

Delphi Electric Power Steering

► Description

Delphi Electric Power Steering is an all-electric system that eliminates the traditional hydraulic system's power steering pump, hoses, hydraulic fluid, and drive belt and pulley. The sophisticated Electric Power Steering uses an electric-motor power-assist mechanism to provide responsive power steering.

Delphi offers full system integration with both tilt- and telescope-type columns, as well as world-class energy absorbing technologies. The system also enables full design control of key electromechanical components.

► Benefits

- Active return-to-center for enhanced returnability, requiring less driver effort
- Active damping, designed to eliminate overshoot during "back-to-center" return for improved vehicle stability and safety
- Active torque damping for reduction in steering pull during acceleration
- Engine independence reduces parasitic losses, helps increase fuel economy, and improves acceleration times
- Enhances dependability and safety, with power steering available even when the engine is off
- Compact, modular design and flexible tuning capability reduces variations required for various models in a given platform
- Helps reduce assembly plant time by up to four minutes
- Proprietary tuning software allows laptop tuning in vehicle and reduces tuning process from months to approximately less than one week
- Multiple configurations for use on a full range of vehicles



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Column Mount—An integrated pivot/mount and integrated controller option increase mounting flexibility.



Rack Mount—Expands packaging flexibility with a parallel motor that can be positioned anywhere around the rack. Electric power steering rack assist is a scalable system, suitable for midsize cars to full-size trucks. This scalable feature allows vehicle manufacturers to leverage existing mechanical hardware developed for 12-volt systems, and will be able to be used for 42-volt applications in the future.