VOLUNTARY RECALL CAMPAIGN

Classification:	Reference:	Date:
BR22-002	NTB22-080	October 6, 2022

VOLUNTARY SAFETY RECALL CAMPAIGN
2017-2019 ROGUE HYBRID; BRAKE BOOSTER

CAMPAIGN ID #: R22A6
NHTSA #: 22V549
APPLIED VEHICLES: 2017-2019 Rogue Hybrid (T32H)

Check Service COMM or Dealer Business Systems (DBS) National Service History to confirm campaign eligibility.

INTRODUCTION

Nissan is conducting this voluntary safety recall campaign, on certain specific model year 2017-2019 Rogue Hybrid vehicles, to replace the brake booster power supply unit. This service will be performed at no charge to the customer for parts or labor.

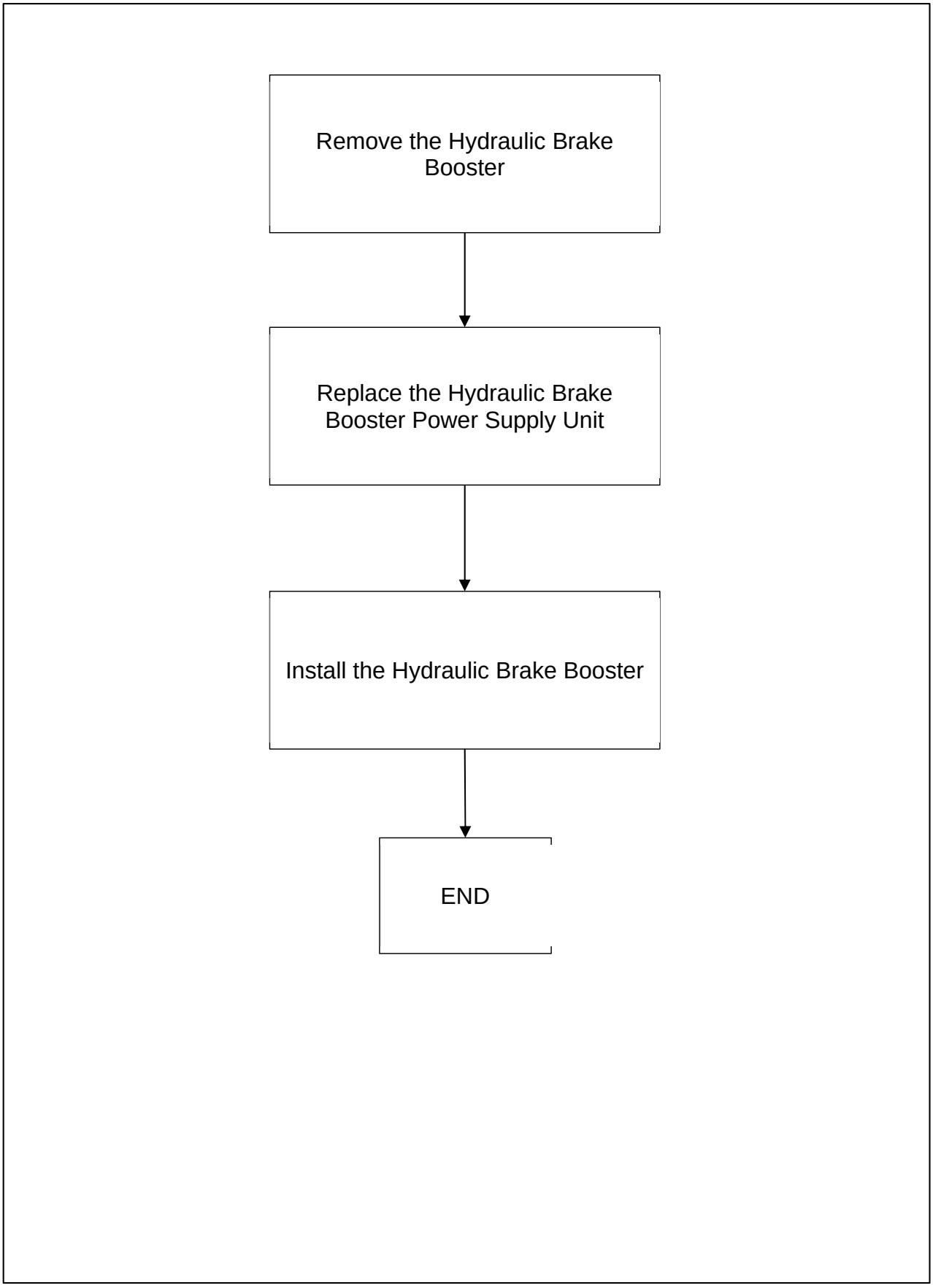
IDENTIFICATION NUMBER

Nissan has assigned identification number R22A6 to this campaign. This number must appear on all communication and documentation of any nature dealing with this campaign.

DEALER RESPONSIBILITY

It is the dealer's responsibility to check Service COMM or Dealer Business Systems (DBS) National Service History for the campaign status on each vehicle falling within the range of this voluntary safety recall which for any reason enters the service department. This includes vehicles purchased from private parties or presented by transient (tourist) owners and vehicles in a dealer's inventory. **Federal law requires that new vehicles in dealer inventory which are the subject of a safety recall must be corrected prior to sale. Failure to do so can result in civil penalties by the National Highway Traffic Safety Administration**. While federal law applies only to new vehicles, Nissan strongly encourages dealers to correct any used vehicles in their inventory before they are retailed.

REPAIR OVERVIEW



REQUIRED SPECIAL TOOL

- One of special tool Brake Booster Holding Bracket NI-53365 has previously been shipped to each dealer (Figure 1).

- Additional tools may be purchased from Tech•Mate: www.techmatetools.com or 1-833-397-3493.

Figure 1

SERVICE PROCEDURE

IMPORTANT: To avoid the risk of death or severe personal injury, follow all warnings, cautions and notices in the ESM procedure.

Remove the Hydraulic Brake Booster

1. Remove the hydraulic brake booster unit from the vehicle.

   - Refer to the ESM: **BRAKES > BRAKE SYSTEM > REMOVAL AND INSTALLATION > HYDRAULIC BRAKE BOOSTER UNIT > Removal and Installation**

2. Remove the four (4) nuts from the brake booster adapter, and then remove the brake booster adapter from the hydraulic brake booster unit.

   - Do not discard the securing nuts, they will be used to secure the hydraulic brake booster to the holding bracket in step 4 on page 5.

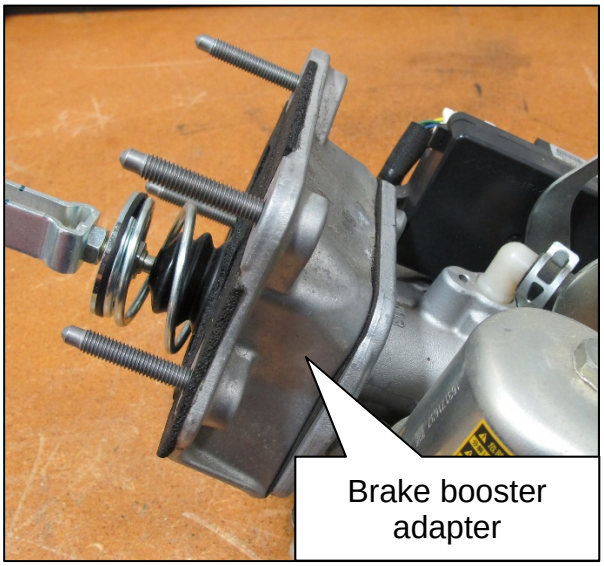


Figure 2

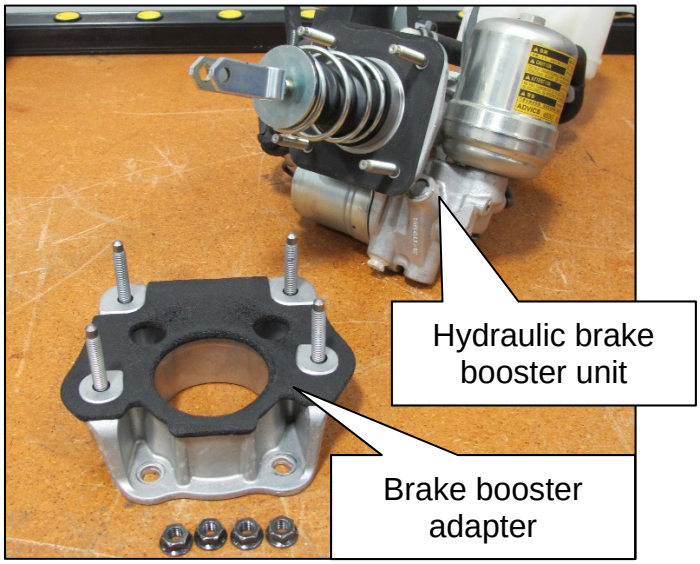


Figure 3

Replace the Hydraulic Brake Booster Power Supply Unit

3. Install the brake booster holding bracket to a vise.

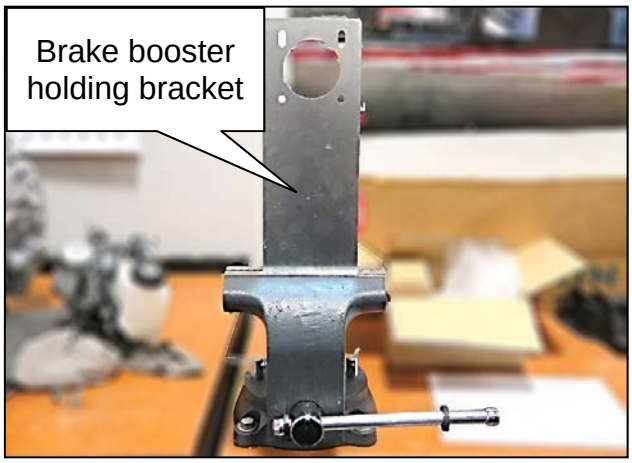


Figure 4

4. Install the hydraulic brake booster unit to the holding bracket.
   - Use the four (4) nuts from the brake booster adapter to secure the hydraulic brake booster unit to the holding bracket.

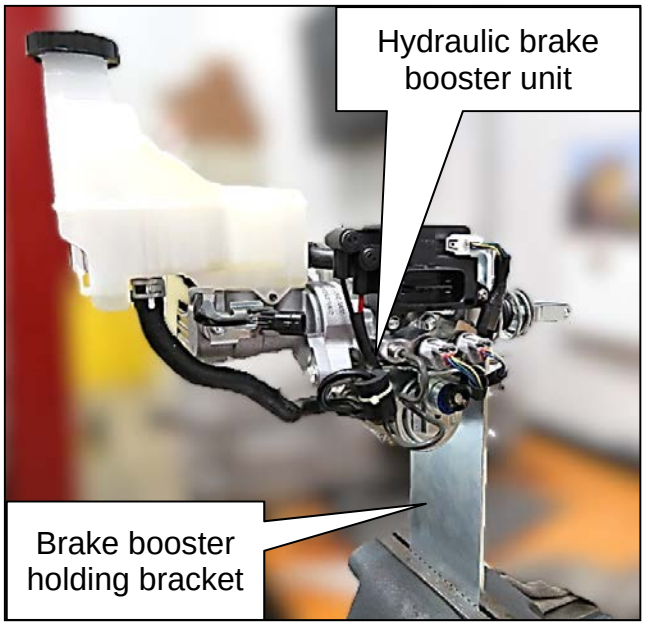


Figure 5

5. Place a shop rag and an oil tray on the floor under the hydraulic brake booster unit to catch any excess fluid.

6. Clean dirt and debris off the hydraulic brake booster unit using Nissan brake cleaner or equivalent.

7. Disconnect the brake fluid reservoir's rubber hose from the hydraulic brake booster unit and allow the brake fluid to drain out of the reservoir into the oil tray.
   - Slide the clamps up the hose.
   - Drain residual brake fluid from the brake fluid reservoir into a suitable container.

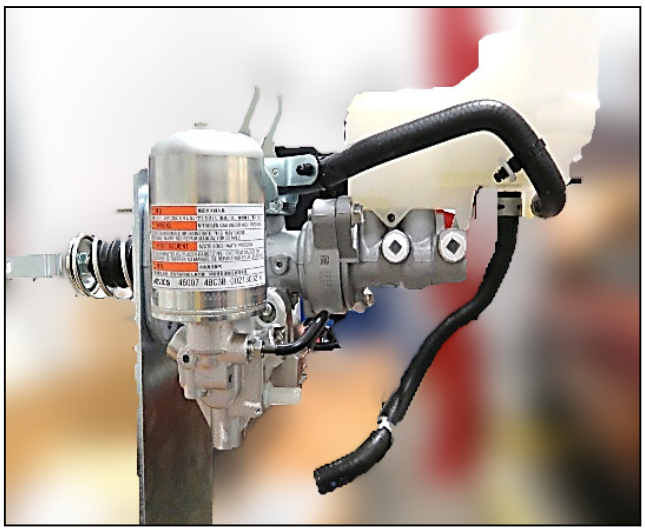


Figure 6

8. Remove the rubber hose from the brake fluid reservoir, and then install the rubber cap from the parts kit on the reservoir port.

NOTICE

To avoid damage to the reservoir tank, do not apply excessive pressure to the reservoir tank when disconnecting the hose.

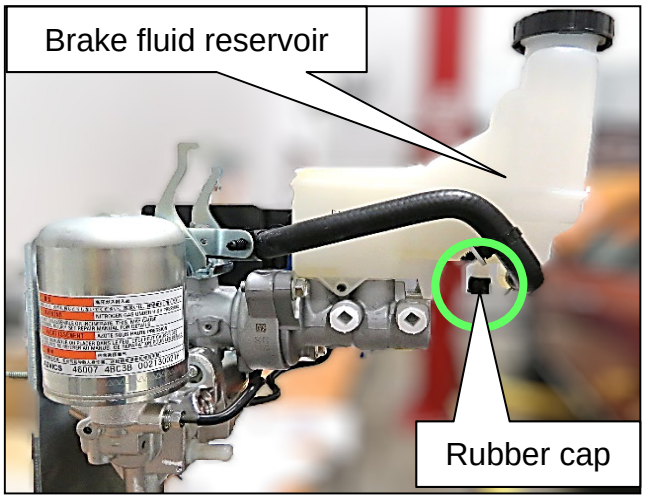


Figure 7

9. Loosen the high-pressure tube flare nuts, and then remove the high-pressure tube from the hydraulic brake booster unit.

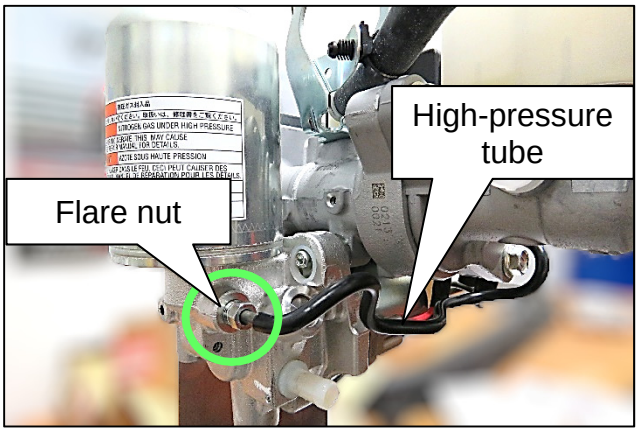


Figure 8

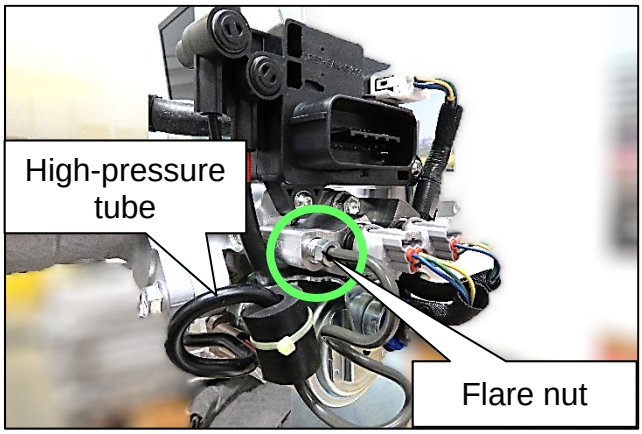


Figure 9

10. Install the plastic M10 cap from the parts kit in the high-pressure tube port on the left side of the hydraulic brake booster unit.

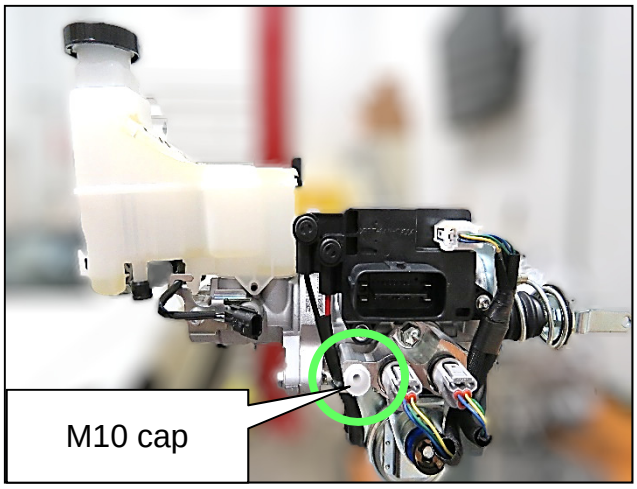


Figure 10

11. Using a suitable tool, remove the two (2) rubber grommets from the hydraulic brake booster control module and discard, they will not be reused.
    - New rubber grommets are provided in the parts kit.

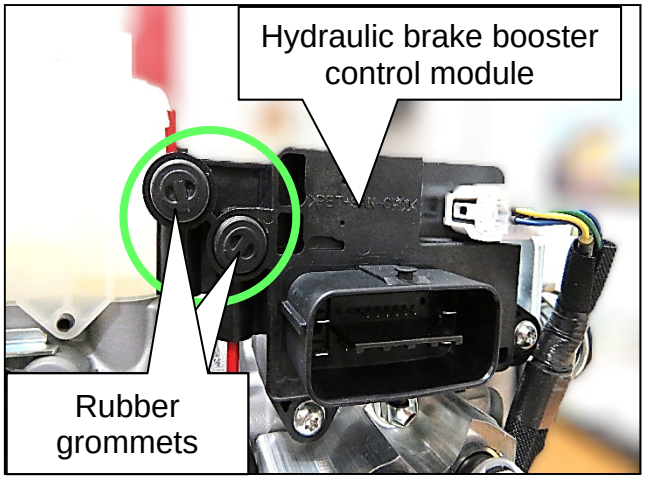


Figure 11

12. Place a mark on the hydraulic brake booster control module terminal where the positive (red) wire is connected.

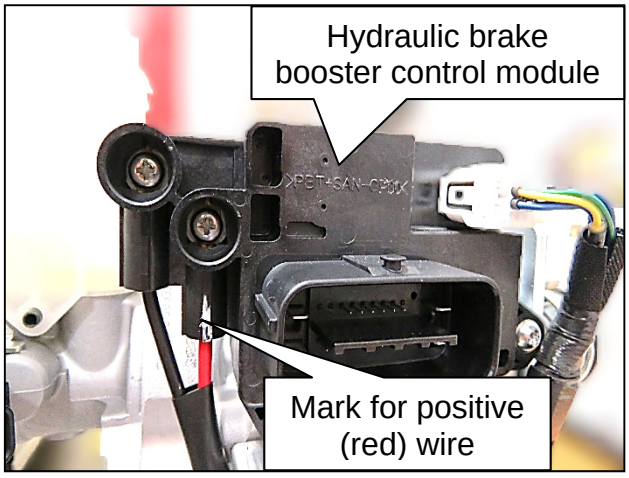


Figure 12

13. Remove the two (2) screws securing the power supply wires to the hydraulic brake booster control module and discard, they will not be reused.
    - New screws are provided in the parts kit.

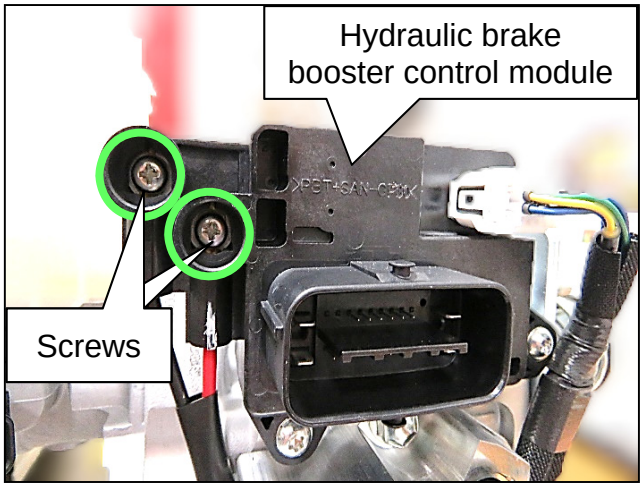


Figure 13

14. Remove the bracket cap from the power supply unit mounting bracket and discard, it will not be reused.
    - A new bracket cap is provided in the parts kit.

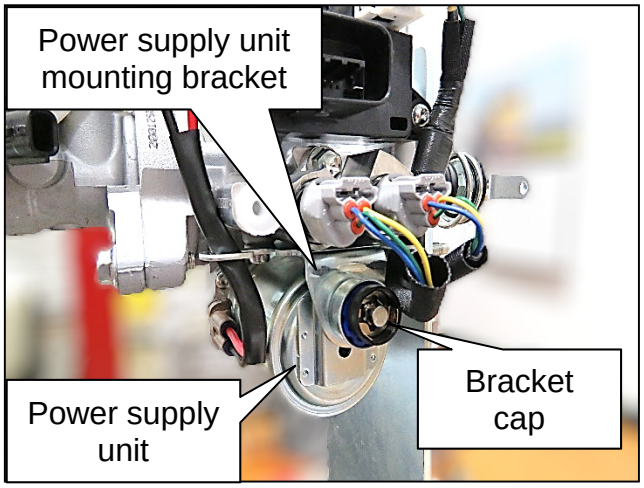


Figure 14

15. Remove the power supply wire harness from the wire harness retaining bracket.

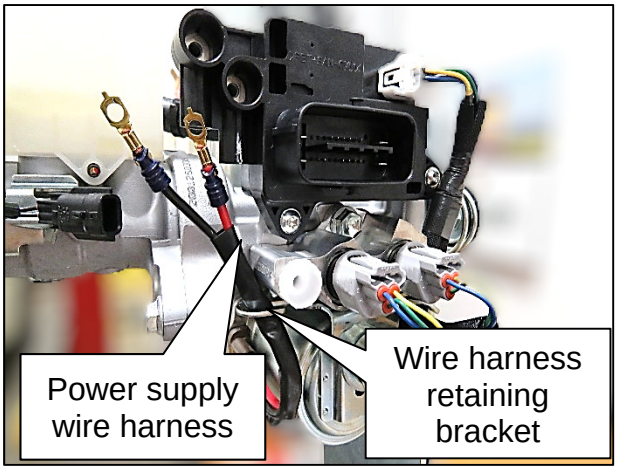


Figure 15

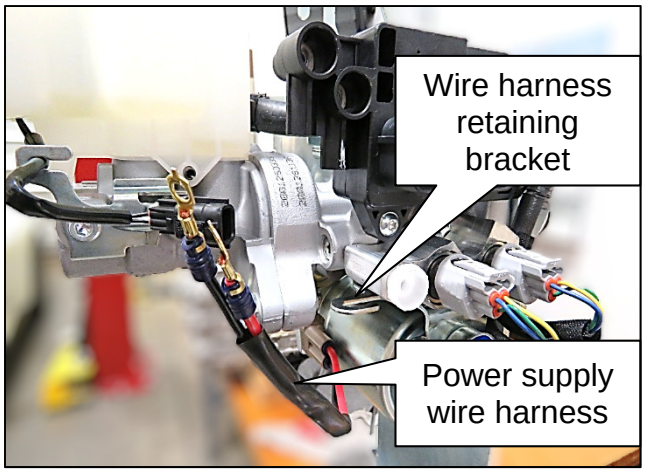


Figure 16

16. Remove the power supply unit from the hydraulic brake booster unit by pulling the power supply unit in the direction shown in Figure 17.

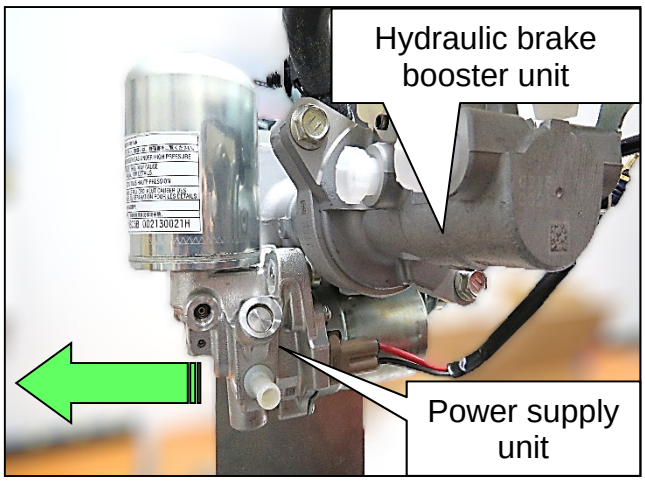


Figure 17

17. Remove the two (2) bolts securing the power supply unit mounting bracket to the hydraulic brake booster, and then remove the power supply unit mounting bracket.

    IMPORTANT: Be sure to remove the sensor harness from the hook of the power supply unit mounting bracket.

    - Discard the mounting bracket and the two (2) bolts, they will not be reused.

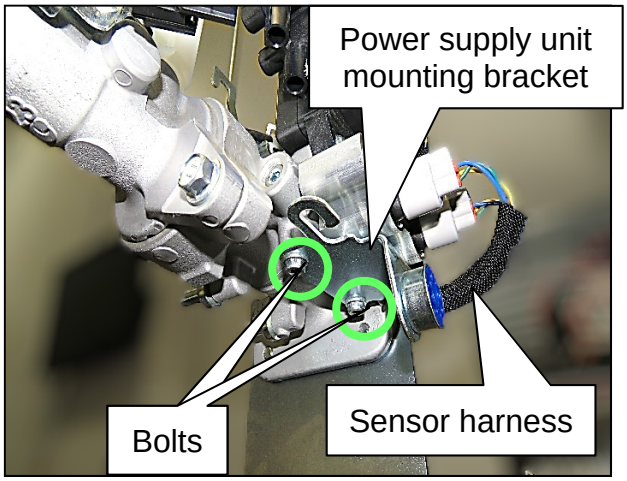


Figure 18

NOTE: Refer to Figure 43 on page 18 for parts reference for steps 18 - 28.

18. Install the sensor harness on the hook of the new power supply unit mounting bracket (Figure 19), and then install the bracket to the hydraulic brake booster using two (2) new bolts from the parts kit (Figure 20).

    - Power supply unit mounting bracket bolt torque: 8 N•m (0.8 kg-m, **72 in.-lb**)

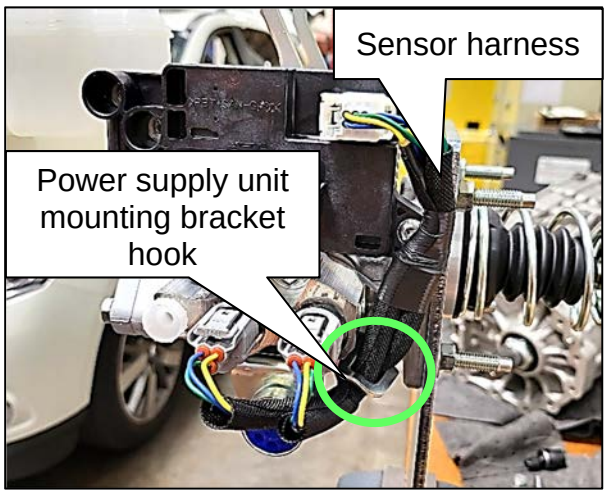


Figure 19

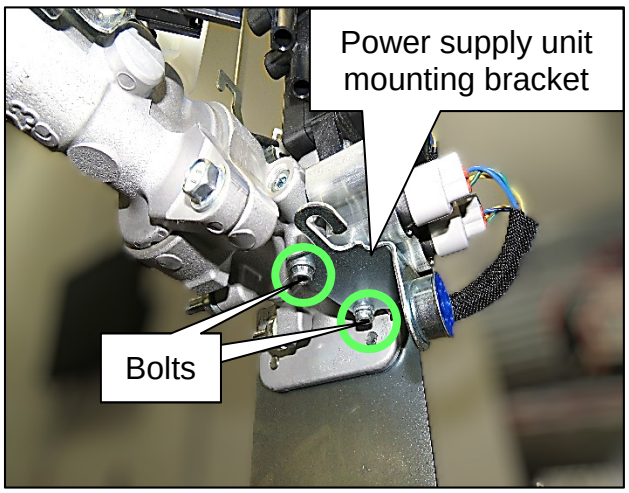


Figure 20

19. Install the new power supply unit to the hydraulic brake booster unit.

- Align and install the upper mounting pins first, and then install the lower mounting pin.

IMPORTANT: Ensure the upper and lower mounting pins are properly aligned with the mounting holes.

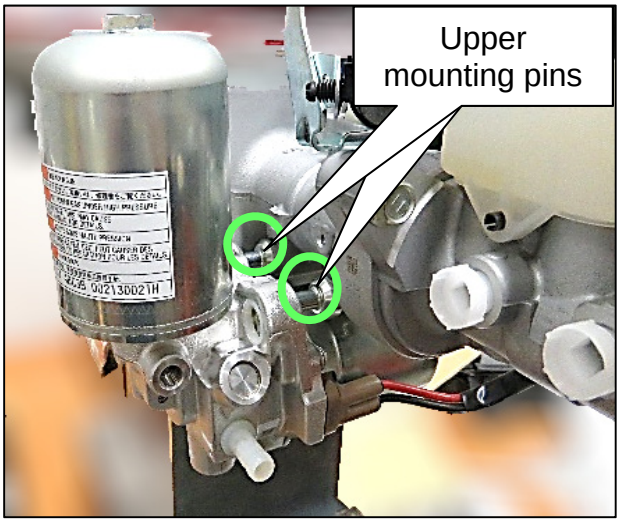


Figure 21

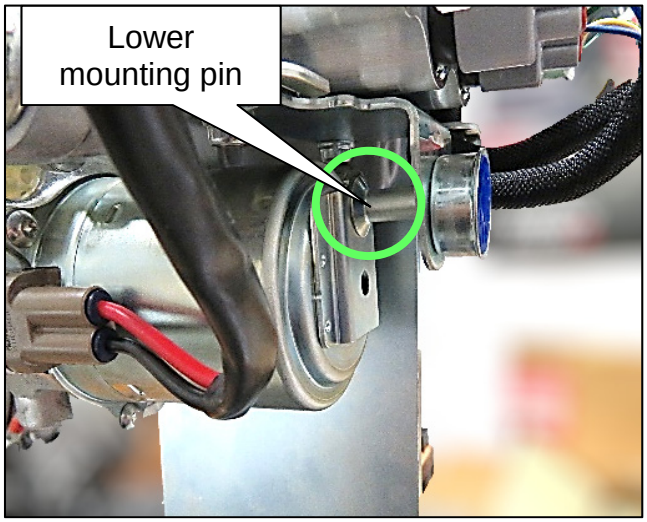


Figure 22

20. Install a new bracket cap from the parts kit on the power supply unit mounting bracket.

NOTE: A snap noise will be heard when the bracket cap is properly installed.

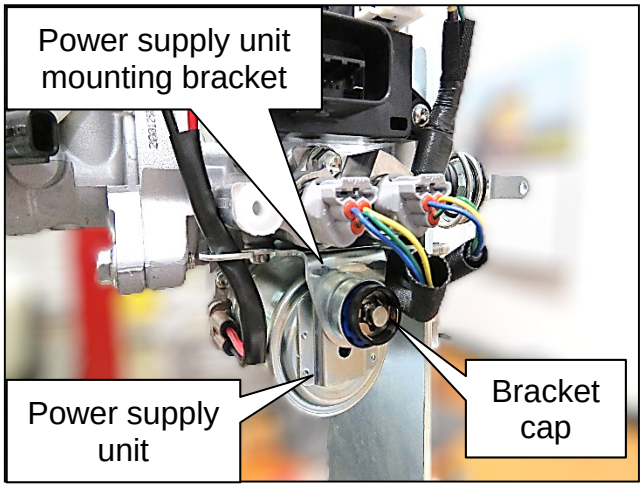


Figure 23

21. Insert the power supply wire harness into the wire harness retaining bracket, as shown in Figure 25.

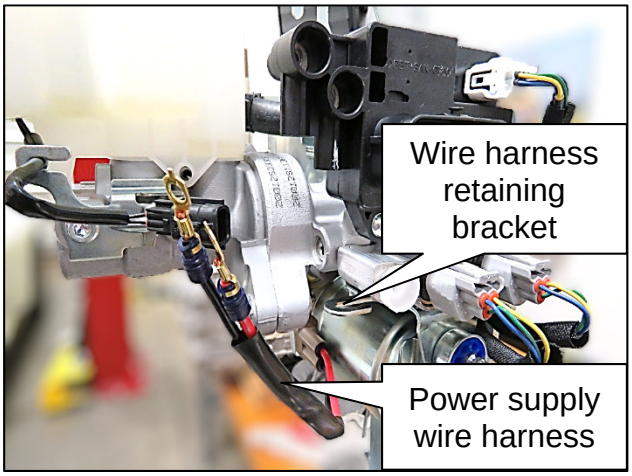


Figure 24

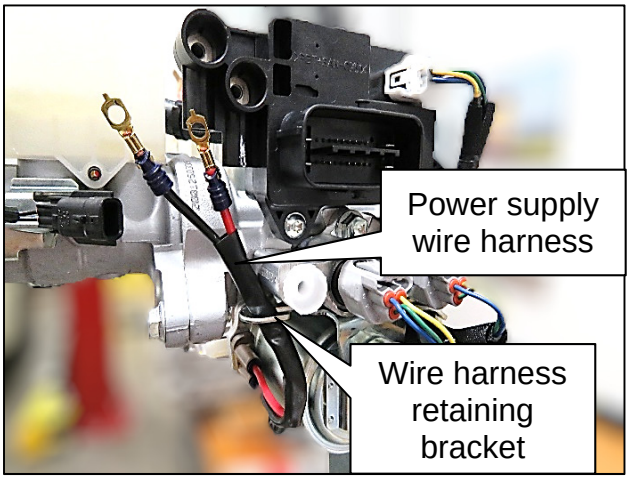


Figure 25

22. Install the power supply wires to the hydraulic brake booster control module.

IMPORTANT: Make sure the positive (red) wire is placed in the same terminal that was marked on step 12 on page 7.

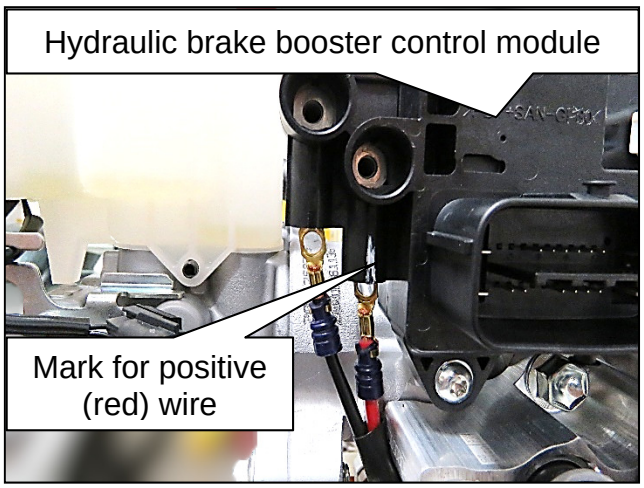


Figure 26

- When installing the power supply wires to the hydraulic brake booster control module, ensure the terminal crimp faces outward, as shown in Figure 26 and Figure 27.

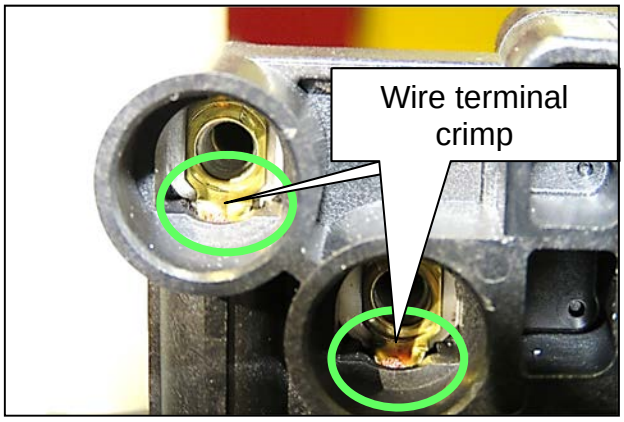


Figure 27

23. Using two (2) new screws from the parts kit, secure the power supply wire terminals to the hydraulic brake booster control module.

    - Power supply wire terminal screw torque: 3.0 N•m (0.3 kg-m, **27 in.-lb**)

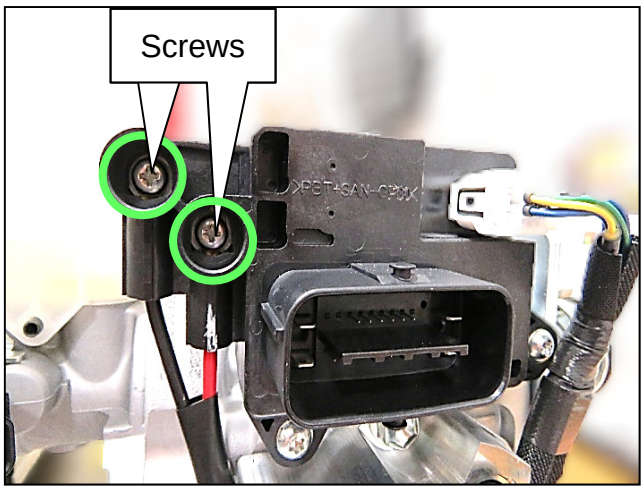


Figure 28

24. Install two (2) new rubber grommets to cover the power supply wire terminals.

    - The rubber grommets may be inserted in either direction.

    IMPORTANT: Do not apply any lubricant to the rubber grommets

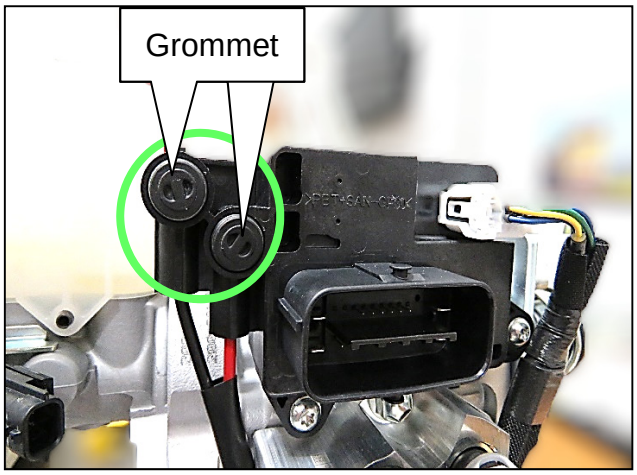


Figure 29

25. Remove the plastic M10 caps from the hydraulic brake booster unit and the new power supply unit.

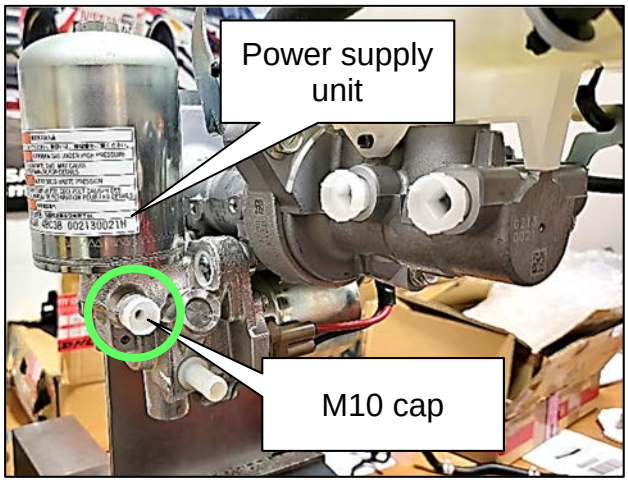


Figure 30

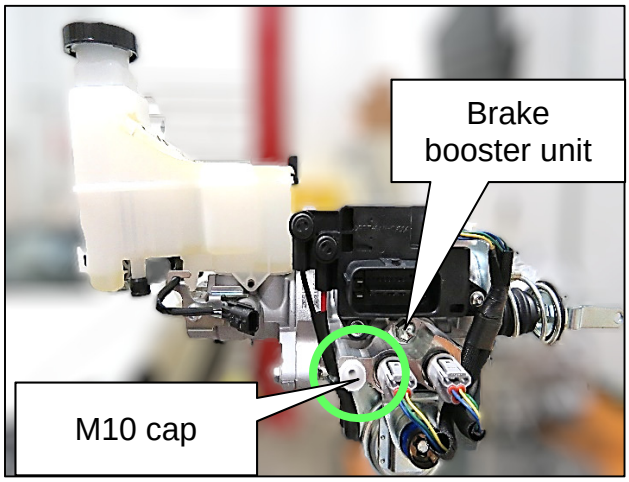


Figure 31

26. Install a new high-pressure tube.

- Install and hand tighten the flare nut on the hydraulic brake booster side first (Figure 32), and then install and hand-tighten the flare nut on the power supply unit side (Figure 33).

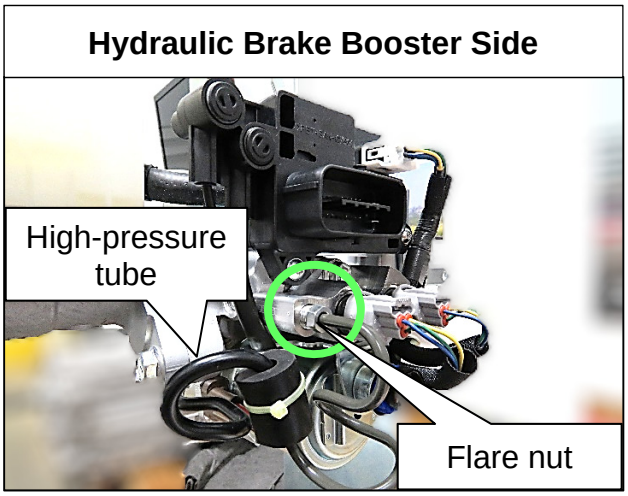


Figure 32

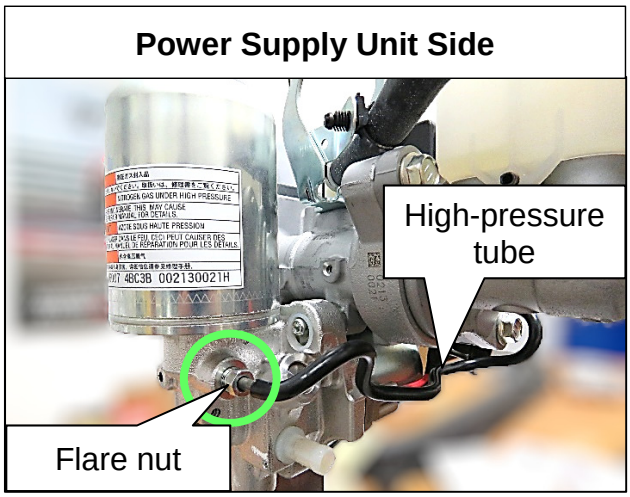


Figure 33

27. Torque the flare nut on the hydraulic brake booster side first (Figure 32), and then torque the flare nut on the power supply unit side (Figure 33).

- Flare nut torque: 15 N•m (1.5 kg-m, **11 ft-lb**)

  NOTE: The above torque value for the flare nuts have already been adjusted to compensate for the length of the crow foot when used with a torque wrench of 11-15 inches in length.

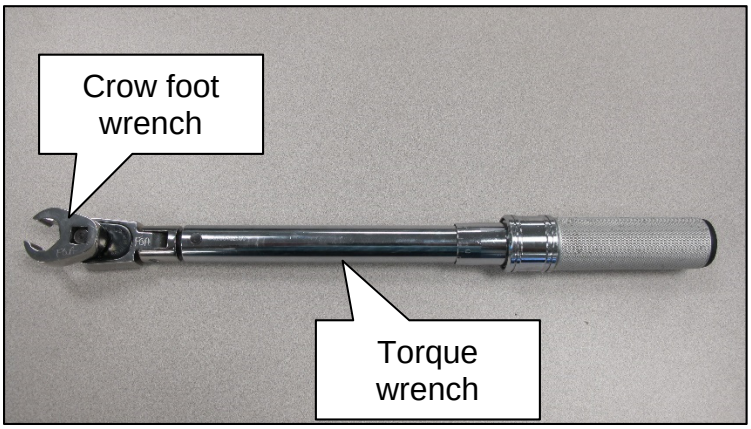


Figure 34

28. Verify the alignment marks on the bottom of the mass damper align with the alignment mark on the high-pressure tube.

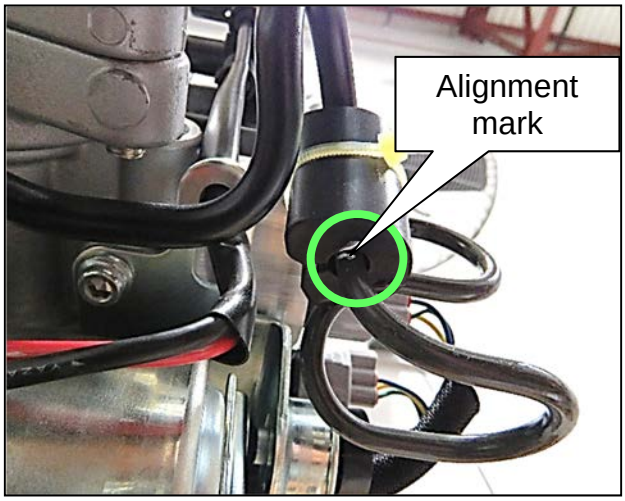


Figure 35

29. Remove the rubber cap on the reservoir port, and then install the new rubber brake hose from the brake hose kit, 46210-4BC0C (Figure 36), to the reservoir.

    IMPORTANT: <u>DISCARD</u> the rubber brake hose in the brake booster assembly kit (47210-4BC8A), only use the rubber brake hose from the brake hose kit (Figure 36).

    - Align the white alignment mark of the rubber brake hose to the alignment tab on the reservoir, as shown in Figure 37, and then secure the hose clamp.

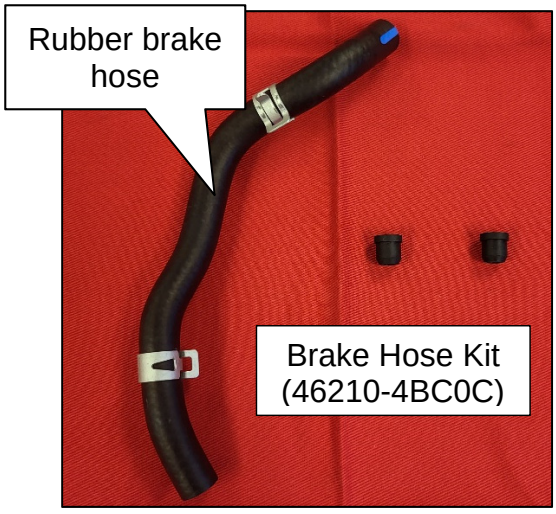


Figure 36

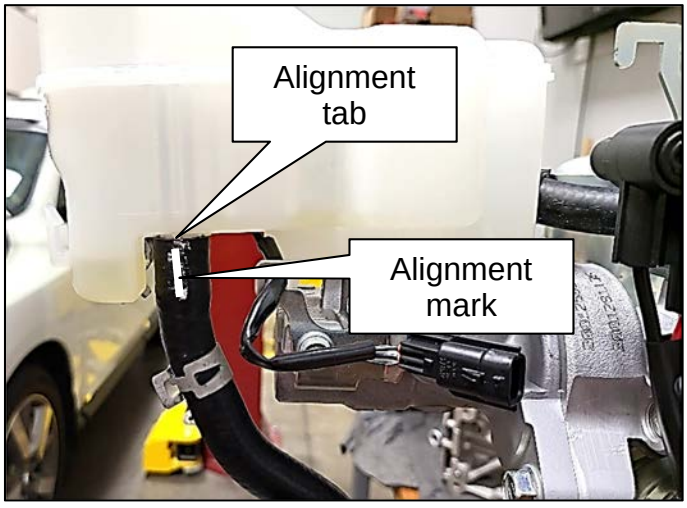


Figure 37

30. Install the new rubber brake hose to the hydraulic brake booster unit (Figure 38).

- Align the blue alignment mark of the rubber brake hose to the hydraulic brake booster unit, as shown in Figure 39, and then secure the hose clamp.

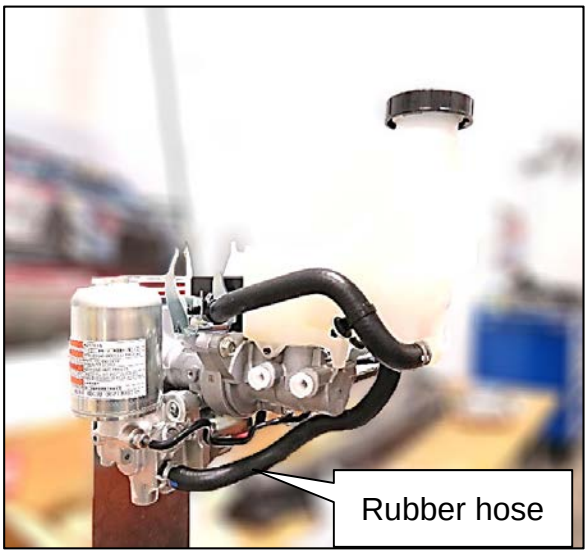


Figure 38

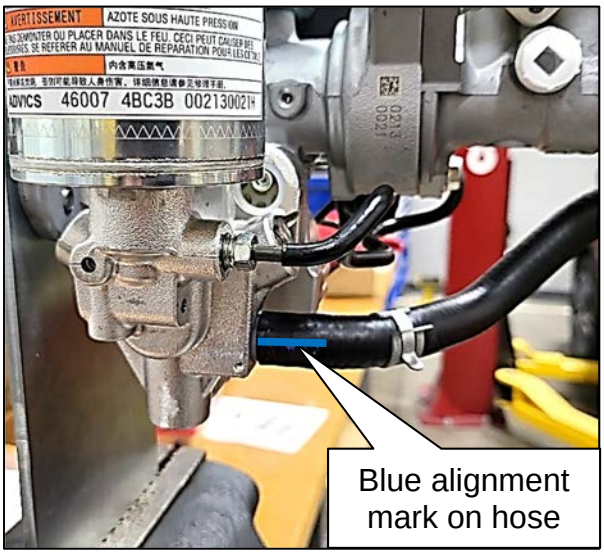


Figure 39

31. Remove the hydraulic brake booster unit from the holding bracket.

- Do not discard the securing nuts, they will be used to secure the brake booster adapter to the hydraulic brake booster unit in step 33 on page 16.

32. Remove the old gasket from the hydraulic brake booster unit, and then install a new gasket.

IMPORTANT: Avoid touching or moving the input rod.

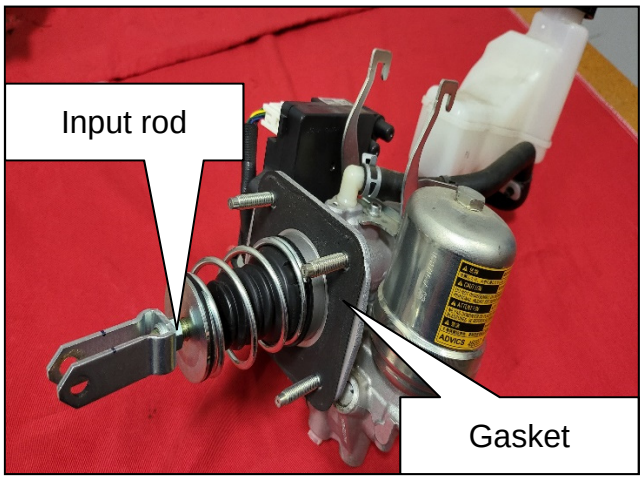


Figure 40

33. Using the four (4) nuts from step 31 on page 15, install the brake booster adapter to the hydraulic brake booster unit.

- Brake booster adapter nut torque: 11.2 N•m (1.1 kg-m, **8 ft-lb**)

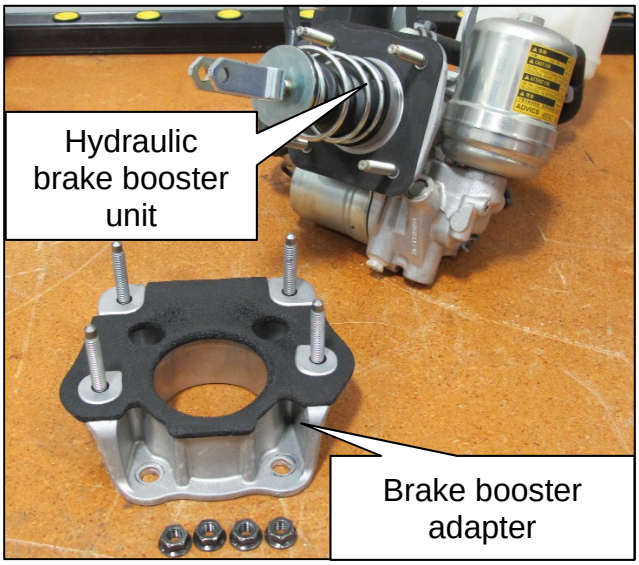


Figure 41

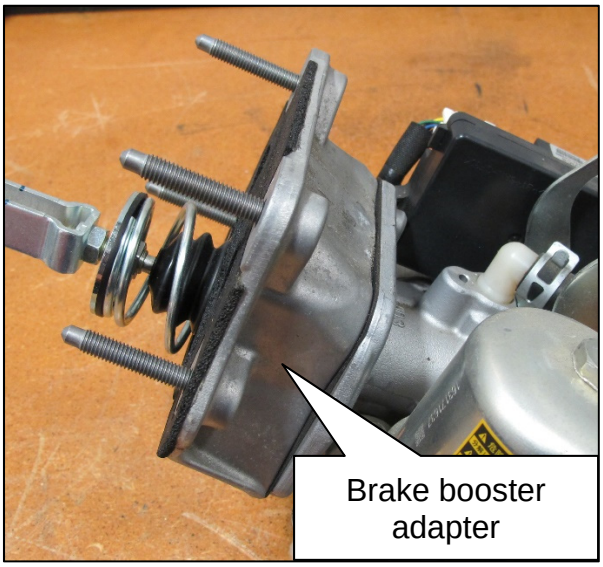


Figure 42

Install the Hydraulic Brake Booster

34. Install the hydraulic brake booster into the vehicle.

- Refer to the ESM: **BRAKES > BRAKE SYSTEM > REMOVAL AND INSTALLATION > HYDRAULIC BRAKE BOOSTER UNIT > Removal and Installation**
  - o Hydraulic brake booster unit nut torque: 11.2 N•m (1.1 kg-m, **8 ft-lb**)

35. Perform the hydraulic brake booster function check.

- Refer to the ESM: **BRAKES > BRAKE SYSTEM > REMOVAL AND INSTALLATION > HYDRAULIC BRAKE BOOSTER UNIT > Inspection After Installation**

36. Using CONSULT-III, erase any previously set DTCs in Diagnosis (All Systems).

37. Dispose of the hydraulic brake booster power supply unit.

- Refer to the ESM: **BRAKES > BRAKE SYSTEM > REMOVAL AND INSTALLATION > HYDRAULIC BRAKE BOOSTER UNIT > Disposal**

PARTS INFORMATION

DESCRIPTION	PART NUMBER	QUANTITY
BOOSTER ASSY – BRAKE-HYD	47210-4BC8A	1
KIT – GSK PIN	D7212-4CE0A	1
HOSE KIT – BRAKE	46210-4BC0C	1
SUPER HEAVY DUTY BRAKE FLUID DOT 3	999MP-A4100P	(1)

(1) Order this item through the Nissan Maintenance Advantage program: Phone 877-NIS-NMA1 (877-647-6621). Website order via link on the dealer portal; www.NNAnet.com and click on the “Maintenance Advantage-Tire/Battery/Chemical” link.

CLAIMS INFORMATION

Submit a “CM” line claim using the following claims coding:

CAMPAIGN (“CM”) ID	DESCRIPTION	OP CODE	FRT
R22A6	Replace Hydraulic Brake Booster Power Supply Unit	R22A60	3.3

PARTS KIT VISUAL REFERENCE

- The following figure shows the components of BOOSTER ASSY – BRAKE-HYD (47210-4BC8A).

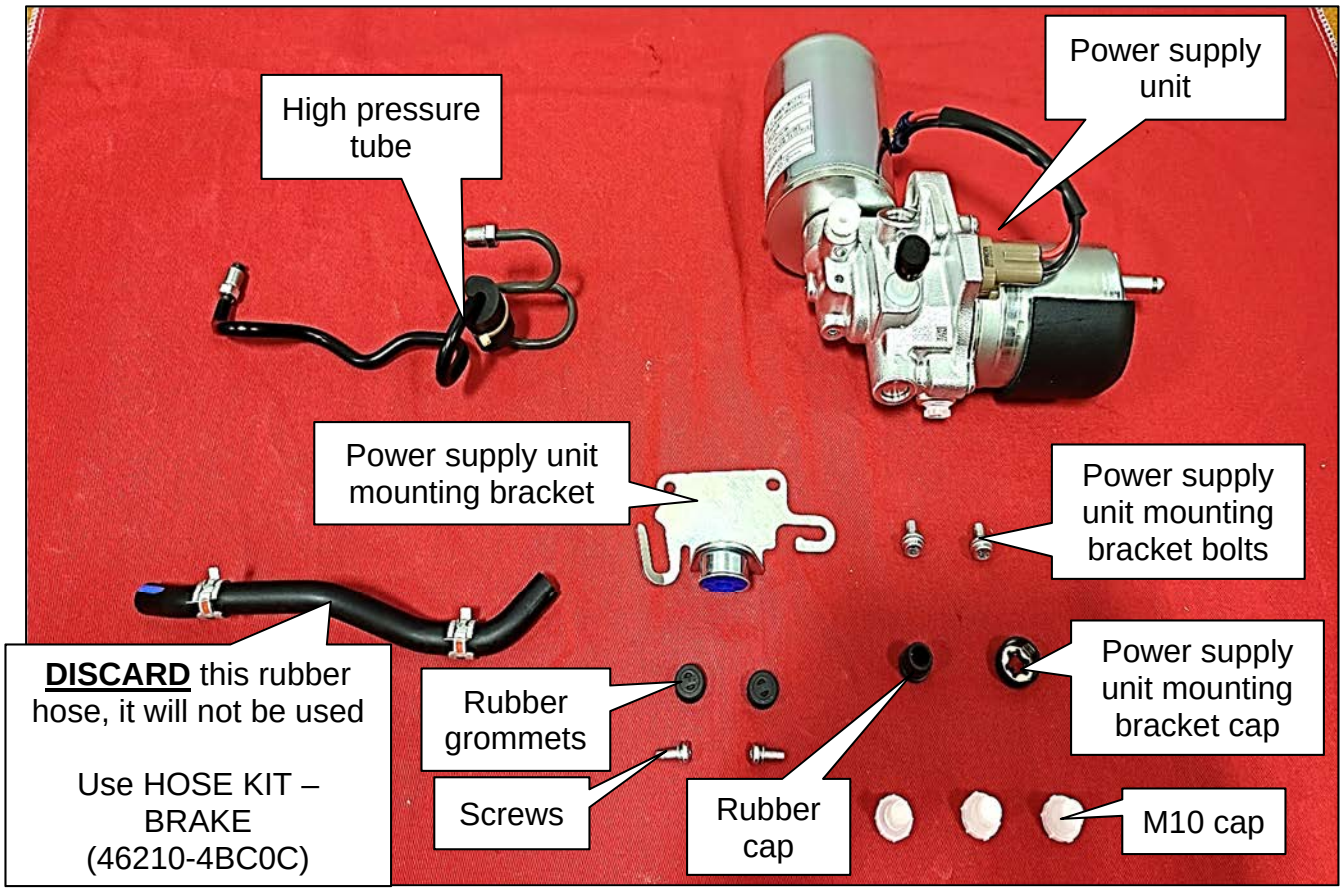


Figure 43

- The following figure shows the components of HOSE KIT – BRAKE (46210-4BC0C).

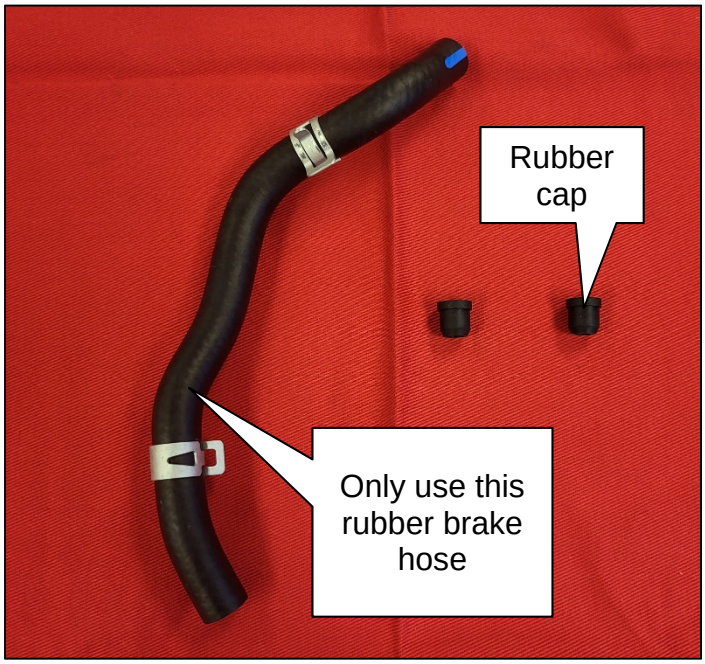


Figure 44

PARTS KIT VISUAL REFERENCE (continued)

- The following figure shows the components of KIT – GSK PIN (D7212-4CE0A).

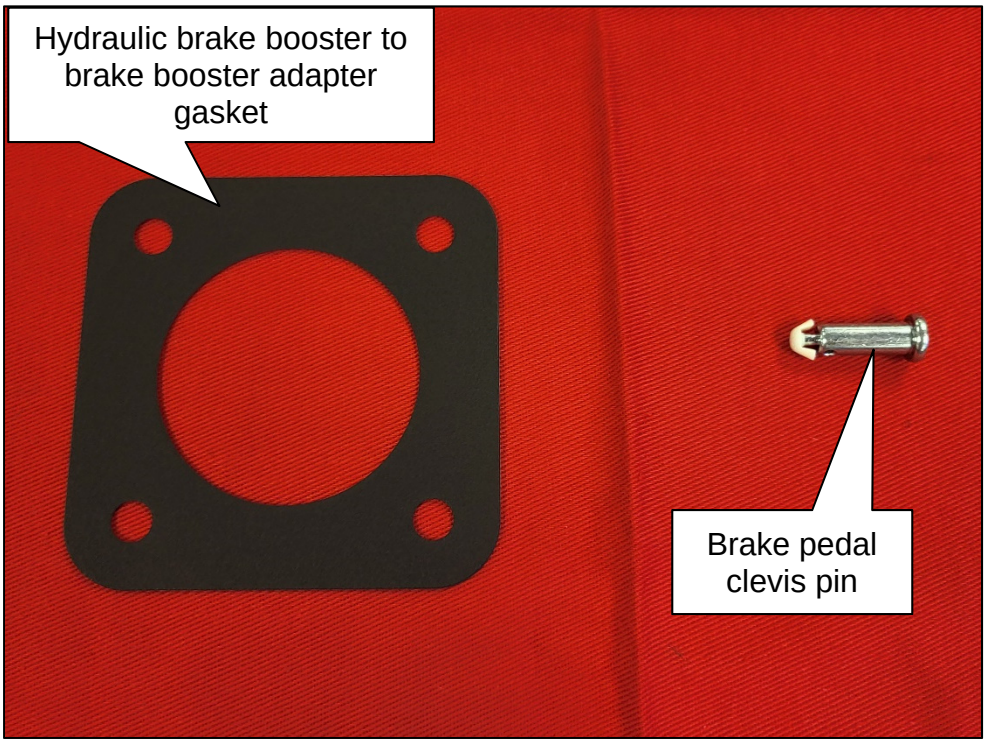


Figure 45

AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
October 6, 2022	NTB22-080	Original bulletin published