

EPAS IS NOW AVAILABLE TO ORDER.

Are you ready to sell?

WHAT IS EPAS?

Electronic
Power
Assisted
Steering

HOW DOES EPAS WORK?

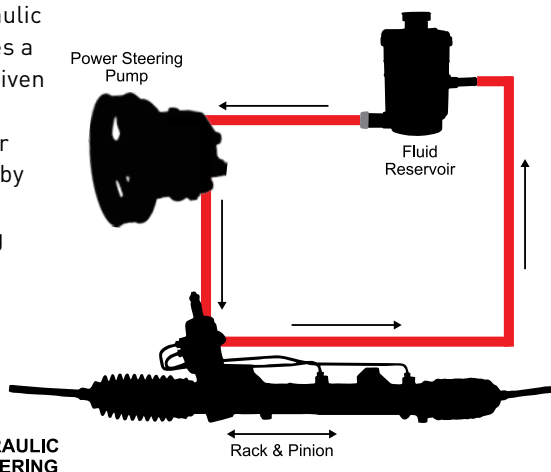
EPAS uses an electric motor to provide steering assist, replacing conventional hydraulic power steering components including: the pump, hoses, fluid, belts, and pulleys with one integrated unit.



VS

HOW DOES HYDRAULIC STEERING WORK?

Conventional hydraulic power steering uses a fluid filled pump driven by a belt to supply pressure and driver control is supplied by either the rack and pinion or a steering gear box.



BASIC HYDRAULIC POWER STEERING

WHY VISION-OE EPAS?

1

Extensively Tested

2

OE-Quality

3

Installation Ready

EPAS PRODUCTS AVAILABLE

Features

- Every unit is fully disassembled, cleaned, and inspected to ensure all components meet strict OE tolerances
- All seals, bellows, boots, and clamps are replaced with OE quality components
- Electrically and electronically tested for input and output parameters to specific diagnostic trouble codes

EPAS RACK AND PINION



A self-contained electric unit that is controlled by an electric module taking inputs from multiple vehicle sensors giving proper assist to the driver via an electric motor for the current vehicle dynamics.

ELECTRIC COLUMN AND MOTOR



Column Drive Units have a motor and controller attached to the Steering Column and actuate a traditional Manual Rack and Pinion.

ELECTRO-HYDRAULIC POWER STEERING PUMP

Electric Motor driven Hydraulic Pump with a traditional Steering Column and Hydraulic Rack and Pinion – Provides NO Auto-steer and requires fluids and hoses.



CALL 800-280-2737

For expert advice and installation assistance

INSTALLATION GUIDE

The EPAS rack and pinion **MUST** be updated with the latest OE software and a calibration procedure **MUST** be performed prior to driving the vehicle. **DO NOT attempt to drive the vehicle without following OE installation procedures.** The procedure below is for generic reference only. For the complete installation procedure, please consult the vehicle-specific repair manual.

Removing the EPAS Rack:

1. Disconnect the battery.
2. Center the steering wheel with the wheels facing straight forward.
3. Lock the steering wheel so it will not lose its center position.
4. Disconnect the steering intermediate shaft from the EPAS unit.
5. Disconnect the electrical connectors.
6. Remove components that will interfere with the removal of the EPAS rack. Refer to the vehicle repair manual for correct procedure.
7. Remove EPAS rack from vehicle.
8. Remove any required hardware from the old EPAS rack and install onto the new EPAS rack.

Installing the EPAS Rack:

1. Mount EPAS rack into vehicle.
2. Reinstall vehicle specific components.
3. Connect all electrical connectors.
4. Reinstall the steering intermediate shaft.
5. Reconnect the battery.
6. Unlock the steering wheel.
7. **For installing the latest OE software and the proper calibration procedure, refer to OE repair manual prior to driving the vehicle.**



PRESS RELEASE

FOR IMMEDIATE RELEASE

September 12, 2019

BBB INDUSTRIES ANNOUNCES RELEASE OF SEVEN EPAS TRAINING VIDEOS IN ITS DIGITAL TRAINING PORTAL

DAPHNE, ALABAMA – BBB Industries, LLC (BBB) is pleased to announce the release of a new section in its digital training portal specifically for Electronic Power Assisted Steering (EPAS).

The new section on BBB's website consists of seven EPAS training videos providing instruction on system diagnostics, tools needed for a successful repair, programmable module installations and battery state of repair. The seven new videos are available to view at www.bbbind.com/training-materials under the EPAS tab.

"EPAS is the future of power steering," said Rusty Kleinhans, BBB's technical product manager for EPAS. "With this new content, we want to provide professional technicians with the resources necessary to complete a successful repair."

To make these resources easily accessible, BBB created a digital brochure with videos that can be viewed at www.bbbind.com/epas101.

Continuing its efforts to provide professional technicians with the tools needed to get the job done right, BBB plans to add content to its training portal as its technical teams complete research on product and industry trends.

BBB Industries, LLC is an industry leader in the remanufacturing of starters, alternators, hydraulic and air disc brake calipers, power steering products and turbochargers for the OEM, personal and commercial vehicle aftermarket industries. BBB takes pride in producing the highest quality products in the industry – these standards apply to customer service, the manufacturing process, product installation and to the performance on the vehicle. Automated test fixtures test every unit manufactured by BBB to meet or exceed OE specifications. Founded in 1987, BBB Industries, LLC is a private company headquartered in Daphne, Alabama. Please see www.bbbind.com for more information.

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-End-



EPAS IS HERE TODAY

Over 80% of vehicles in production today are equipped with EPAS.

EPAS IS NOT GOING AWAY

In 3 Years, 23% of steering repairs will be EPAS systems.

WHY IS EPAS GROWING?

EPAS allows for:

- Increased Energy Efficiency
- Increased Fuel Economy
- Reduced Vehicle Weight
- Reduced Steering Effort
- Easier Factory Installation
- Advanced Safety System Integration

The following part numbers are recommended to ensure maximum coverage with the highest turns:

PART #	APPLICATION	DESCRIPTION	VIO
201-0137E	2011-14 FORD TRUCKS-F SERIES, SUPER DUTY PICKUP (2WD & 4WD)	Rack & Pinion	1,342,427
201-0130E	2010-12 FORD-FUSION, LINCOLN-MKZ	Rack & Pinion	738,571
992-0102	2004-12 CHEVROLET-MALIBU, PONTIAC-G6, SATURN-AURA	Motor & Module	1,905,588
201-0136E	2011-14 FORD TRUCKS-F SERIES, SUPER DUTY PICKUP (2WD & 4WD)	Rack & Pinion	191,775
992-0104	2004-12 CHEVROLET-MALIBU, PONTIAC-G6, SATURN-AURA	Motor & Module	1,905,588
980-0102E	2011-16 CHRYSLER-300, DODGE-CHALLENGER, CHARGER, CORONET	Pump	480,479
201-0152E	2012-14 FORD-FOCUS	Rack & Pinion	236,910
201-0143E	2013-16 FORD TRUCKS-FLEX, FORD-TAURUS, LINCOLN TRUCKS-MKT, LINCOLN-MKS	Rack & Pinion	292,539

To learn more about EPAS sign up at the address below:

www.bbbind.com/epashelp