

Steering Gearbox

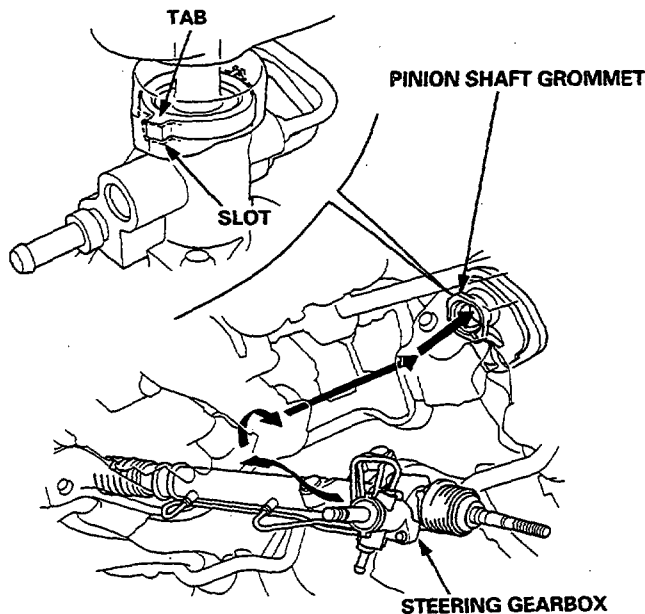
Installation

CAUTION: Be careful not to bend or damage the piping when installing the gearbox.

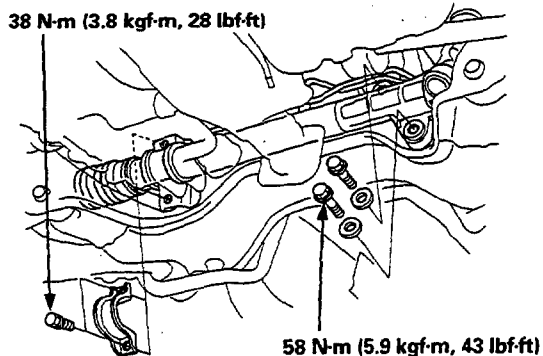
NOTE: For RHD type, installing the rear beam on the original position.

1. Before installing the gearbox, slide the rack all the way to right.
2. Pass the right side of the steering gearbox above and through the right side of the rear beam.
3. Hold the steering gearbox and slide the rack all the way to the right.
4. Raise the left side of the steering gearbox above and through the left side of the rear beam.
5. Install the pinion shaft grommet and insert the pinion shaft up through the bulkhead.

NOTE: Align the tab on the valve body with the slot in the pinion shaft grommet.

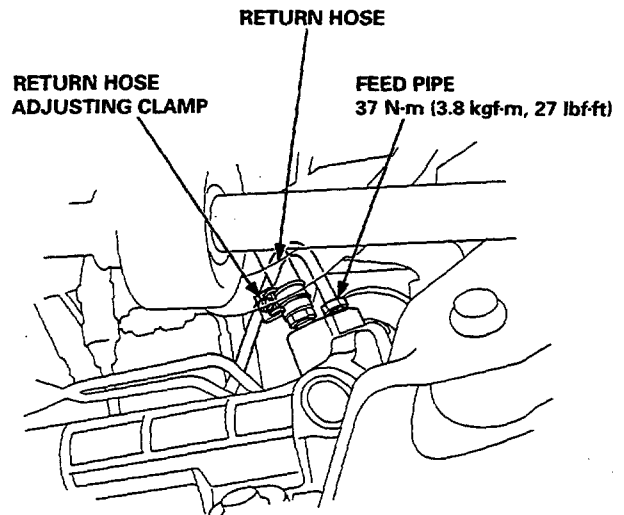


6. Install and tighten the gearbox mounting bolts.
- NOTE:** After installing the gearbox, check the air hose connections for interference with adjacent parts.



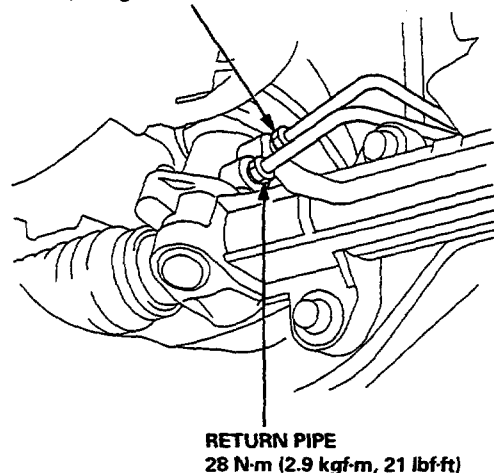
7. Connect the power steering fluid lines to the valve body unit.

<LHD type:>



<RHD type:>

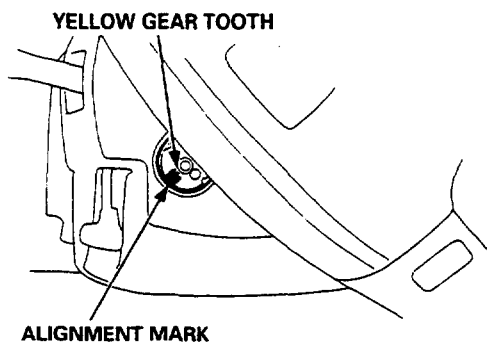
FEED PIPE
37 N-m (3.8 kgf-m, 27 lbf-ft)





8. Center the steering rack within its stroke.
9. If equipped with SRS, make sure that the cable reel of the SRS is centered as follows:

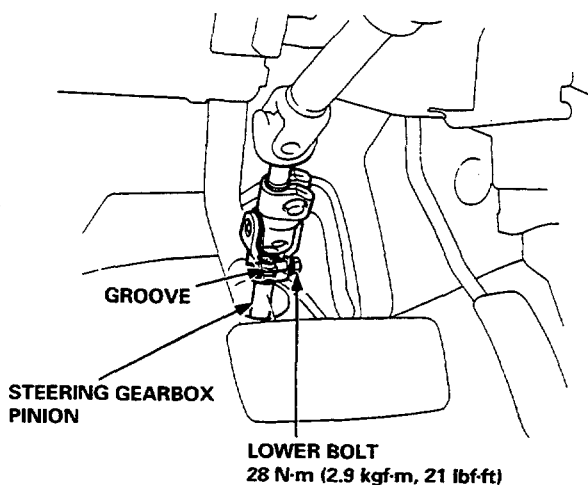
- Turn the steering wheel left approx. 150 degrees, check the cable reel position.
- If the cable reel is centered, the yellow gear tooth lines up with the alignment mark on the cover.
- Return the steering wheel right approx. 150 degrees in the straight ahead position.



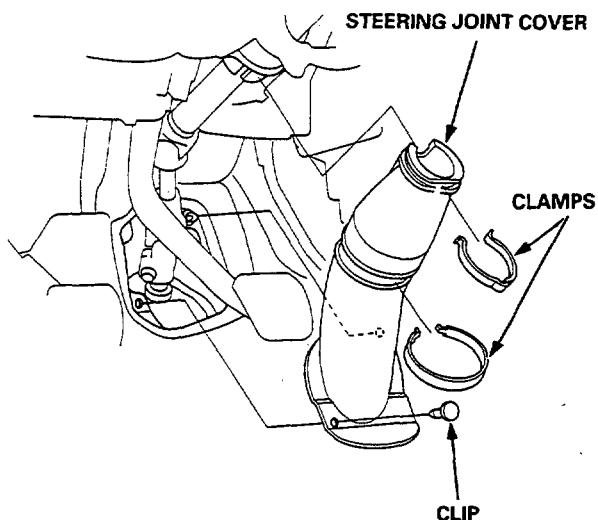
10. Slip the lower end of the steering joint onto the pinion shaft (line up the bolt hole with the groove around the shaft), and tighten the lower bolt.

NOTE:

- Connect the steering shaft and pinion with the cable reel and steering rack centered.
- Be sure that the lower steering joint bolt is securely in the groove in the steering gearbox pinion.
- If the steering wheel and rack are not centered, reposition the serrations at the lower end of the steering joint.

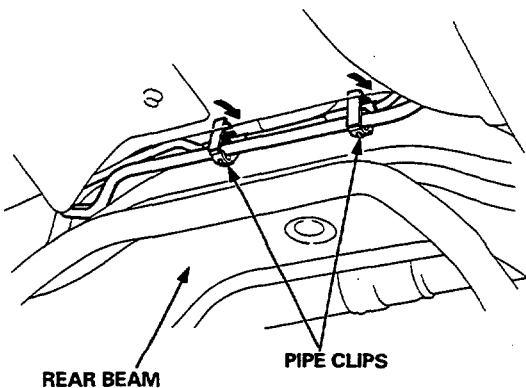


11. Install the steering joint cover with the clamps and clips.



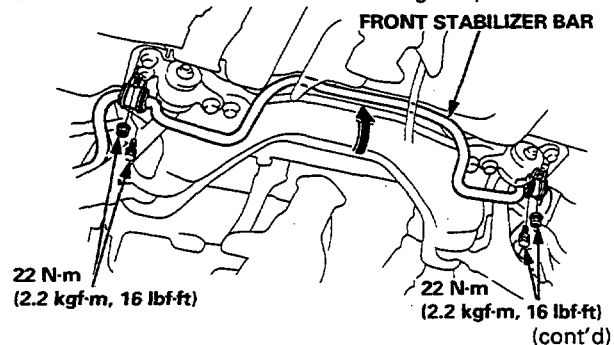
12. RHD only: Install the pipe clips.

- 1) Secure the two pipes with the pipe clips in the top of the rear beam.



NOTE: After installation of the pipes, check them for bend, interference with the adjacent parts, and other abnormalities.

- 2) Install the front stabilizer in its original position.

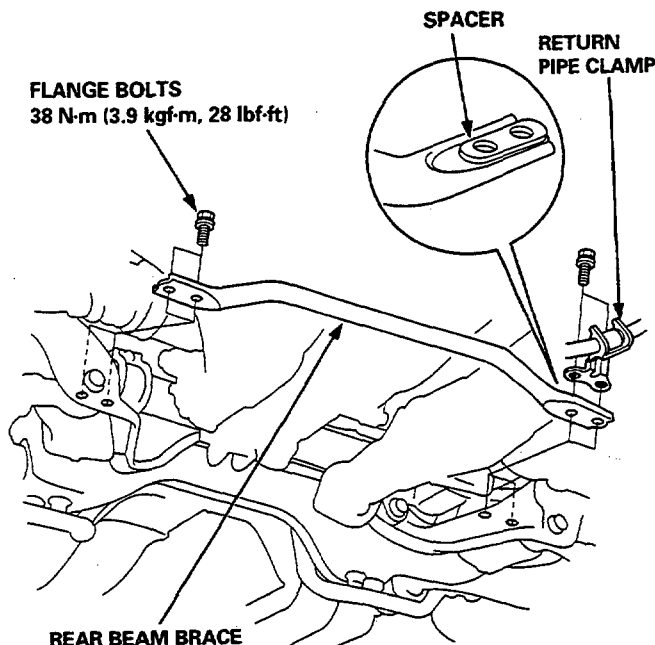


Steering Gearbox

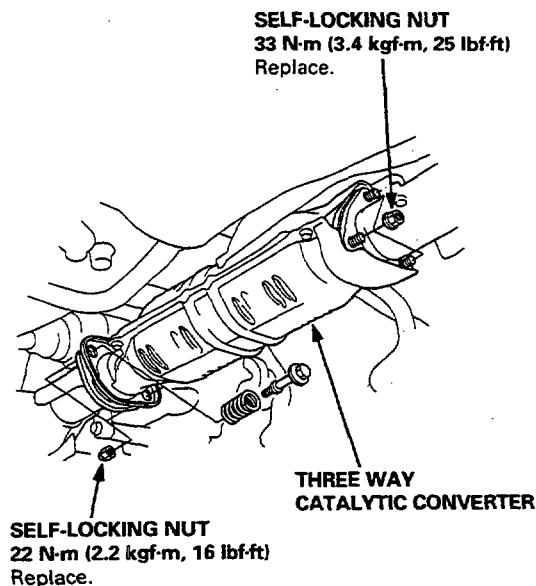
Installation (cont'd)

13. Install the rear beam brace and return pipe clamp on the rear beam.

NOTE: Set the rear beam brace with its spacer side toward the return pipe clamp.

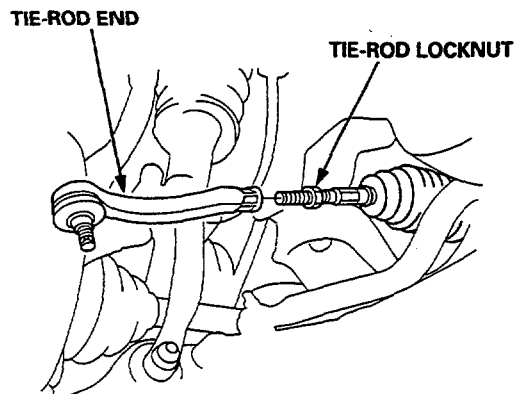


14. Install the three way catalytic converter with the new gaskets and new self-locking nuts.



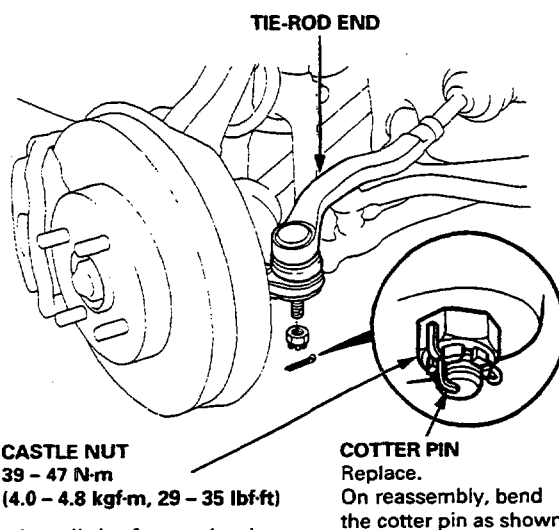
15. Connect the shift linkage (M/T model: see section 13, A/T model: see section 14).

16. Thread the right and left tie-rod ends onto the rack an equal number of turns.



17. Reconnect the tie-rod ends to the steering knuckles, tighten the castle nut to the specified torque, and install new cotter pins.

CAUTION: Torque the castle nut to the lower torque specification, then tighten it only far enough to align the slot with the pin hole. Do not align the nut by loosening.



18. Install the front wheels.
19. Fill the system with power steering fluid and bleed air from the system (see page 17-21).
20. After installation, perform the following checks.
- Check the gearbox for leaks (see page 17-23).
 - Adjust the front alignment (see section 18).
 - Check the steering wheel spoke angle. Adjust by turning the right and left tie-rods, if necessary.

NOTE: Turn the right and left tie-rods equally.