



RECALL CAMPAIGN BULLETIN

Classification:	Reference:	Date:
FA21-006	NTB21-061	July 6, 2021

VOLUNTARY SAFETY RECALL CAMPAIGN 2021 GT-R; STEERING KNUCKLE

CAMPAIGN ID #: R21A4
APPLIED VEHICLES: 2021 GT-R (R35)

**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 2021 GT-R vehicles, to replace both front steering knuckles. This service will be performed at no charge to the customer for parts or labor.

IDENTIFICATION NUMBER

Nissan has assigned identification number R21A4 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.

Nissan Bulletins are intended for use by qualified technicians, not 'do-it-yourselfers'. Qualified technicians are properly trained individuals who have the equipment, tools, safety instruction, and know-how to do a job properly and safely. **NOTE:** If you believe that a described condition may apply to a particular vehicle, DO NOT assume that it does. See your Nissan dealer to determine if this applies to your vehicle.

SERVICE PROCEDURE

⚠️ WARNING To avoid the risk of death or severe personal injury, do not reuse single use parts noted in this TSB. Reusing a single use part may induce risk that it, or the component that it secures, may become loose.

Remove The Steering Knuckle

1. Place the vehicle on a lift and raise to a suitable height.

2. If the vehicle is equipped with Nissan Carbon Ceramic Brakes (NCCB), install a disc rotor protector (SST: KV40109300) before removing the wheel and tire assemblies to protect the brake rotor from oils or foreign debris.

- If the vehicle is equipped with cast iron disc rotors, skip to step 3.



Figure 1

3. Remove both front wheel and tire assemblies.

4. Remove the front wheel speed sensor bolt from the steering knuckle (Figure 2) and the 3 speed sensor harness grommets from the brake hose bracket (Figure 2 and Figure 3).

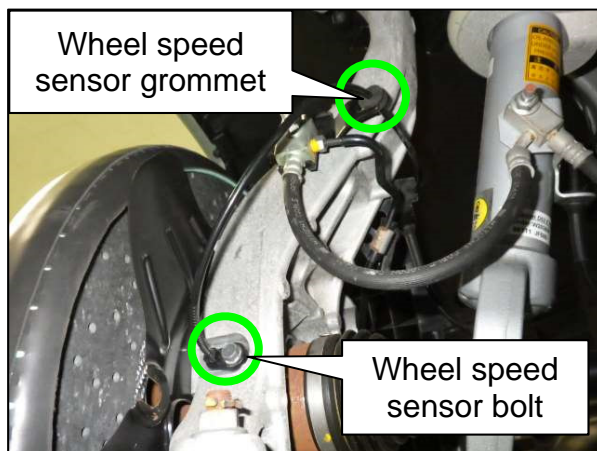


Figure 2

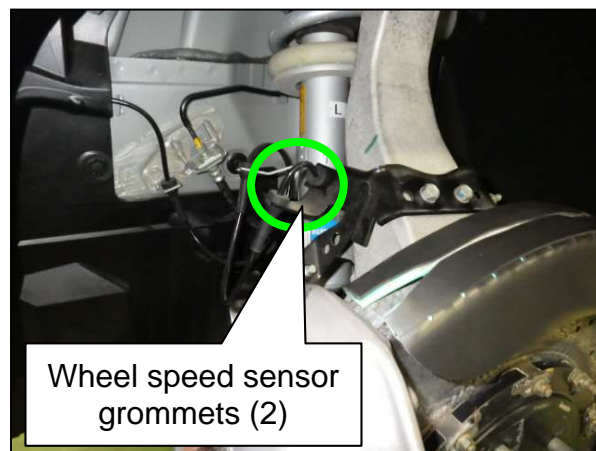


Figure 3

5. Position the wheel speed sensor and harness out of the way of the steering knuckle.

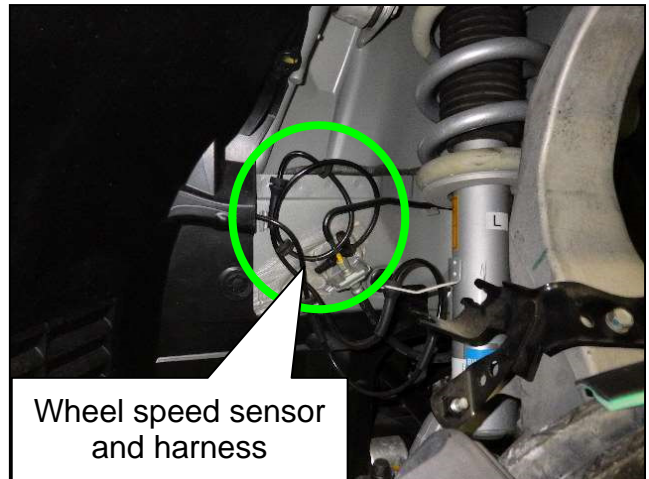


Figure 4

6. Remove the 2 brake hose nuts from the brake hose bracket and discard, they will not be reused.

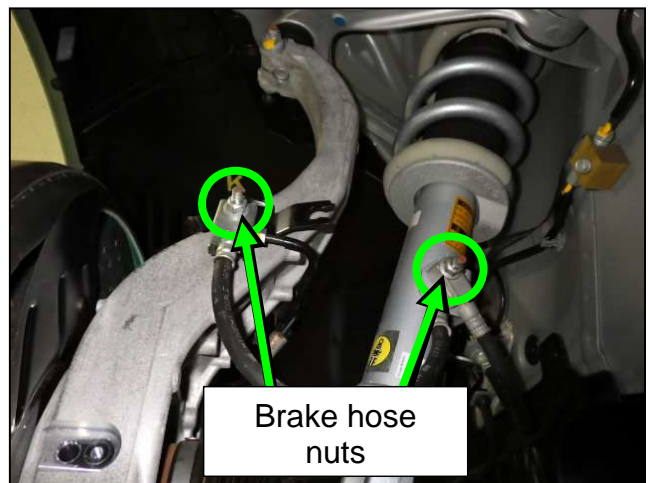


Figure 5

7. Remove the 3 brake hose bracket bolts, and then remove the brake hose bracket from the steering knuckle.

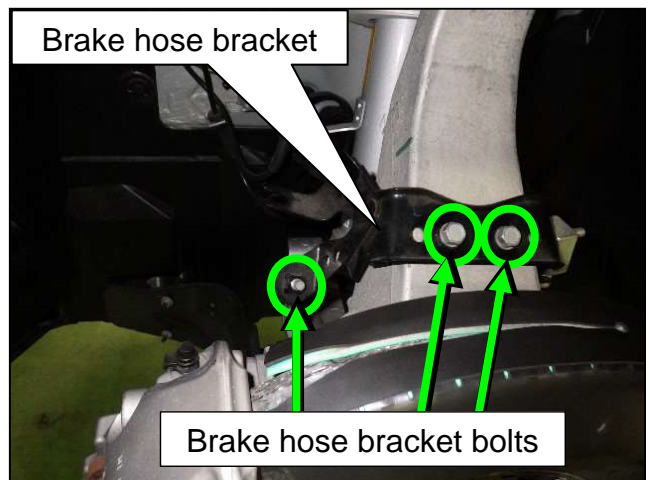


Figure 6

8. Remove the brake hose from the shock absorber.

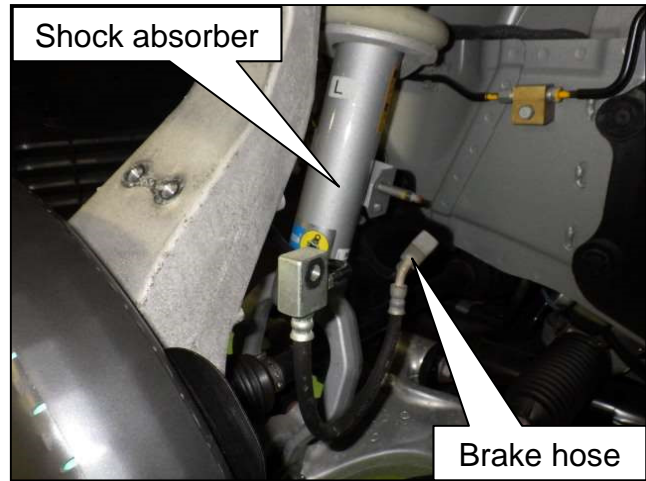


Figure 7

9. Put an alignment mark on the brake rotor and on the wheel hub.

HINT: Temporarily install and tighten a wheel nut to hold the brake rotor in place.

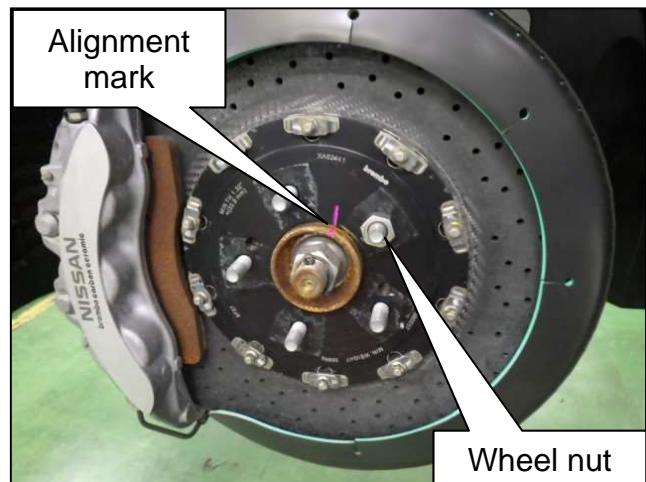


Figure 8

10. Remove the 3 brake caliper mounting bolts and then remove the brake caliper from the steering knuckle (Figure 9 and Figure 10).

- Place the removed brake caliper on a suitable jack wrapped in cloth (Figure 10).

CAUTION To avoid personal injury, remove brake dust with a dust collector. Do not use an air blow gun to remove brake dust.

NOTICE To prevent damage to the vehicle:

- Never use a power tool when removing the brake caliper mounting bolts.
- Never drop the brake pad and caliper assembly.
- Never hold the brake caliper tube.

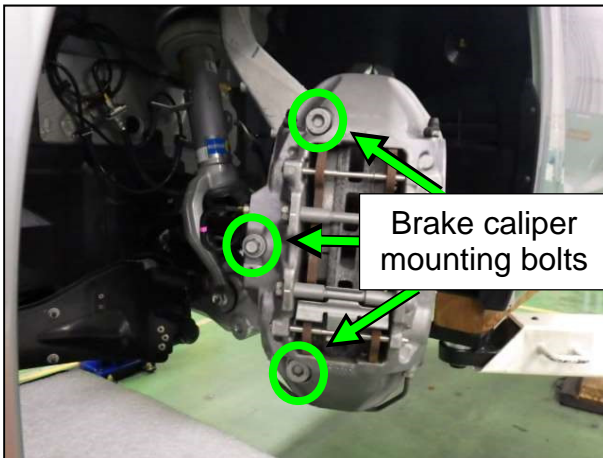


Figure 9



Figure 10

11. Remove the temporarily installed wheel nut and then remove the brake rotor.

NOTE: If equipped with NCCB, do not remove the disc rotor protector until the wheel and tire assembly has been installed.

12. Remove the cotter pin and loosen the wheel hub lock nut.

- Discard the cotter pin, it will not be reused.
- Loosen the wheel hub lock nut until the front face of the nut is even with the face of the drive shaft.

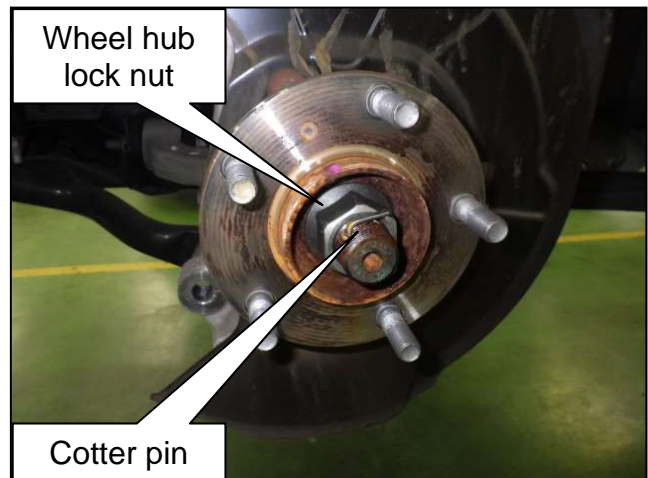


Figure 11

13. Using a piece of wood or a suitable tool, tap on the face of the wheel hub lock nut to disengage the drive shaft from the wheel hub.
- Once the drive shaft is disengaged from the wheel hub, remove the wheel hub lock nut and spring washer and discard, they will not be reused.

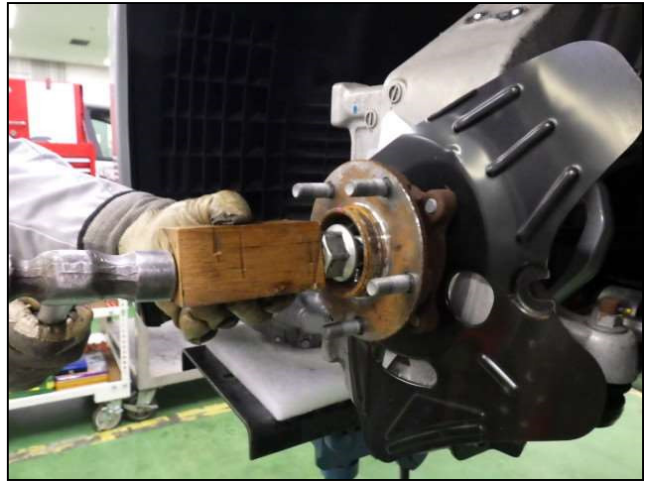


Figure 12

14. Remove the lower transverse link cotter pin and nut.
- Discard the cotter pin and nut, they will not be reused.

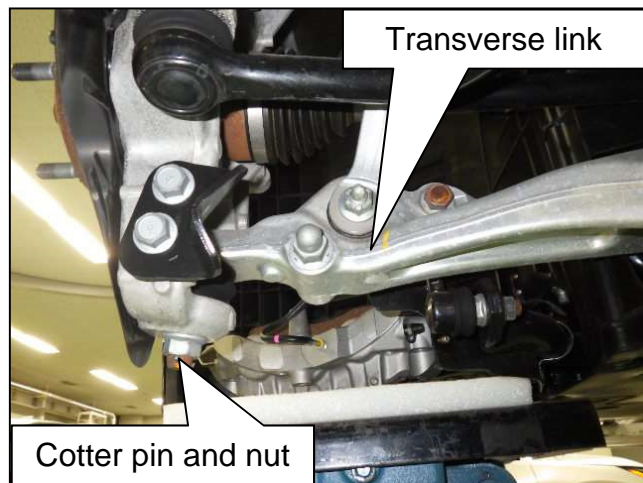


Figure 13

15. Remove the steering outer socket (tie rod end) cotter pin and nut.
- Do not discard the nut, it will be reused.
 - Discard the cotter pin, it will not be reused.

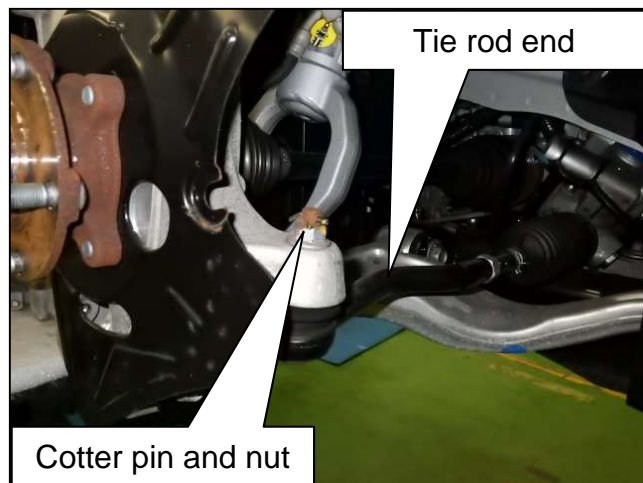


Figure 14

16. Remove the tie rod end from the steering knuckle.
- A ball joint remover may be used if needed.

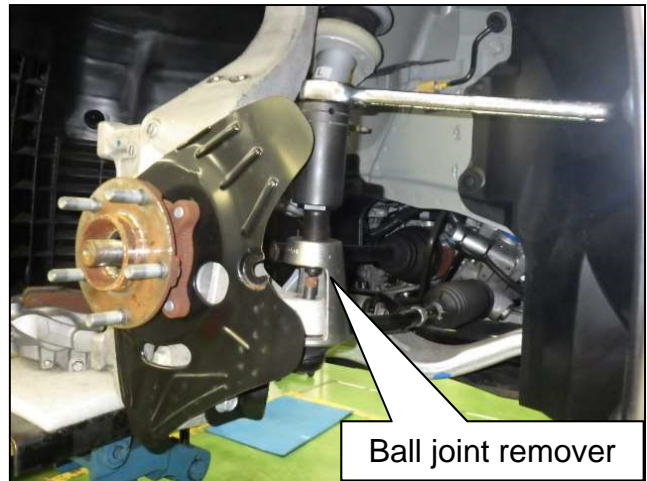


Figure 15

17. Remove the upper nut on the steering knuckle.
- Discard the nut, it will not be reused.

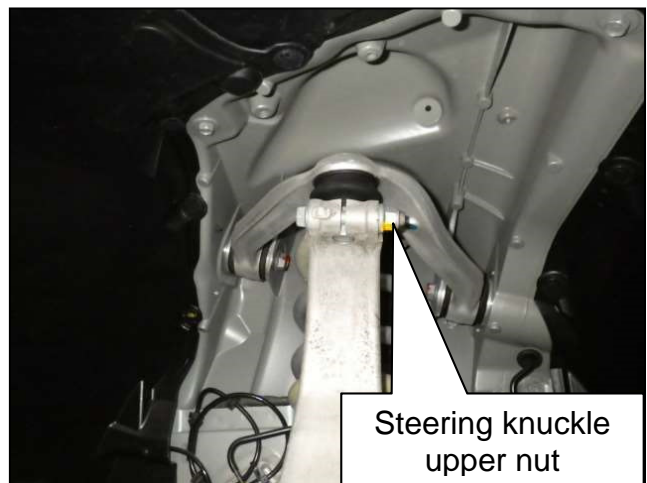


Figure 16

18. Lift up on the steering knuckle in order to separate from the upper link.



Figure 17

19. Remove the steering knuckle from the vehicle.



Figure 18

Replace The Steering Knuckle

20. Secure the steering knuckle assembly in a vise and remove the 4 wheel hub bolts.
- Separate the dust shield (Figure 20) and wheel hub (Figure 21) from the steering knuckle.

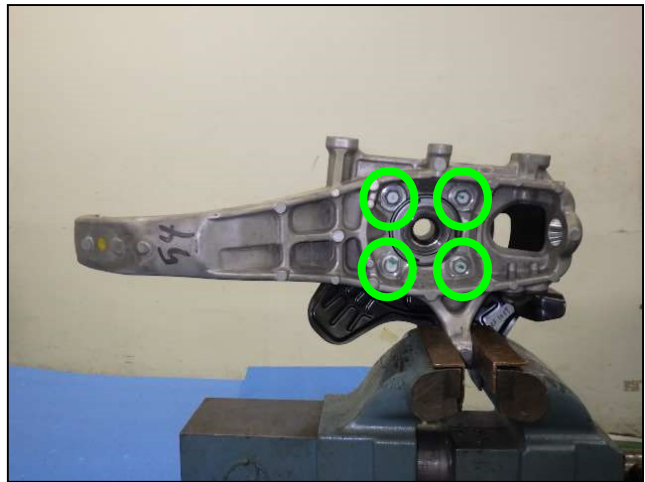


Figure 19



Figure 20



Figure 21

21. Remove the 2 bolts connecting the steering support bracket, and then remove the bracket.

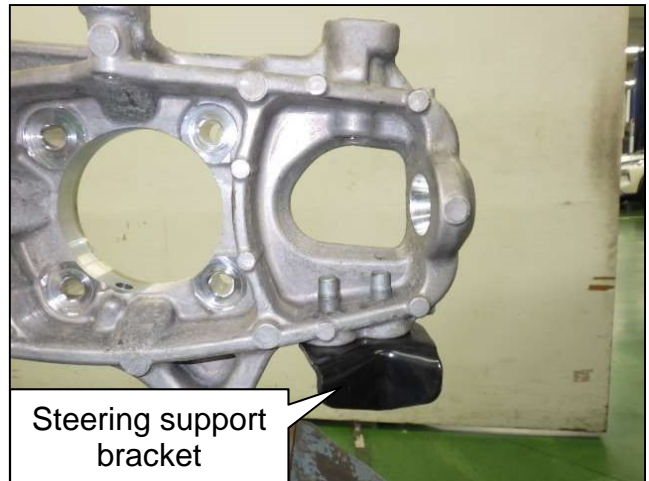


Figure 22

22. Secure the replacement steering knuckle in a vise.

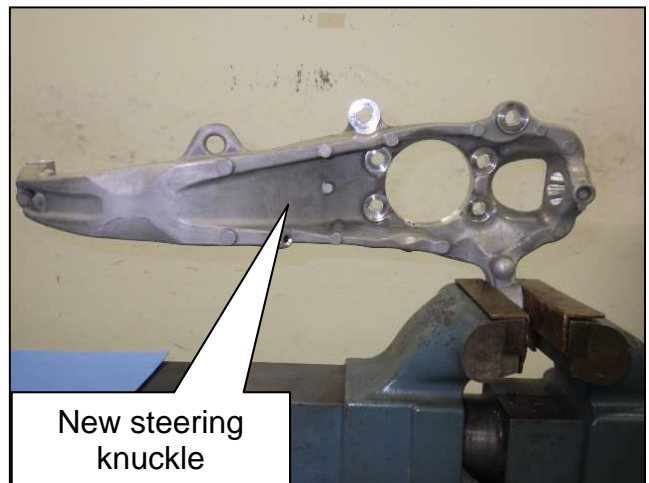


Figure 23

23. Install the steering support bracket to the replacement steering knuckle using the original bolts.

- Steering support bracket bolt torque: 72.5 N·m (7.4 kg-m, **54 ft-lb**)



Figure 24

24. Install the dust shield and wheel hub to the replacement steering knuckle using the original bolts.

- Wheel hub bolt torque: 88.3 N·m (9.0 kg-m, **65 ft-lb**)



Figure 25

Install The Replacement Steering Knuckle Assembly

NOTICE To prevent damage to the vehicle, ensure the drive shaft splines, drive shaft mating surface, and wheel hub mating surface are clean and free of debris.

25. Insert the drive shaft in to the wheel hub.



Figure 26

26. Place the transverse link ball joint into the steering knuckle.

- Do not install the nut at this time.

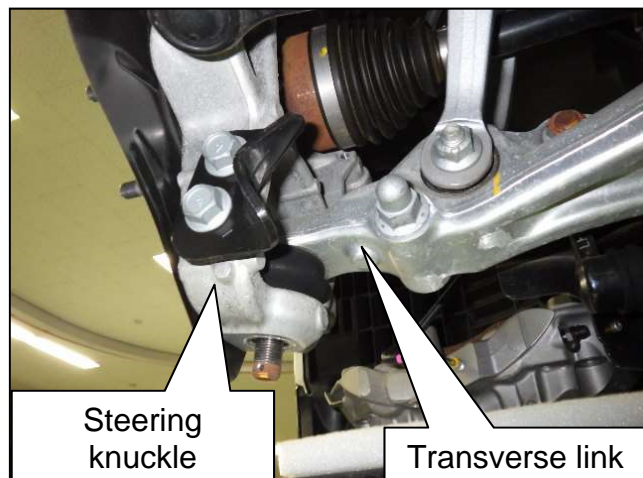


Figure 27

27. Lift up on the steering knuckle to attach the upper link and install a new nut.

- Upper link nut torque: 55.0 N·m (5.6 kg-m, **41 ft-lb**)

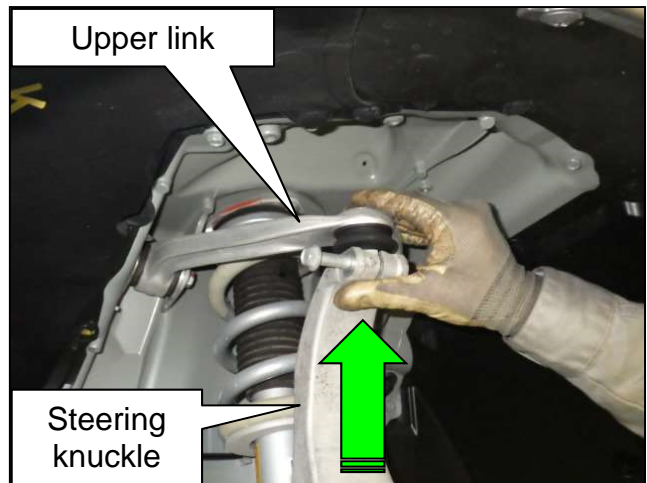


Figure 28

28. Install the tie rod end to the steering knuckle using the original nut and new cotter pin.

- Tie rod end nut torque: 45.0 N·m (4.6 kg-m, **33 ft-lb**)

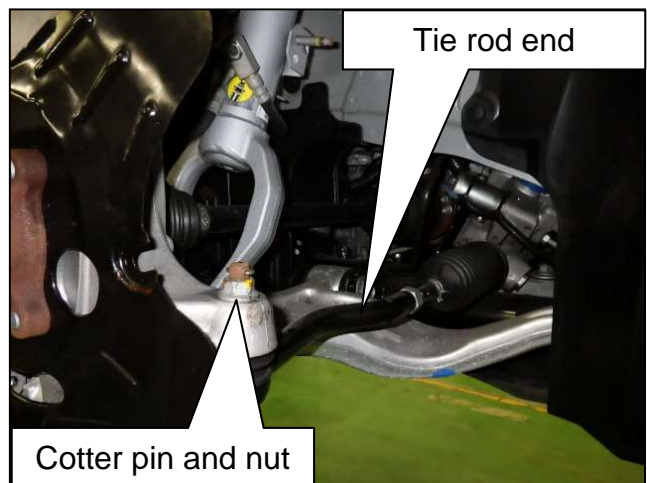


Figure 29

29. Install a new nut and cotter pin to the transverse link.

- Transverse link nut torque: 136.0 N·m (14.0 kg-m, **100 ft-lb**)

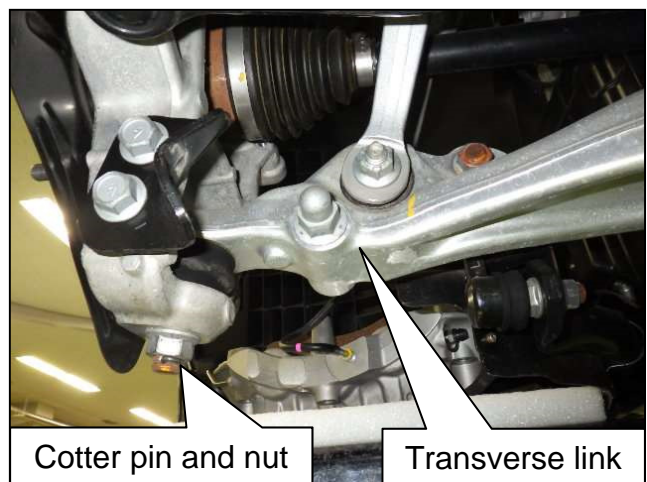


Figure 30

30. Install the brake rotor to the steering knuckle.

- Make sure the alignment mark on the brake rotor is aligned with the mark on the wheel hub.
- Temporarily install a wheel nut to hold the brake rotor in place.

NOTE: If equipped with NCCB, do not remove the disc rotor protector until the wheel and tire assembly has been installed.

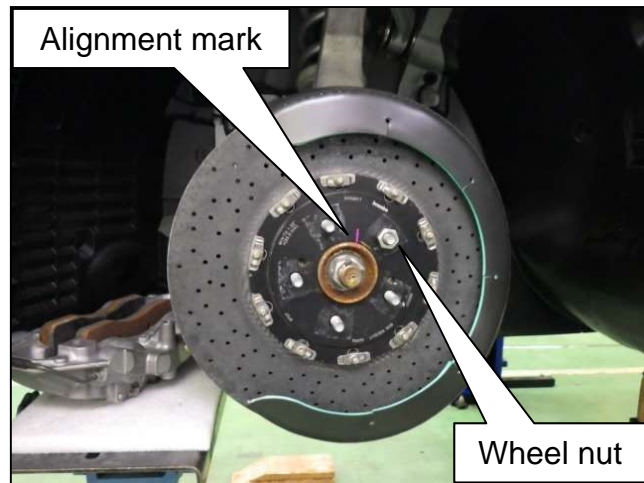


Figure 31

31. Install the brake caliper using the 3 original bolts.

- The caliper mounting bolts have different lengths. Verify bolt position before installing.

NOTE: Hand tighten the brake caliper mounting bolts, do not torque at this time.

NOTICE To prevent damage to the vehicle:

- Never use a power tool when installing the brake caliper mounting bolts.
- Never drop the brake pad and caliper assembly.
- Never hold the brake caliper tube.

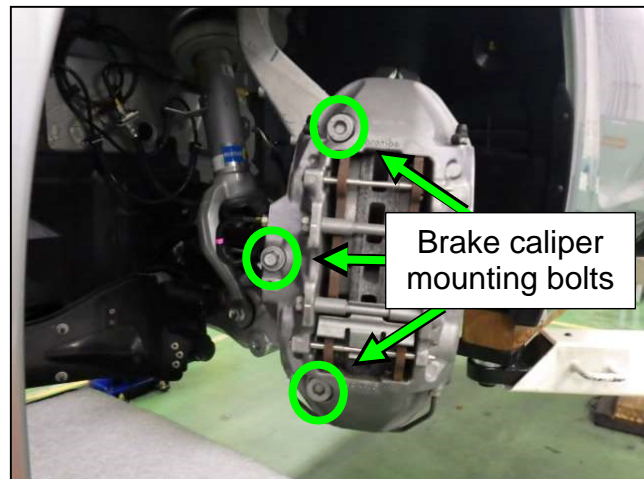


Figure 32

32. Install the brake hose bracket to the steering knuckle using the original 3 bolts.

- Brake hose bracket bolt torque: 13.2 N·m (1.3 kg-m, **120 in-lb**)

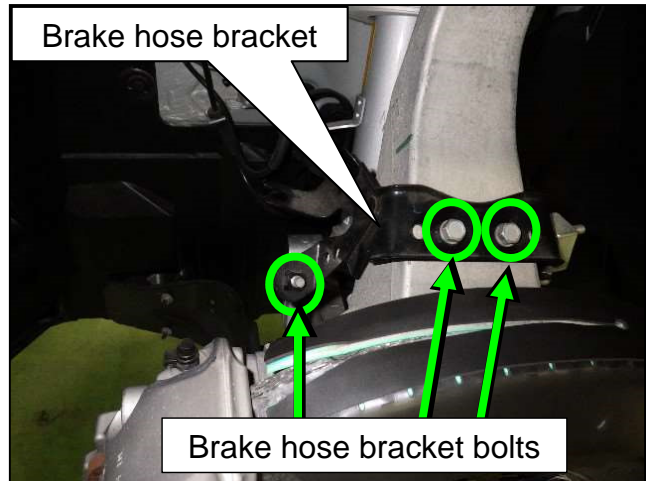


Figure 33

33. Install the brake hose to the brake hose bracket using new nuts.

- Brake hose nut torque: 9.0 N·m (0.9 kg-m, **84 in-lb**)

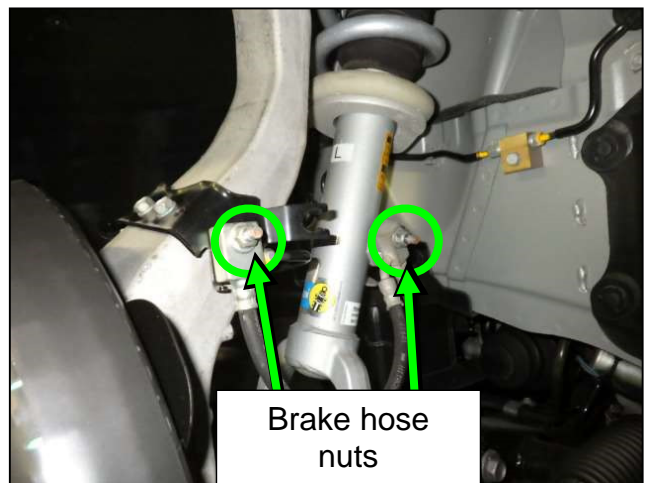


Figure 34

34. Install the wheel speed sensor to the steering knuckle using the original bolt (Figure 35).

- Speed sensor bolt torque: 9.0 N·m (0.9 kg-m, **84 in-lb**)
- Connect the 3 speed sensor harness grommets to the brake hose bracket (Figure 35 and Figure 36).

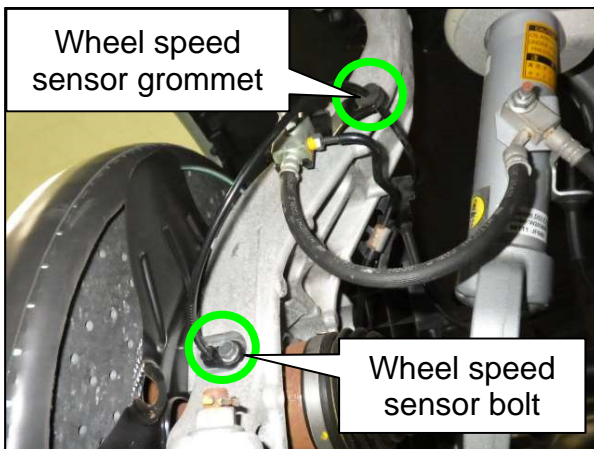


Figure 35

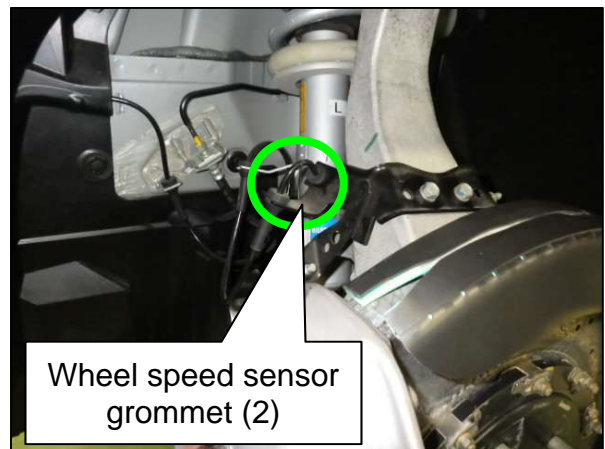


Figure 36

35. Install a new spring washer and wheel hub lock nut.

NOTE: When installing the spring washer, face the identification paint mark to the wheel hub bearing.

NOTICE To prevent damage to the vehicle:

- Never reuse the spring washer or wheel hub lock nut.
- Never use a power tool to tighten the wheel hub lock nut.
- When assembling the drive shaft, pull the driveshaft in until it is fully seated by tightening the wheel hub lock nut.



Figure 37

36. Torque the wheel hub lock nut in 3 steps and then install a new cotter pin.

- Wheel hub lock nut torque:
 - 1) Torque the lock nut to 225 N·m (23 kg-m, **166 ft-lb**)
 - 2) Loosen the lock nut
 - 3) Torque the lock nut to 350 N·m (36 kg-m, **258 ft-lb**)



Figure 38

37. Torque the 3 brake caliper mounting bolts in order of (A), (B), and (C) while the brake pedal is depressed (Figure 39 and Figure 40).
- Brake caliper mounting bolt torque:
 - Mounting bolts (A) and (B): 100.0 N·m (10.0 kg-m, **74 ft-lb**)
 - Mounting bolt (C): 25.0 N·m (2.6 kg-m, **18 ft-lb**)

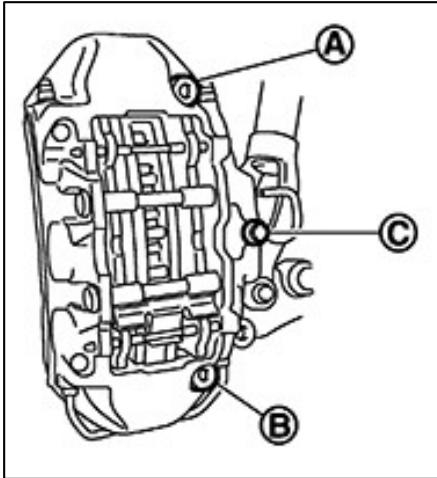


Figure 39

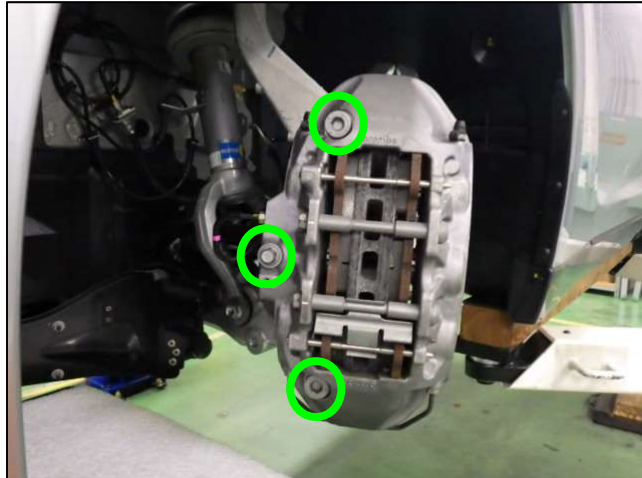


Figure 40

38. Replace the steering knuckle on the opposite side using steps 4 - 37 and then proceed to step 39.
39. Install both front wheel and tire assemblies.
- Wheel nut torque:
 - Type 1: 132 N·m (13 kg-m, **97 ft-lb**)
 - Type 2: 155 N·m (16 kg-m, **144 ft-lb**)

40. If the vehicle is equipped with Nissan Carbon Ceramic Brakes (NCCB), remove the disc rotor protector.



Figure 41

41. Perform a 4 wheel alignment.

42. Adjust the steering angle sensor neutral position using the CONSULT-III plus.
 - To adjust the steering angle sensor neutral position, refer to the ESM section below.
 - **BRAKES > BRAKE CONTROL SYSTEM > VDC/TCS/ABS > BASIC INSPECTION > INSPECTION AND ADJUSTMENT > ADJUSTMENT OF STEERING ANGLE SENSOR NEUTRAL POSITION**

IMPORTANT: Follow all cautions and notices in the ESM procedure.

PARTS INFORMATION

DESCRIPTION	PART NUMBER	QUANTITY
SPINDLE – KNUCKLE, RH (Steering Knuckle, RH)	D0014-JF00A	1
SPINDLE – KNUCKLE, LH (Steering Knuckle, LH)	D0015-JF00A	1
NUT – KNUCKLE SPINDLE	40262-EG000	2
NUT – KNUCKLE SPINDLE	40262-EG01A	2
NUT – LOCK (Brake Hose Nuts)	08918-6081A	4
NUT – LOCK, FRONT WHEEL BEARING (Wheel Hub Lock Nut)	40262-1CA0A	2
WASHER (Spring Washer)	40037-1CA0A	2
PIN – COTTER	08921-3252A	4
PIN – COTTER	40073-0L700	2

CLAIMS INFORMATION

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

CAMPAIGN (“CM”) ID	DESCRIPTION	OP CODE	FRT
R21A4	Replace Both Steering Knuckles	R21A42	4.6

AMENDMENT HISTORY

PUBLISHED DATE	REFERENCE	DESCRIPTION
July 6, 2021	NTB21-061	Original bulletin published