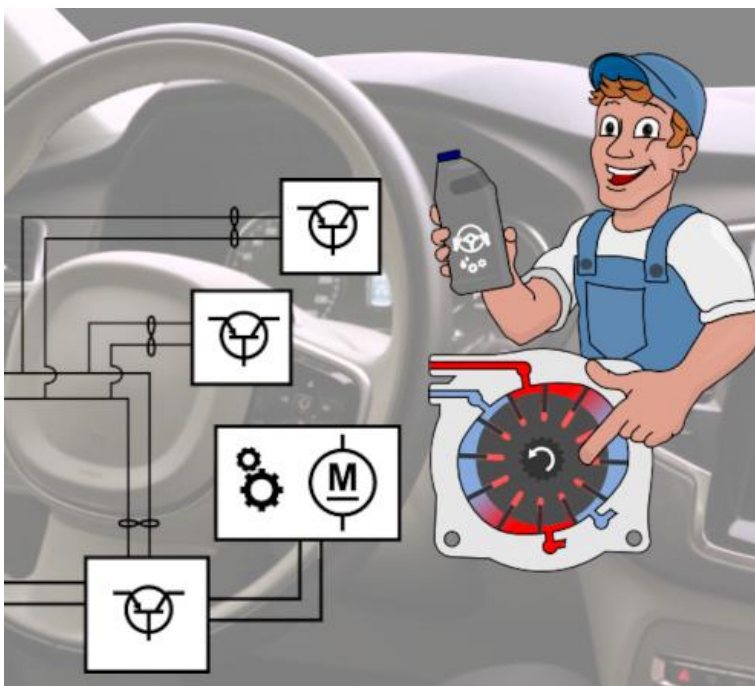




Product Sheet - Prodiags Automotive Online Training Module

Power Steering

Power steering systems development and electrification has both lowered the fuel consumption and reduced their need for service and repair. Electric power steering systems becoming more common has also allowed for additional equipment, such as Parking Assist and Lane Departure Aid to become more common on vehicles today. Hydraulic and electro-hydraulic systems have not disappeared though, due to greater steering feel.



- Steering and hydraulic power steering components
- Hydraulic pressure adjustment in the hydraulic pump and power steering
- Electro-hydraulic power steering - operation
- Electric power steering structures
- The power steering electrical operation
- Steering angle and steering torque sensor

Language: English

SKU: 060.0230.070.000.EN

LEARNING OUTCOMES

After studying you will be familiar with the structures and their function. You know in which situations and jobs to take the power steering components into consideration. Additionally, you have a good starting point for applying your knowledge when servicing and troubleshooting.

Certificate

After completing your module of study and approved completion of the exercises, you will be allowed to take the final exam. After completing the final exam, you can print a Prodiags certificate from your attainments register as proof of your expertise.



INTRODUCTION

Why this module?

All on-road vehicles have power steering; hydraulic, electric or a combination - electro-hydraulic. In vehicles with a combustion engine, the power steering was quite similar in different makes and models for a long time, but modern power steering systems are smarter and more efficient.

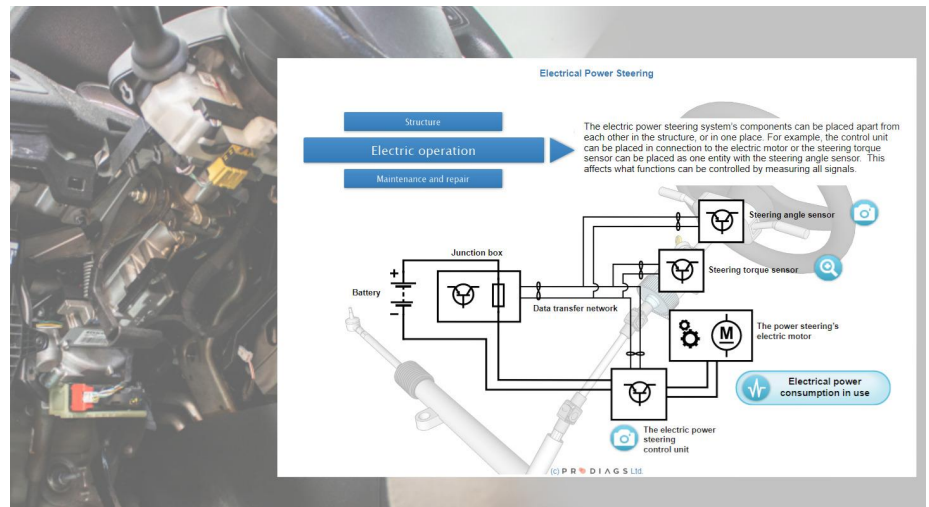
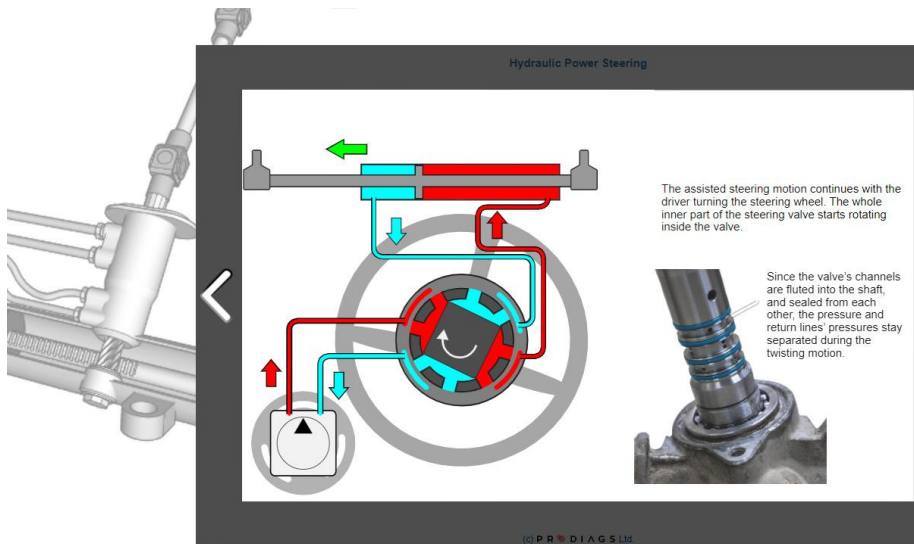


What will you learn?

The power steering and steering structures are located in the passenger compartment and engine bay. The most common jobs are checking the hydraulic systems fluid level and checking for leaks, and replacement of the joints connected to the steering rack and wheel support. When performing repairs inside the cabin, the steering column is often well hidden, and the operation of it and components connected to it is not always understood.

In the study, you will go through different power steering structures, their components and operation. You will understand how the fluid pressure is led through the steering valve in direction with the steering motion when the driver starts or finishes the motion.

The electrification of power steering systems has created structures that have allowed for moving components, partly or completely, from the engine bay into the cabin. Electric power steering systems have brought solutions like Column EPS, Single-Pinion EPS, Dual-Pinion EPS and Parallel Axis EPS. The development of power steering systems have freed up space in the engine bay and brought more precise steering and sensors, such as the steering torque sensor and steering angle sensor.



PREREQUISITES

No prior knowledge required.

System Requirements

Internet connection and PC or laptop with browser.
Recommended screen resolution 1024 x 768 or higher.

Updates

We want to make sure that you always have the latest version of our product. Prodiags reserves the right to make real time updates and changes. This way you'll always have the best version, without extra fees.

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Content Equivalence

This module's topics and objectives correspond in scope to a conventional half day training event.

Once you have made your payment, you get immediate access to the content. You'll save time and money by not needing to travel.