

# Your Ultimate Source for OEM Repair Manuals

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## 2015 Nissan NV2500 HD Service and Repair Manual

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## Removal and Installation

1 Remove tires. Refer to [Removal & Installation](#).

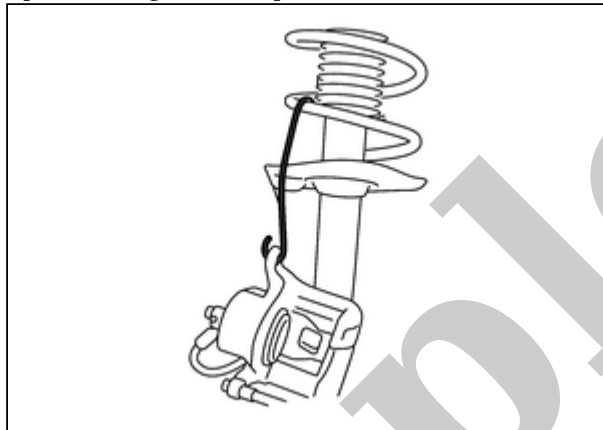
2 Remove front wheel sensor. Refer to [Removal & Installation](#).

**CAUTION:**

**Never pull wheel sensor harness.**

3 Remove lock plate from strut. Refer to [Exploded View](#).

4 Remove torque member and brake caliper and hang them in a place where it will not interfere with work.



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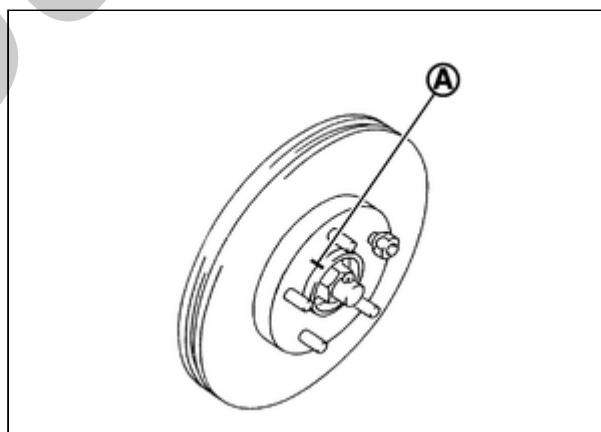
**CAUTION:**

**Never depress brake pedal while brake caliper is removed.**

5 Remove disc rotor.

**CAUTION:**

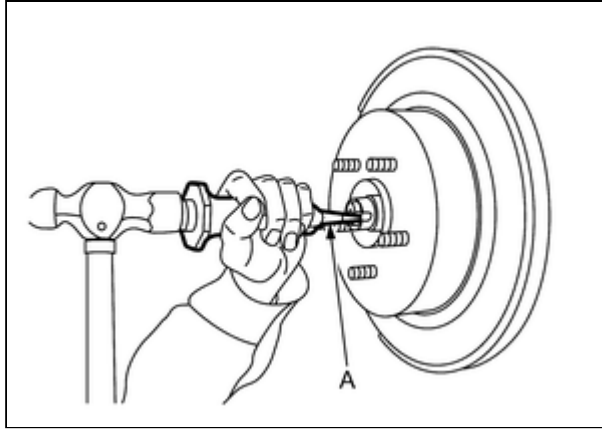
- Put align marks **(A)** on wheel hub assembly and disc rotor before removing disc rotor.



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- **Never drop disc rotor.**

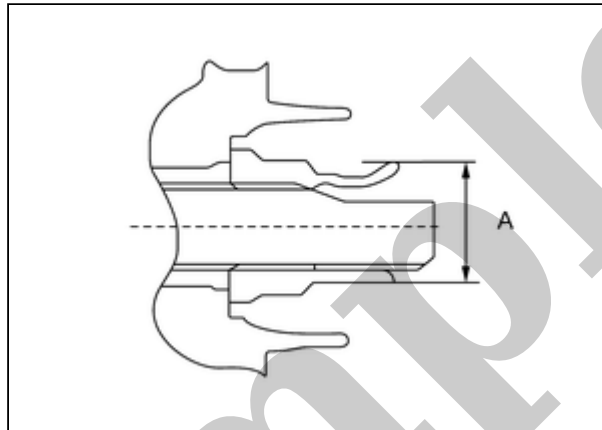
6 Using lock nut chisel (SST: KV40108800) (A), release staked area of wheel hub lock nut.



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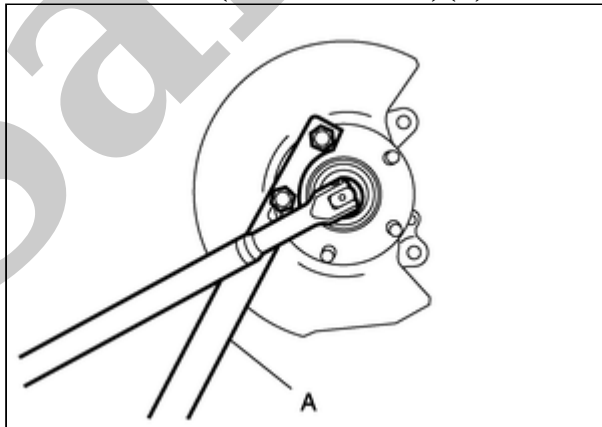
**CAUTION:**

**Released area (A) is 31 mm (1.22 in) of wheel hub lock nut.**



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7 Loosen wheel hub lock nut, using a hub lock nut wrench (SST: KV40104000) (A).



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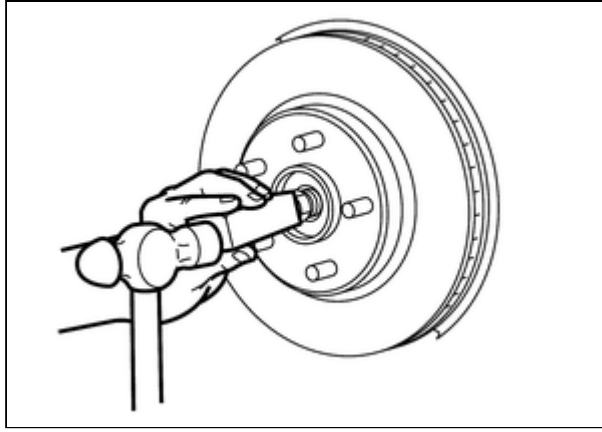
**CAUTION:**

- **Never use a power tool.**
- **When rotation of locknut does not turn smoothly, release staked area more.**

8 Remove steering outer socket. Refer to [Exploded View](#).

9 Remove transverse link. Refer to [Removal & Installation](#).

10 Patch wheel hub lock nut with a piece of wood. Hammer slightly the wood to disengage wheel hub from drive shaft.



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**CAUTION:**

Pay attention to the following points and fix drive shaft to vehicle side with a rope or the like.

- Never place drive shaft joint at an extreme angle.
- Also be careful not to overextend slide joint of drive shaft.



**NOTE:**

Use suitable puller, if wheel hub and drive shaft cannot be separated even after performing the above procedure.

11 Remove wheel hub lock nut.

12 Remove wheel hub assembly.

13 Remove splash guard.

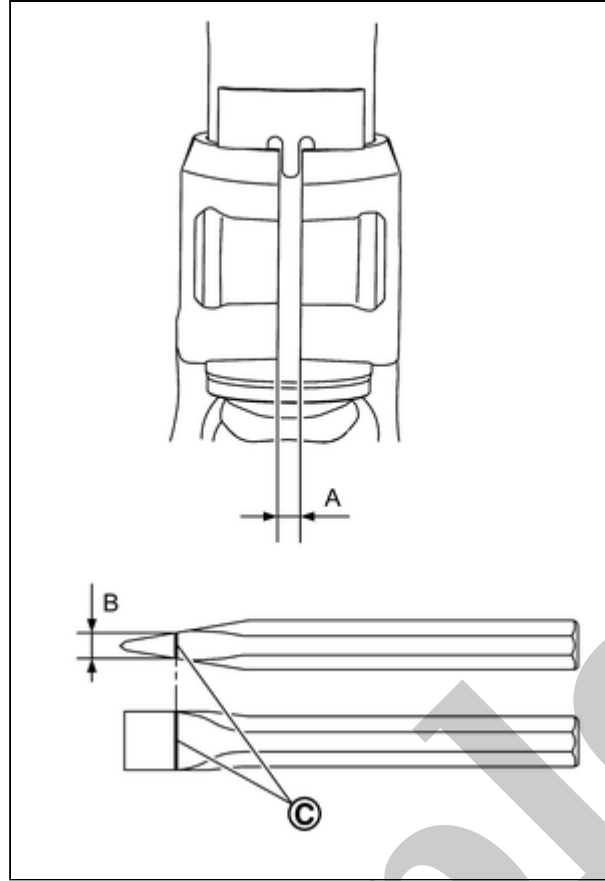
14 Separate the connection of strut and steering knuckle as the following procedure.

**CAUTION:**

Be sure to keep the following procedure because steering knuckle may be damaged when the gap of steering knuckle is enlarged too much.

a Remove connecting bolts and nuts between strut steering knuckle.

b Measure the gap (A) of the steering knuckle and determine sharpness (B) of flat chisel, and then put mark © on flat chisel as depth limit (B) to enlarge gap.



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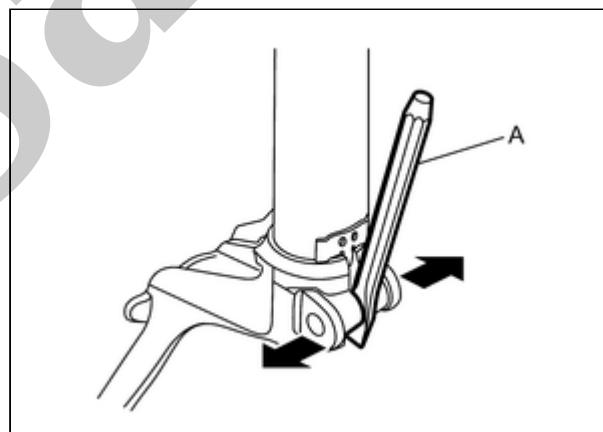
Sharpness (B) = gap (A) + 2.5 mm (0.098 in)



**NOTE:**

**Standard of gap:  $6.9 \pm 0.5$  mm ( $0.272 \pm 0.020$  in)**

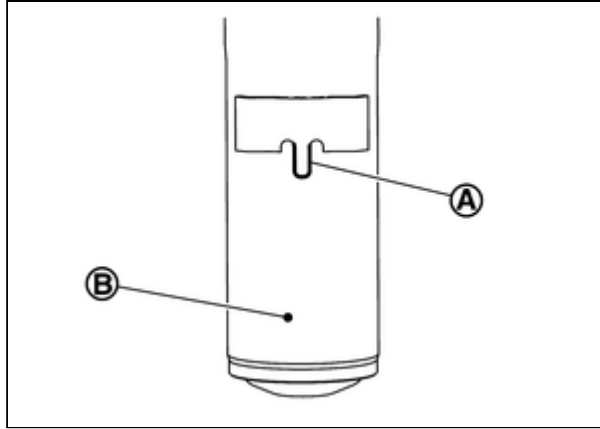
c Enlarge the gap of the steering knuckle with the chisel (A) (commercial service tool) not to surpass sharpness as shown in the figure.



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**CAUTION:**

- When lubricant is used during disassembly, degrease it with brake cleaner before connecting strut and knuckle.
- Be careful not to damage the projection (A) and strut (B) with flat chisel.



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- Never enlarge the gap more than 2.5 mm (0.098 in).

d Separate the connection of strut assembly and steering knuckle.

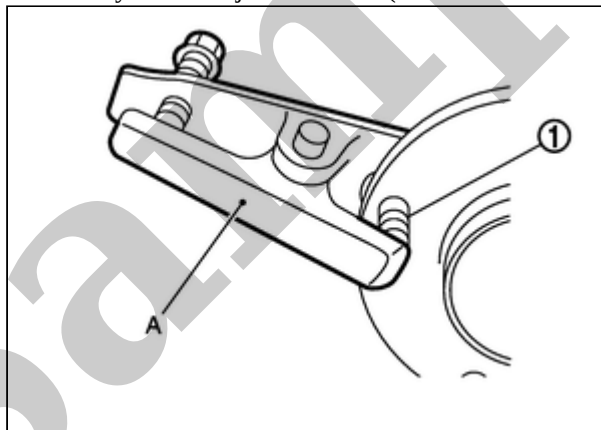
**CAUTION:**

Pay attention to the following points and fix drive shaft to vehicle side with a rope or the like.

- Never place drive shaft joint at an extreme angle.
- Also be careful not to overextend slide joint of drive shaft.

15 Remove steering knuckle.

16 Remove hub bolt ① from wheel hub assembly with ball joint remover (commercial service tool) (A).



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**CAUTION:**

- Remove hub bolt, only when necessary.
- Never hammer the hub bolt to avoid impact to the wheel bearing.
- Pull out the hub bolt in a direction perpendicular to the wheel hub.

17 Perform inspection after removal. Refer to [Inspection](#).

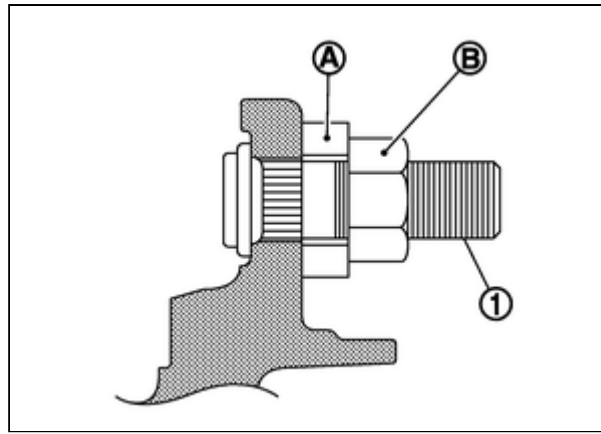
## INSTALLATION

Note the following, and install in the reverse order of the removal.

### Wheel hub

- When suspension component parts and steering component parts are removed, perform final tightening under unladen condition with tires on level ground after installation of the component parts.

- Place washer (A) to hub bolt (1) and install hub bolt with tightening force of nut (B).



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**CAUTION:**

- Check that there is no clearance between wheel hub, and hub bolt.
- Never reuse hub bolt.

- When replacing wheel hub assembly , clean the matching surface of drive shaft and then install drive shaft to wheel hub assembly.
- Tighten wheel hub nut to the specified tightening torque. Refer to [Exploded View](#)
- When reuse wheel hub assembly and disc rotor, install both to align with align marks put during removal.
- Perform inspection after installation. Refer to [Inspection](#).

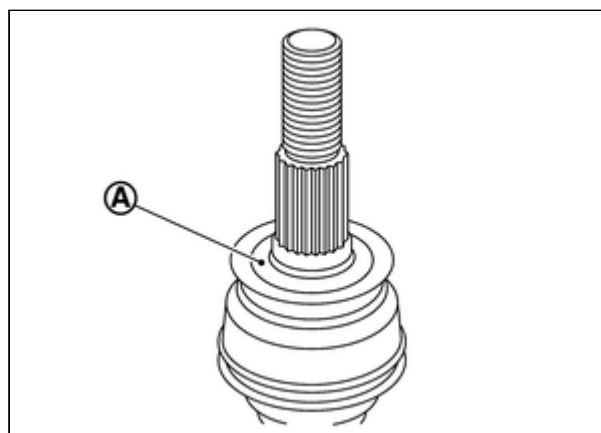
## Drive shaft

- Clean the matching surface of wheel hub lock nut and wheel hub.

**CAUTION:**

**Never apply lubricating oil to these matching surface.**

- Clean the matching surface of drive shaft and wheel hub. And then apply the following amount of paste [service parts (440037S000)] to surface of joint sub-assembly (A).



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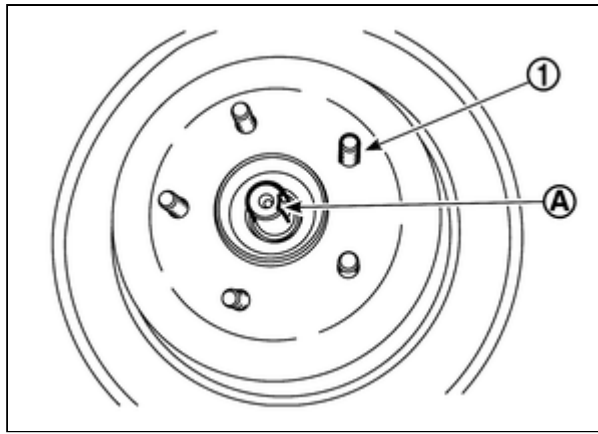
**CAUTION:**

**Apply paste to cover entire flat surface of joint sub-assembly.**

Amount of paste

: 1.0 – 3.0 g (0.04 – 0.10 oz)

- When installing drive shaft to wheel hub, never align drive shaft staked area (A) and one of hub bolts (1).



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- Use the following torque range for tightening the wheel hub lock nut.

Specified tightening torque	:205–230 N·m (21–23 kg-m)
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**CAUTION:**

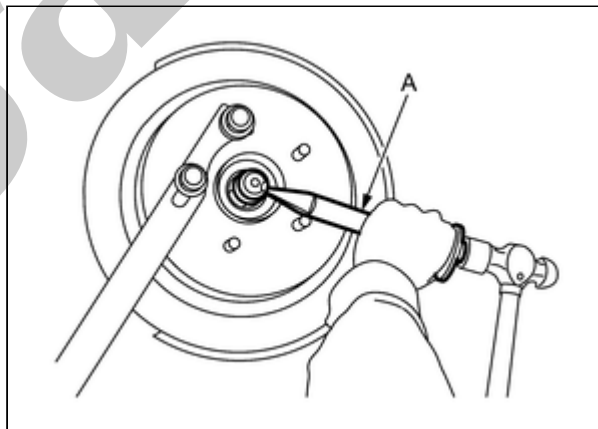
- Since the drive shaft is assembled by press-fitting, use the tightening torque range for the wheel hub lock nut.
- Be sure to use torque wrench to tighten the wheel hub lock nut. Never use a power tool.
- Never reuse wheel hub lock nut.



**NOTE:**

When wheel hub lock nut tightening torque is above the specified range, abnormal axle noise may occur. And when the tightening torque is below the specified range, loosening may occur.

- Using lock nut crimp punch (SST: KV40108700) (A), stake wheel hub lock nut to drive shaft.



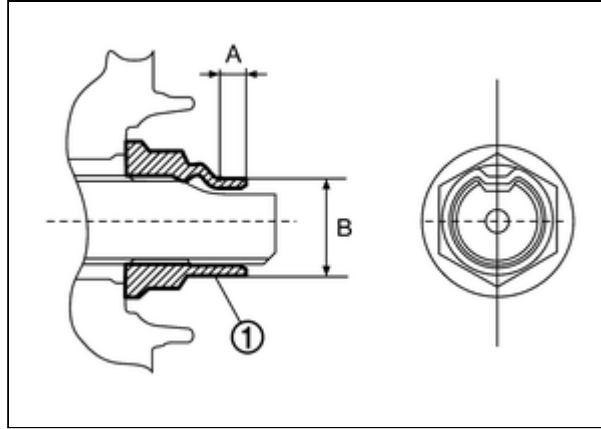
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**NOTE:**

Wheel hub lock nut (1) is staked within the following range.





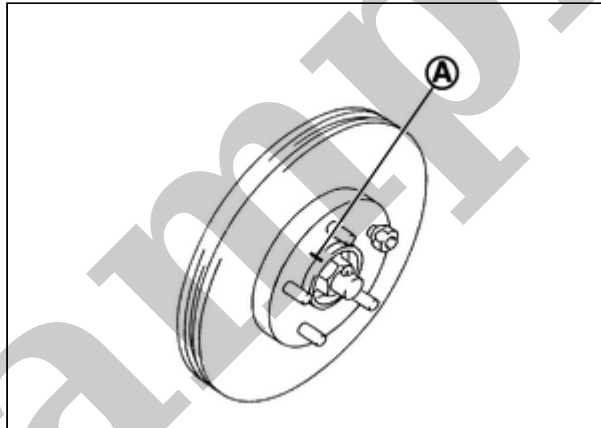
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A : 6.2 mm (0.244 in)

B : 26.4 – 27.8 mm (1.039 – 1.094 in)

## Disc rotor

- Align the marks **A** put during removal when reusing the disc rotor.



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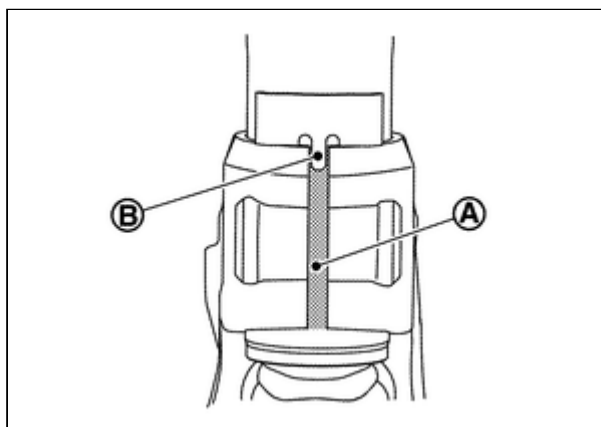
- Never drop disc rotor.

## Strut Assembly and Steering Knuckle Connection

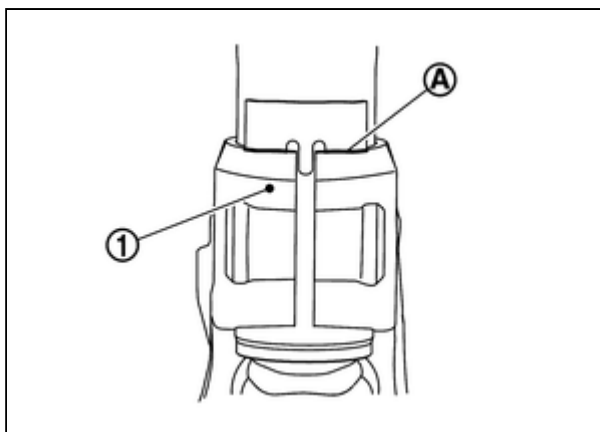
### CAUTION:

When lubricant is used to separate connection of strut and steering knuckle, remove lubricants with brake cleaner before connecting both again.

- Align the gap **A** of steering knuckle to the projection part **B** of strut.



- Tighten the mounting bolt and nut with pushing up the steering knuckle ① until it contacts lower end of stopper bracket ② end face, using a suitable jack.



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**CAUTION:****Check the stable condition when using a jack.**

Sample