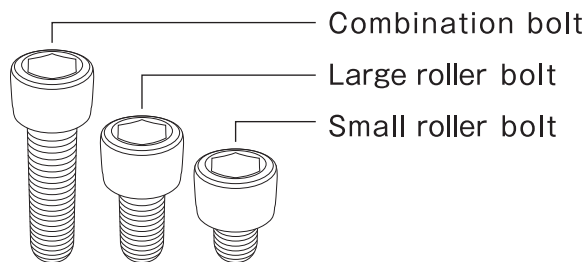
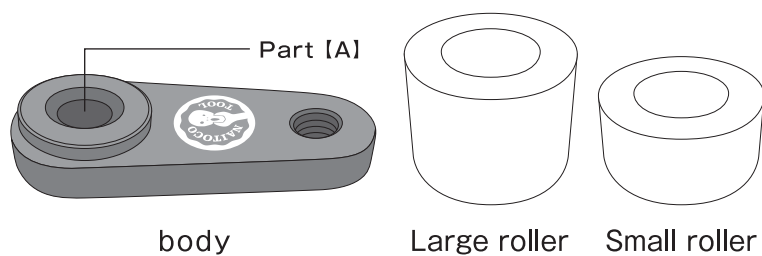


# Axle lock tool TWNT-001



- This tool is used for mounting and removing the center hub nut on the OUT side of the drive shaft and the flange mounting bolt on the IN side of the drive shaft.
- Can be used for disc brake cars.
- The drive shaft may slip when servicing the drive system, but it can be fixed by using this tool, and it can be easily removed, installed, and torque managed.
- To use the product correctly and safely, be sure to read this instruction manual before starting work, fully understand the contents, and follow the precautions.

## This tool configuration

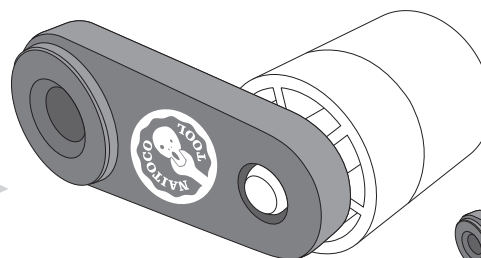
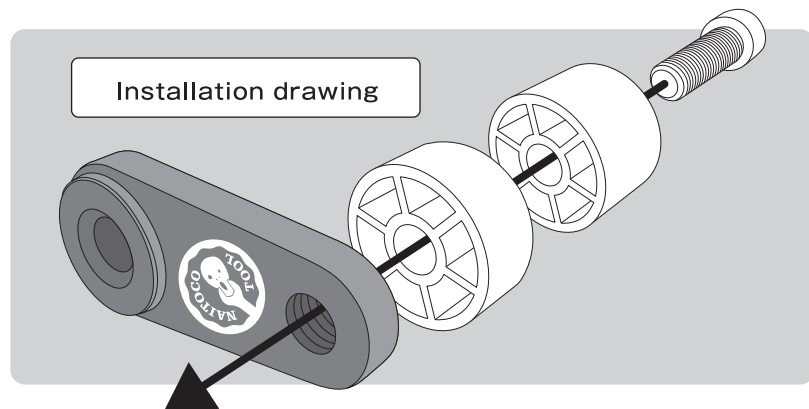


## Common precautions and conditions of use

- The logo mark surface of the body is adhesive. Being attached parallel to the rotor.
- The body is the caliper body and caliper. Must not be in contact with components.
- Roller is a disc rotor must not be in contact with the sliding surface.
- If the conditions are met, the logo surface of the body will be used on both the front and back.
- Maximum load 480Nm



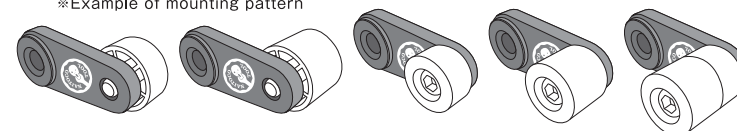
## Installation drawing



Attach the body and rollers with the attached bolts

There are 12 patterns that change with respect to the shape of the vehicle side components.

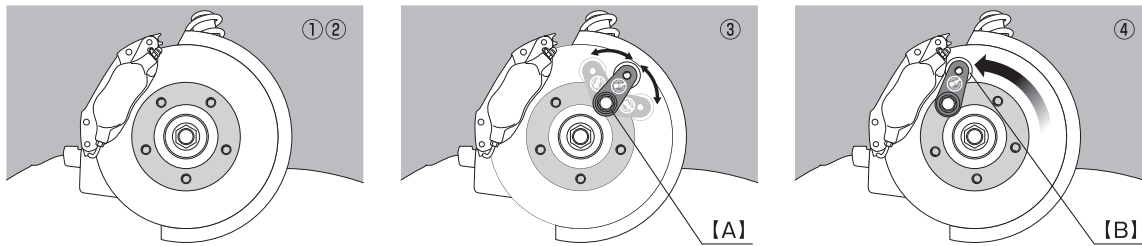
※Example of mounting pattern



## How to use the axle lock tool

### When removing the center hub nut (bolt) on the OUT side of the drive shaft

※The illustration is on the left.



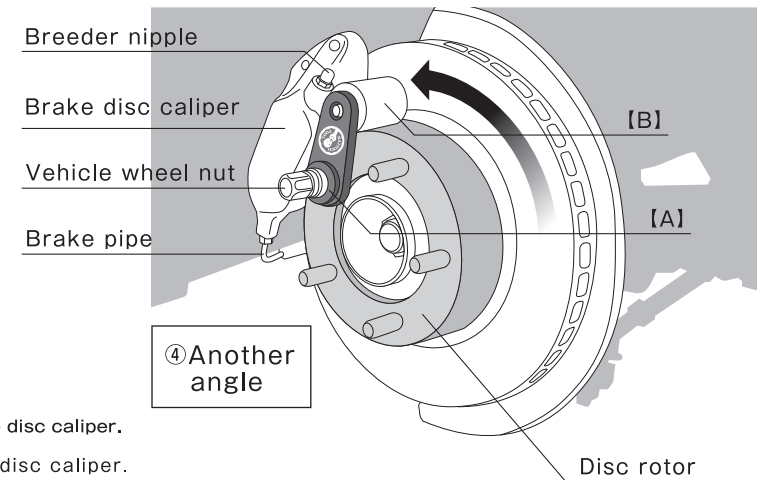
- ① Remove the tire foil from the vehicle.
- ② If the center hub nut has a detent notch or a cotter pin, remove it.
- ③ Insert the [A] part of this tool into the wheel mounting bolt coming out of the disc rotor and lightly tighten it with the wheel nut of the vehicle. at that time, make sure that this tool can move freely with part [A] as the fulcrum.
- ④ Rotate the disc rotor in the loosening direction of the center hub nut until the [B] part of this tool comes into contact with the brake disc caliper.



Note 1: This tool cannot be used when it comes into contact with the bleeder nipple or brake pipe of the brake disc caliper.

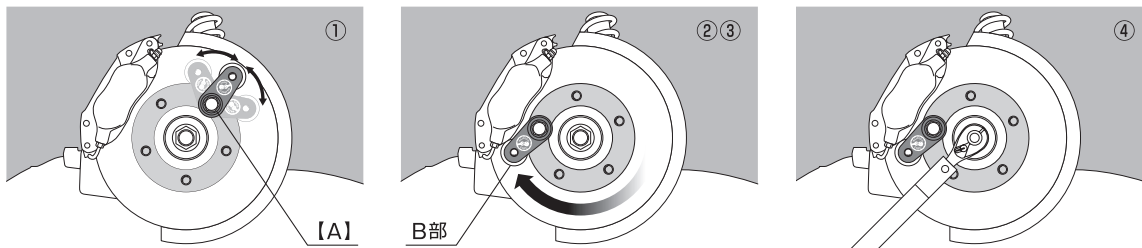
Note 2: Only part [B] of this tool can be used when it is in contact with the disc brake caliper body.

- ⑤ When this tool comes into contact with the disc brake caliper, tighten the wheel mounting bolts in part [A] so that the tool does not move by shaking it by hand.
- ⑥ Loosen the center hub nut with a suitable tool.



### When installing the center hub nut (bolt) on the OUT side of the drive shaft

※The illustration is on the left.



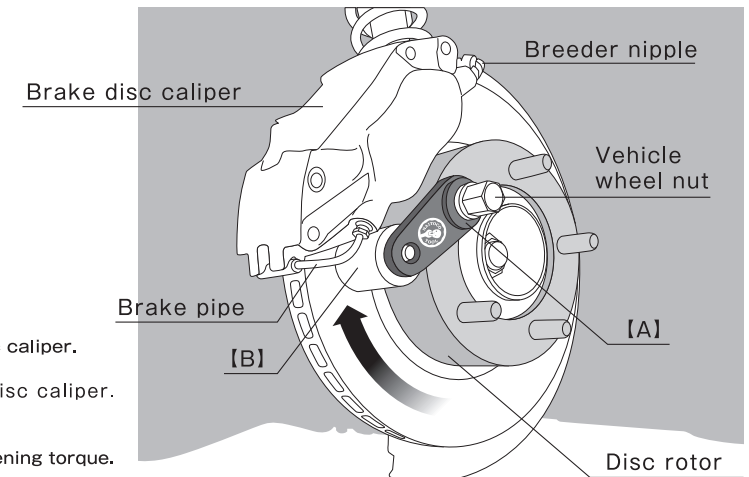
- ① Insert the [A] part of this tool into the wheel mounting bolt coming out of the disc rotor and lightly tighten it with the wheel nut of the vehicle. At that time, make sure that this tool can move freely with part [A] as the fulcrum.
- ② Rotate the disc rotor in the tightening direction of the center hub nut until part [B] of this tool comes into contact with the brake disc caliper.



Note 1: This tool cannot be used when it comes into contact with the bleeder nipple or brake pipe of the brake disc caliper.

Note 2: Only part [B] of this tool can be used when it is in contact with the disc brake caliper body.

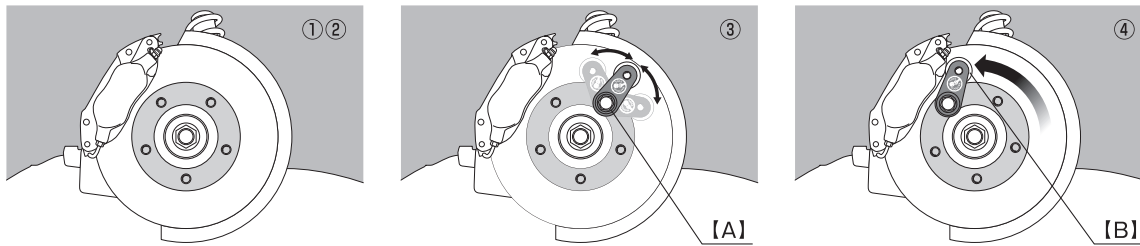
- ③ When this tool comes into contact with the disc brake caliper, tighten the wheel mounting bolts in part [A] to the specified wheel tightening torque.
- ④ Tighten the center hub nut with an appropriate tool.
- ⑤ Use a torque wrench to tighten to the specified tightening torque specified by the manufacturer.
- ⑥ If the center hub nut has a detent notch or a cotter pin, attach it. ..
- ⑦ Remove this tool.
- ⑧ Install the tire foil.



## How to use the axle lock tool

### When removing the flange bolt (nut) on the IN side of the drive shaft

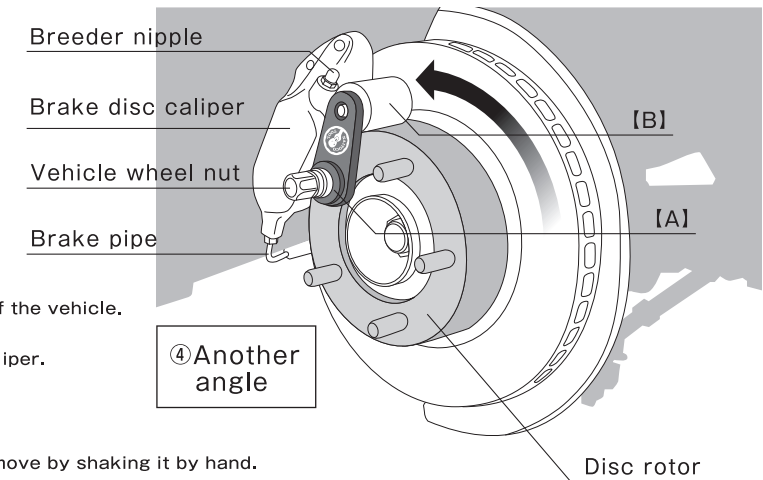
※The illustration is on the left.



- ① Remove the tire foil from the vehicle.
- ② Insert the [A] part of this tool into the wheel mounting bolt coming out of the disc rotor and lightly tighten it with the wheel nut of the vehicle. At that time, make sure that this tool can move freely with part [A] as the fulcrum.
- ③ The drive shaft IN side and the differential side flange are connected until the tool [B] comes into contact with the brake disc caliper. Rotate the disc rotor in the same loosening direction for the bolts (nuts).

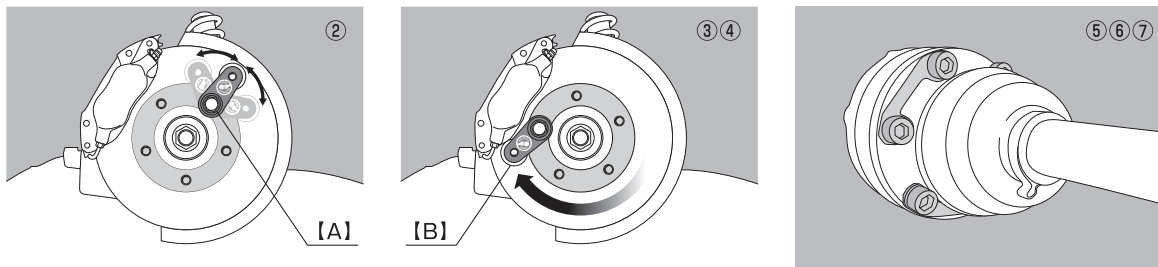
**⚠** Note 1: This tool cannot be used when it comes into contact with the bleeder nipple or brake pipe of the brake disc caliper.  
 Note 2: Only part [B] of this tool can be used when it is in contact with the disc brake caliper body.

- ④ When this tool comes into contact with the disc brake caliper, tighten the foil mounting bolt in part [A] so that the tool does not move by shaking it by hand.
- ⑤ Loosen the bolt (nut) that connects the IN side of the drive shaft and the flange on the differential side with an appropriate tool.
- ⑥ Normally, there are about 6 bolts (nuts), but if the bolts (nuts) are difficult to access due to obstacles in the vehicle components, remove this tool. Attach to the adjacent mounting bolt of the foil mounting bolt that was installed first, and repeat steps ② to ⑤ above.
- ⑦ When all are loosened, remove this tool.



### When installing the flange bolt (nut) on the IN side of the drive shaft

※The illustration is on the left.



- ① Remove the tire foil from the vehicle
- ② Insert the A part of this tool into the wheel mounting bolt coming out of the disc rotor and lightly tighten it with the wheel nut of the vehicle. At that time, make sure that this tool can move freely with part [A] as the fulcrum.
- ③ Connect the drive shaft IN side and the differential side flange part until the tool [B] part contacts the brake disc caliper. Rotate the disc rotor in the same tightening direction as the bolt (nut).

**⚠** Note 1: This tool cannot be used when it comes into contact with the bleeder nipple or brake pipe of the brake disc caliper.  
 Note 2: Only part [B] of this tool can be used when it is in contact with the disc brake caliper body.

- ④ When this tool comes into contact with the disc brake caliper, tighten the foil mounting bolt in part [A] so that the tool does not move by shaking it by hand.
- ⑤ Tighten the bolt (nut) that connects the IN side of the drive shaft and the flange on the differential side with an appropriate tool.
- ⑥ Normally, there are about 6 bolts (nuts), but if the bolts (nuts) are difficult to access due to obstacles in the vehicle components, remove this tool. Attach to the adjacent mounting bolt of the foil mounting bolt that was installed first, and repeat steps ② to ⑤ above.
- ⑦ Use a torque wrench to tighten the bolt (nut) that connects the IN side of the drive shaft and the flange on the differential side to the specified tightening torque specified by the manufacturer. If the torque wrench is difficult to access the bolts (nuts) due to obstacles in vehicle components, remove this tool and attach it to the adjacent mounting bolts of the foil mounting bolts that were installed first, and then install them from ② to ⑤ above. Repeat the process of and tighten to the specified torque.
- ⑧ Remove this tool after tightening all to the specified torque.
- ⑨ Please install the tire foil.

