

**▶ TASK** Remove and replace rack and pinion steering gear; inspect mounting bushings and brackets.



Time off \_\_\_\_\_  
 Time on \_\_\_\_\_  
 Total time \_\_\_\_\_

**CDX Tasksheet Number: C882**

1. Research the following procedures and specifications in the appropriate service information.
  - a. **R & R rack and pinion flat rate time:** \_\_\_\_\_ hrs
  - b. **R & R inner tie rod end (either side) flat rate time:** \_\_\_\_\_ hrs
  - c. **Type of power steering fluid:** \_\_\_\_\_
  - d. Rack and pinion steering gear removal. **List the main steps (you can paraphrase or print off the procedure):**
  
2. Start the engine and straighten the wheels. Turn the engine off and lock the steering column. This will keep the clock spring centered.
  
3. Follow the service information procedure to remove the rack and pinion steering gear. Be careful not to damage any lines, tubes, or fittings. Plug any lines or fittings to prevent entry of dirt or debris.
  
4. **Inspect the condition of the mounting bushings and brackets. List your observations:**
  - a. Have your **supervisor/instructor** verify removal. **Supervisor's/Instructor's Initials** \_\_\_\_\_

**NOTE** You may want to skip to task **C883: Inspect rack and pinion steering gear inner tie rod ends (sockets) and bellows boots; replace as necessary**. This task will be much easier to perform with the rack and pinion removed from the vehicle. If so, return to this point when you are ready to reinstall the rack and pinion.

5. Follow the service information procedure to reinstall the rack and pinion steering gear. Be careful not to damage any lines, tubes, or fittings. Also, unless the manufacturer directs otherwise, make sure the rack is centered in its travel so that the clock spring will be indexed to the rack.
6. Torque all fasteners and fittings.
7. Check the fluid level in the power steering reservoir. Top off with the proper fluid.
8. Start the engine and bleed any air from the power steering system. Top off fluid as necessary.

9. With the engine running, turn the steering wheel from lock to lock. Check for the following:

- a. Binding: Yes: \_\_\_\_\_ No: \_\_\_\_\_
- b. Excessive steering effort: Yes: \_\_\_\_\_ No: \_\_\_\_\_
- c. Uneven steering effort: Yes: \_\_\_\_\_ No: \_\_\_\_\_

10. Have your supervisor/instructor verify satisfactory completion of this procedure, any observations found, and any necessary action(s) recommended.

**Performance Rating**

**CDX Tasksheet Number: C882**

**0**

**1**

**2**

**3**

**4**

Supervisor/instructor signature \_\_\_\_\_ Date \_\_\_\_\_