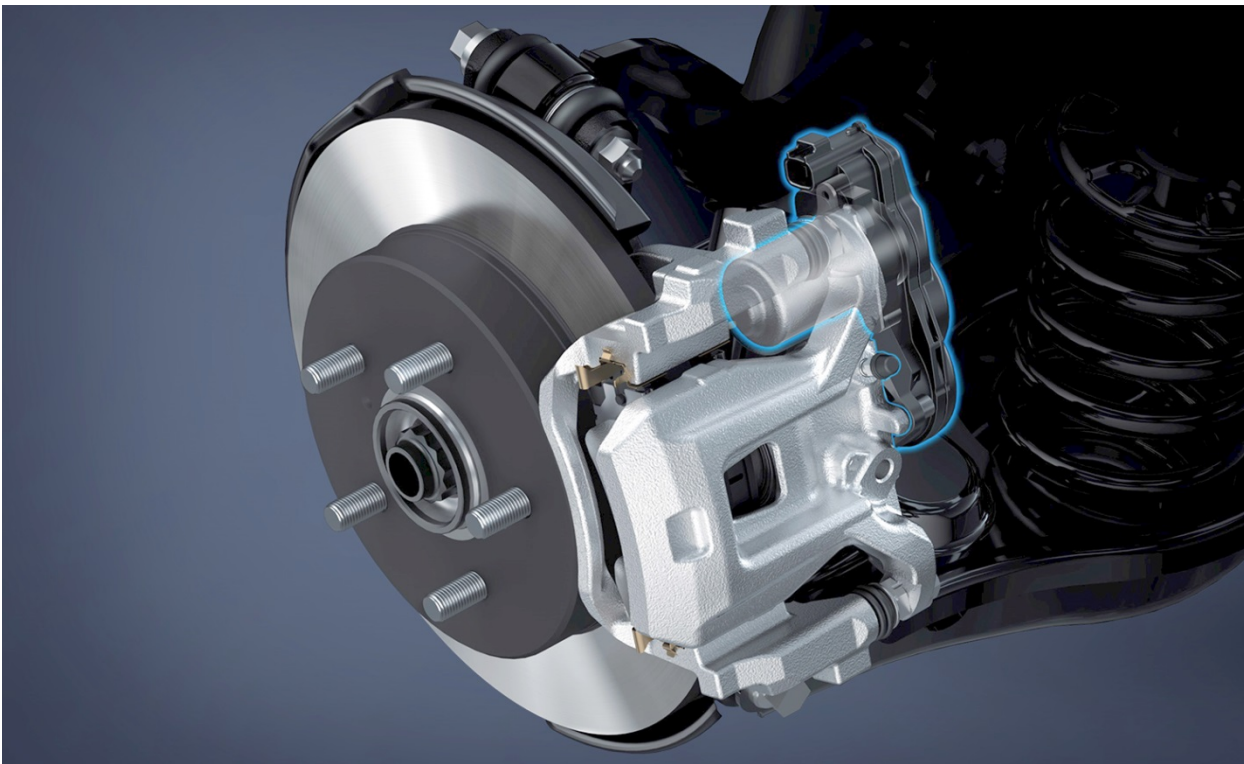


NX 300h / NX 200t Rear Brake Service

Quick Training Guide

Outline

The 2015 NX 300h and NX 200t have a new electronic parking brake design with different service procedures than previously used. These procedures affect manual override of the parking brake as well as rear brake pad service. This Quick Training Guide will provide an overview of these new procedures.



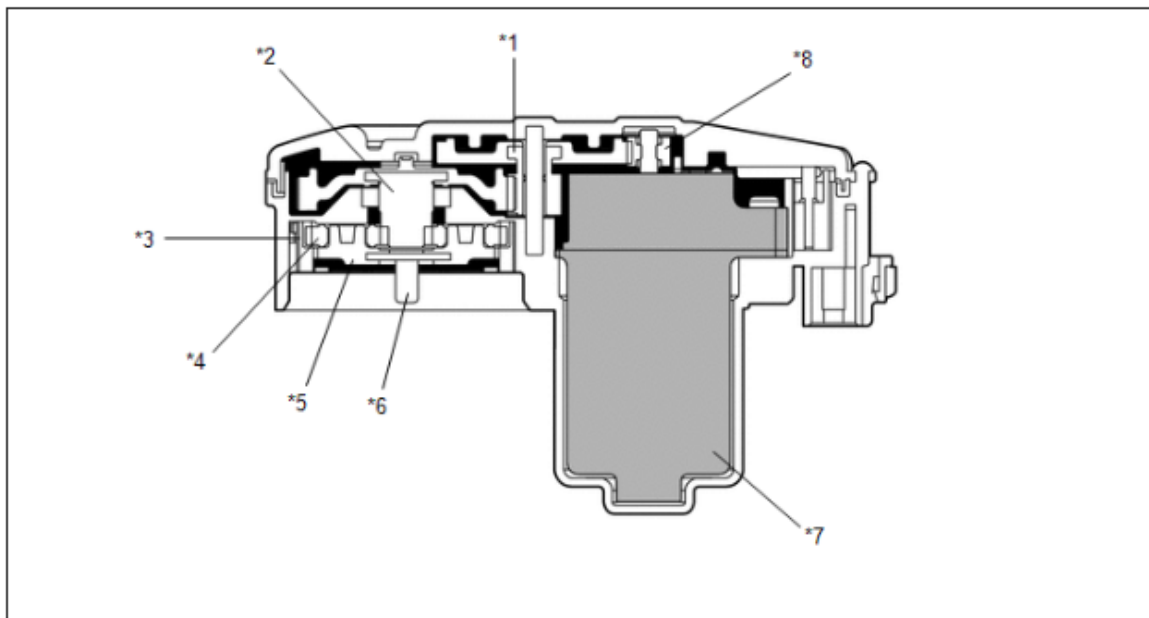
Tabs:

Overview | Electric EPB Release | Manual EPB Release | Pad Replacement Mode | Pad Replacement Tips

Overview

Both the 2015 NX 200t and NX 300h use a new type of electric parking brake that has an actuator built into each of the rear calipers. This system has the same AUTO and HOLD functions as the LS and GS models.

Instead of cables, this system uses a motor and a planetary gear to engage the brake caliper piston. Operation is controlled by the Parking Brake ECU Assembly that is located in left rear side of cargo area.



*1	No. 2 Pinion Gear and No. 1 Gear Sub-assembly	*2	Shift Gear and No. 2 Gear Sub-assembly
*3	Ring Gear	*4	Planetary Gear
*5	Carrier Sub-assembly	*6	Joint (Output Shaft)
*7	Motor	*8	No. 1 Pinion Gear

Parking Brake Actuator

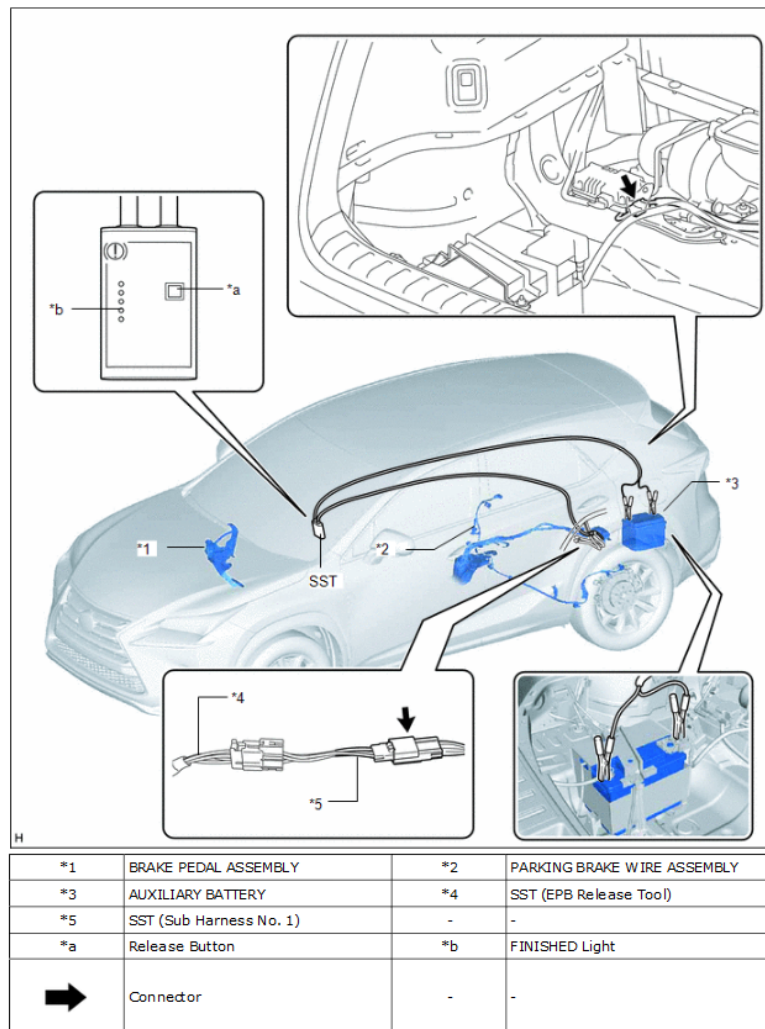
Parking Brake Release (Electrically)

If there is a power source or fail-safe malfunction, the parking brake may be able to be released electrically in one of two manners:

1. Techstream may be able to release the brake through the PKB Release active test
2. The parking brake may be released by supplying power with SSTs 09756-48020 and 09756-48040. Attach the SST to the parking brake connector and the vehicle 12V battery, and then press the release button on the SST while depressing the brake pedal.

CAUTION:

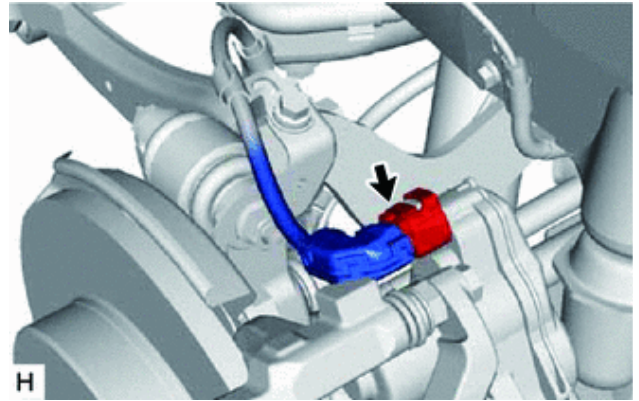
The vehicle may suddenly move when the parking brake is released, so use the brake pedal while performing the release operation. See the Repair Manual for complete details of the procedure and further precautions.



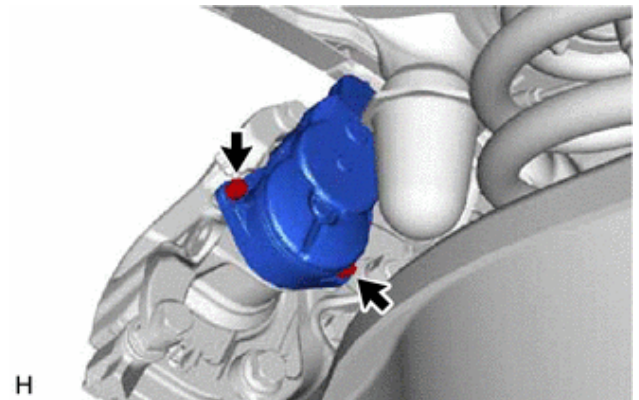
Parking Brake Release (Manually)

If the parking brake cannot be released due to a mechanical malfunction, the parking brake can be released by removing the brake actuator assembly from the brake caliper:

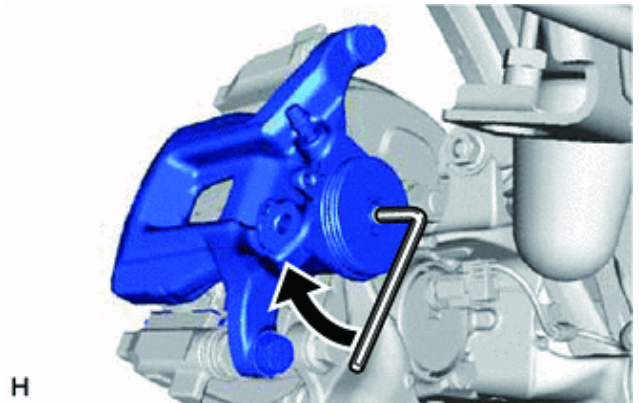
- a. Remove the connector from the parking brake actuator



- b. Use a 5 mm hex wrench to remove the bolts and parking brake actuator assembly



- c. Use a 6mm hex wrench to rotate the nut 2 turns clockwise to release the brake



CAUTION: The parking brake actuator O-ring is not reusable and must be replaced if the actuator is ever removed.

Rear Brake Pad Replacement Mode

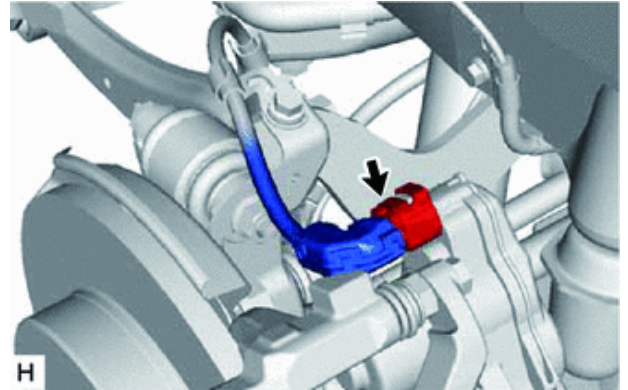
1. After removing the rear wheel, use the Techstream to enter Rear Brake Pad Replacement Mode (Chassis / Electric Parking Brake / Utility / Check Mode)
2. Follow the Techstream instructions and select “Next”
3. Press and hold the brake pedal, then push and hold the parking brake switch down for 5 seconds or more
 - Hold the brake pedal until the system enters pad replacement mode
 1. If the brake pedal is not depressed, the cylinder boot may become twisted
 - In pad replacement mode,
 1. The parking brake indicator flashes 4 times per second initially
 2. Then the parking brake actuators operate
 3. After the actuators stop, the parking brake indicator flashes 1 time per second
4. This operation may set DTC C13A7/43. Clear the DTCs after rear brake pad replacement is complete.
5. After brake pad replacement, set the parking brake with the switch

CAUTION: As with any brake replacement, after service there will be clearance between the brake pads and the rotors, and the brake pedal will feel softer. After replacing the brake pads, depress the brake pedal several times and check the clearance and brake pedal feel.

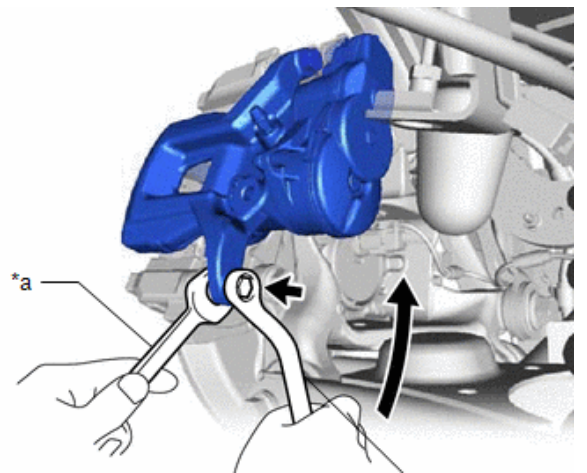
Add image of Techstream Screen here.

Rear Brake Pad Replacement Tips

1. Before pad removal, disconnect the parking brake actuator connector so it does not break when the caliper is rotated up.



2. Only the bottom bolt needs to be removed for brake pad replacement. Hold the slide pin with a wrench while removing the bolt.



3. The rear brake pad replacement mode will not retract the caliper pistons. Like other Lexus vehicles, they will need to be retracted manually so the new pads can be installed.

