 04/29/2024 – 05/21/2024

**Parts Information:**

Model	Part Name	New Part Number	Remarks
Tucson (NX4A)	Power Pack - Electric	56370-CW110QQH	QTY: 1
Santa Cruz (NXT)		56370-K5000QQH	QTY: 1
Tucson (NX4A) Santa Cruz (NXT)	Steering Wheel Bolt	56115-B1000	QTY: 1 Must use a new bolt during steering wheel reinstallation

**Warranty Information:**

Model	Op. Code	Operation	Op. Time	Casual Part	Nature Code	Cause Code
Tucson (NX4A)	41DA05R0	Electric Power Pack Replacement	1.2 M/H	56370-CW110	W11	ZZ3
Santa Cruz (NXT)	41DA05R1			56370-K5000		

**NOTE 1:** Submit claim on Claim Entry Screen as “Campaign” type.

**NOTE 2:** If a part is found in need of replacement while performing this recall 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 3:** This TSB includes Repair validation photos. Op times include VIN, Mileage, and Repair validation photo(s) as outlined in the Digital Documentation Policy.

**NOTE 4:** 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.**

## Service Procedure:

**STUI**

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

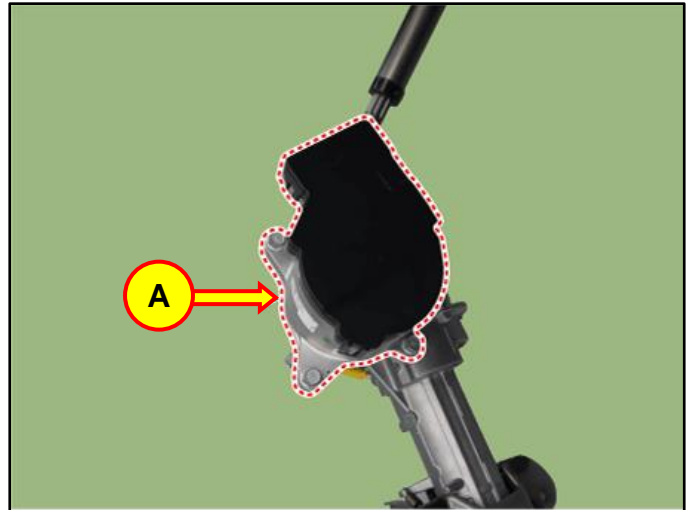
**Information**

Refer to the QR code or link below for guided video information:

<https://vimeo.com/956231243/c62ffd72bc>

**Power Pack Replacement**

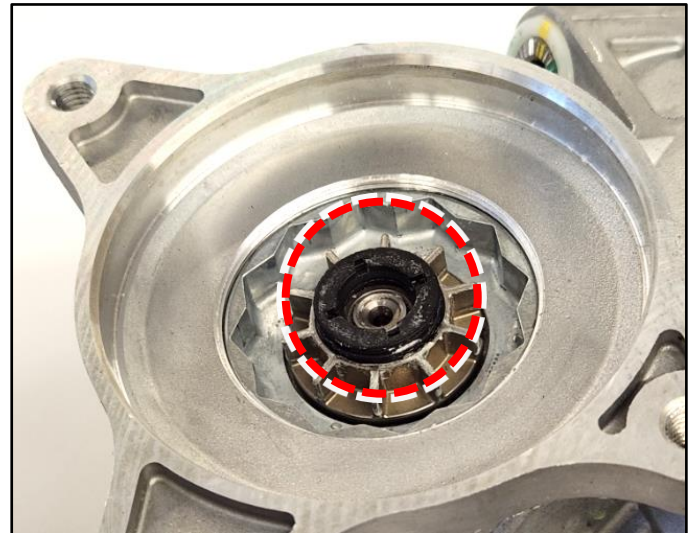
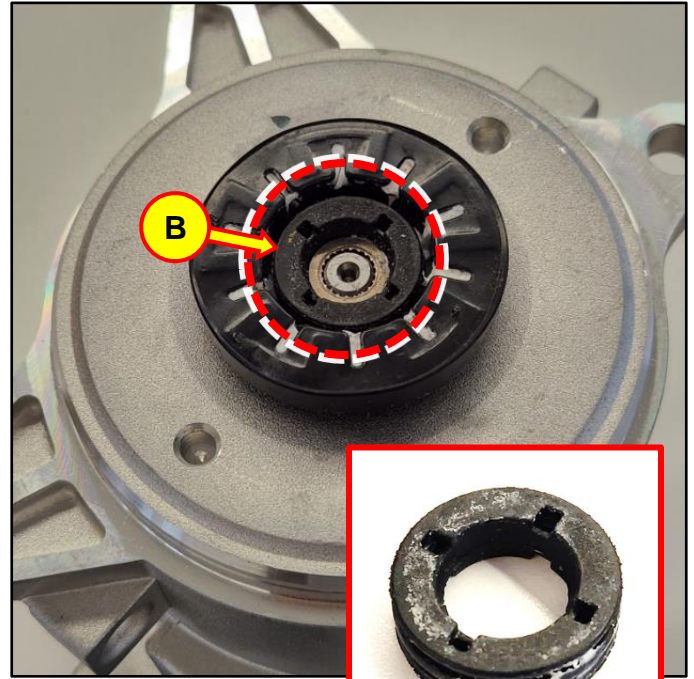
1. Refer to the shop manual to remove the power pack (A):
  - **Steering System > Motor Driven Power Steering > MDPS PowerPack Assembly > Repair procedures**



**NOTICE**

An axial damper (B) is included on the new power pack.

Remove and discard the old axial damper from the steering column before installing the new power pack.



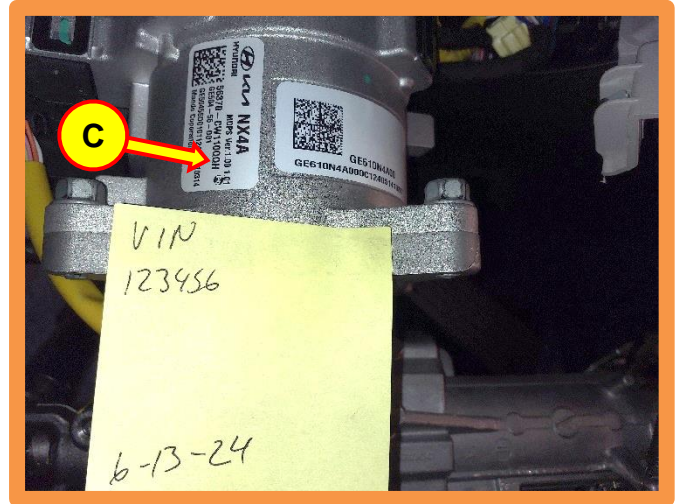
- After installation of the new power pack, take a STUI photo.

**STUI**



Using STUI, take a photo of the newly installed power pack with the last 6 digits of the VIN and the date of repair on a piece of paper and the QQH part label (C) clearly shown.

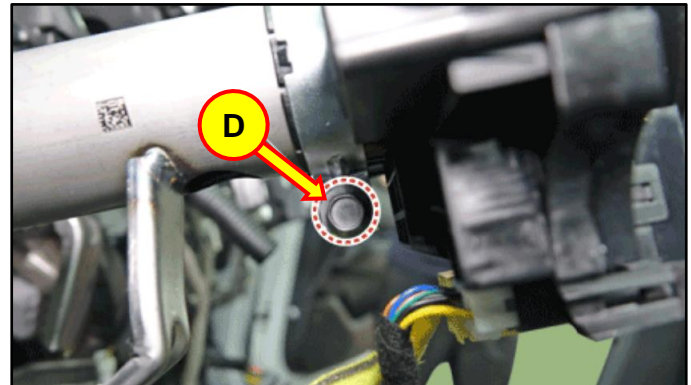
Upload the photo to STUI.



- Continue to follow the shop manual to reinstall removed parts:
  - Steering System > Motor Driven Power Steering > MDPS PowerPack Assembly > Repair procedures**

**Multifunction Switch Clamp Bolt (D)  
Tightening Torque:**

lb-ft	4.1
lb-in	49
N.m	5.5



**NOTICE**

Use a new steering wheel bolt (E) when reinstalling the steering wheel.

**Steering Wheel Bolt Tightening Torque:**

lb-ft	34
N.m	47



- Perform the EPS Type Recognition and then the Steering Angle Sensor (SAS) Calibration from S/W Management in GDS Smart.

**NOTICE**

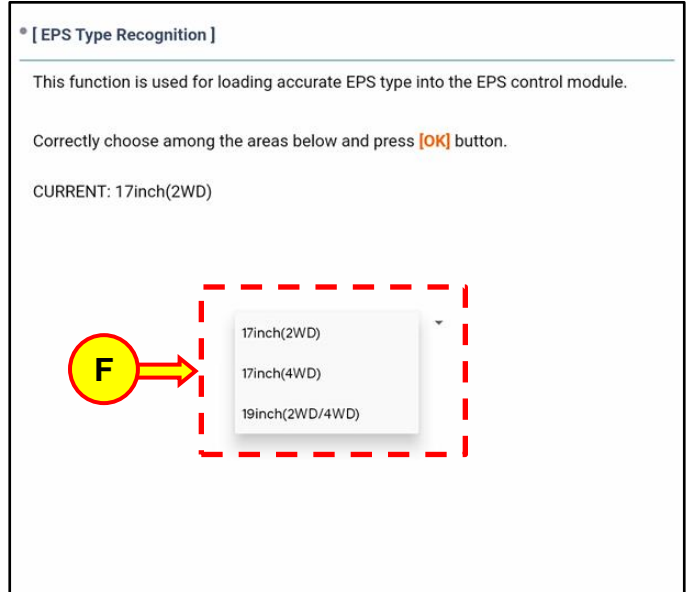
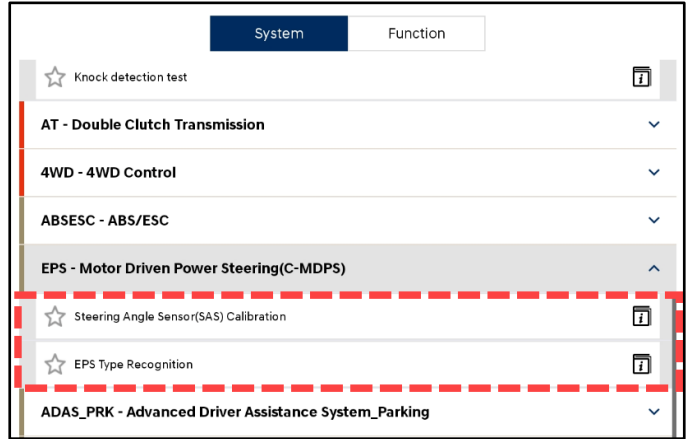
Turn the steering wheel to the straight ahead position before performing the EPS Type Recognition and Steering Angle Sensor (SAS) Calibration.

**EPS Type Recognition**

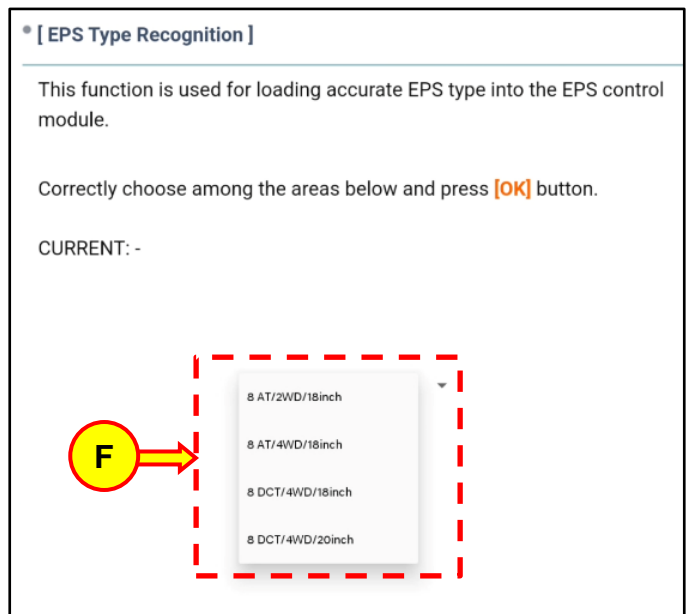
Follow the prompts to complete the recognition.

**NOTICE**

Ensure the correct wheel diameter is selected (F) during EPS Type Recognition.



Tuscon



Santa Cruz

**Steering Angle Sensor (SAS) Calibration**

Follow the prompts to complete the calibration.

5. The procedure is now complete.