

Highlights

1

NAPA® Echlin® offers more than 750
Advanced Driver Assistance System (ADAS)
related components

2

NAPA® Echlin® ADAS components are designed to integrate correctly with electronic crash avoidance systems

3

ADAS components are powertrain neutral - they are the same whether the powertrain is gas, diesel, hybrid or electric



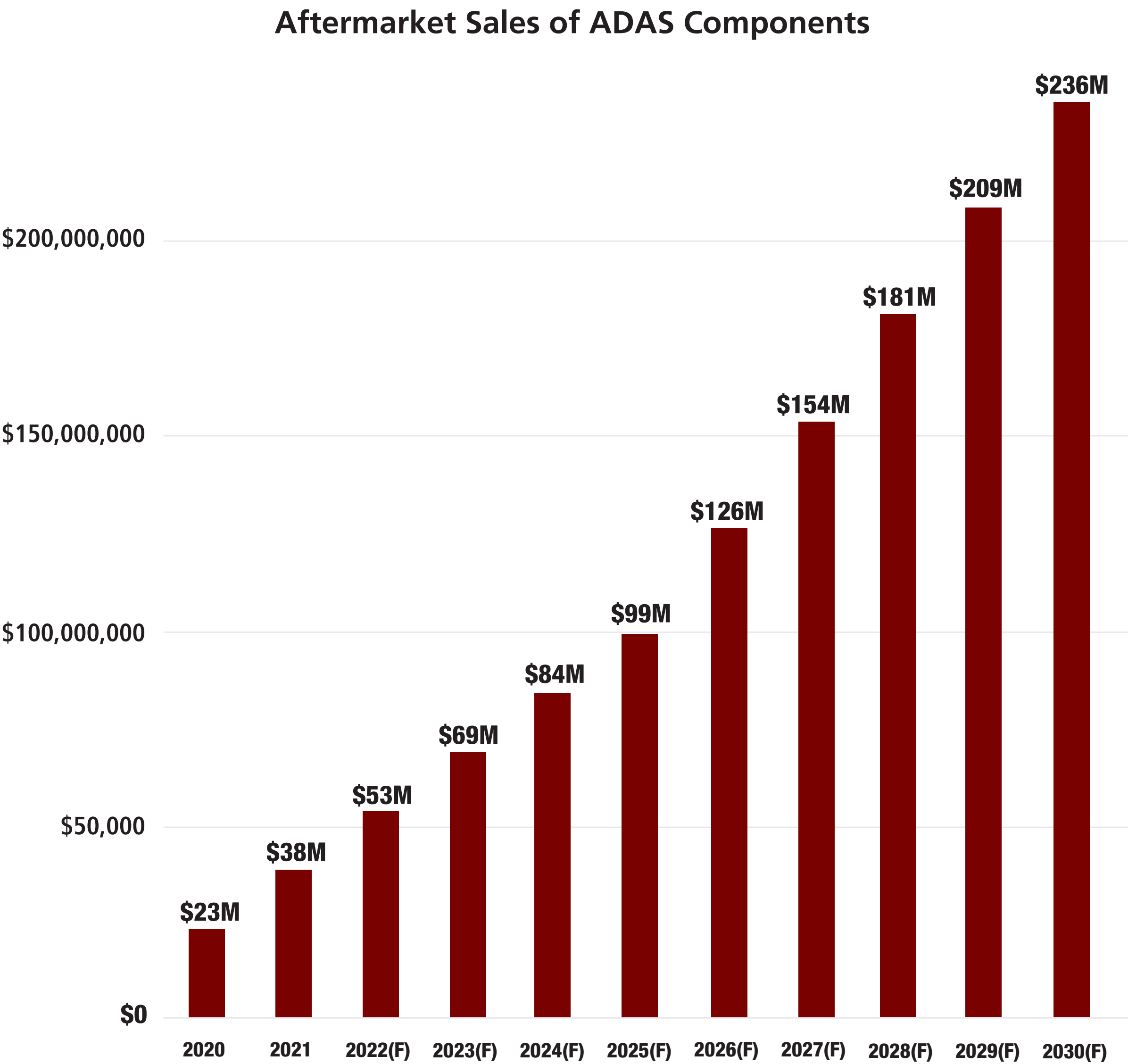
What's in your box?



Growing Market

ADAS components are one of the fastest growing categories in our industry. These sophisticated cameras and sensors are entirely powertrain neutral, meaning wheather a vehicle is gas, hybrid or electric, the components and systems are the same. ADAS is here to stay, and it is going to grow exponentially in the coming years.

Between 2023 and 2030, sales of ADAS components will grow by 343%



Source: ADAS Aftermarket Study, AASA 2022

Timeline

Driver Assist Safety Systems aren't new. In fact, they have been around in some form for over 50 years. Newer, more advanced electronic safety systems are built on the foundations of ABS and Electronic Stability Control (ESC).

Did You Know

The gyro processor used in the prototype of the first ESC system came from a toy helicopter. It wasn't fast enough, so engineers sourced another from the warhead of a missile.



1969

Ford introduced "Sure Track," the first Anti-Lock Brake System on the Thunderbird



1971

Buick introduced "MaxTrac" the first traction control system on all full-size cars



1995

The first Electronic Stability Control system was available from Mercedes Benz



2005

The Volvo S80 was equipped with Blind Spot Monitoring



2012

All new light-duty vehicles sold in the US were required to have Electronic Stability Control



2018

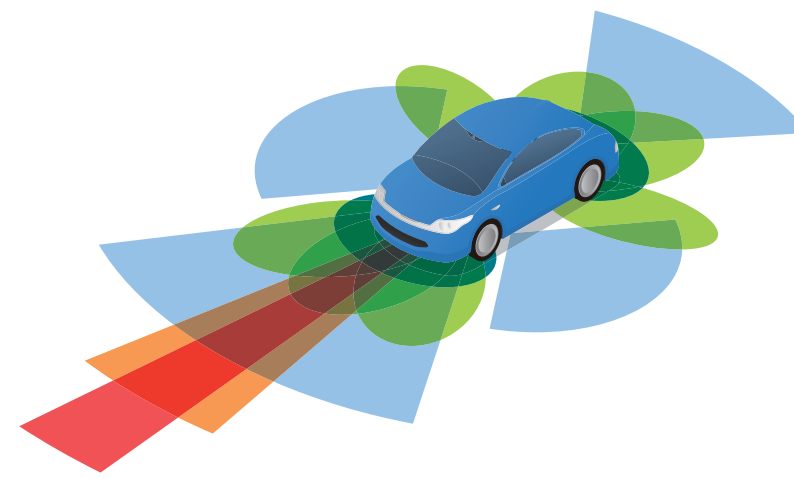
New vehicles built after May of 2018 were required by law to have a back-up camera

NAPA® ECHLIN® ADAS

Sales Opportunities

Electronic Safety Systems like Electronic Stability Control and Automated Emergency Braking are programmed for brand-new components. Worn or low-quality replacement parts can reduce the effectiveness of all Electronic Safety Systems.

Explaining ADAS to your customers will help you sell more premium parts



How ADAS Works

Your customers' vehicles may have safety features they don't even know about. When they understand how these systems work, they can make better decisions about their vehicle



Talk About "Systems," Not "Parts"

When we talk about parts, it is easy for customers to bring up price. Instead, talk about how a particular component is part of a complex Electronic Safety System. This helps your customer see more value in the quality parts you are recommending



Recommend Premium Quality Replacement Parts

The ability of electronic safety to keep your customers safe depends on the performance of both electronic and mechanical components. Only using premium parts helps make sure your customers get the benefits and capabilities of their vehicles' crash avoidance systems

NAPA® ECHLIN® ADAS

Impact on Vehicle Systems



Advanced Driver Assistance

**Systems depend on
real-time data from multiple
components including ABS
sensors and throttle
position sensors**



**Steering angle sensors
must be recalibrated after
every wheel alignment**



**ADAS can lower crash
rates by 20%, but only if
the systems are properly
maintained**

NAPA® ECHLIN® ADAS

What's New

Park Assist Sensors

Park assist sensors are of the most frequently replaced ADAS components. NAPA® Echlin® is regularly releasing new parts to make sure you have the parts needed to service your customers' vehicles.

For the most current applications, be sure to check out our catalog at NAPAEchlin.com.



PAS1177
Park Assist Sensor
Audi / VW
(2021-14)
VIO: 2.8M



PAS1158
Park Assist Sensor
General Motors
(2021-14)
VIO: 2.1M



PAS1155
Park Assist Sensor
Jeep / Chrysler
(2021-17)
VIO: 1.1M



NAPA® ECHLIN® ADAS

What's New

ADAS Components

The industry's most complete ADAS program never rests. We are regularly introducing new parts across all of our ADAS categories, so you don't have to go back to the dealer.

For the most current applications, be sure to check out our catalog at NAPAEchlin.com.



BSW131
Blind Spot Detection Sensor
Ford
(2021-17)
VIO: 1.3M



CCW86
Cruise Control Distance Sensor
Ford
(2020-18)
VIO: 2.2M



PAW405
Park Assist Camera
Nissan
(2019-16)
VIO: 1.2M



What's New

Park Assist Connector Kit

Park assist sensor connectors are easily damaged in accidents, even minor ones. They are also prone to failure from salt and corrosion. NAPA® Echlin's new Park Assist Connector Kit gives technicians a total of 64 popular connectors to help get your customers back on the road quickly and safely.



EMPK13

Includes the 5 most popular connectors, 64 total pieces

Shop time-saver – technicians have the parts they need at their fingertips

EMPK13 Contents

Part #	Qty	Vehicle Makes	VIO Coverage
EC995	16	Chrysler, Ford, GM	32.6 Million
EC2172	16	Chrysler, Ford, GM	32.5 Million
EC2293	16	BMW, Ford, GM	16.7 Million
EC2219	8	Audi, Chrysler, Ford, Volkswagen, Volvo	11.3 Million
EC913	8	Toyota	2.0 Million

NAPA® ECHLIN® ADAS

Advanced Sensor Program

Advanced Driver Assistance Systems rely on multiple sensors to provide real-time data to both the driver and the vehicle. Sensors that have failed or are not correctly calibrated may put the motorist and the occupants at risk.

NAPA® Echlin® Pro Training Tip

Salt and corrosion can damage blind spot detection sensors.



Blind Spot Detection Sensors

NAPA® Echlin® BSD Sensors are direct-fit replacements to ensure proper fit and performance. All BSDs undergo extensive quality testing and product validation.

123 SKUs / 46M Repair Opportunities



Steering Angle Sensors

NAPA® Echlin® Steering Angle Sensors are rigorously tested for fit, form and precise performance to match the original application they are replacing.

264 SKUs / 205M Repair Opportunities



Cruise Control Distance Sensors

Designed and manufactured to stringent quality standards to match the original for an easy install and to deliver precise performance.

71 SKUs / 32M Repair Opportunities



Park Assist Sensors

NAPA® Echlin® Park Assist Sensors are direct-fit replacements utilizing advanced ultrasonic technology that exactly matches the detection capabilities of the original sensors.

86 SKUs / 425M Repair Opportunities

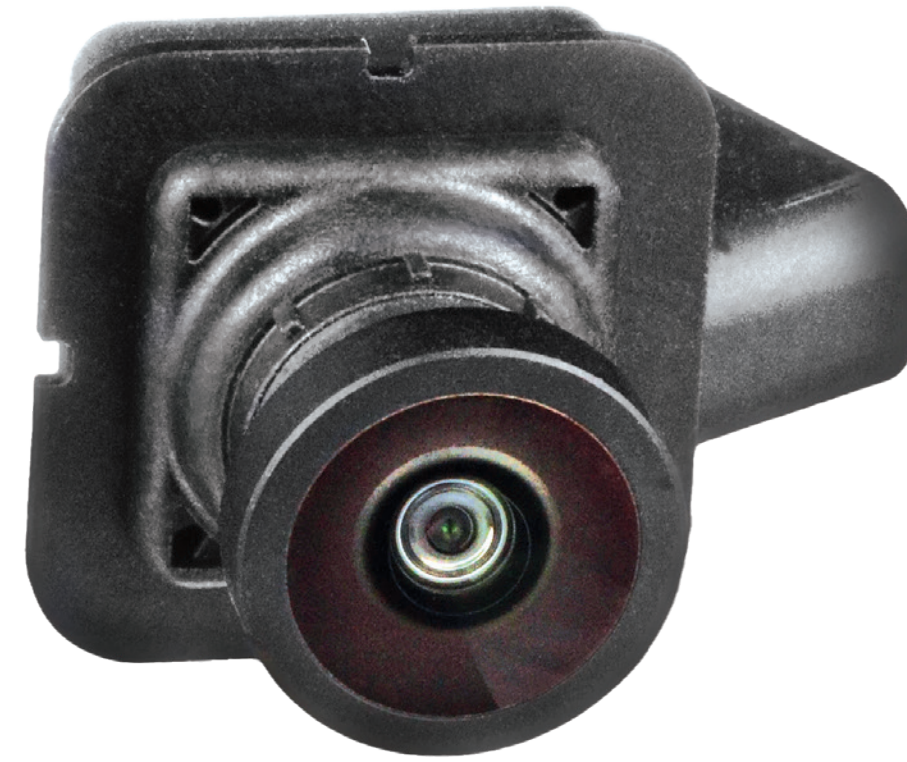
NAPA® ECHLIN® ADAS PROGRAM

ADAS Cameras

Park Assist Cameras have been on every new vehicle since 2018. This is a growing category, and NAPA® Echlin® has over 150 different Park Assist (or back-up) Cameras to make sure you don't have to go back to the dealer

NAPA® Echlin® Pro Training Tip

Low quality glass or a poor installation of a replacement windshield can affect the performance of Lane Departure System Cameras



Park Assist Cameras

Easily damaged in a rear collision, Park Assist Cameras have been mandatory in the U.S. since 2019. Most cameras are replaceable without additional programming or calibration.

Premium replacement for the failed OE unit, NAPA® Echlin® cameras are "plug & play" – no programming required. Rigorously tested to match the OEM vehicle-specific performance.

174 Cameras / 84M Repair Opportunities



Lane Departure System Cameras

Located on the windshield behind the rearview mirror, Lane Departure Cameras are now also in side-view mirrors for additional protection.

NAPA® Echlin® LDS Cameras are rigorously tested for fit, form and precise performance to match the original application they are replacing.

38 SKUs / 19M Repair Opportunities

PARK ASSIST SENSORS
Top Movers

DOMESTIC



PAS1125
GM Trucks & SUVs
(2020-06)



PAS1127
GM Trucks, SUVs & Cars
(2020-13)



PAS1126
Chrysler, Dodge, Jeep & RAM
(2021-09)



PAS1133
Ford Trucks
(2019-15)



PAS1100
Ford Trucks & SUVs
(2022-00)

IMPORT



PAS1501
Toyota Trucks and SUVs
(2020-14)



PAS1719
BMW & Volvo SUVs & Cars
(2015-07)



PAS1714
Volvo SUVs and Cars
(2014-07)



PAS1701
BMW & Mini SUVs & Cars
(2008-02)



PAS1702
BMW SUVs and Cars
(2006-02)

OTHER ADAS COMPONENTS

Top Movers

DOMESTIC



PAW480

Park Assist Camera
Ford Trucks
(2020-17)



PAW22

Park Assist Camera
RAM Trucks
(2018-13)



BSW42

Blind Spot Detection Sensor
Dodge & Chrysler Vans
(2016-13)



BSW77

Blind Spot Detection Sensor
Ford Trucks
(2018-17)



CCW18

Cruise Control Distance Sensor
Ford Trucks
(2020-15)

IMPORT



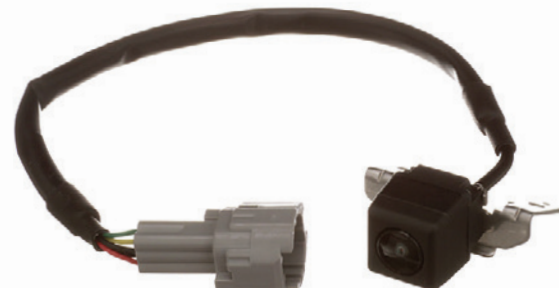
PAW340

Park Assist Camera
Honda Cars
(2017-14)



PAW392

Park Assist Camera
Honda Cars
(2015-14)



PAW16

Park Assist Camera
Hyundai Cars
(2015-10)



BSW86

Blind Spot Detection Sensor
Mercedes SUVs & Cars
(2016-12)



CCW10

Cruise Control Distance Sensor
Toyota SUVs & Cars
(2018-15)

Related Parts

Mechanical and electronic components must function as designed to keep electronic safety systems operating correctly. Sensors send information to electronic control modules hundreds of times per second, and the vehicle’s computer sends commands back to help keep the motorist safe.

NAPA® Echlin® and Tech Expert® provide technicians with the additional Sensors and Connectors needed to keep electronic safety systems operating correctly.



ABS Sensors

NAPA® Echlin® ABS Sensors always match the fit and performance of the OE, even when OE uses a complex multi-directional sensor

2,476 SKUs / 700M Repair Opportunities



Accelerator Pedal Sensors

NAPA® Echlin® Accelerator Pedal Sensors are tested for output to make sure they perform on every vehicle in every situation

424 SKUs / 224M VIO



Throttle Position Sensors

NAPA® Echlin® Throttle Position Sensors are tested and calibrated to electronically lock voltage output for accuracy

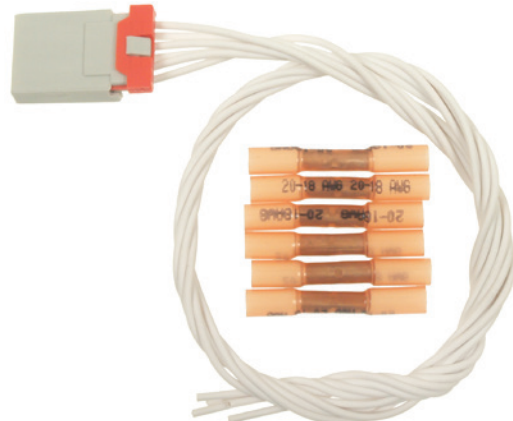
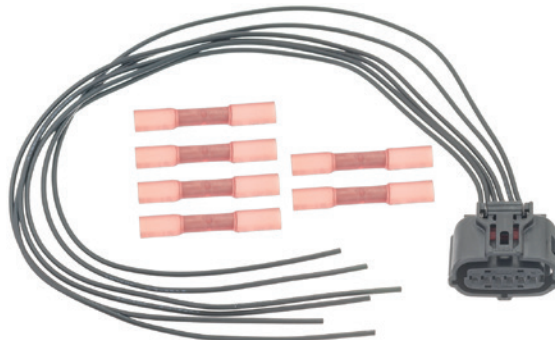
270 SKUs / 81M VIO



Ride Height Sensors

Tech Expert® Ride Height Sensors are engineered and tested to provide the ECU with timely and accurate data to make decisions about vehicle performance and safety

26 SKUs / 31M VIO



Electrical Connectors

NAPA® Echlin® offers hundreds of electrical connectors to help keep Advanced Driver Assistance Systems operating correctly.

Steering Angle Sensor Connectors
Park Assist Sensor Connectors
Blind Spot Detection Sensor Connectors
Cruise Control Distance Sensor Connectors

Park Assist Sensor Connectors
Lane Departure System Connectors
ABS Sensor Connectors and more

NAPA® ECHLIN® ADAS PROGRAM

NAPA® Echlin® Quality

Park assist sensors help keep your customers safe. The quality and performance of the part matters, which is why NAPA® Echlin® tests each part to make sure it integrates correctly with safety systems, and functions in all conditions.

NAPA® Echlin® Park Assist Sensors

Advanced ultrasonic technology matches the object detection range of OE ensuring the driver is alerted of objects within the vehicle's path

Engineered and manufactured in SMP's Poland facility

Designed to match the performance of the original and integrate with electronic safety systems

Includes a new seal to help keep moisture out for a long service life



NAPA® Echlin® PAS1126

Chrysler, Dodge, Jeep & RAM
(2021-2009)

ADAS PROGRAM

NAPA® Echlin® Training Tech Tip

NAPA® Echlin® Pro Trainers have installed hundreds of ADAS components and trained thousands of technicians. Here's what they say to look out for during an install.



Any time an ADAS component is removed and reinstalled (even if it wasn't replaced or unplugged) it needs to be checked to see if a calibration is required per service information

Always read and follow service information exactly and completely when performing a calibration – no short cuts



Ensure that all prerequisites are met and correct (vehicle ride height, fuel tank level, tire pressure, etc.) prior to performing a calibration

ADAS PROGRAM

NAPA® Echlin® Professional Training

**Award-Winning In-Person, Live
Virtual, and Online Learning**

NAPA® Echlin® Training delivers accredited classes that educate technicians in the latest automotive repair technologies, and techs can earn CEU credits.

An extension of NAPA® Echlin® training, our extensive ADA-compliant YouTube professional video library features more than 500 installation and product videos.



**PRO
TRAINING**
ON-DEMAND

NAPA® Echlin® offers an annual subscription to Pro Training On-Demand. This subscription grants access to more than 200 English, and over 50 Spanish 1-hour courses – and the NAPA® Echlin® on-demand library continues to grow. Topics range from fundamentals to advanced concepts, and include HVAC, diesel, hybrid, ignition, injection, electrical and communication diagnosis.



**PRO
TRAINING**
ON-SITE

Whether in-person at your location or virtually via computer, all NAPA® Echlin® Training classes feature a live instructor and are fully interactive as students work through real-life scenarios. Virtual class “workbooks” include on-demand links to video content and student configurable scan data.

Visit NAPAEchlinTraining.com