

CARDONE™ ProTech®

Supporting Today's Vehicle Technician



ProTech® Bulletin Summary: Rack and Pinion, Steering Gear, Control Valve and Power Cylinder

Before replacing any power steering component, the cause of original unit failure must be determined and corrected. Installing a replacement unit without correcting the problem will lead to early failure. Always refer to the vehicle service manual for specific installation procedures and specifications. The ProTech® bulletins listed below cover topics that should be done BEFORE, DURING or AFTER installation of the replacement unit. They assist with part selection, describe typical problems and solutions, and provide installation help and service advice.

Before Installation

- 20-0016 Consider replacing older hydraulic hoses
- 22-0005 Ford ID guide
- 22-0008 1996-1998 GM applications, CARDONE™ upgrade overcomes bearing problem
- 27-0002 GM gearbox ID guide
- 27-0005 27-7565 and 27-7569 difference ID guide

During Installation

- 20-0007 O-ring line and fitting seals must be replaced
- 20-0008 Flushing must be done
- 20-0010 Relocating hose may eliminate noisy operation
- 20-0012 Preferred flushing procedure
- 20-0014 Prevent steering column air bag coil damage
- 20-0027 Use correct OE approved fluid, do not use "top-off" products
- 22-0001 No thread sealing tape on fittings, check for damaged hoses, other problems, and flushing tip
- 22-0003 Loosening boot clamps to prevent boot damage during alignment
- 22-0004 Common causes of port thread damage
- 22-0006 Center Take Off (CTO): prevent damage to rack – use only original mounting hardware
- 22-0007 Ford rack hydraulic ports identical size – which is pressure, which is return ID guide
- 22-0009 Chrysler van shudder problem
- 22-0010 Ford rack units may have a pressure port check valve – where does it install
- 26-0001 Jaguar installation tip for 26-1916
- 26-0002 Toyota leaking fittings: causes and solutions
- 27-0001 Chrysler 1962-1972 troubleshooting tips
- 28-0001 Power cylinder and control valve lines easily crossed

After Installation

- 20-0004 Defective old hoses and improper flushing allow contamination to prevent proper operation
- 20-0005 Prevent problems – replace old hoses
- 20-0021 Two different in-line filters fight contamination
- 27-0003 Dodge truck side-to-side movement: TSB alert
- 27-0006 Popping, crunch noise on certain GM steering gears
- 27-0007 Binding on turns
- 27-0008 Test installed unit under pressure to avoid false loose evaluation

CARDONE™ Technical Service develops ProTech® bulletins that are intended to help the installer avoid common installation and service errors. The information presented is derived from our own experience, and product knowledge gained from component analysis and research. Following these tips will ensure the best possible performance and service life of the replacement unit.

Please note that these bulletins are provided for your technical information only and are not authorization for repair.