

Published: May 1, 2007

## Wheel Knuckle (60.25.01)

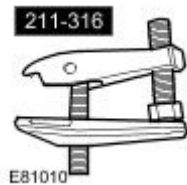
### Special Service Tools



204-159  
Lever, Wheel Knuckle



205-754A  
Splitter, Ball Joints



211-316  
Separator, Ball Joint



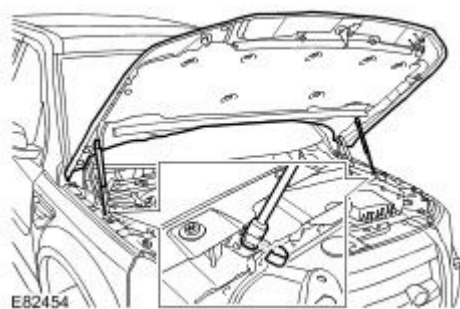
204-619  
G-Clamp

### Removal

#### NOTE:

Removal steps in this procedure may contain installation details.

- 1 . Remove the plenum chamber panel.  
For additional information, refer to [Plenum Chamber](#)
- 2 . Release the hood support struts and secure the hood in an upright position.



3.

**WARNING:** Make sure to support the vehicle with axle stands.

Raise and support the vehicle.

4.

Remove the wheel and tire.

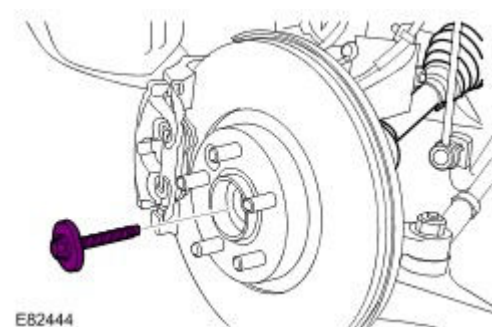
For additional information, refer to [Wheel and Tire](#).

5.

**CAUTION:** Discard the bolt.***Torque:***

Stage 1. 45 Nm

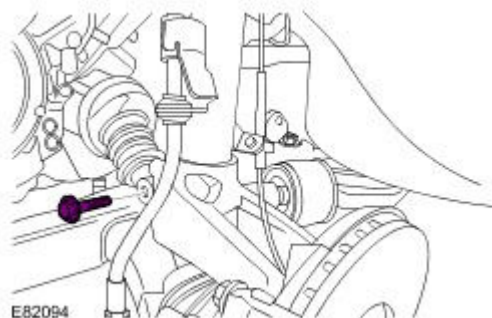
Stage 2. 80°



6.

***Torque:***

110 Nm



7.



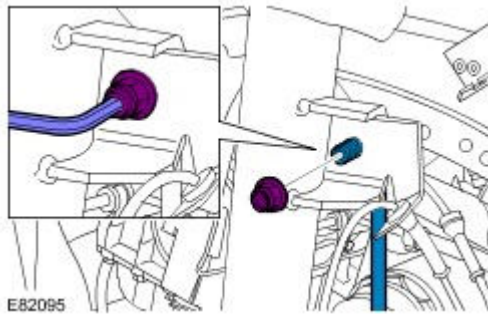
**WARNING:** Make sure that a new nut is installed.



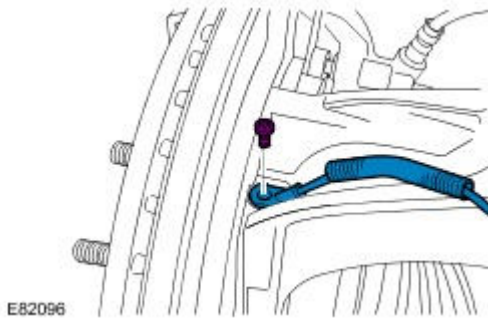
**CAUTION:** Make sure that the ball joint ball does not rotate.


Remove and discard the nut.

**Torque:**  
60 Nm



8.  
**Torque:**  
5 Nm

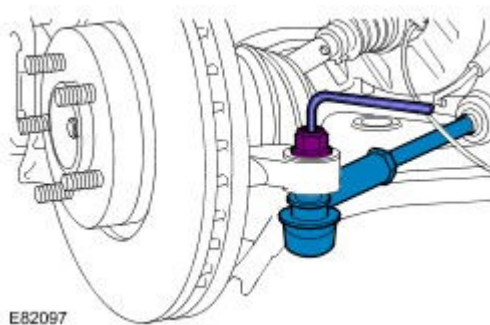


9.  
 **WARNING:** Make sure that a new tie-rod end nut is installed.

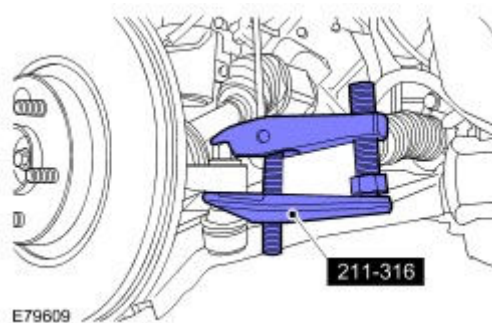



**CAUTION:** Make sure that the ball joint ball does not rotate.

**Torque:**  
80 Nm

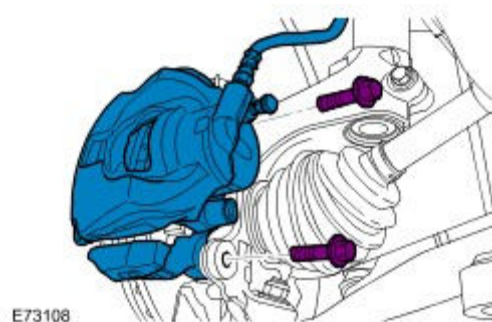


10. Special Service Tools : [Separator, Ball Joint](#)

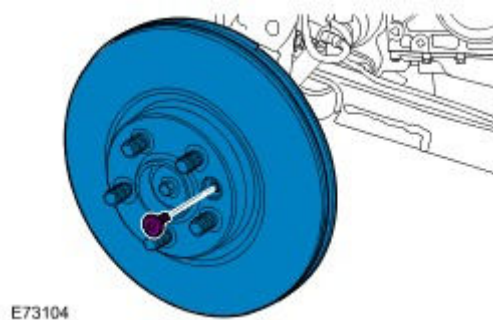


11.  **CAUTION:** Make sure that no load is placed on the brake hose.

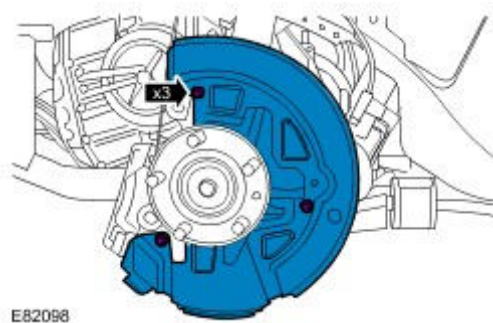
**Torque:**  
200 Nm



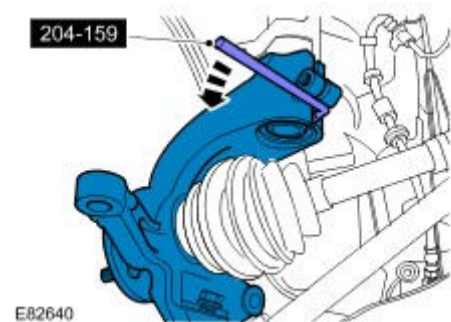
12. **Torque:**  
35 Nm



- 13 .  
**Torque:**  
10 Nm

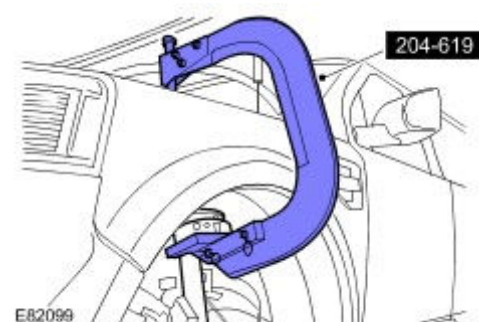


- 14 .  
Special Service Tools : [Lever, Wheel Knuckle](#)



- 15 . **NOTE:**  
This step requires the aid of another technician.

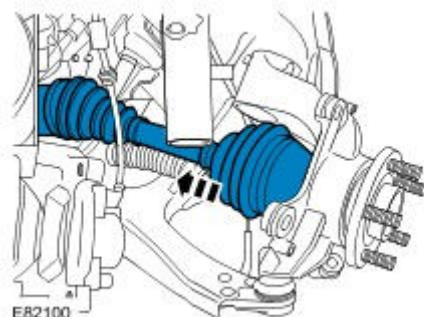
Special Service Tools : [G-Clamp](#)



16 .



**CAUTION:** Do not allow halfshafts to hang unsupported at one end or joint damage will occur.



17 .



**WARNING:** Make sure that a new lower arm ball joint nut is installed.

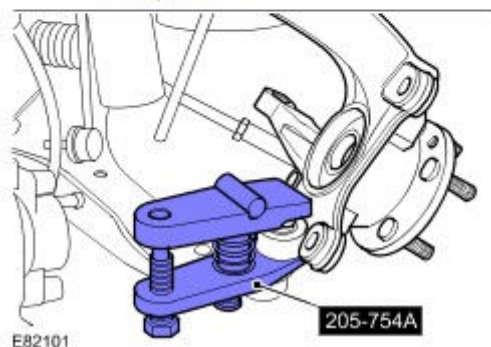
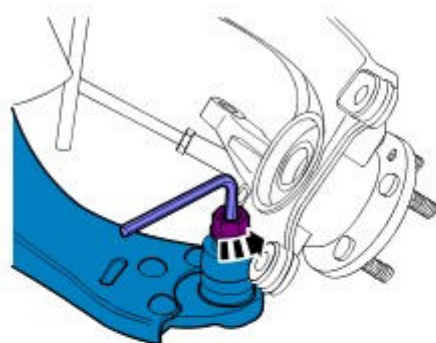


**CAUTION:** Make sure that the ball joint ball does not rotate.

Special Service Tools : [Splitter](#), [Ball Joints](#)

**Torque:**

100 Nm



## Installation

1 .



**CAUTION:** Make sure that the brake hose is not twisted and is correctly located.



**CAUTION:** Nuts and bolts must be tightened with the weight of the vehicle on the suspension.

**NOTE:**

Make sure that all the component mating faces are clean.

To install, reverse the removal procedure.