

 **HYUNDAI**
Technical Service Bulletin

GROUP RECALL	NUMBER 24-01-024H
DATE MARCH 2024	MODEL(S) IONIQ 5 (NE1) IONIQ 6 (CE1)

SUBJECT: INNER SHAFT REPLACEMENT
(RECALL 253)

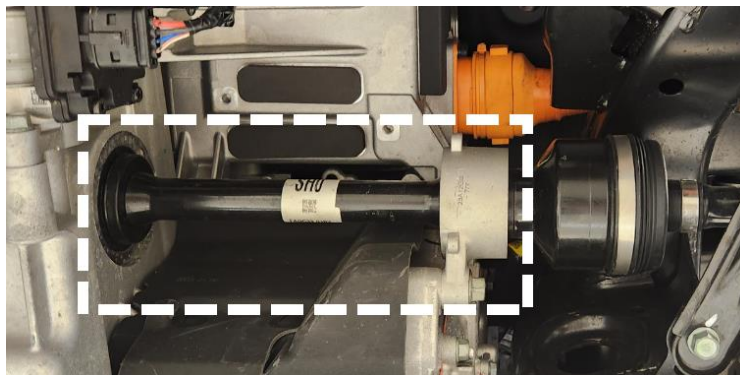
*** IMPORTANT**

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: Certain 2023MY IONIQ 5 (NE1) and IONIQ 6 (CE1) may contain rear inner shafts that could fracture due to improper heat treatment. A fractured inner shaft may result in a loss of motive power while driving, increasing the risk of injury in a crash or impact. Follow the procedures in this TSB to replace the inner shaft.






Applicable Vehicles (Certain):

- 2023MY IONIQ 5 (NE1) produced 01/31/2023 – 02/27/2023
- 2023MY IONIQ 6 (CE1) produced 01/26/2023 – 03/06/2023

NOTICE

To avoid any potential damage to IONIQ vehicles, this recall campaign can only be performed at IONIQ certified dealers.

Parts Information:

Model	Part Name	Part Number	Figure	Remarks
IONIQ 5 (NE1) IONIQ 6 (CE1)	Inner shaft (Bearing Bracket & Shaft Assembly)	49560- GI000QQH		Circlip included 
	Caliper Carrier Mounting Bolt	51735- C1200QQH		Order 2 for each vehicle New bolts must be used during reassembly

Warranty Information:

Model	Op. Code	Operation	Op. Time	Causal Part	Nature Code	Cause Code
IONIQ 5 (NE1)	41D022R0	Inner Shaft Replacement	1.0 M/H	49560-GI000	D32	ZZ4
IONIQ 6 (CE1)	41D022R1					

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.

i Information

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

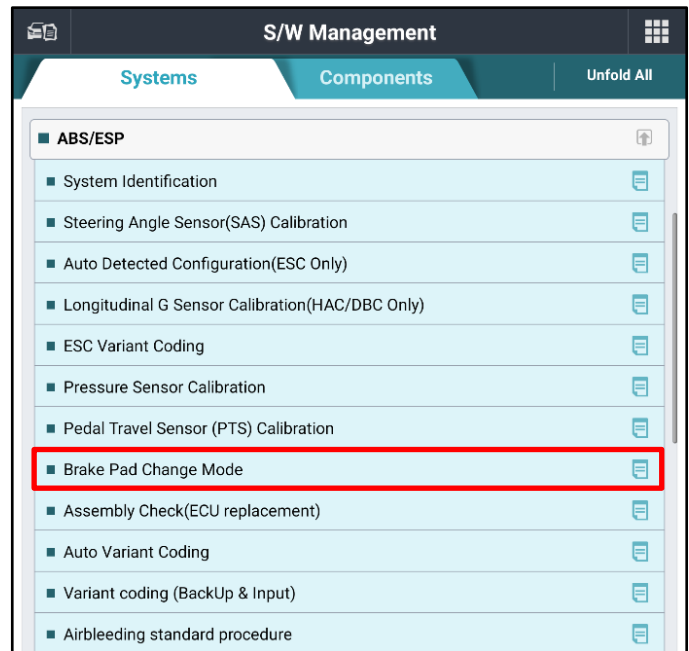
<https://vimeo.com/924760520/32212ff156>

**Inner Shaft Replacement**

1. Disable the Electronic Parking Brake (EPB) with the GDS tablet by selecting:

**S/W Management >
ABS/ESP > Brake Pad Change Mode**

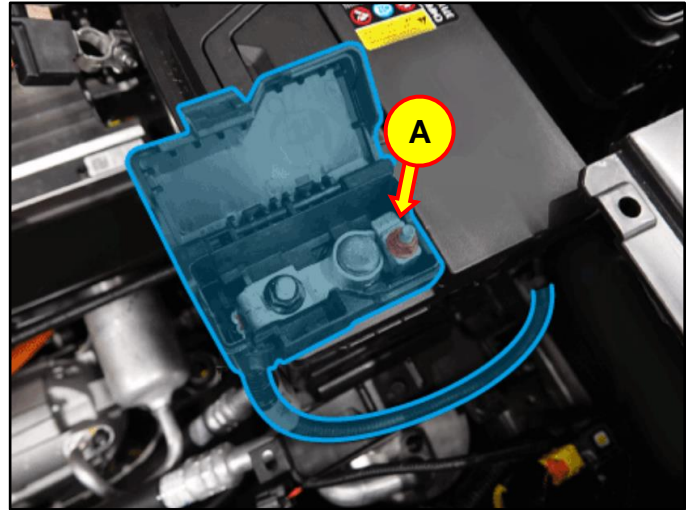
Follow the instructions on the GDS tablet.



2. Disconnect the 12V battery positive (+) terminal (A).

Tightening Torque – Battery Cable:

lb-ft	6.5
N.m	8.8



3. Remove driver's side rear wheel.

Tightening Torque – Lug Bolts:

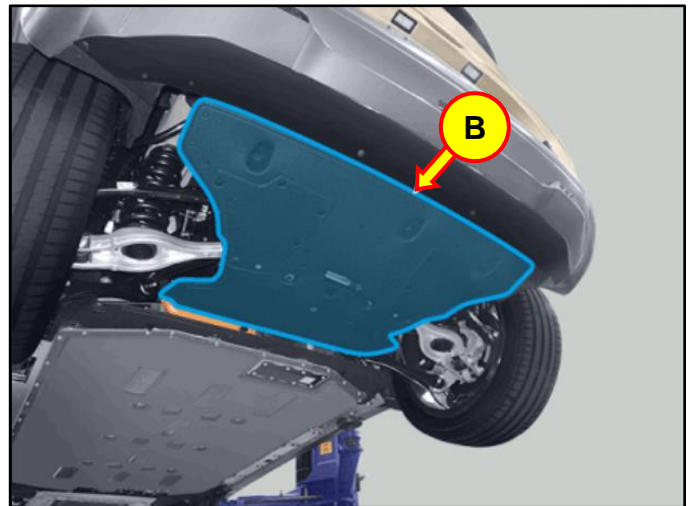
lb-ft	109
N.m	147



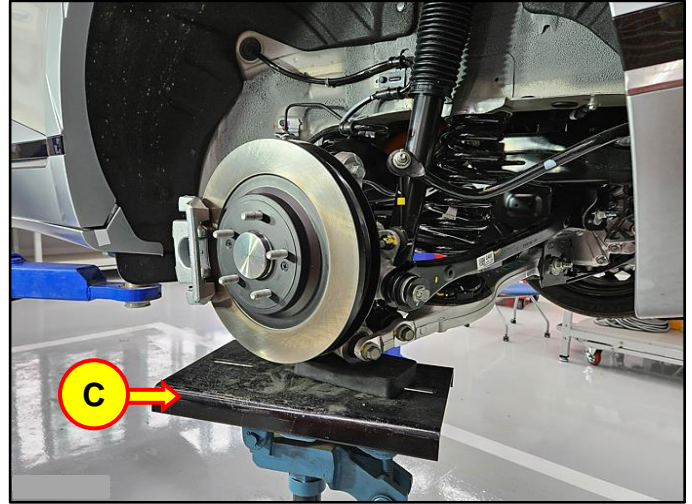
4. Remove the rear under cover (B).

Tightening Torque – Under Cover Nuts/Bolts:

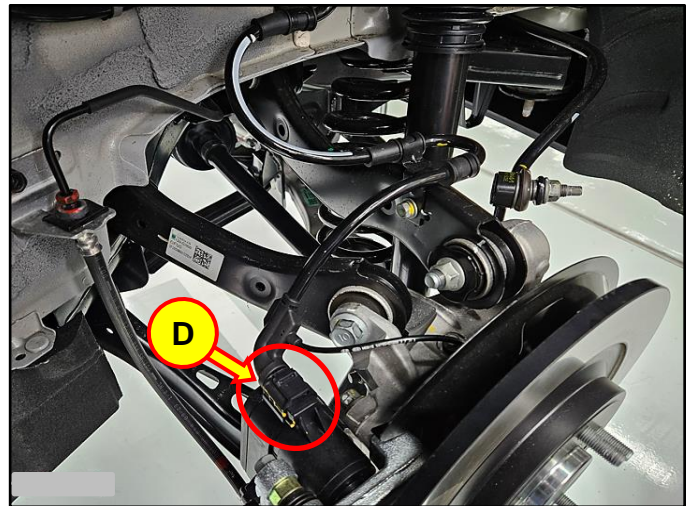
lb-ft	7.3
N.m	9.8



5. Use a jack to support the suspension arm assembly (C).



6. Disconnect the EPB actuator connector (D).



7. Remove the bolts to remove the wheel speed sensor (E) from the carrier and the wheel speed sensor harness bracket (F).

Tightening Torque – Wheel Speed Sensor Bolt:

lb-ft	8.3
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N.m	11
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Tightening Torque – CE1 Wheel Speed Sensor Harness Bracket Bolt:

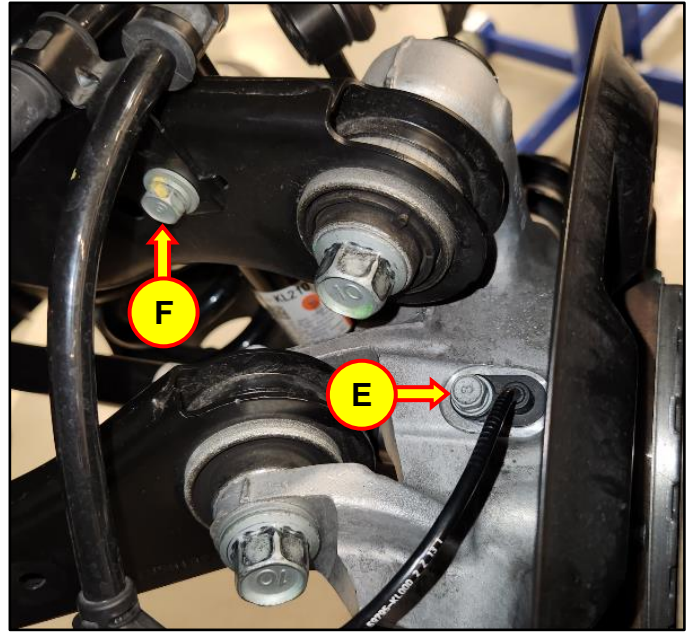
lb-ft	18
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N.m	25
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Tightening Torque – NE1 Wheel Speed Sensor Harness Bracket Bolt:

lb-ft	8.3
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N.m	11
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8. Remove bolts (G) to remove the brake caliper assembly from the carrier.

Tightening Torque – CE1 Caliper Carrier Mounting Bolts:

lb-ft	80
N.m	108

Tightening Torque – NE1 Caliper Carrier Mounting Bolts:

lb-ft	65
N.m	88

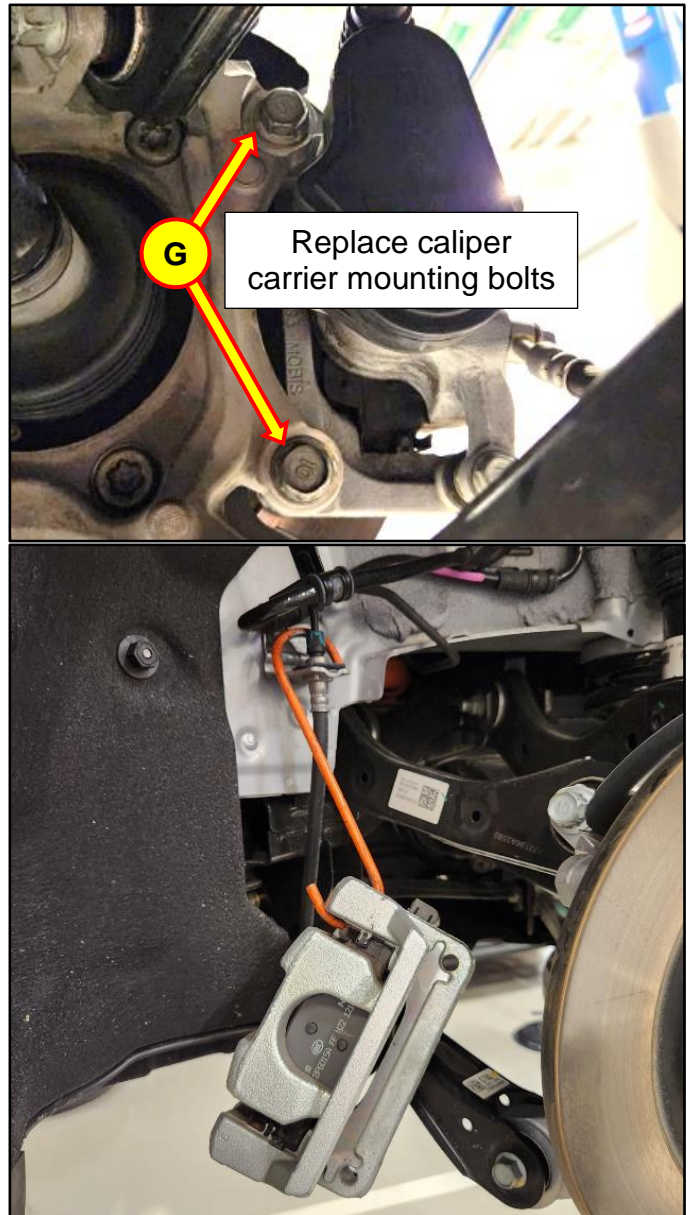
CAUTION

New caliper mounting bolts must be used during reassembly.

Part number: 51735-C1200QQH

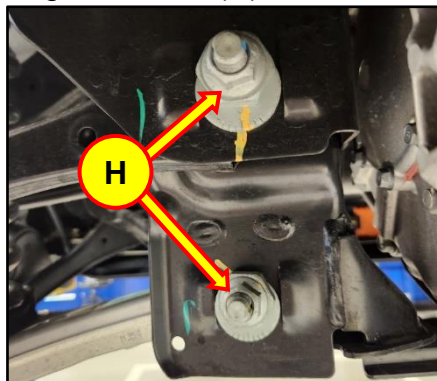
NOTICE

Secure the brake caliper. Do **NOT** suspend the brake caliper by the brake hose.



i Information

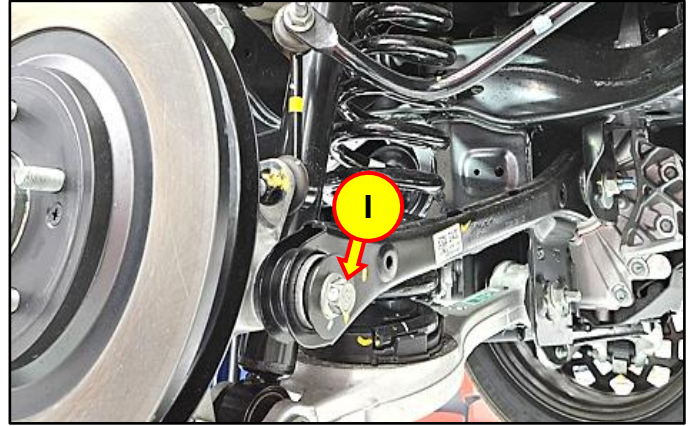
Do not touch the alignment setting cam bolts (H) for the rear suspension during the repair.



9. Remove the bolt (I) to remove the assist arm from the carrier.

Tightening Torque – Assist Arm Bolt:

lb-ft	95
N.m	128

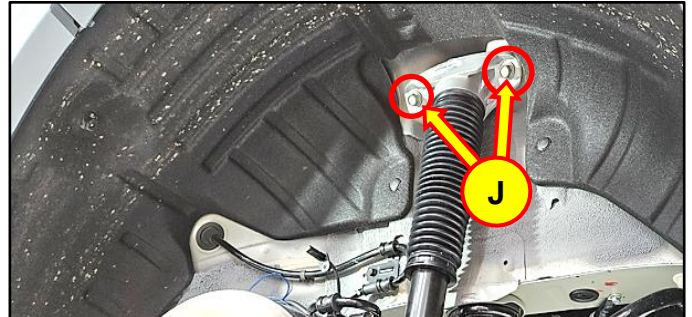


10. Remove the shock absorber assembly from the vehicle.

Remove the bolts (J) to remove the upper shock insulator from the body.

Tightening Torque – Upper Strut Insulator to Body Bolts:

lb-ft	42
N.m	57



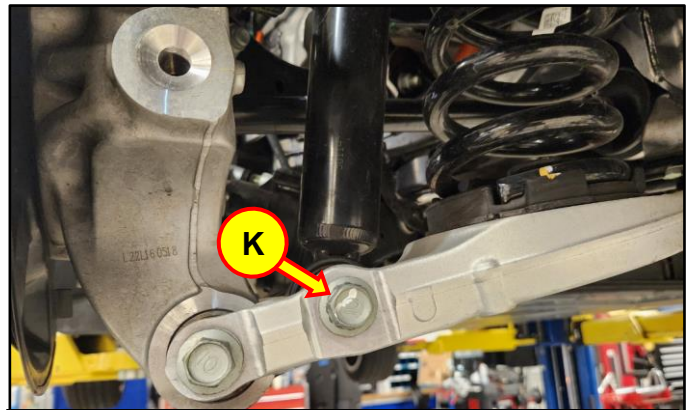
Remove the bolt (K) to remove the shock from the lower control arm.

***i* Information**

There are two different lower control arms for the NE1. Use the torque specification for each type.

Tightening Torque – Lower Shock Bolt to Aluminum Lower Control Arm:

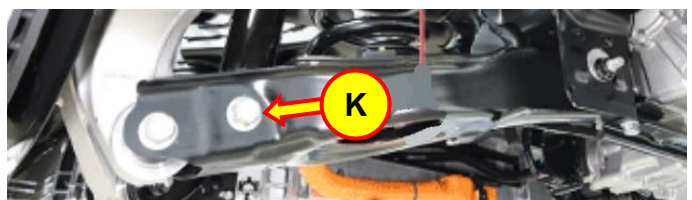
lb-ft	138
N.m	186



Example: Aluminum Lower Control Arm
CE1 and NE1

Tightening Torque – Lower Shock Bolt to Stamped Steel Lower Control Arm:

lb-ft	123
N.m	167

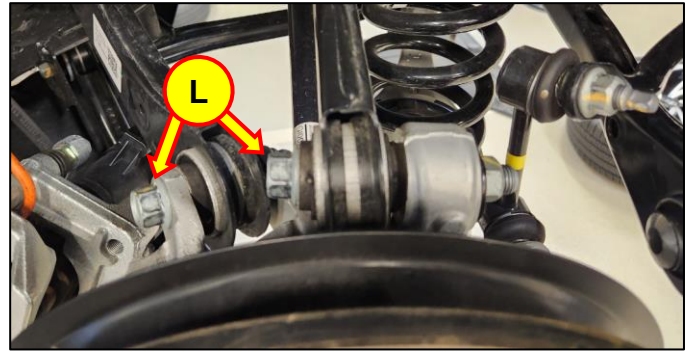


Example: Stamped Steel Lower Control Arm
NE1 Only

11. Remove the two bolts (L) to remove the upper arms from the carrier.

Tightening Torque – Upper Arm Bolts:

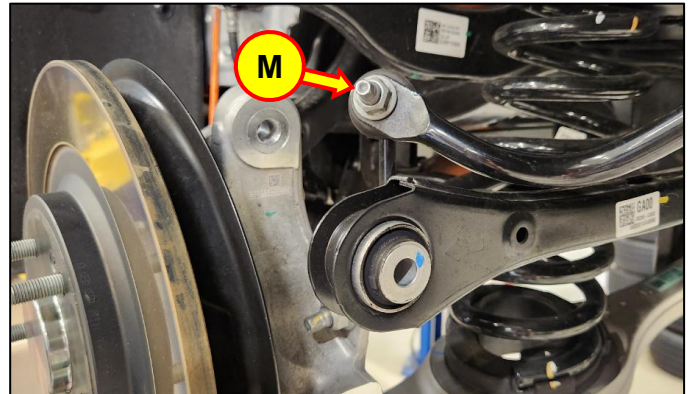
lb-ft	123
N.m	167



13. Remove the nut (M) to separate the stabilizer linkage and stabilizer bar.

Tightening Torque – Stabilizer Linkage Nut:

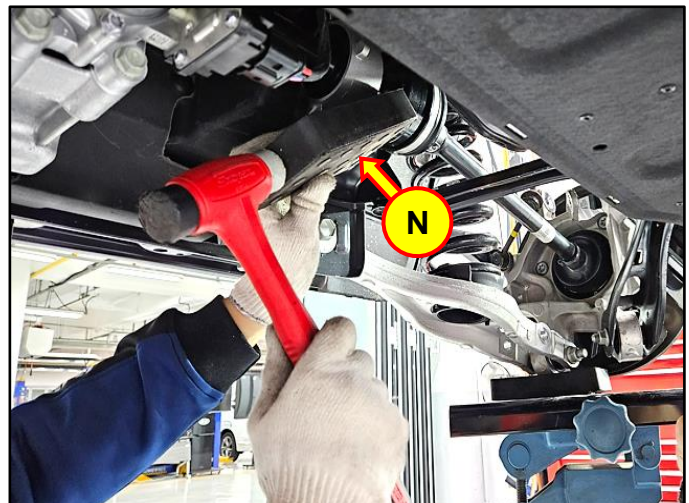
lb-ft	80
N.m	108



14. Remove the Integrated Drive Axle (IDA) from the inner shaft using a rubber or wood block (N) and rubber mallet as shown to the right.

NOTICE

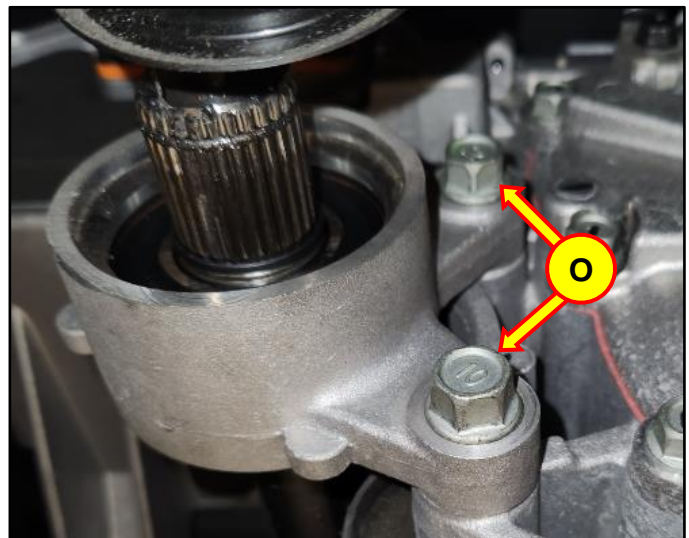
Do **NOT** use metallic tools to remove the IDA.



15. Remove the bolts (O) to remove the old inner shaft.

Inner Shaft Bracket Tightening Torque:

lb-ft	50
N.m	67



16.

STUI

Using STUI, take a photo of the new QQH inner shaft on the parts box with the part number (P) clearly visible, the original removed inner shaft next to the box, and the last 6 digits of the VIN and the date of repair on a piece of paper.

Upload the photo to STUI.



17. Install the new inner shaft.

i Information

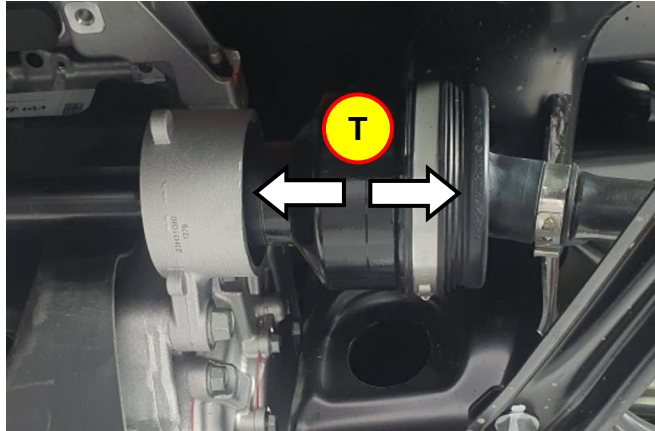
Ensure the new inner shaft is equipped with a circlip (Q).

Do **NOT** reuse the circlip from the removed inner shaft.

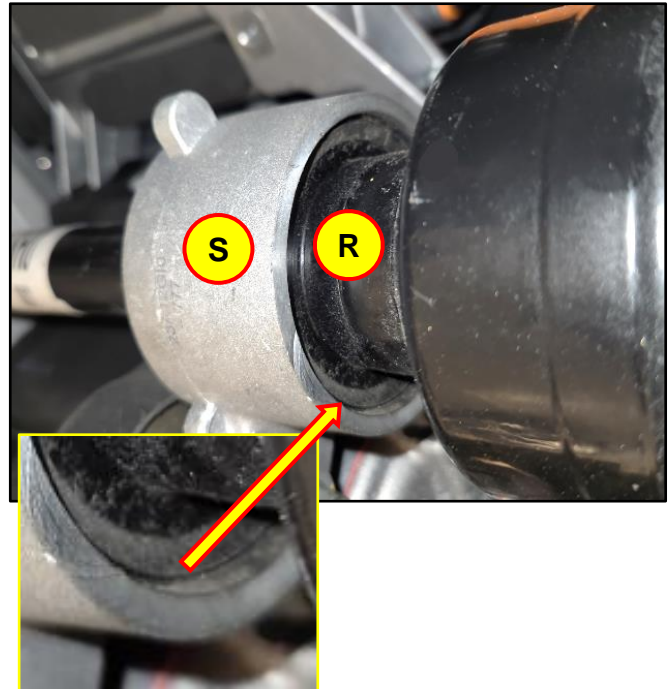


18. After installing the new inner shaft, ensure that the IDA is properly installed.

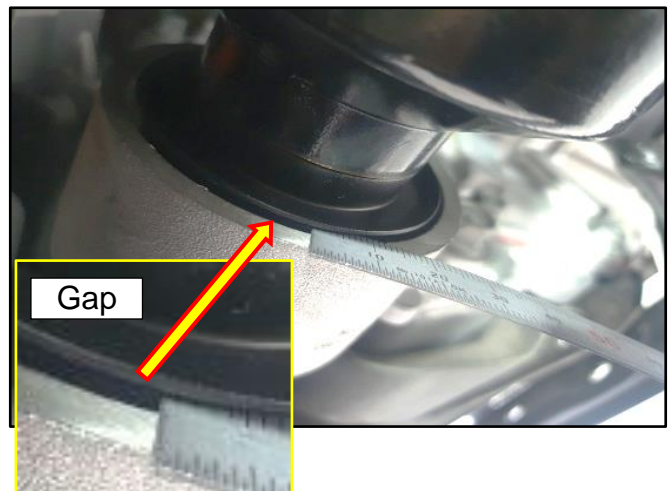
The IDA joint cup (T) should not slide back and forth on the inner shaft. The inner shaft circlip should securely retain the IDA joint cup.



GOOD: IDA dust cover (R) is fully inserted into the inner shaft bracket (S).



NOT GOOD: A gap remains between the IDA dust cover and inner shaft bracket.



19. Reinstall parts in the reverse order of the removal.

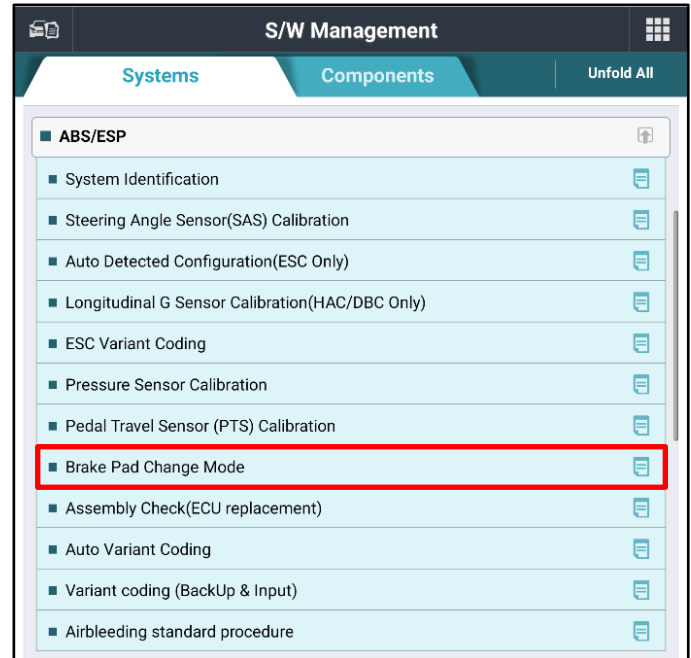
***i* Information**

Wheel alignment is **NOT** necessary after replacing the inner shaft.

20. Enable the EPB with the GDS tablet by selecting:

S/W Management > ABS/ESP > Brake Pad Change Mode

Follow the instructions on the GDS tablet.



The procedure is now complete.