

TECHNICAL INSTRUCTIONS
FOR
SAFETY RECALL G0I
BRAKE ACTUATOR ASSEMBLY INSPECTION/REPLACEMENT
CERTAIN 2016 MODEL YEAR RAV4 VEHICLES

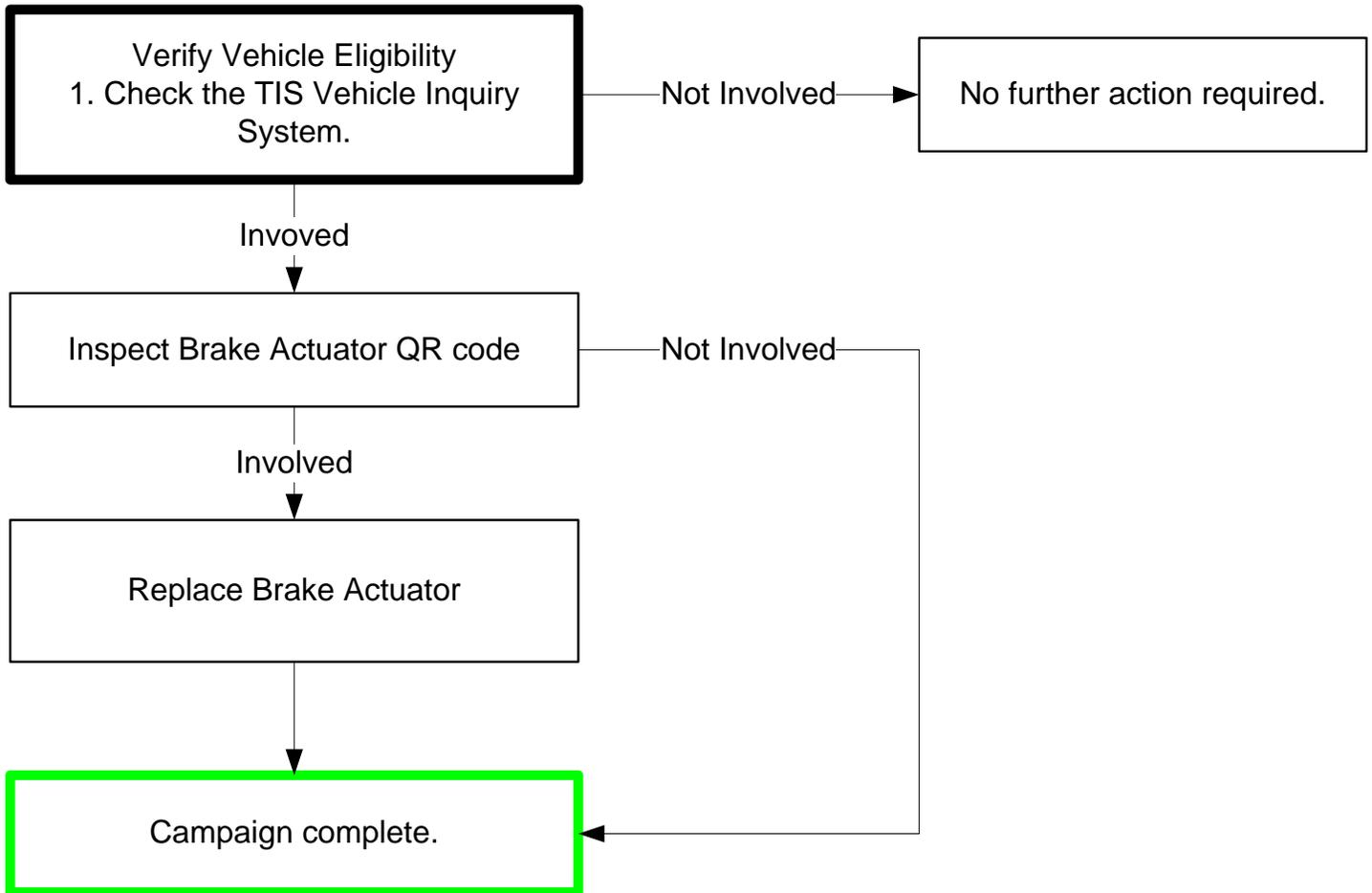
The repair quality of covered vehicles is extremely important to Toyota. All dealership technicians performing this repair are required to successfully complete the most current version of the E-Learning course “Safety Recall and Service Campaign Essentials”. To ensure that all vehicles have the repair performed correctly; technicians performing this repair are required to currently hold at least one of the following certification levels:

- Certified Technician (Chassis)
- Expert Technician (Chassis)
- Master Technician
- Master Diagnostic Technician

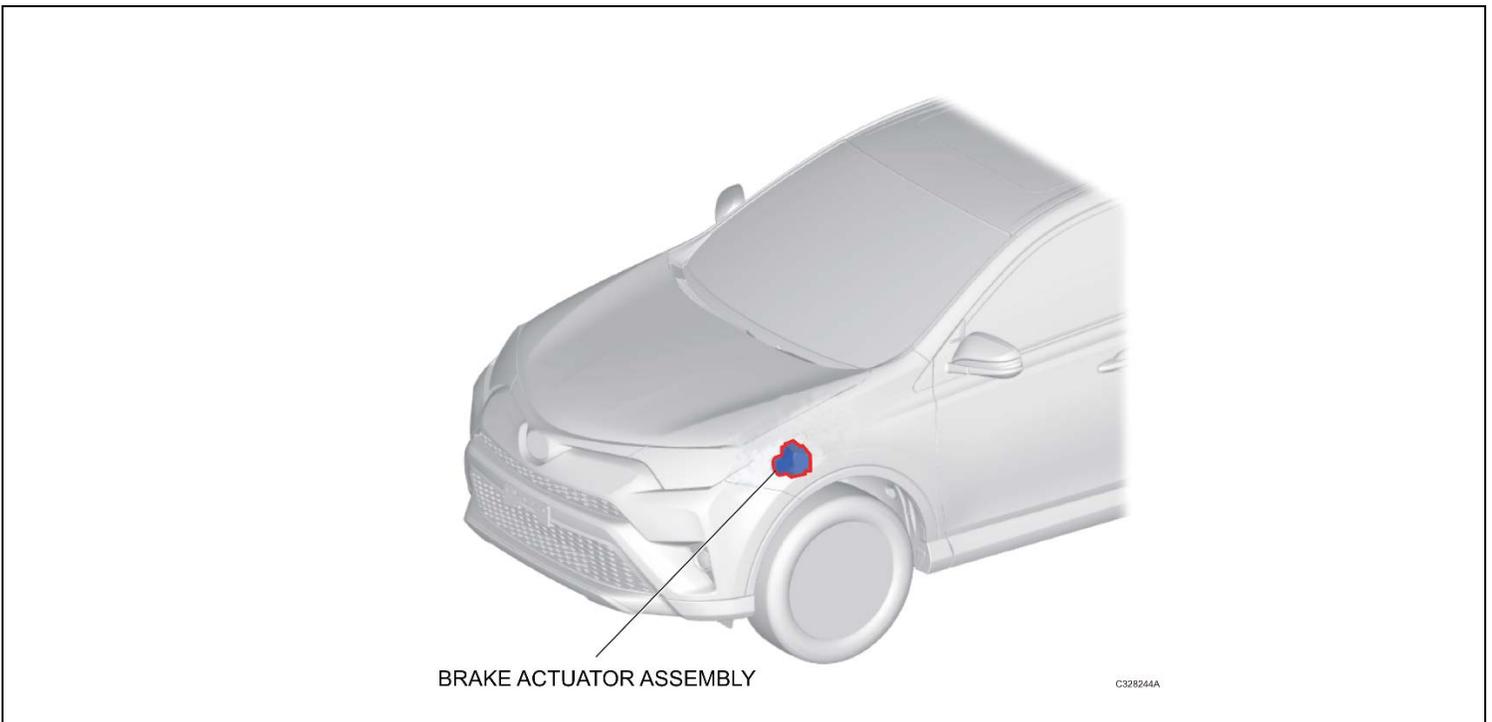
Always check which technicians can perform the recall remedy by logging on to <https://www.uotdealerreports.com>. It is the dealership’s responsibility to select technicians with the above certification level or greater to perform this repair. Carefully review your resources, the technician skill level, and ability before assigning technicians to this repair. It is important to consider technician days off and vacation schedules to ensure there are properly trained technicians available to perform this repair at all times.

I. OPERATION FLOW CHART

The flow chart is for reference only. **DO NOT** use it in place of the full technical instructions. Follow **ALL** steps as outlined in the full technical instructions to confirm the campaign is completed correctly.



II. BACKGROUND



The subject vehicles are equipped with a Brake Actuator assembly that enables enhanced brake control functions including the Anti-lock Braking System (ABS), Traction Control (TRAC), and Vehicle Stability Control (VSC), among others. There is a possibility that a component inside the actuator could have been damaged during manufacturing, preventing the actuator from operating properly. This could cause the vehicles not to comply with a portion of Federal Motor Vehicle Safety Standard (FMVSS) 126, and result in a loss of vehicle stability control, increasing the risk of crash.

In addition, other features including Electronic Brake force Distribution (EBD), Brake Assist (BA), Hill-start Assist Control (HAC), Pre-Collision System (PCS)*, Dynamic Radar Cruise Control System*, Auto Limited Slip Differential (LSD)*, and Trailer Sway Control*, may not function as designed.

III. IDENTIFICATION OF AFFECTED VEHICLES

A. COVERED VIN RANGE

- Check the TIS Vehicle Inquiry System to confirm the VIN is involved in this Safety (Noncompliance) Recall, and that the campaign has not already been completed prior to dealer shipment or by another dealer.
- TMS warranty will not reimburse dealers for repairs conducted on vehicles that are not affected or were completed by another dealer.

IV. PREPARATION

A. PARTS

Not all vehicles will require actuator replacement, confirm with vehicle inspection results.

The brake actuator assembly varies based upon vehicle options; use the Electronic Parts Catalog (EPC) to confirm the correct part for your vehicle.

B. MATERIALS

- Protective Gloves
- Paper Towels
- Fender Covers
- Vinyl Tube
- Plastic Bags
- Brake Fluid (DOT 3 or 4)

C. TOOLS & EQUIPMENT

- Techstream
- Standard Hand Tools
- Torque Wrench
- Marker Pen

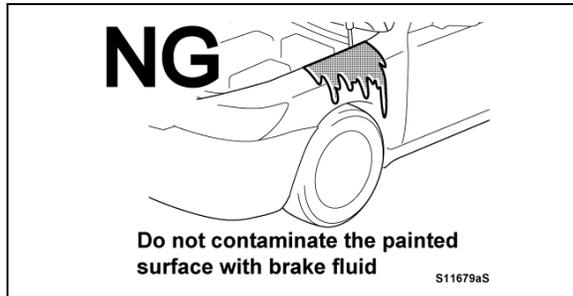
V. SAFETY PRECAUTIONS

STOP

CRITICAL INFORMATION – READ THOROUGHLY

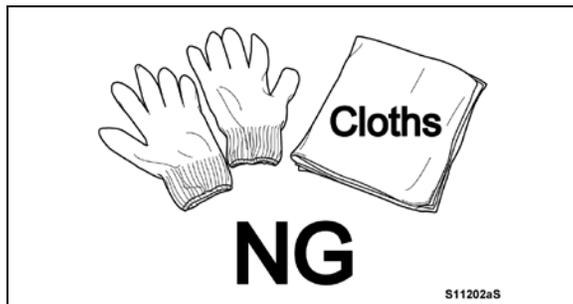
STOP

These cautions should be observed when performing this campaign. Failure to follow these cautions could result in damaged parts or inadequate repair quality.



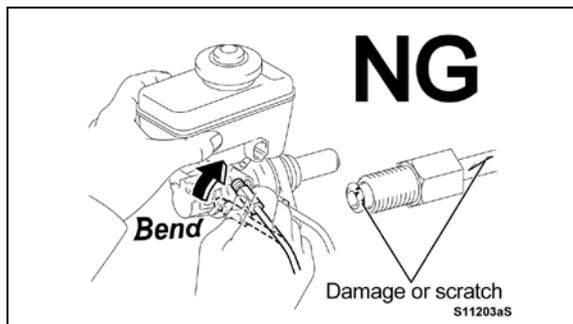
1. HANDLE BRAKE FLUID CAREFULLY

- DO NOT** allow brake fluid to contact any painted surfaces or the paint may be damaged.
- ALWAYS** use paper towels when disconnecting and reconnecting brake lines to prevent spillage.



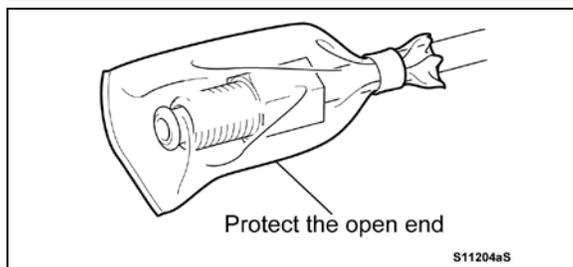
2. DO NOT USE CLOTH RAGS OR GLOVES

- DO NOT** use any fabric near the open brake system components to avoid threads and fibers from entering the braking system.



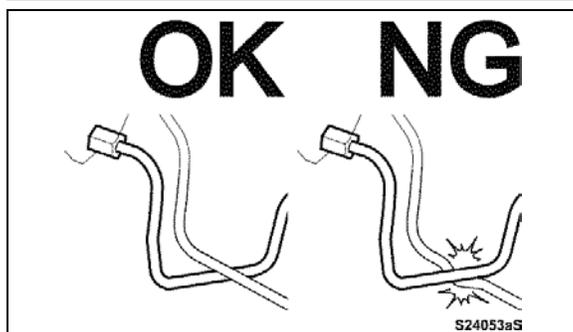
3. HANDLE THE BRAKE TUBES CAREFULLY

- DO NOT** deform or damage the brake tubes during removal or installation.



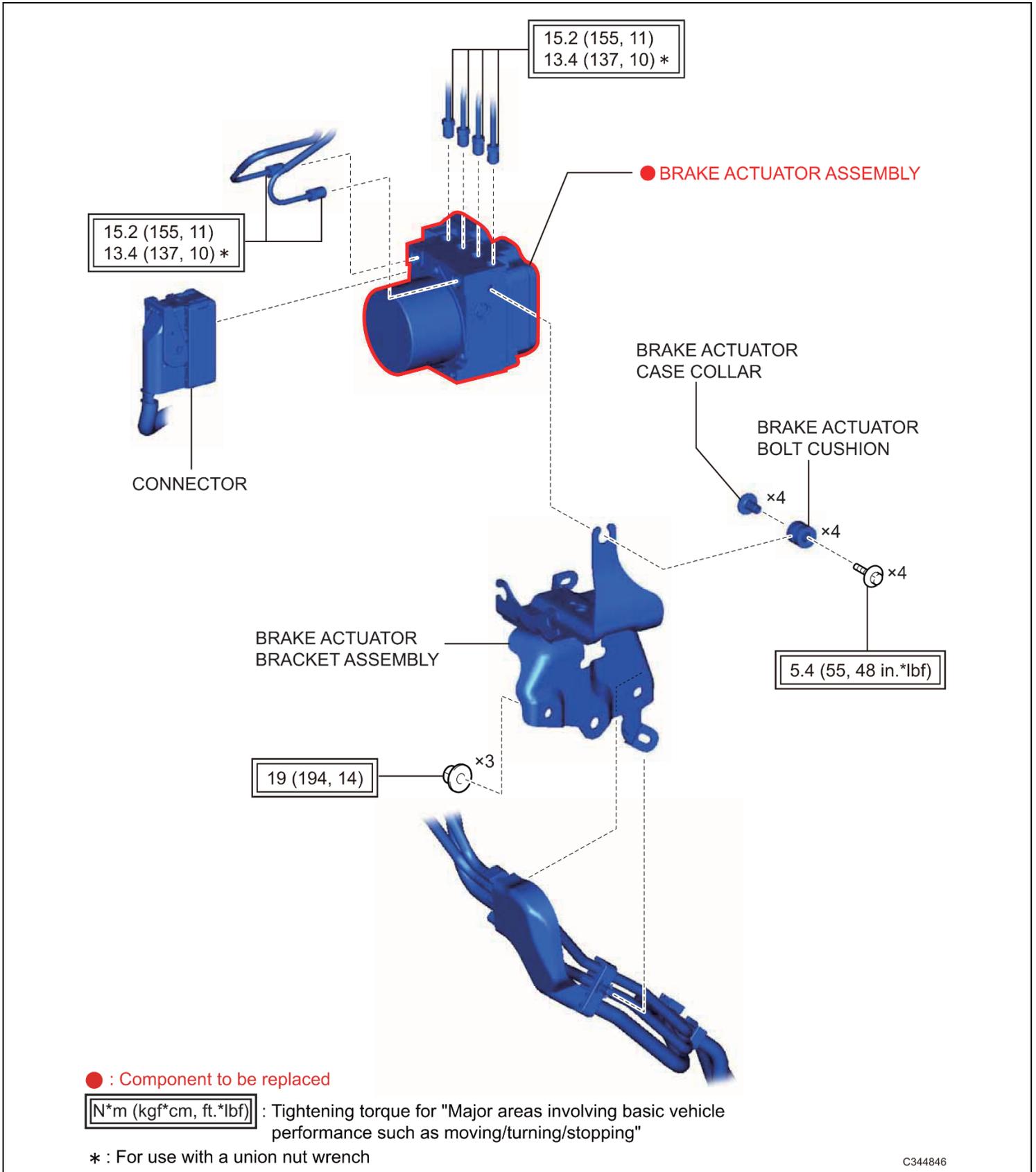
4. PROTECT THE BRAKE SYSTEM

- Clean components prior to disassembly to avoid contamination.
- Cover open components to avoid contamination.



5. DO NOT TWIST OR BEND BRAKE TUBES

VI. COMPONENTS



C344846

VII. BRAKE ACTUATOR INSPECTION

A. INSPECT THE BRAKE ACTUATOR

1. CHECK FOR DTCs



**This campaign only covers the inspection of the BRAKE ACTUATOR.
No other components in the braking system are covered by this campaign.**

- a) Using Techstream, perform a health check to confirm if there are any brake system DTCs present (current, history or pending).

NOTES:

- Ensure that the Techstream software is 11.00.017 or higher.
- On the “connect to vehicle” screen, enter the VIN number to ensure that the vehicle information is uploaded to TIS.

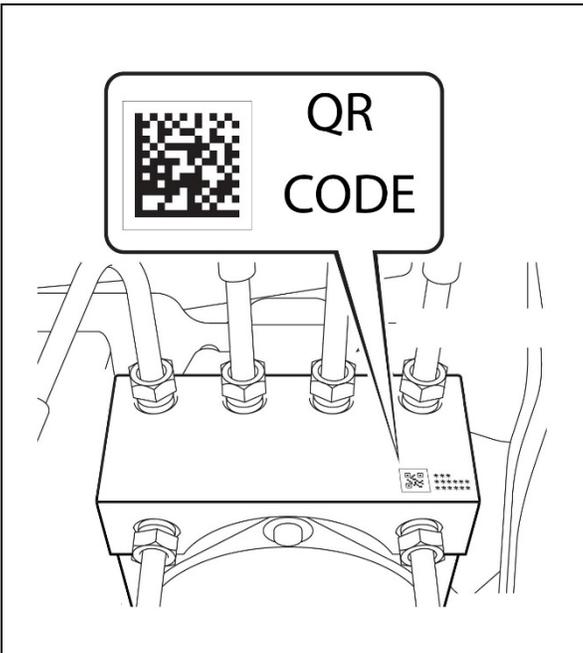


- b) Go to <https://g0i-glc-brake-actuator-validation.imagespm.info>
c) Scan the VIN on the certification label located in the left front door jam.

NOTE: All information must be scanned into the web site. Manual entry is not available.

Ensure that Datalogic scanner model # 2430 is used for this recall.

DO NOT touch or place anything on the keyboard while scanning as this will cause the scanner to read incorrectly.



- d) Scan the QR code on the brake actuator.
e) Follow the prompts on the web site to determine if the brake actuator needs to be replaced.



G0I/GLC Campaign - Brake Actuator Validation Website

Logout

Validation Result Screen

Below are the results of the Brake actuator Validation for this vehicle, please print a copy of this validation result and file it with the R.O.

VIN: 2T5ZFREV4GW233651

Model: RAV4

Original Serial Number: 040160817510425

Result: The Brake actuator is NOT Affected.

Replacement Serial Number:

Warranty Authorization Number: 61180

Return to VIN Entry Screen

Print Vehicle Result

OK

Print website results and attach to the repair order
Return vehicle to customer



G0I/GLC Campaign - Brake Actuator Validation Website

Logout

New Brake Actuator Input Screen

The Brake actuator is Affected, and must be replaced.

Please reference the electronic parts catalog to ensure the correct actuator is ordered and replaced based on the vehicle configuration and options.

Upon receipt of the part please scan in the NEW actuator serial number for tracking purposes.

VIN: 2T5ZFREV4GW233651

Original Serial Number: 014151026511059

New Serial Number:

Return to VIN Entry Screen

Instructions:

- Locate the QR code located on the brake actuator as instructed in the technical instructions.
- If you are having trouble scanning the QR code ensure your scanner has been programmed to read the type of QR code. The instructions on how to calibrate the QR code reader is located in the technical instructions.

NOTE:

- The website will only accept scanned in data, no manual entry is allowed.

NEW Actuator Serial Number



NG

Print website results and attach to the repair order
Replace the brake actuator

2. REPLACE THE BRAKE ACTUATOR



ENSURE TO RETURN TO THE WEB SITE AND SCAN THE QR CODE OF THE NEW BRAKE ACTUATOR PRIOR TO INSTALLATION



G0I/GLC Campaign - Brake Actuator Validation Website

Logout

New Brake Actuator Input Screen

The Brake actuator is Affected, and must be replaced.

Please reference the electronic parts catalog to ensure the correct actuator is ordered and replaced based on the vehicle configuration and options.

Upon receipt of the part please scan in the NEW actuator serial number for tracking purposes.

VIN: ~~2T2ZZMGA400002700~~

Original Serial Number: 014151026511059

New Serial Number:

[Return to VIN Entry Screen](#)

Instructions:

- Locate the QR code located on the brake actuator as instructed in the technical instructions.
- If you are having trouble scanning the QR code ensure your scanner has been programmed to read the type of QR code. The instructions on how to calibrate the QR code reader is located in the technical instructions.

NOTE:

- The website will only accept scanned in data, no manual entry is allowed.

NEW Actuator Serial Number



This screen can be reached by rescanning the VIN

Rav 4

Removal

Installation

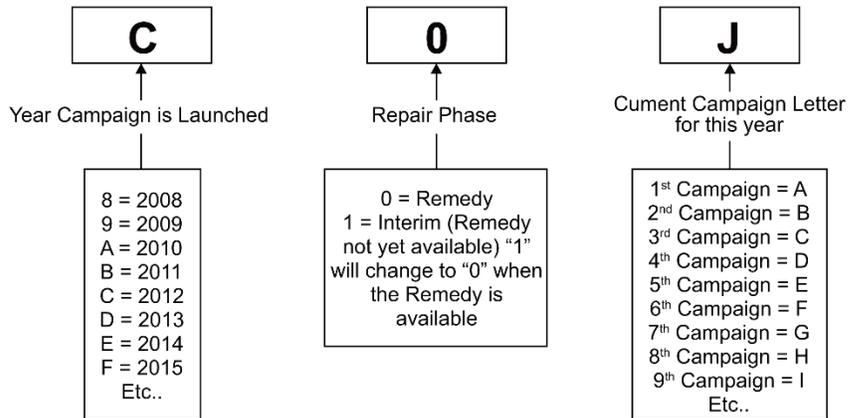
◀ VERIFY REPAIR QUALITY ▶

- Confirm that the inspection was followed properly
- Confirm that the brake lines were installed in the correct location
- Confirm that the brake system is properly bled
- Confirm that there are no leaks in the brake system
- Confirm that the brake fluid level is full

If you have any questions regarding this update, please contact your area representative.

VIII. APPENDIX

A. CAMPAIGN DESIGNATION DECODER



B. CAMPAIGN PARTS DISPOSAL

As required by Federal Regulations, please make sure all campaign parts (original parts) removed from the vehicle are disposed of in a manner in which they will not be reused, ***unless requested for parts recovery return.***