

Steering Linkage -

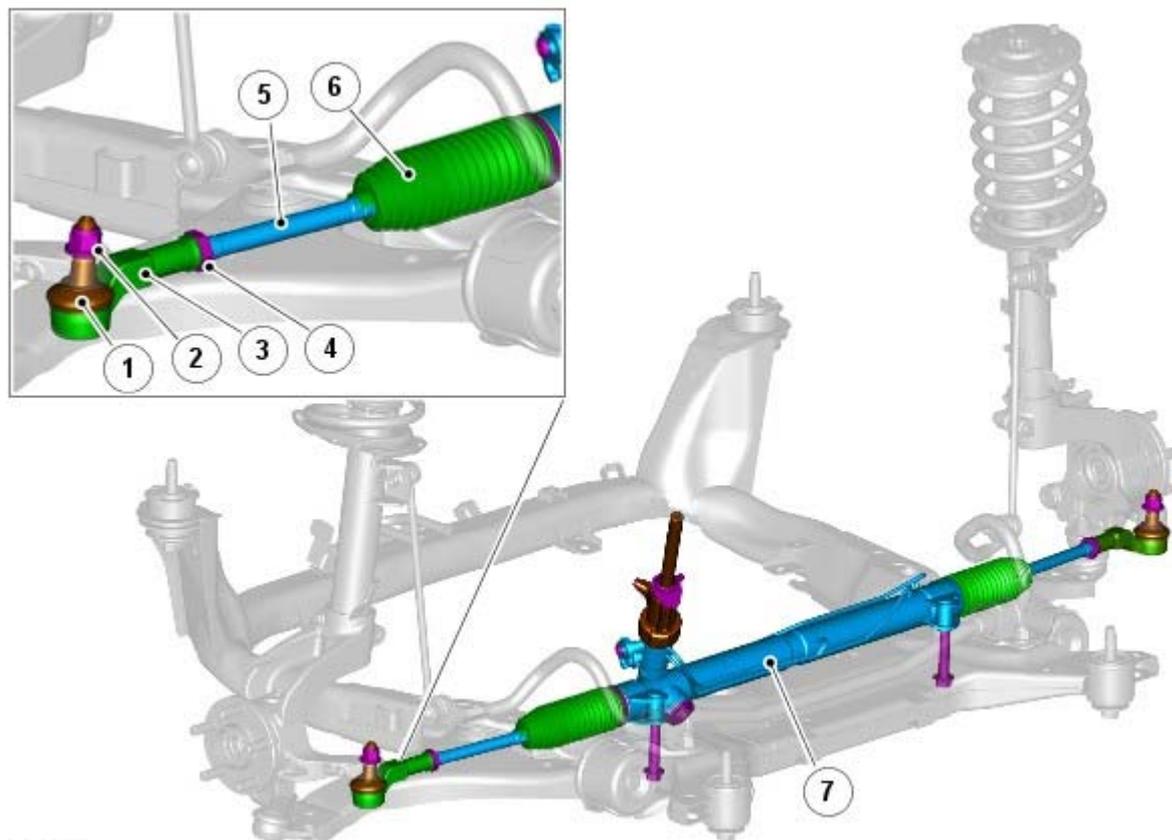
Torque Specifications

Description	Nm	lb-ft
Tie-rod end nut	70	52
Tie-rod locking nut	55	41

Steering Linkage - Steering Linkage

Description and Operation

COMPONENT LOCATION



E79429

Item	Part Number	Description
1	-	Ball joint
2	-	Locknut
3	-	Tie rod end
4	-	Locknut
5	-	Tie rod
6	-	Steering gear boot
7	-	Steering gear

OVERVIEW

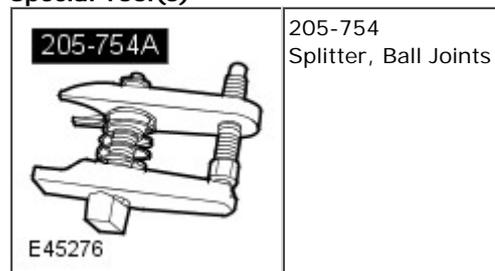
The outer ends of the tie rods are threaded to allow the fitment of the tie rod ends. The tie rod ends are screwed onto the tie rods and locked with locknuts to prevent inadvertent movement. The thread on the tie rod allows the position of the tie rod end to be adjusted in order to set the correct toe angle for each front wheel. The tie rod has a ball fitting which is screwed into the end of the steering gear. A boot is fitted to the steering gear to protect the ball fitting from dirt and moisture.

The tie rod end comprises a forged housing with a threaded bore for attachment to the tie rod. The tie rod end incorporates a non-serviceable tapered ball joint which locates in a tapered hole in the front wheel knuckle and is secured with a self-locking nut. The ball joint has an internal hexagonal drive which enables the joint to be held stationary when the self-locking nut is tightened.

Steering Linkage - Tie Rod End

Removal and Installation

Special Tool(s)



Removal

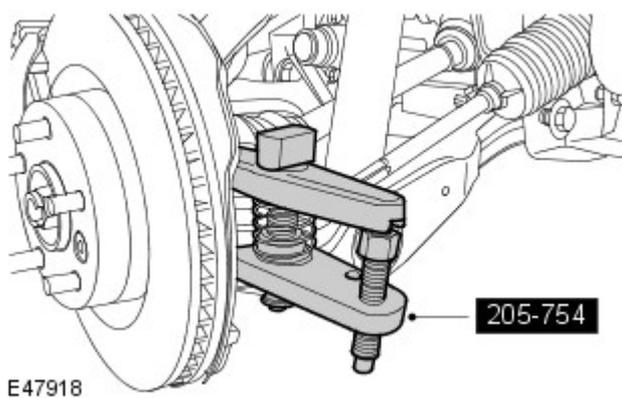
1.  **WARNING:** Do not work on or under a vehicle supported only by a jack. Always support the vehicle on safety stands.

Raise and support the vehicle.

2. Remove the front wheel.

Refer to: [Wheel and Tire](#) (204-04 Wheels and Tires, Removal and Installation).

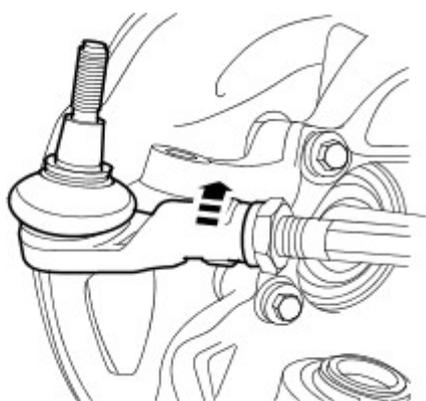
3. Loosen the tie-rod end lock nut.



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

Release the tie-rod end ball joint from the wheel knuckle.

Special Tool(s): [205-754](#)



5.  **CAUTION:** Note the number of turns when removing the tie rod end to aid installation.

Remove the tie-rod end.

Installation

1.  CAUTION: Make sure that the tie rod end is installed with the same number of turns as when removed.

Install the tie-rod end.

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

CAUTIONS:

 Make sure that the mating faces are clean and free of foreign material.

 Make sure that the ball joint ball does not rotate.

Connect the tie-rod end ball joint.

Torque: 70 Nm

3.  CAUTION: Make sure that the mating faces are clean and free of foreign material.

Tighten the tie-rod locking nut.

Torque: 55 Nm

4. Install the front wheel.

Refer to: [Wheel and Tire](#) (204-04 Wheels and Tires, Removal and Installation).

5. Using only four wheel alignment equipment approved by Land Rover, check and adjust the wheel alignment.

Steering Linkage - Steering Gear Boot

Removal and Installation

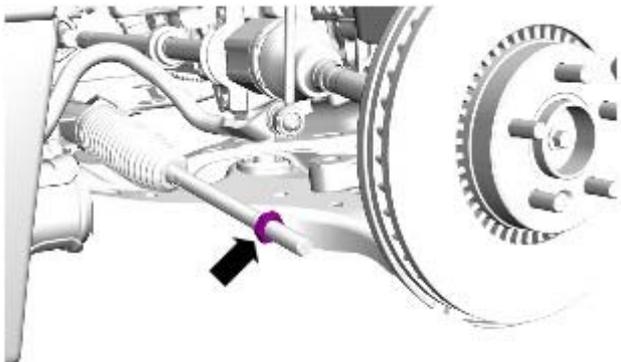
Removal

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

2. Remove the tie rod end.

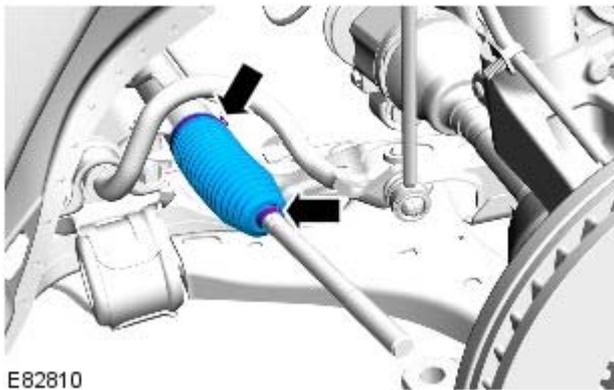
Refer to: [Tie Rod End](#) (211-03 Steering Linkage, Removal and Installation).

3. **NOTE:** Note the fitted position.



E82809

- 4.



E82810

Installation

1. **CAUTIONS:**



Make sure that the mating faces are clean and free of foreign material.



Make sure that the boot is correctly located.

To install, reverse the removal procedure.