

ROLLING COMPONENTS LTD

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TECHNICAL SERVICE BULLETIN

Bulletin No.: TSB-2025-03-SR

Date: March 1st, 2025

Subject: *Mandatory System Flush Before Installing New Steering Racks*

Models Affected: All vehicles equipped with hydraulic or electro-hydraulic power steering systems

Purpose

To ensure the longevity and performance of replacement steering racks, it is *mandatory* to flush the power steering system prior to installation. Contaminants such as metal shavings, degraded fluid, or debris from the old rack or pump can cause immediate damage to the new unit, potentially leading to leaks, steering noise, or failure. Improper installation procedures may result in denial of warranty claims.

Procedure – System Flush

Tools & Materials Needed:

- Power steering fluid compatible with the vehicle (OEM-spec)
- Power steering flush kit (or suitable flushing setup)
- Drain pan
- Protective eyewear and gloves

Step-by-Step Procedure:

1. Lift the Vehicle Safely
 - Ensure the front wheels are off the ground to allow full range of steering travel.
 - Use safety stands and wheel chocks.
2. Drain Old Fluid
 - Disconnect the return hose from the power steering reservoir.
 - Place the hose into a drain pan.
 - Plug the reservoir return port to prevent spillage.
3. Flush the System
 - While a helper slowly turns the steering wheel from lock to lock (engine OFF), pour new fluid into the reservoir.
 - Continue turning and pouring until clean fluid exits the return hose (typically 2–3 litres).
 - Do not allow the reservoir to run dry during this process.
4. Reconnect Hoses
 - Reinstall the return hose to the reservoir and tighten clamps or fittings securely.
 - Check all connections for leaks.
5. Install New Steering Rack
 - Follow OEM torque specs and alignment procedures.
 - Replace O-rings, seals, and mounting hardware as needed.
6. Bleed the System
 - Refill the reservoir with fresh fluid.
 - With the engine off, turn the wheel fully left and right several times.
 - Start the engine and repeat until all air is purged and no foaming occurs.
7. Inspect for Leaks and Function
 - Test drive vehicle to verify normal steering function.
 - Recheck fluid level and top off if necessary.

IMPORTANT: Warranty Policy Notice

Warranty claims for steering racks will be rejected if post-failure contamination is evident and no system flush was performed prior to installation. Evidence of metallic debris or contaminated fluid in the returned unit voids warranty coverage.