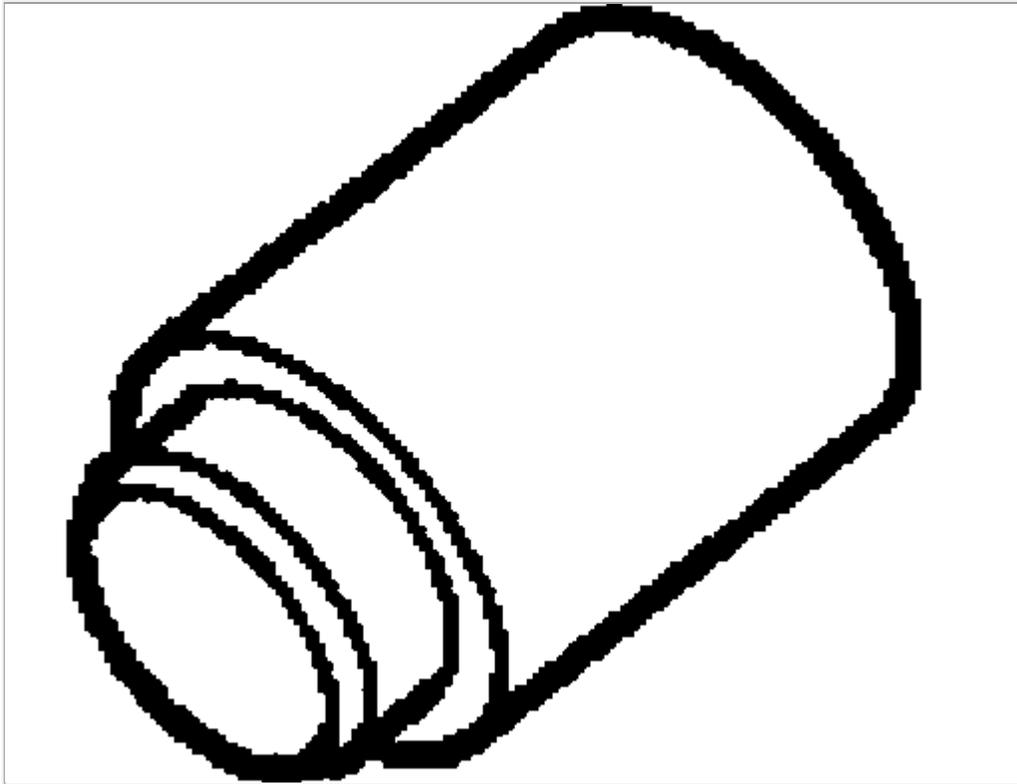


## Front Wheel Bearing

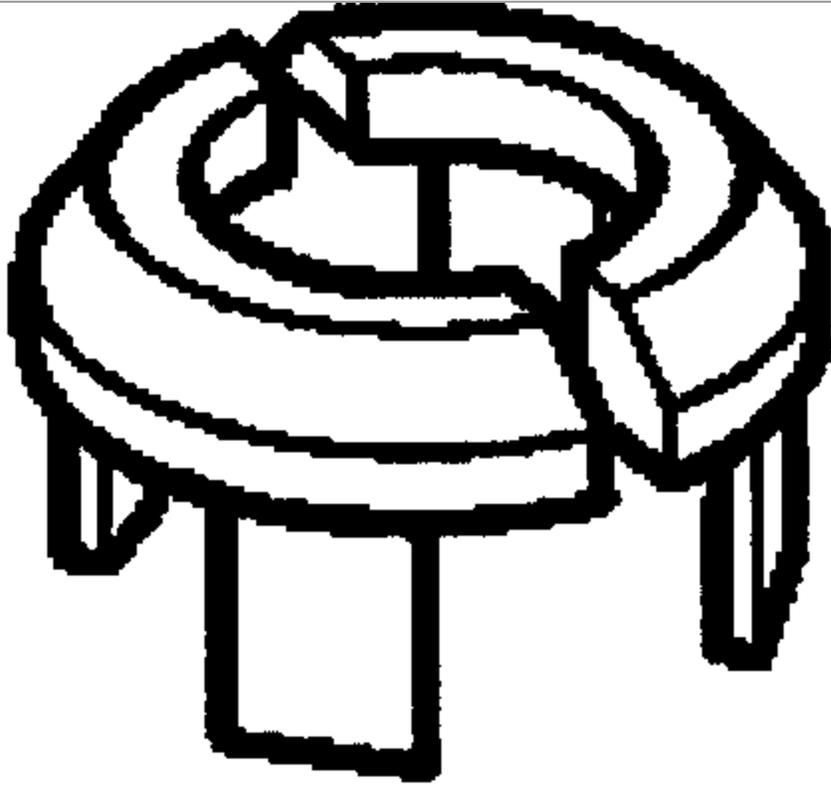
### Special Service tools



Zoom

Sized for Print

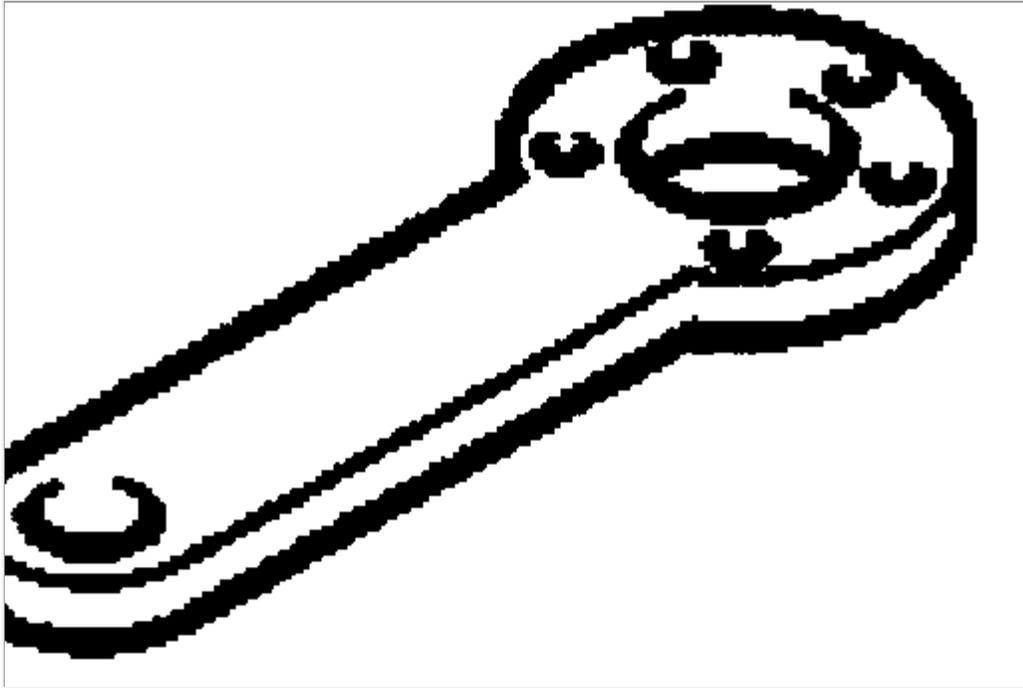
Hub Removal Collets 204-194 (JD 225)



**D.WST.002**

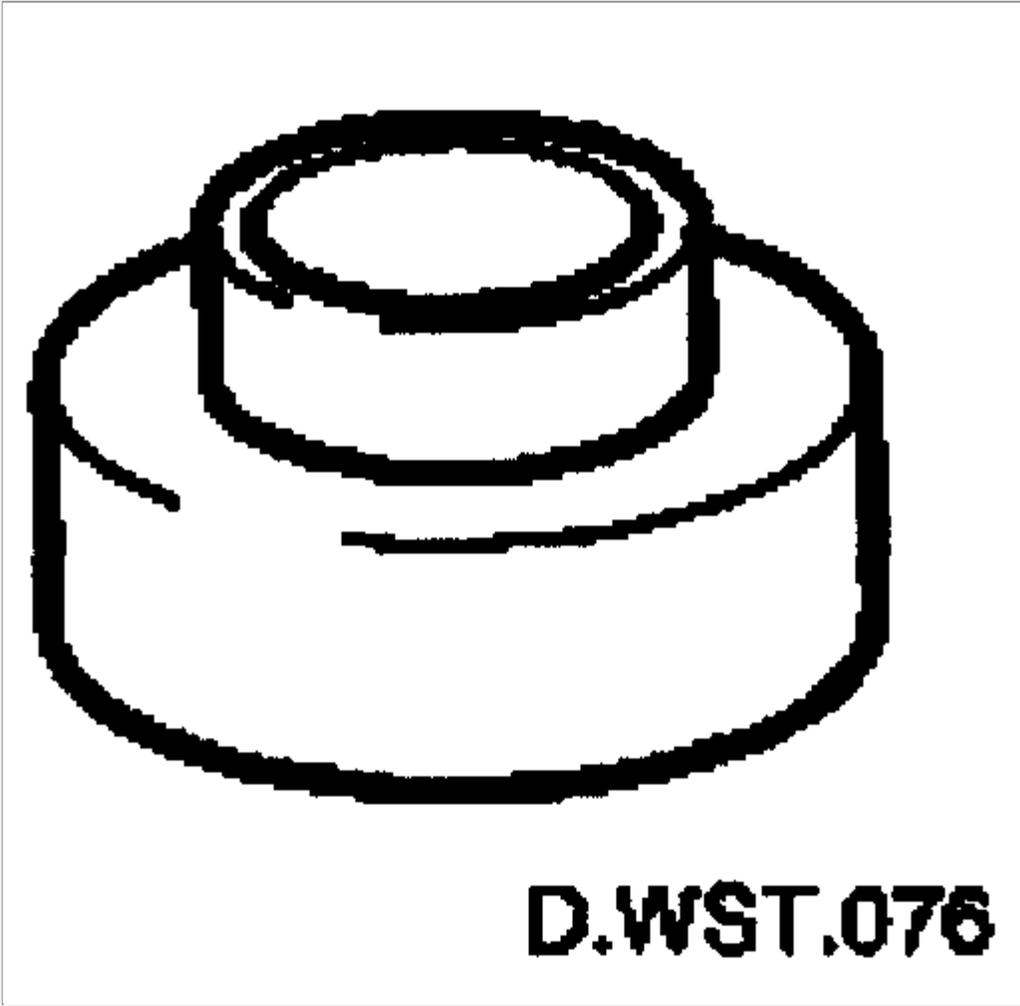
Zoom

Sized for Print



Zoom

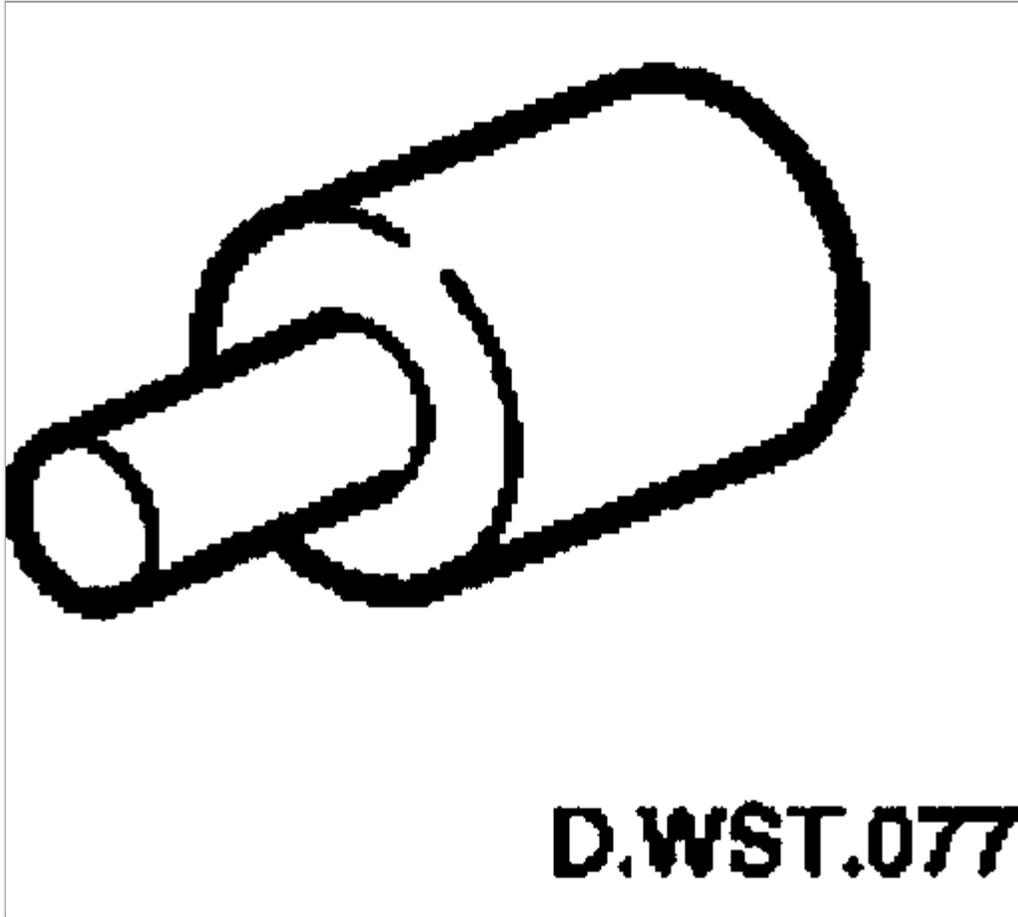
Sized for Print



Zoom

Sized for Print

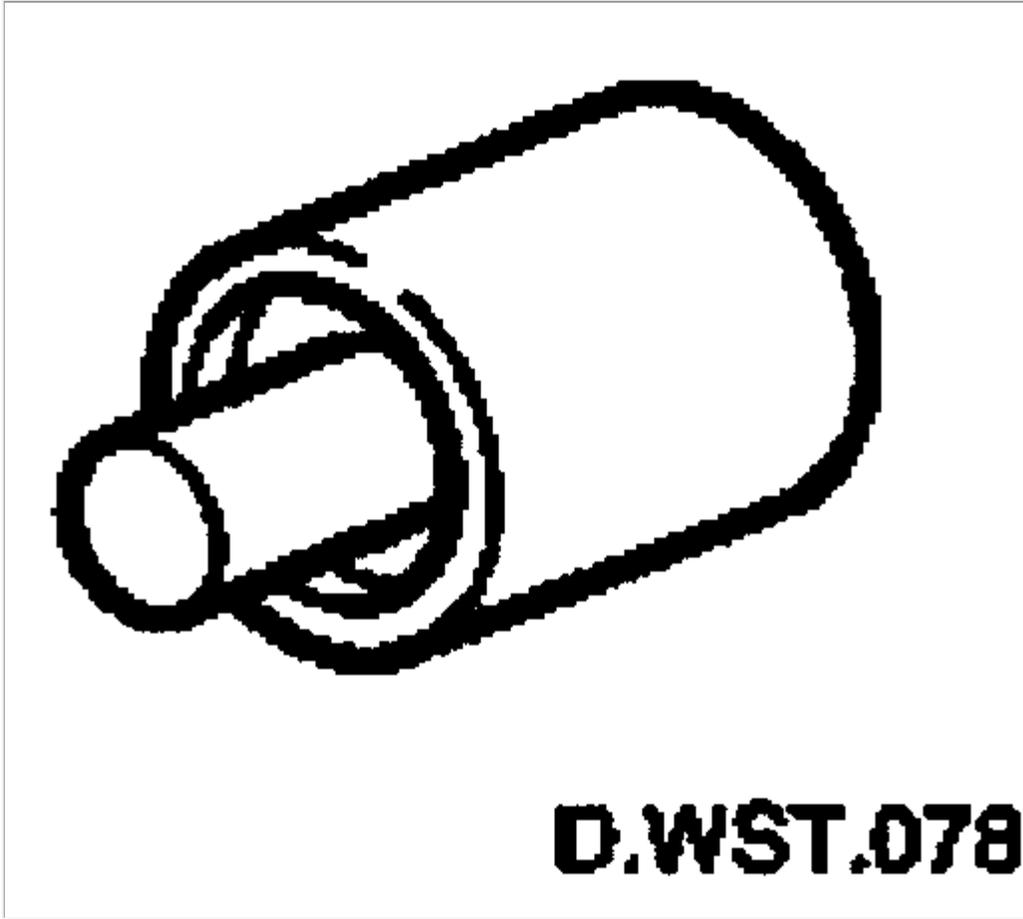
Wheel Bearing Remover 204-197 (JD 237)



Zoom

Sized for Print

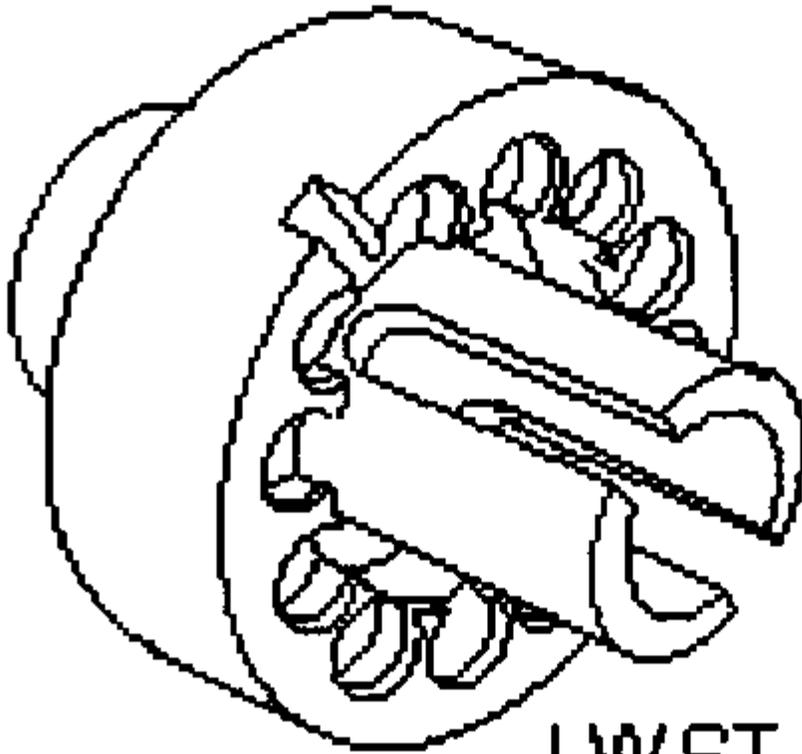
Wheel Bearing Replacer 204-198 (JD 238)



Zoom

Sized for Print

ABS Rotor Nut Socket 206-066A

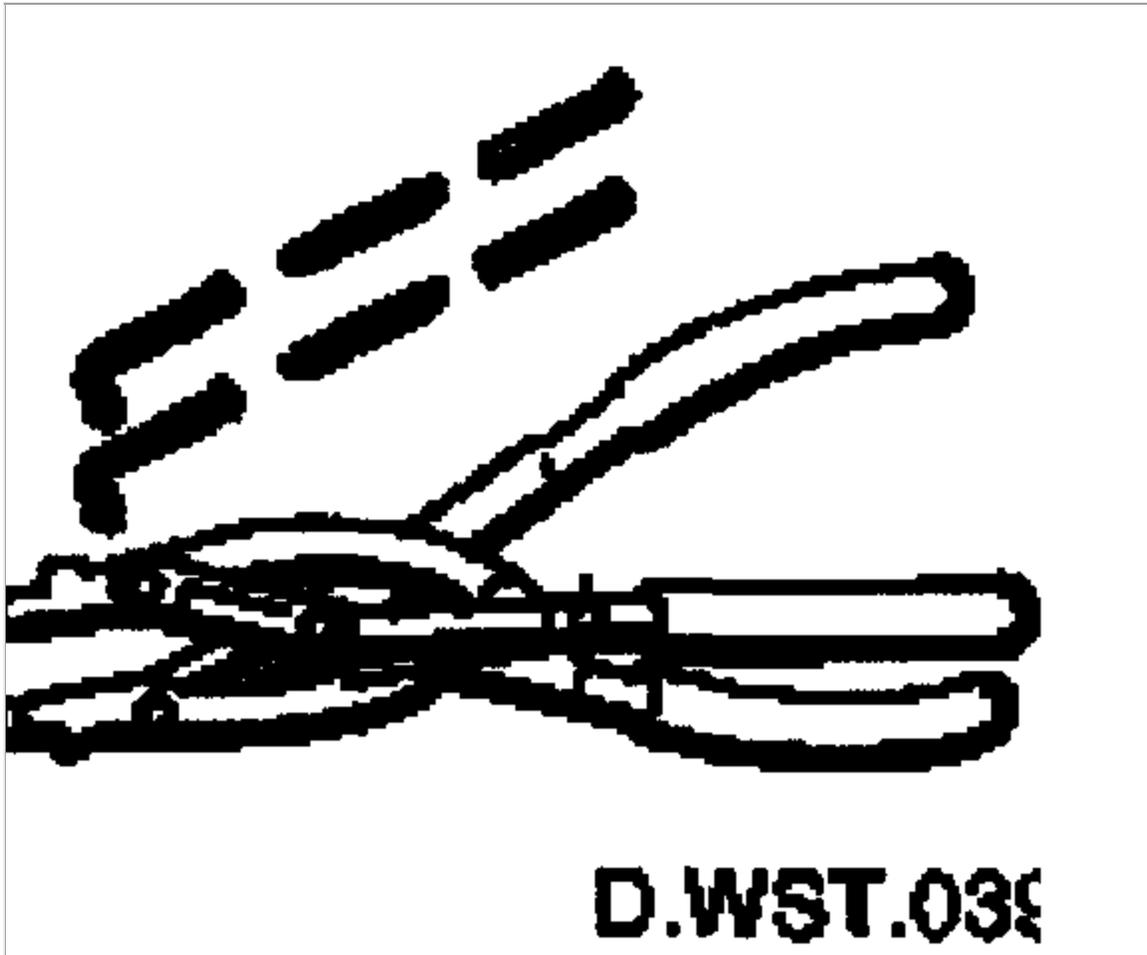


J.WST.095

## ABS Rotor Nut Socket

Zoom

Sized for Print



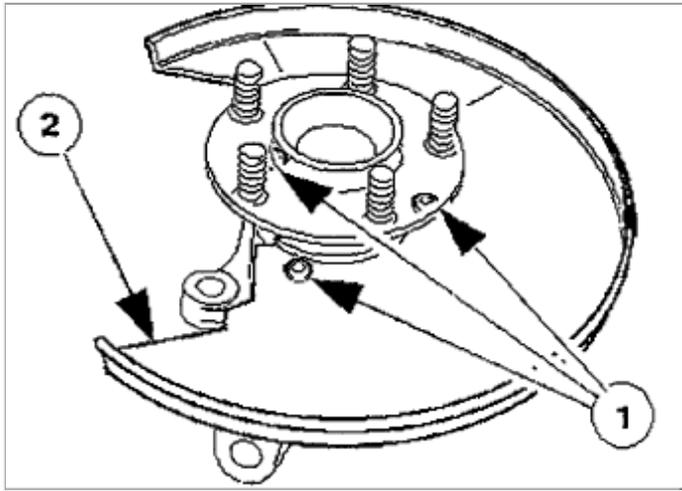
Zoom

Sized for Print

## Removal

**CAUTION:** Replacement of nuts and bolts: Various thread-locking devices are used on nuts and bolts throughout the vehicle. These devices restrict the number of times a nut or bolt can be used.

1. Remove vertical link and hub assembly. Refer to **Steering - Steering Knuckle - Service and Repair - Procedures**

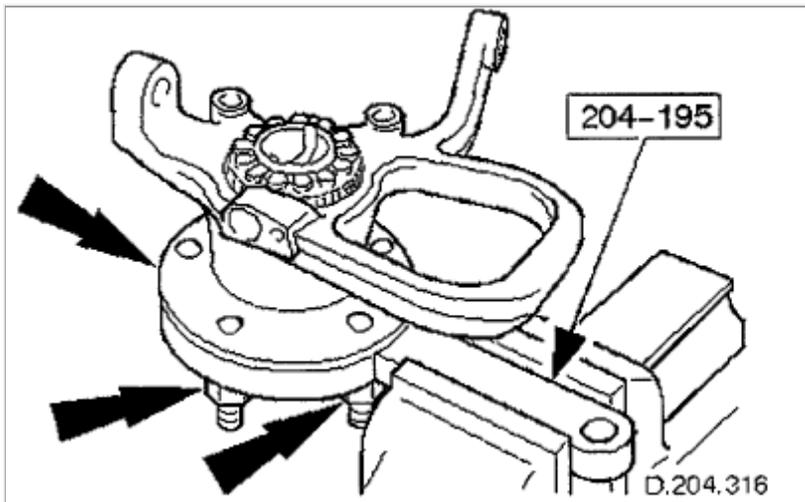


Zoom

Sized for Print

2. Remove brake-disc shield from vertical link.

- a. Remove screws.
- b. Remove disc shield.

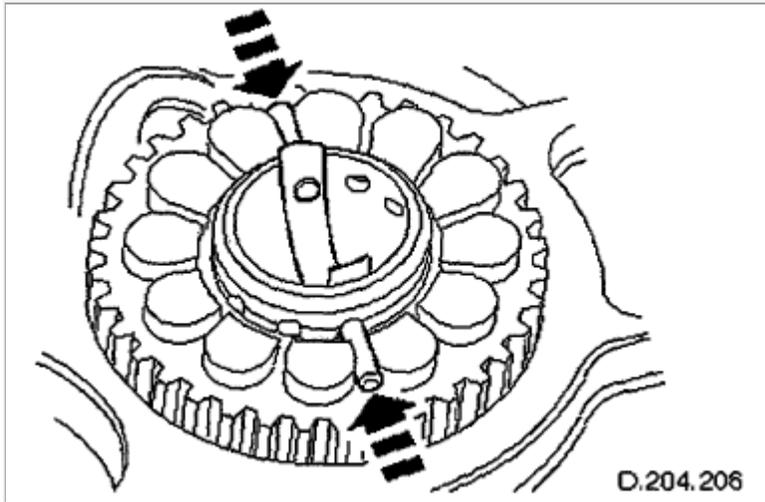


Zoom

Sized for Print

3. Using special tool, secure vertical link and hub assembly in a vice.

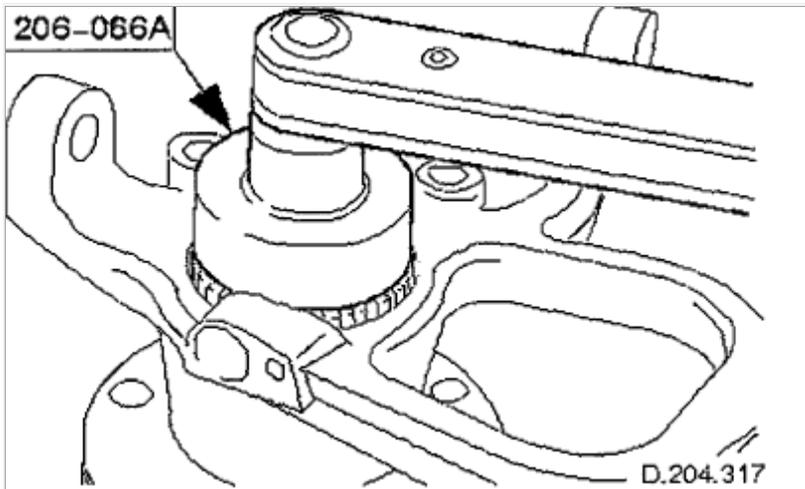
- a. Secure special tool in a vice.
- b. Position hub in tool.
- c. Install wheel nuts.



Zoom

Sized for Print

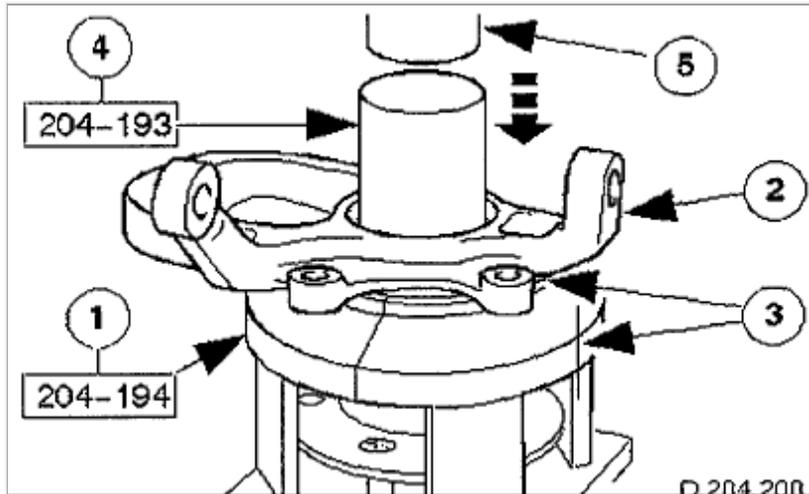
4. Remove rotor nut spring-clip.



Zoom

Sized for Print

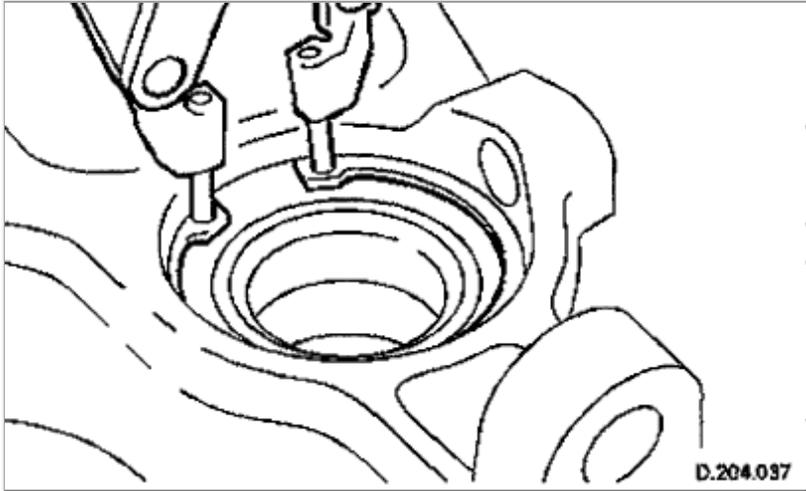
5. Remove rotor nut. Using special tool 206-066A remove rotor nut.
6. Remove vertical link and hub assembly from special tool.



Zoom

Sized for Print

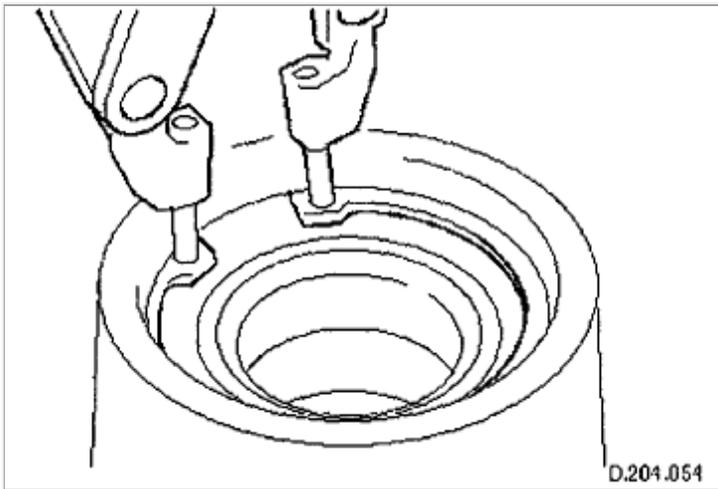
7. Using a hydraulic press, remove hub from vertical link.
  - a. Place special tool 204-194 on press bed.
  - b. Position vertical link and hub assembly into tool collets.
  - c. Make sure one of the disc shield screw-bosses is in the center of one of the tool collets.
  - d. Position special tool 204-193 on top of hub.
  - e. Operate press to remove hub from vertical link.



Zoom

Sized for Print

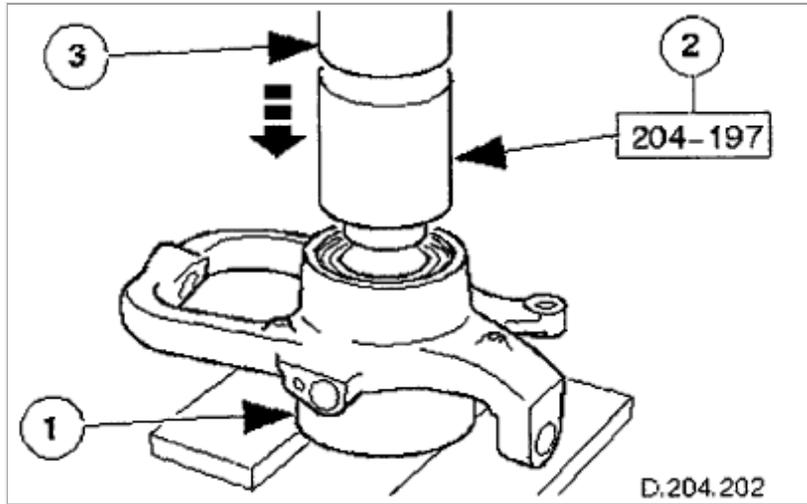
8. Using special pliers remove and discard the inboard circlip from the vertical link.



Zoom

Sized for Print

9. Using special pliers remove and discard outboard circlip from the vertical link.



Zoom      Sized for Print

10. Using a hydraulic press, remove wheel bearing from vertical link.

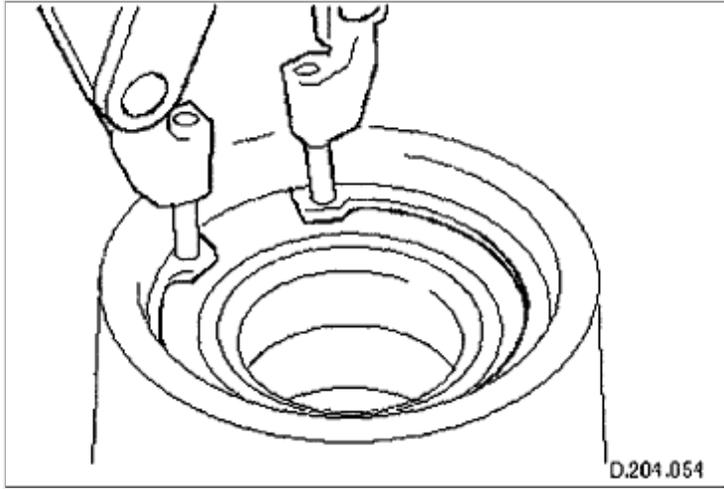
**NOTE:** Make sure the vertical link is level, and the supports are situated as near to the bearing bore as possible.

- a. Position the vertical link so that the inboard side of the bearing bore is resting on suitable supports on the press-bed.
- b. Position special tool 204-197 on top of bearing.
- c. Operate press to remove bearing from vertical link, discard bearing.

11. Clean relevant parts.

## Installation

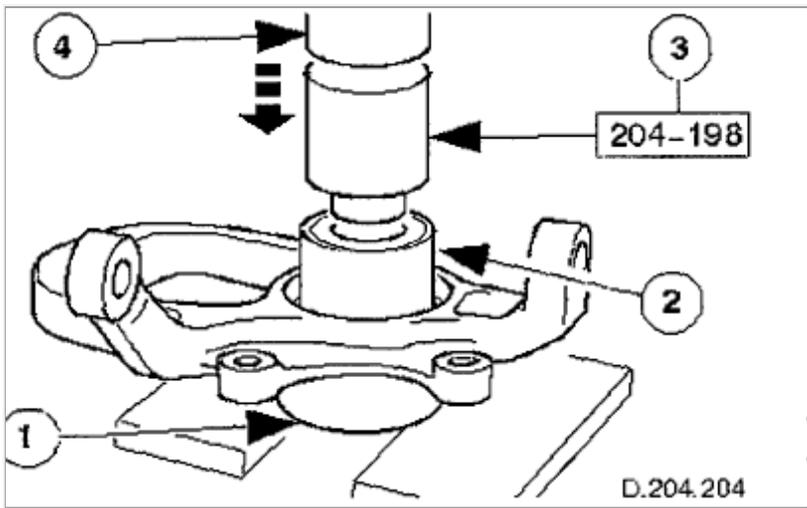
**NOTE:** The gap between the ears of the circlip must be positioned so that it is in the lowest position of the bore when the vertical link is fitted to the vehicle.



Zoom

Sized for Print

1. Fit outboard circlip to the vertical link.

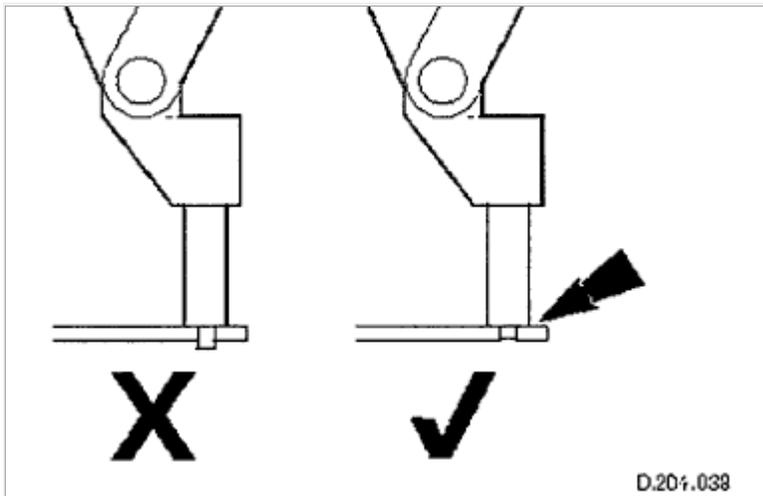


Zoom

Sized for Print

2. Using a hydraulic press, install bearing into the vertical link.
  - a. Position vertical link on the press bed with outboard side of the vertical link

- face down.
- b. Position wheel bearing to vertical link.
  - c. Position special tool on top of wheel bearing.
  - d. Operate press to install bearing, applying a three ton load ensure that the bearing is fully seated.

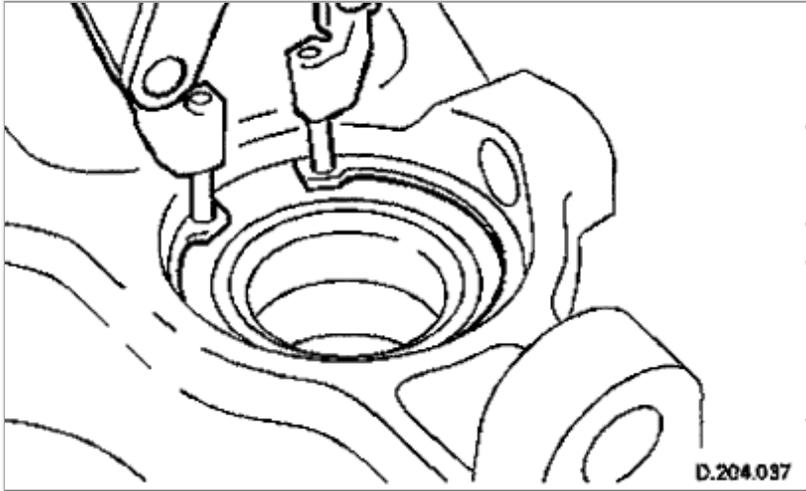


Zoom

Sized for Print

3. **CAUTION:** To prevent damage to the integral wheel-bearing seal, select a set of ends for the circlip pliers which do not protrude through the circlip ears.

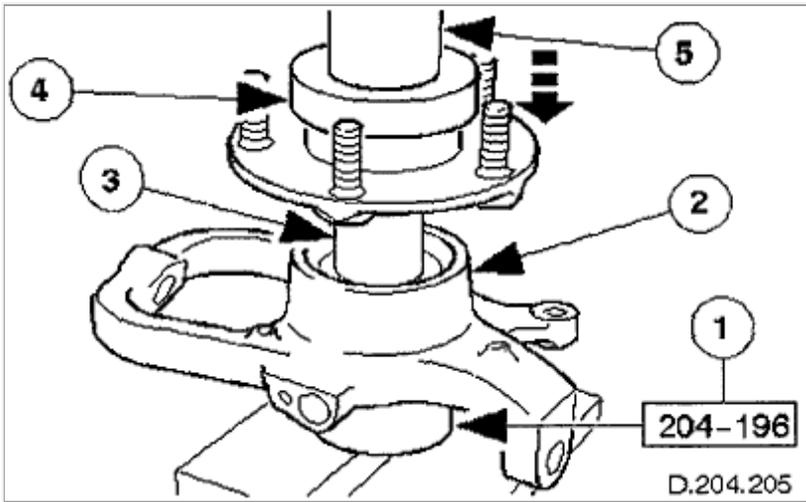
**NOTE:** The gap between the ears of the circlip must be positioned so that it is in the lowest position of the bore, when the vertical link is fitted to the vehicle.



Zoom

Sized for Print

4. Fit inboard circlip to the vertical link.



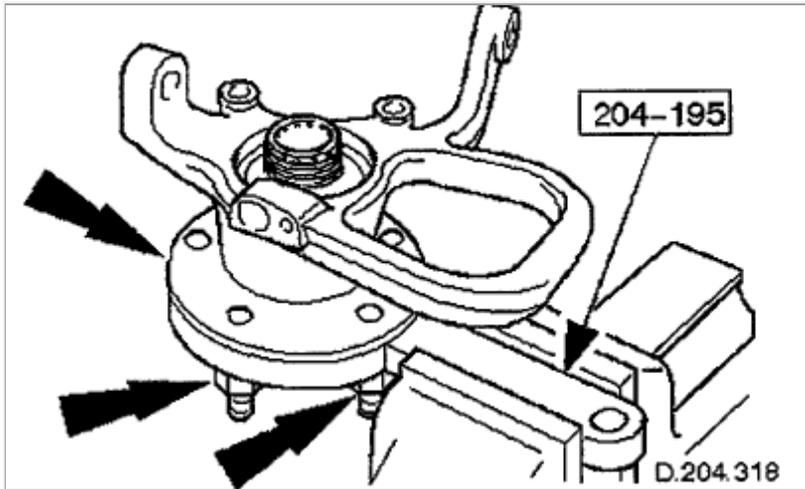
Zoom

Sized for Print

5. Using a hydraulic press, install hub into vertical link.

a. Position special tool onto press bed.

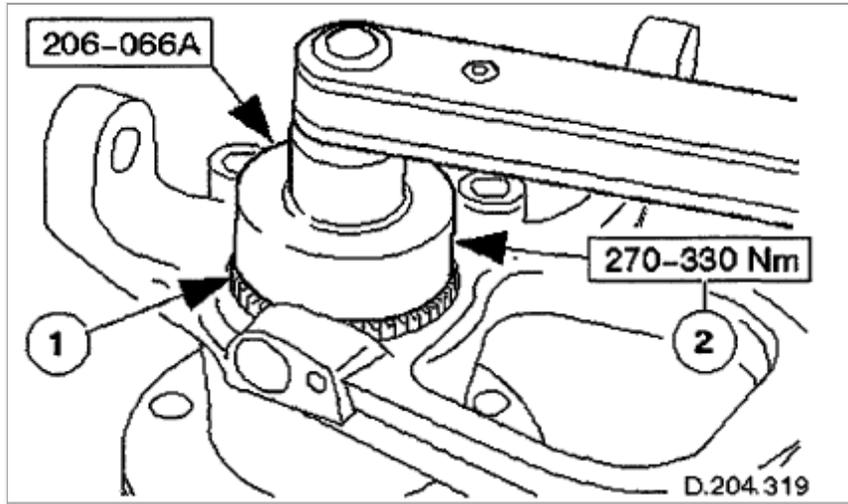
- b. Position the vertical link, with the inboard-side face down.
- c. Position hub to bearing.
- d. Position a flat steel plate across the face of the hub, DO NOT place plate across wheel studs.
- e. Operate press to fit the hub, applying a three-ton load to ensure the hub is fully seated in bearing.



Zoom

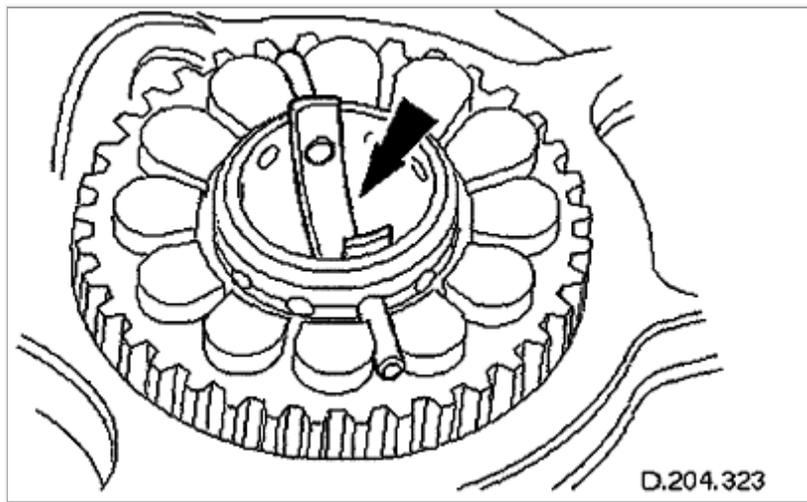
Sized for Print

6. Using special tool, secure vertical link and hub assembly in a vice.
  - a. Secure special tool in a vice.
  - b. Position hub in tool.
  - c. Install wheel nuts.



7. Install rotor nut.

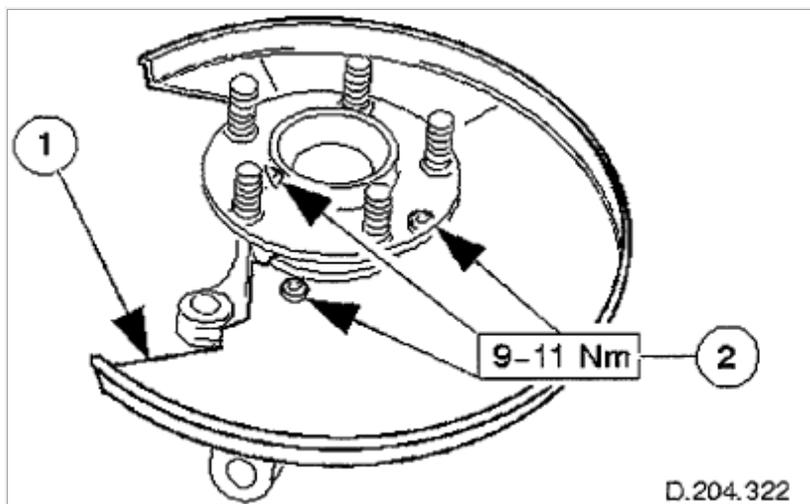
- a. Install rotor nut on hub.
- b. Using special tool tighten rotor nut.



**CAUTION:** Do not slacken the rotor nut to engage the spring clip.

**Note:** If the castellated slots of the rotor nut are not aligned it will be necessary to tighten the rotor nut further until the spring clip engages the slots.

8. Install rotor nut spring-clip. Install spring clip in hub retaining holes and castellated slots of the rotor nut.



Zoom

Sized for Print

9. Install disc shield.

- a. Position disc shield.
- b. Install bolts.

11. Install vertical link and hub assembly to vehicle. Refer to **Steering - Steering Knuckle - Service and Repair - Procedures**
12. Carry out steering geometry and wheel alignment checks and if necessary, adjust. Refer to **Steering and Suspension - Alignment**