

211-02 Power Steering
Removal and Installation

2019 Ranger
Procedure revision date: 06/7/2018

Tie Rod End

Base Part Number: 3304

Special Tool(s) / General Equipment

Tie Rod End Remover

Removal

NOTE: Removal steps in this procedure may contain installation details.

NOTE: Left hand drive (LHD) shown, right hand drive (RHD) similar.

1. **NOTICE:** Disconnect the battery ground cable anytime the steering linkage is being serviced or damage to the steering gear may occur resulting in steering gear replacement.

Refer to: [Battery Disconnect and Connect](#) (414-01 Battery, Mounting and Cables, General Procedures).

2. Remove the wheel and tire.

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

- 3.

1. Loosen the tie rod end jam nut.

Torque: 76 lb.ft (103 Nm)

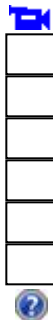
2. Remove and discard the outer tie rod end nut.

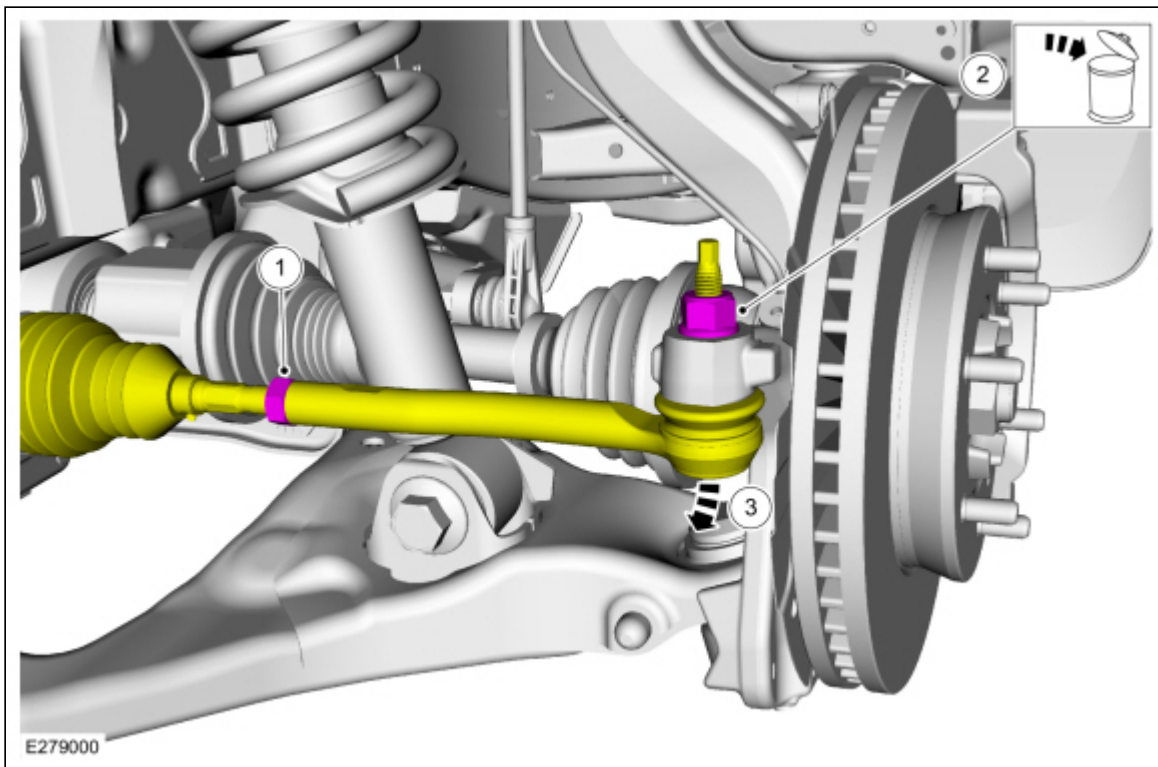
Torque: 46 lb.ft (63 Nm)

3. **NOTICE:** Do not use a hammer to separate the outer tie-rod end from the wheel knuckle or damage to the wheel knuckle may result.

NOTICE: Use care when installing the tie rod separator or damage to the outer tie-rod end boot may occur.

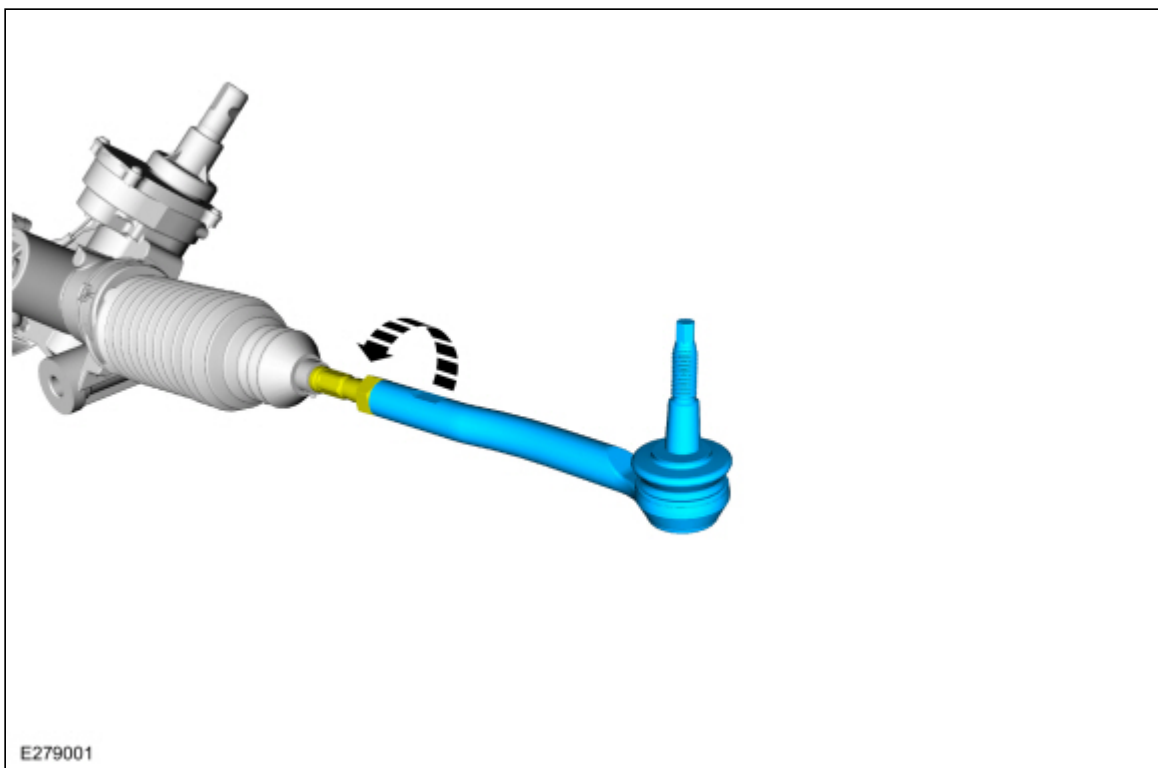
Separate the outer tie rod end from the wheel spindle.
Use the General Equipment: Tie Rod End Remover





4. **NOTE:** Count and record the number of turns required to remove the outer tie-rod end for reference during installation.

Remove the tie rod end.



Installation

1. To install, reverse the removal procedure.
2. Check and if necessary, adjust front toe.
Refer to: [Front Toe Adjustment](#) (204-00 Suspension System - General Information, General Procedures).

