

Component Procedures: Steering Shaft

Table of Contents

1. Parts and Labor (itype_189)
2. Intermediate Steering Shaft Replacement (Article 13491)

Component Procedures: Steering Shaft

Parts and Labor (itype_189)

Parts

| Qualifier | Part # | Name | Price | Note |
|--------------------|----------|------------------------|-------|------|
| Intermediate Shaft | 20964895 | 2 - Intermediate Shaft | 0.00 | |

Labor

| Operation | Qualifier Path | Skill | Std Hrs | Wty Hrs |
|------------------|-------------------------------------------|-------|---------|---------|
| Remove & Replace | Steering Column > Intermediate Shaft, R&R | B | 1.5 | 0.0 |

Intermediate Steering Shaft Replacement (Article 13491)

Removal Procedure

- The steering column
- The intermediate shaft (s)
- The steering gear
- LOCK the steering column and verify the front wheels are in the straight ahead position.
- Ensure the tilt and telescope lever is in the locked position with the steering column tilted to the highest position and telescoped to the maximum rearward position.
- Raise and support the vehicle. Refer to Lifting and Jacking the Vehicle .
- Working under the vehicle, use paint in order to place match marks on the intermediate steering shaft (1) and on the steering gear pinion shaft (3). Click for full-size image
- Remove the steering gear pinion bolt (2).
- Remove the thread locking patch and clean the threads on the steering gear pinion bolt.
- Disconnect the intermediate steering shaft from the steering gear pinion shaft.
- Working under the vehicle, disengage the 4 tabs (1) on the intermediate shaft seal. Click for full-size image
- Working under the instrument panel, use paint in order to place match marks (4) on the steering column shaft (3) and on the intermediate steering shaft (1). Click for full-size image
- Remove the upper intermediate shaft bolt (2).
- Insert a piece of scrap steel (1) into the slot in the intermediate steering shaft yoke (2) near the steering column shaft. Click for full-size image
- Insert the upper intermediate steering shaft bolt (3) backwards into the intermediate steering shaft yoke until the bolt contacts the steel.
- Tighten the bolt 1.5 turns.
- Remove the bolt and the steel.
- Remove the thread locking patch and clean the threads on the upper intermediate shaft bolt.
- Disconnect the intermediate steering shaft from the steering column shaft.
- Working under the instrument panel, remove the intermediate shaft seal (1) from the dash panel. Click for full-size image
- Remove the intermediate steering shaft and the seal as an assembly from the vehicle.

Installation Procedure

- If you are replacing the intermediate steering shaft, copy the match marks from the old shaft to the new shaft.
- Position the intermediate steering shaft and intermediate shaft seal assembly in the vehicle on the driver's floor.
- Position the intermediate steering shaft in the dash panel opening.
- Working under the instrument panel, install the intermediate shaft seal (1) to the dash panel. Apply pressure to the seal in order to engage the 4 tabs. Click for full-size image
- Working under the instrument panel, align the match marks (4) and connect the intermediate steering shaft (1) to the steering column shaft (3). Click for full-size image
- Apply thread locking adhesive to the upper intermediate steering shaft bolt (2). Refer to Adhesives, Fluids, Lubricants, and Sealers .
- Install the upper intermediate steering shaft bolt and tighten to 36 Nm (26.5 lb ft) .
- Working under the vehicle, align the match marks and connect the intermediate steering shaft (1) to the steering gear pinion shaft (3). Click for full-size image
- Apply thread locking adhesive to the steering gear pinion bolt (2). Refer to Adhesives, Fluids, Lubricants,

and Sealers .

- Install the steering gear pinion bolt and tighten to 50 Nm (37 lb ft) .
- Working under the vehicle, ensure the 4 tabs (1) on the intermediate shaft seal engage the dash panel. [Click for full-size image](#)
- Lower the vehicle.