

# SWITCHES AND RELAYS

1

NAPA® Echlin® offers nearly 10,000 high-quality Switches and Relays in hundreds of categories

2

Echlin® has more than 250 Oil Pressure Switches, representing 270M repair opportunities

3

Most switches and relays are entirely powertrain neutral, meaning they fit gas, diesel, hybrid and electric vehicles

**What's in your box?™  
Here's what's in ours.**

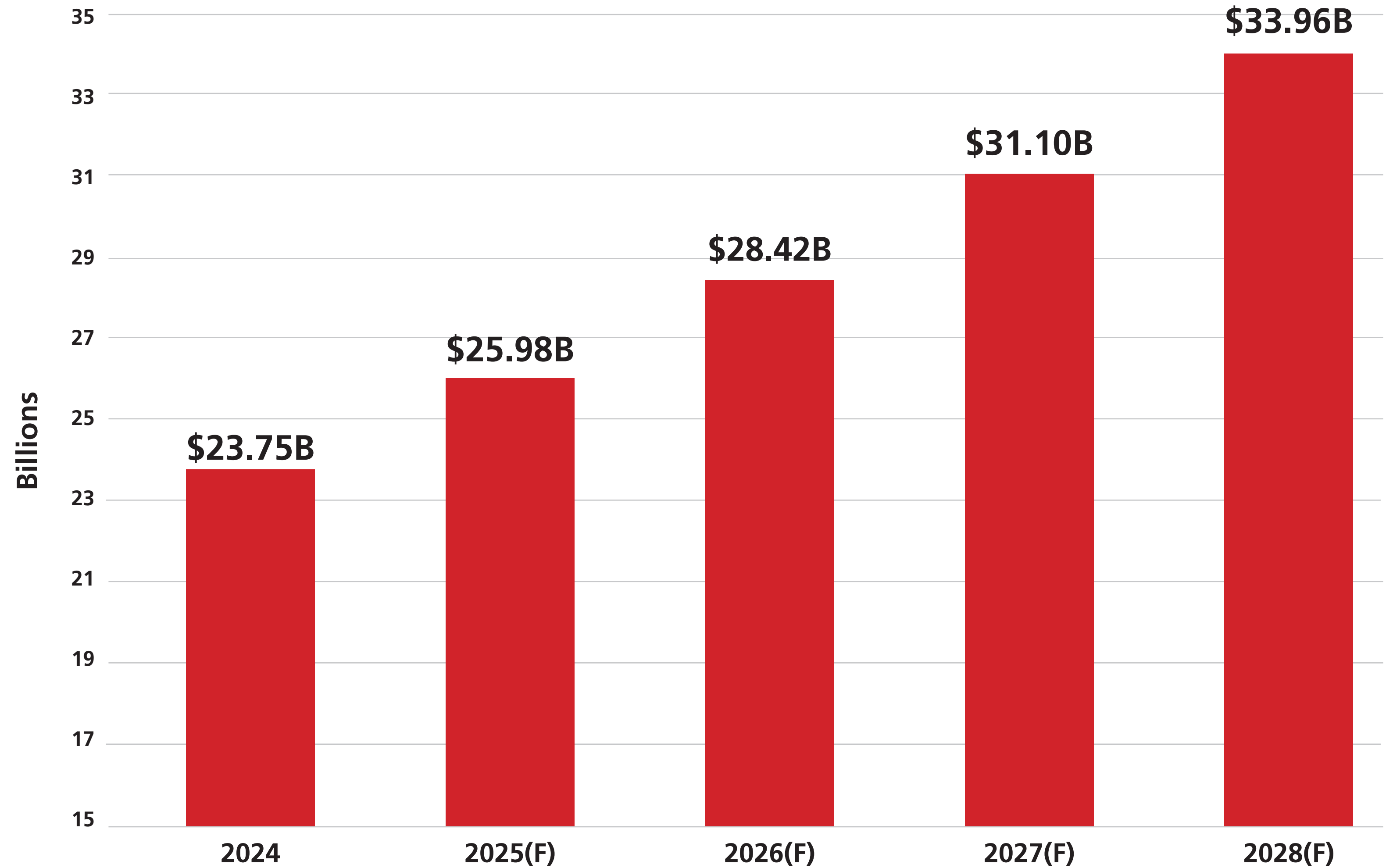




# Growing Market

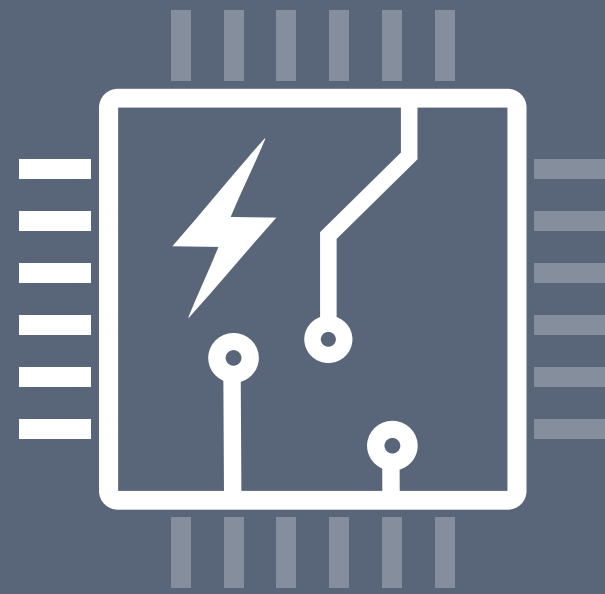
Driven by electronic safety systems, additional passenger comfort features and infotainment systems, the number and complexity of switches on vehicles continue to grow. These additional switches will help create more service opportunities for both traditional automotive repair facilities and collision repair shops.

## The Automotive Switch Market is Forecasted to Grow 43% by 2028

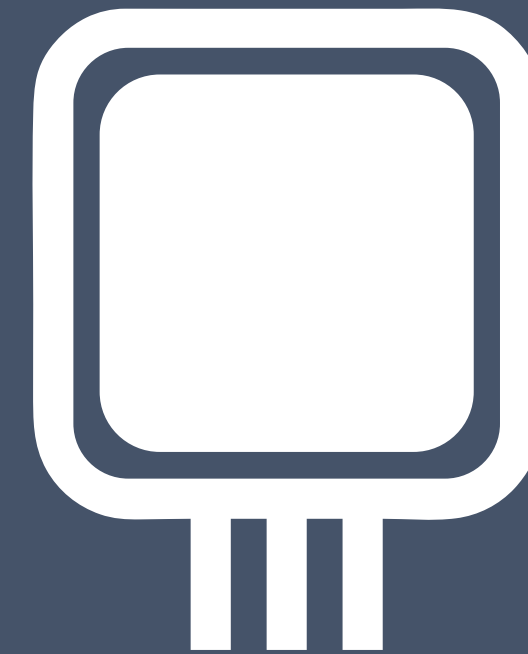


Source: Automotive Switch Global Market Report 2024, Business Research

# Impact on Vehicle Systems



If a switch shorts out, it may pull the reference voltage down with it and cause other sensors and components to not work properly



Any time a load-bearing electrical device fails, it is highly recommended to also replace the corresponding relay. It is good insurance on the new part



Newer brake switches are more than a simple on/off switch, so they need to be calibrated after they are replaced. Failure to do so may affect starting, the start/stop system, ABS system, and electronic throttle control system

# Your Complete Program

Echlin® offers thousands of precision-engineered Switches across multiple categories. Our Switches are designed for both reliability and correct performance in all conditions.

Visit [NAPAEchlin.com](http://NAPAEchlin.com) for more details on the Switches we offer for specific vehicles.

## Echlin® Switch Program

### Chassis and Drivetrain Switches

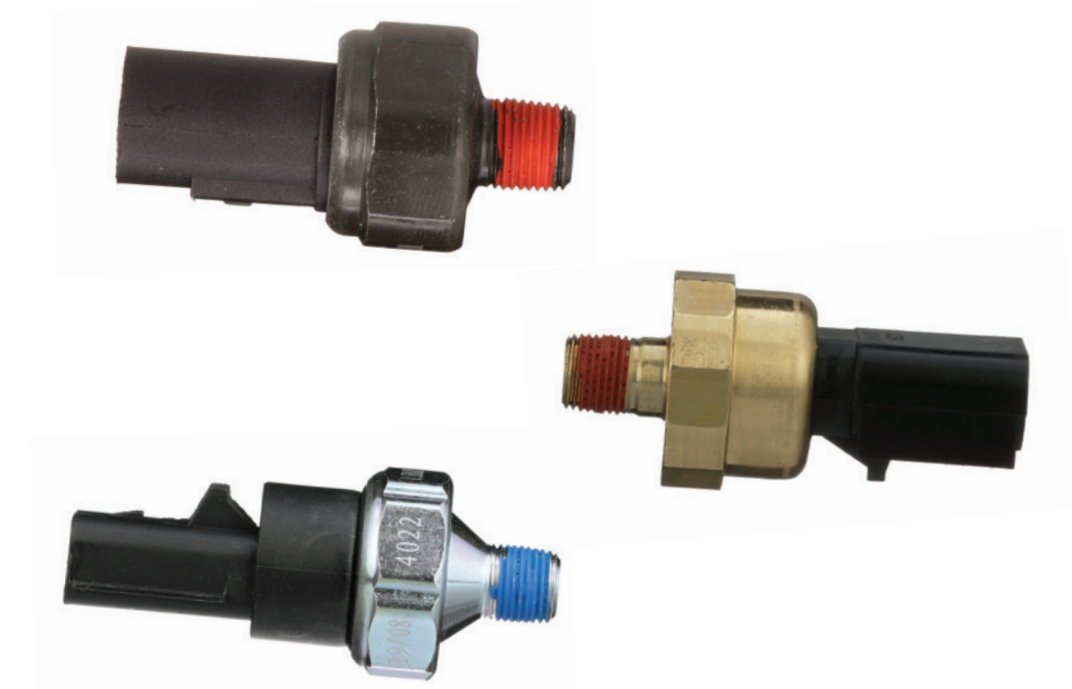
- Clutch Starter Safety Switches
- Four Wheel Drive Actuator Switches
- Four Wheel Drive Selector Switches
- Fuel Pump Cut-Off Switches
- Neutral Safety Switches
- Transfer Case Switches
- Transmission Control Switches

### Body Light Switches

- Back-Up Light Switches
- Courtesy Light Switches
- Hazard Light Switches
- Headlight Dimmer Switches
- Headlight Switches
- Instrument Panel Dimmer Switches
- Stoplight Switches
- Turn Signal Switches

### Interior Switches

- Cruise Control Release Switches
- Cruise Control Switches
- Fuel Tank Selector Switches
- Liftgate Release Switches
- Clock Spring Switches
- Parking Brake Switches
- Power Door Lock Switches
- Power Seat Switches
- Power Window Switches
- Remote Mirror Switches
- Windshield Wiper Switches
- Fog Lamp Switches
- Power Sunroof Switches
- Trunk Release Switches
- Vehicle Ride Height Switches



### Ignition Switches

- Ignition Switches with Lock Cylinder
- Ignition Push Button Switches
- Ignition Starter Switches

### Pressure and Vacuum Switches

- Oil Pressure Switches
- Power Steering Pressure Switches
- Transmission Oil Pressure Switches
- Valve Timing Oil Pressure Switches



# Your Complete Program

Echlin® has more than 1,300 Relays that cover more than 200 different categories. Our complete Relay program ensures that you find the part you are looking for, with the quality and performance you expect from Echlin®.

## Echlin® Pro Training Tip

On NPAEchlin.com, you can search "relay" and quickly filter by amperage and terminal type.

## Echlin® Relay Program

ABS Relays

Accessory Relays

AC Compressor Clutch Relays

AC Relays

Adjustable Pedal Relays

Air Bag Relays

All Wheel Drive Control Relays

Automatic Headlight Relays

Check Lamp Relays

Coolant Fan Relays

Daytime Running Lamp Relays

Electronic Brake Control Relays

Engine Control Relays

Flashers

Headlight Dimmer Switch Relays

Heated Mirror Relays

Horn Relays

Ignition Control Module Relays

Ignition Relays

Keyless Entry System Relays

Multi-function Relays

Overdrive Relays

Power Door Lock Relays

Power Window Relays

Rear Window Defogger Relays

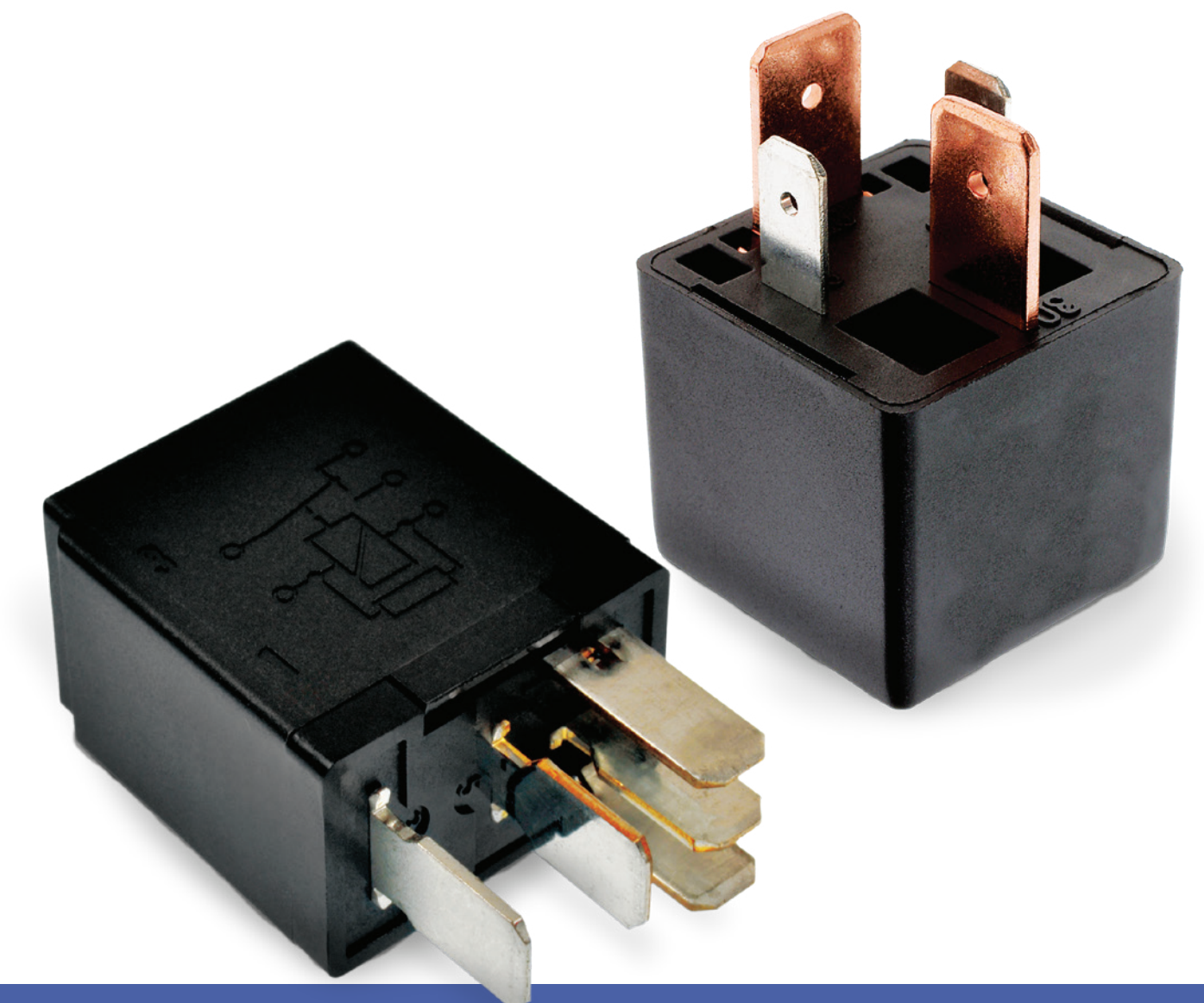
Rear Window Wiper Relays

Secondary Air Injection Pump Relays

Trailer Towing Package Relays

Wiper Relays

...and hundreds of more applications



# What's New

## Oil Pressure Switches

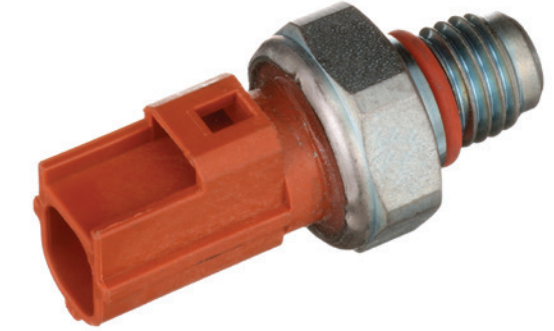
Echlin® has over 250 Oil Pressure Switches representing almost 270 million repair opportunities. Our industry-leading coverage gets better all the time as we frequently release new Switches for import and domestic vehicles.

For the most recent applications, check the online catalog at [NAPAEchlin.com](https://www.NAPAEchlin.com).



### OP7755

GM Cars & Trucks  
(2020-19)  
VIO: 912K



### OP7748

Ford Trucks & Vans  
(2024-20)  
VIO: 585K



### OP7753

Toyota / Lexus Cars & SUVs  
(2024-18)  
VIO: 3.3M



### OP7772

Infiniti SUVs  
(2019-15)  
VIO: 140K



ECHLIN

Oil Pressure Switches

[NAPAEchlin.com](https://www.NAPAEchlin.com)



# What's New

## Power Window Switches

Echlin® offers more than 1,500 Power Window Switches. New Power Window Switches, along with Cruise Control Switches, Power Seat Switches, and other interior Switches are being introduced regularly.

For the most recent applications, check the online catalog at [NAPAEchlin.com](https://www.napaechlin.com).



### PA5184

Subaru Cars & SUVs  
(2018-14)  
VIO: 1.2M



### PA5225

Volkswagen Cars & SUVs  
(2024-16)  
VIO: 1.2M



### PA5224

Volkswagen Cars & SUVs  
(2024-16)  
VIO: 1.1M



### PA5230

Dodge / Jeep SUVs  
(2024-16)  
VIO: 1.7M



ECHLIN

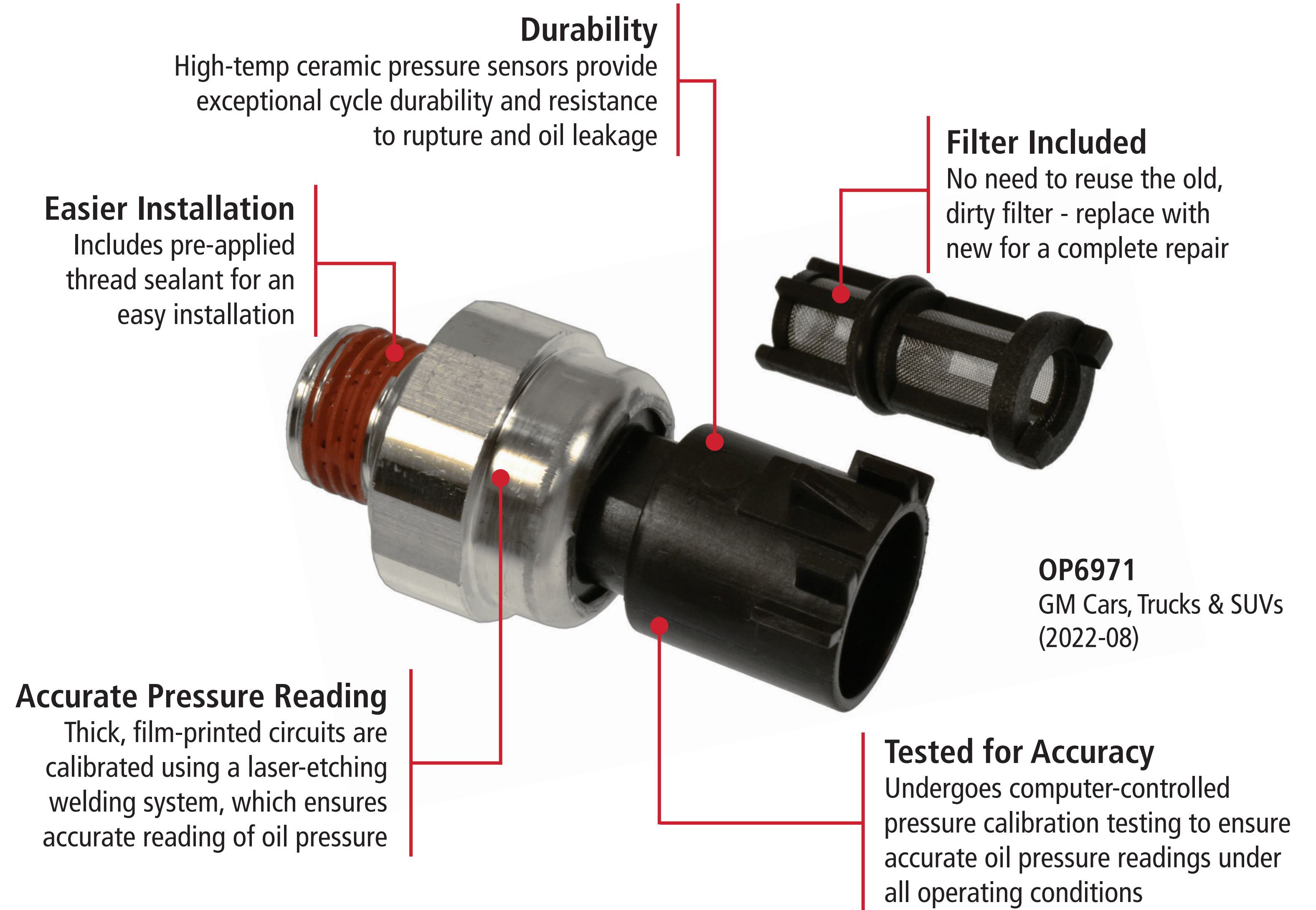
Power Window Switches

[NAPAEchlin.com](https://www.napaechlin.com)

# A Closer Look

Oil pressure switches are critical to monitoring the health of engine oiling systems. Echlin® Oil Pressure Switches undergo computer-controlled calibration to ensure precise performance in all conditions.

## Echlin® Oil Pressure Switches



ECHLIN

Oil Pressure Switches

NAPAEchlin.com



# Top Movers: Oil Pressure Switches

## IMPORT APPLICATIONS



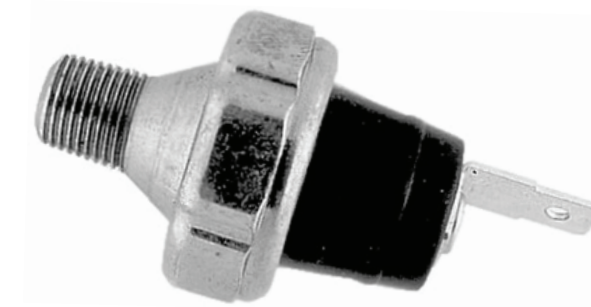
**OP6730**

Hyundai / Kia  
Cars & SUVs  
(2023-03)



**OP6163**

Toyota / Lexus  
Cars, Trucks & SUVs  
(2024-92)



**OP6612**

Multiple Makes  
Cars, Trucks, SUVs & Vans  
(2020-70)



**OP6775**

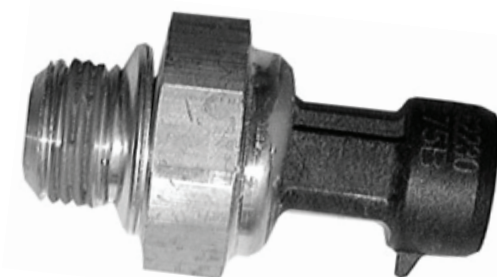
Honda / Acura  
Cars, Trucks & SUVs  
(2019-84)



**OP6115**

Nissan / Infiniti  
Cars, Trucks, SUVs & Vans  
(2020-84)

## DOMESTIC APPLICATIONS



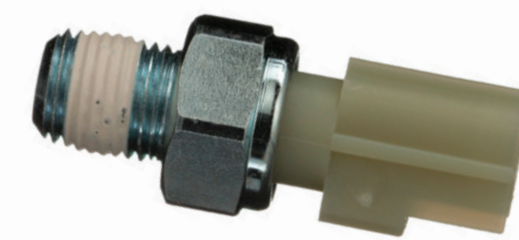
**OP6196**

GM  
Cars, Trucks, SUVs & Vans  
(2009-97)



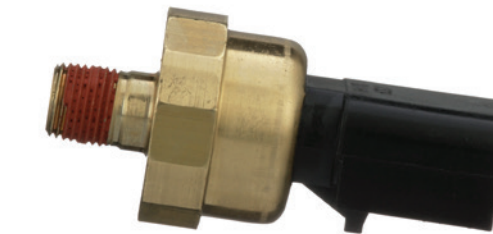
**OP6971**

GM  
Cars, Trucks, SUVs & Vans  
(2022-09)



**OP6889**

Ford / Lincoln / Mercury  
Cars, Trucks, SUVs & Vans  
(2024-97)



**OP6185**

Chrysler / Dodge / Jeep / RAM  
Cars, Trucks, SUVs & Vans  
(2017-99)



**OP6722**

Chrysler / Dodge / Jeep / RAM  
Trucks, SUVs & Vans  
(2013-02)



ECHLIN

Oil Pressure Switches

NAPAEchlin.com



# A Closer Look

Echlin® Ignition Switches are a direct replacement to the original. They are designed for precise function and easy installation.

Ignition Switches are also 100% powertrain neutral, meaning they will represent service opportunities for years to come.

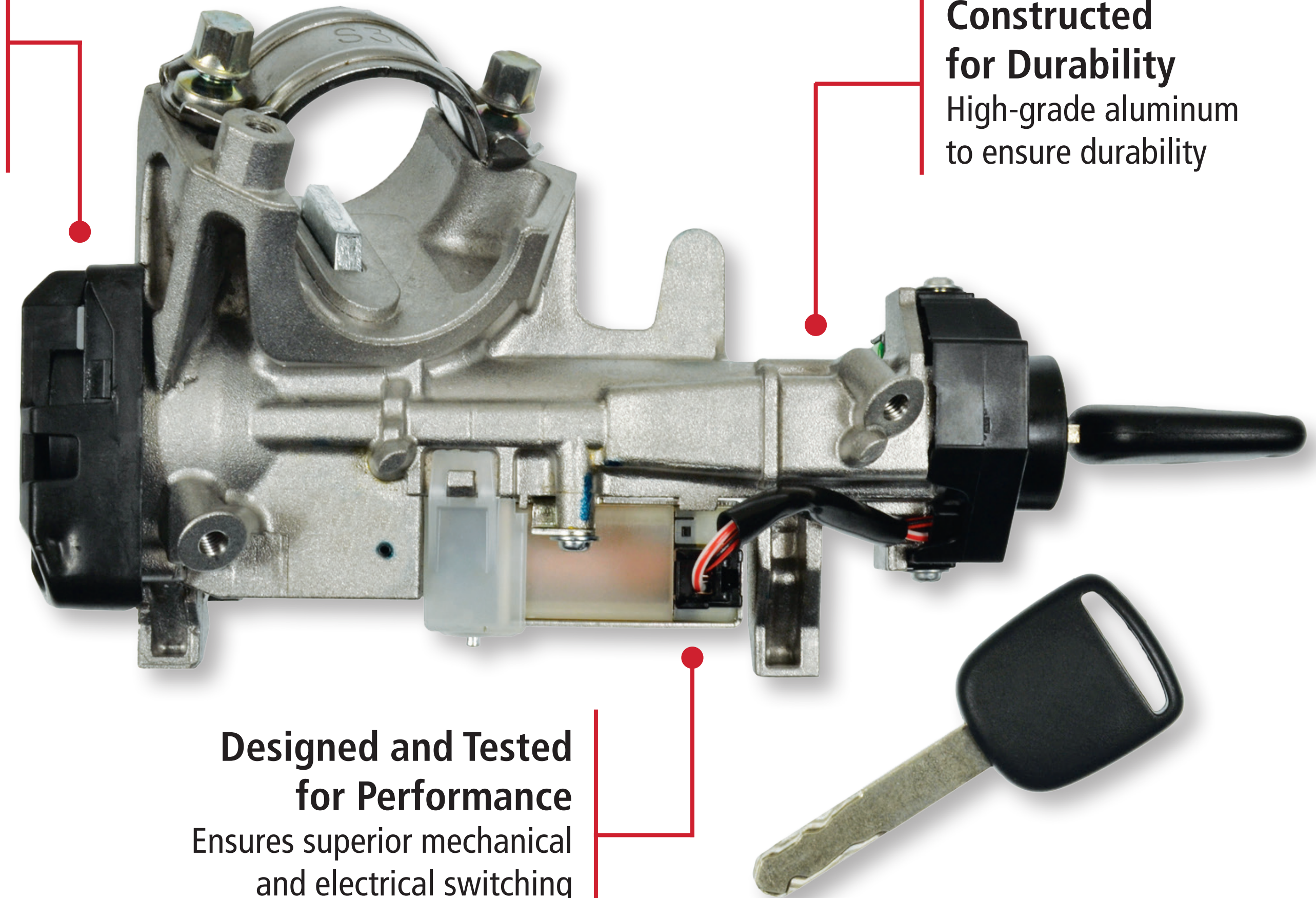
## Echlin® Ignition Switch with Lock Cylinder

### Performs in Extreme Conditions

Copper alloy conductors ensure superior electrical conductivity with low resistive losses

### Constructed for Durability

High-grade aluminum to ensure durability



### KS7515

Honda  
Cars & SUVs  
(2013-08)

### Designed and Tested for Performance

Ensures superior mechanical and electrical switching performance



# Top Movers: Ignition Switches

**IMPORT  
APPLICATIONS**



**KS6830**

Honda / Acura  
Cars & SUVs  
(2013-02)



**KS7370**

Hyundai / Kia  
Cars & SUVs  
(2023-10)



**KS6405**

Nissan  
Cars, Trucks & SUVs  
(1997-86)



**KS7354**

Honda / Acura  
Cars  
(2014-08)



**KS7053**

Hyundai / Kia  
Cars & SUVs  
(2014-05)



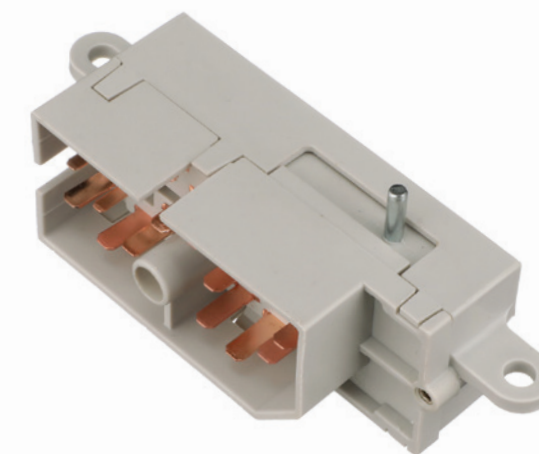
**KS6254**

GM  
Trucks, SUVs & Vans  
(2011-01)



**KS6804**

Ford / Lincoln / Mercury  
Cars, Trucks, SUVs & Vans  
(2019-00)



**KS6667**

Ford / Lincoln / Mercury  
Cars, Trucks & SUVs  
(2005-90)



**KS7107**

GM  
Trucks, SUVs & Vans  
(2020-07)



**KS6861**

Chrysler / Dodge / Jeep  
Cars & SUVs  
(2018-01)



**ECHLIN**

Ignition Switches

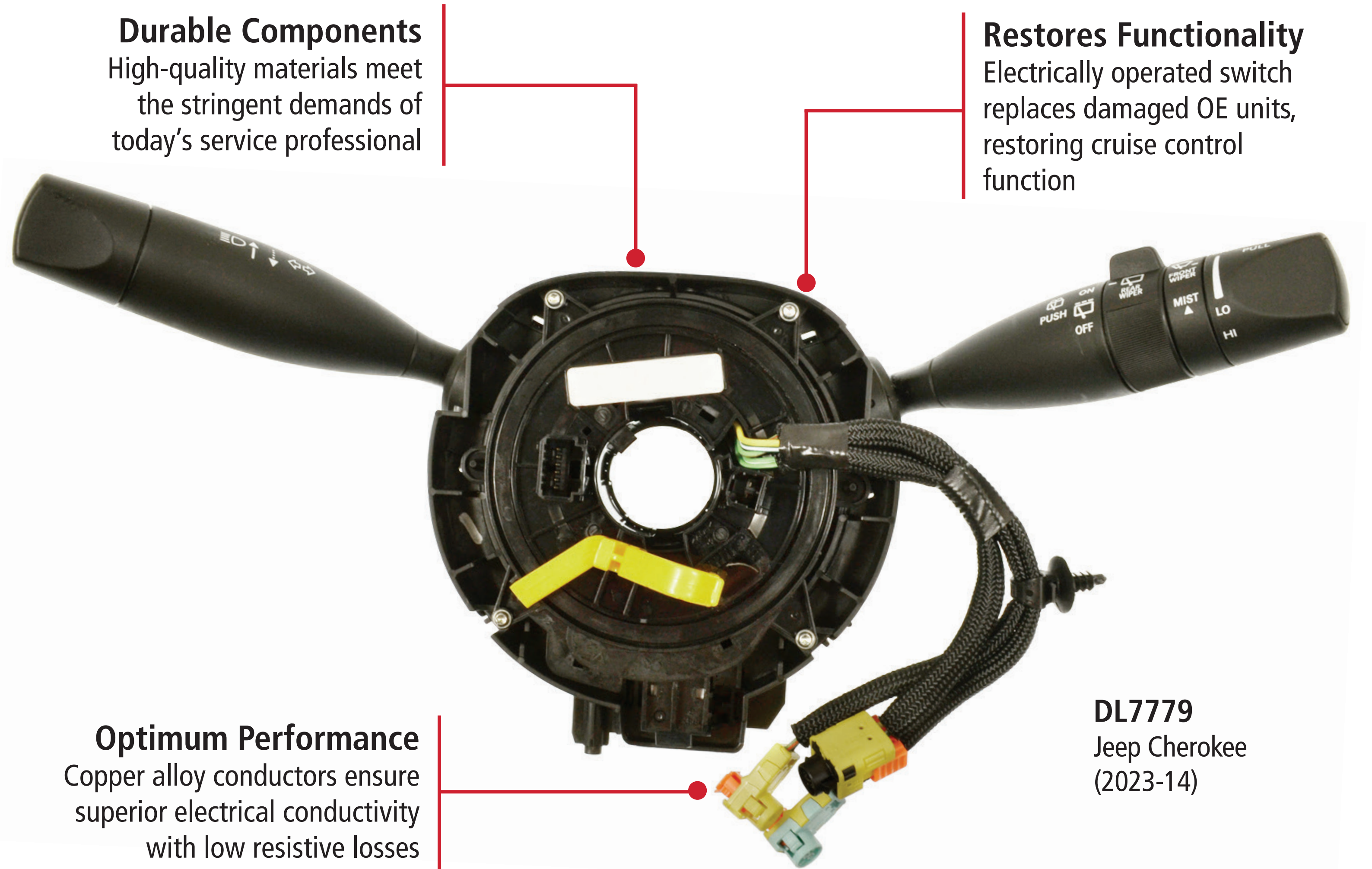
[NAPAEchlin.com](http://NAPAEchlin.com)



# A Closer Look

Echlin® offers thousands of direct-replacement interior and driver/passenger-operated switches. All Echlin® interior switches are designed and manufactured for a precise fit and correct on-vehicle performance. Interior switches are also entirely powertrain neutral.

## Echlin® Combination Switches



**Durable Components**  
High-quality materials meet the stringent demands of today's service professional

**Restores Functionality**  
Electrically operated switch replaces damaged OE units, restoring cruise control function

**Optimum Performance**  
Copper alloy conductors ensure superior electrical conductivity with low resistive losses

**DL7779**  
Jeep Cherokee  
(2023-14)



# Top Movers: Combination Switches

**IMPORT  
APPLICATIONS**



**DL7194**  
Toyota  
Cars & SUVs  
(2015-05)



**DL7330**  
Nissan Sentra  
(2012-07)



**DL7357**  
Nissan Titan  
(2008-06)



**DL7358**  
Nissan / Infiniti  
SUVs  
(2015-07)



**DL7170**  
Hyundai / Kia  
Cars & SUVs  
(2012-06)

**DOMESTIC  
APPLICATIONS**



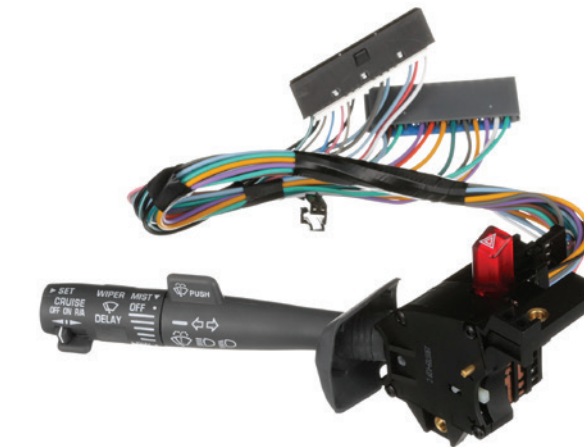
**DL6803**  
Ford  
Cars & Vans  
(2019-04)



**DL6739**  
Ford / Lincoln  
Trucks  
(2008-05)



**DL7694**  
Ford  
Trucks & Vans  
(2024-15)



**DL6087**  
GM  
Trucks, SUVs & Vans  
(2002-95)



**DL6557**  
GM  
Trucks & SUVs  
(2009-01)



**ECHLIN**

Combination Switches

[NAPAEchlin.com](http://NAPAEchlin.com)

# Top Movers: Power Window Switches

**IMPORT  
APPLICATIONS**



**PA5217**  
Kia Sportage  
(2017-11)



**PA1697**  
Honda Civic  
(2011-06)



**PA1904**  
Nissan Murano  
(2014-08)



**PA3589**  
Toyota Cars  
(2010-02)



**PA3886**  
Honda Accord  
(2012-08)

**DOMESTIC  
APPLICATIONS**



**PA1426**  
GM  
Trucks & SUVs  
(2017-07)



**PA1510**  
GM  
Trucks & SUVs  
(2008-03)



**PA931**  
Ford / Lincoln / Mercury  
Cars, Trucks & SUVs  
(2008-03)



**PA4581**  
Chrysler / Dodge / RAM  
Trucks & SUVs  
(2022-12)



**PA3379**  
Dodge / RAM  
Trucks  
(2012-09)



**ECHLIN**

Power Window Switches

[NAPAEchlin.com](http://NAPAEchlin.com)



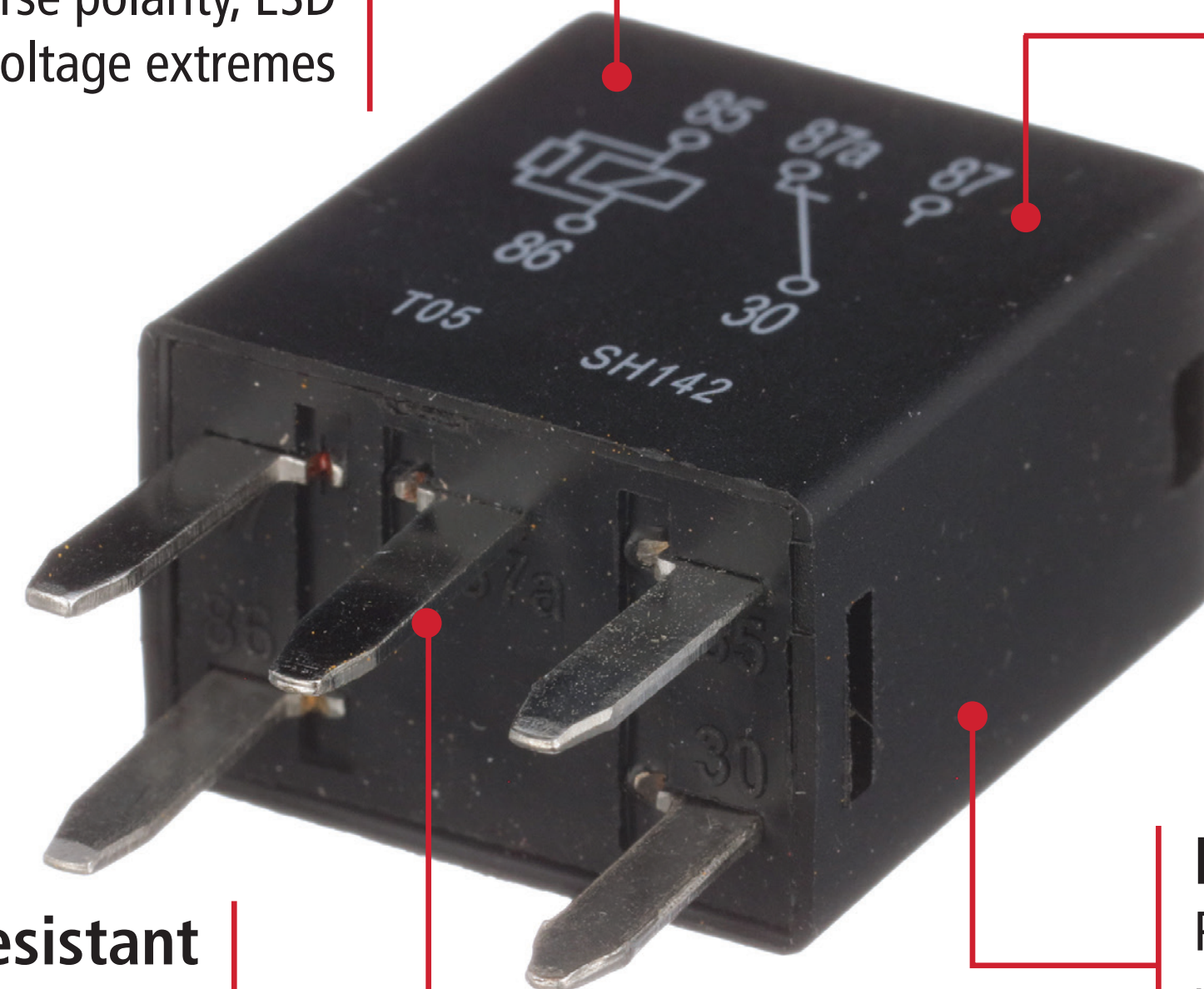
# A Closer Look

Echlin® Relays are the product of high-quality design, manufacturing and testing. With over 1,300 different Relays available, Echlin® has the Relay you want with the quality and performance your customers need.

## Echlin® Engine Cooling Fan Relay

**Withstands Electrical Over-stress**  
Circuitry is designed to withstand electrical over-stress conditions such as reverse polarity, ESD transients, and jump start voltage extremes

**Current and Voltage Tested**  
Tested for continuous current load, quiescent current, voltage drop, pull-in current, voltage and hysteresis



**AR533**  
Dodge / Chrysler /  
Plymouth / Jeep / RAM  
(2023-94)

**Corrosion-Resistant**  
Copper terminals with aluminum inlay keep electrical resistance low and provide wire bonding and corrosion protection

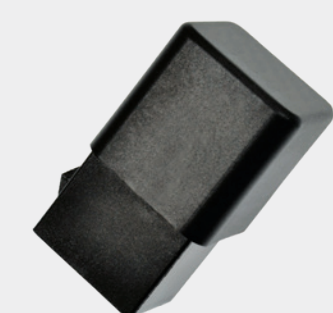
**Durability**  
Provides excellent corrosion resistance and thermal conductivity



Flashers



Accessory Relays



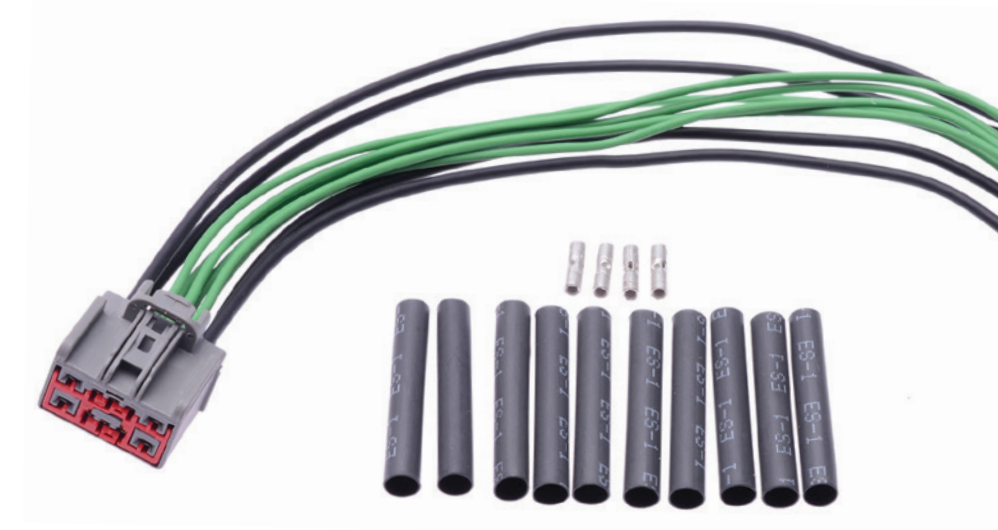
Starter Relays

# Related Parts

In addition to over 50 different types of Switches, we also offer the high-quality Connectors you need to get your customers back on the road.

To find the Connector you are looking for, visit [NAPAEchlin.com](http://NAPAEchlin.com).

## Echlin® Switch Connectors



Multi-function Switch Connectors

Door Jamb Switch Connectors

Door Cylinder Anti-Theft Switch Connectors

Oil Pressure Switch Connectors

Door Lock Position Switch Connectors

Coolant Fan Switch Connectors

Heated Seat Switch Connectors

Four Wheel Drive Selector Switch Connectors

Fuel Pump Cut-Off Switch Connectors

Seat Belt Switch Connectors

Fuel Door Release Switch Connectors

Coolant Fan Switch Connectors

Backup Light Switch Connectors

Clutch Pedal Switch Connectors

Shift Interlock Switch Connectors

Power Take-Off Switch Connectors

Torque Converter Lock-Up Switch Connectors

A/C Cut-Off Switch Connectors

Axle Shift Switch Connectors

Fog Lamp Switch Connectors

Four Wheel Drive Selector Switch Connectors

Choke Heater Switch Connectors

...and more



# Echlin® Pro Training Tech Tip

As experienced ASE-certified automotive technicians themselves, Echlin® Pro Trainers are experts in engine and switch technology. Here's what they say to look out for during an install.



**Some switches, such as power window switches, are actually a module and require programming and calibrating after replacement. Always refer to service information for complete repair instructions prior to ordering parts**



**Many modern switches are simply an input to a module. During the diagnostic process, technicians should scan for DTCs in all modules, use data to monitor the input from the switch, and bi-directionally control the driven device to ensure that it is functional**

# Echlin® Professional Training

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

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

An extension of Echlin® training, our extensive YouTube video library has over 500 technical and installation videos.



## Available Classes

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A6 ASE Electrical Test Prep

Diagnosing Electronic 4WD Controls

Diagnosing Electronic Fuel  
Pump Controls

Lab Scope Setup

Relay Testing and Diagnosis

Vehicle Electronic Fundamentals 1-7



## Available Classes

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Advanced Driveability Diagnostics

Body Control Electronics Diagnosis

Chassis Electronics Diagnosis

Demystifying Electrical Diagnosis

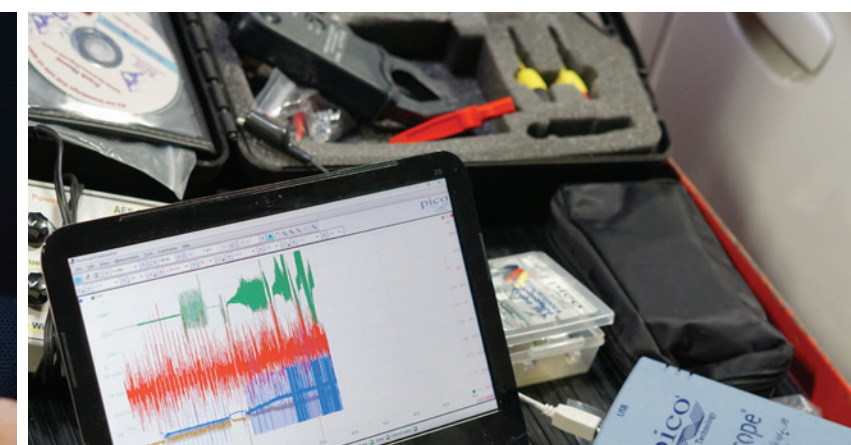
Domestic Anti-theft

Labscope Power User

Unleash the Power of Your Scan Tool



For information on replacing switches, search “Switches” on the **NAPAEchlin** YouTube channel



**ECHLIN**

Switches and Relays

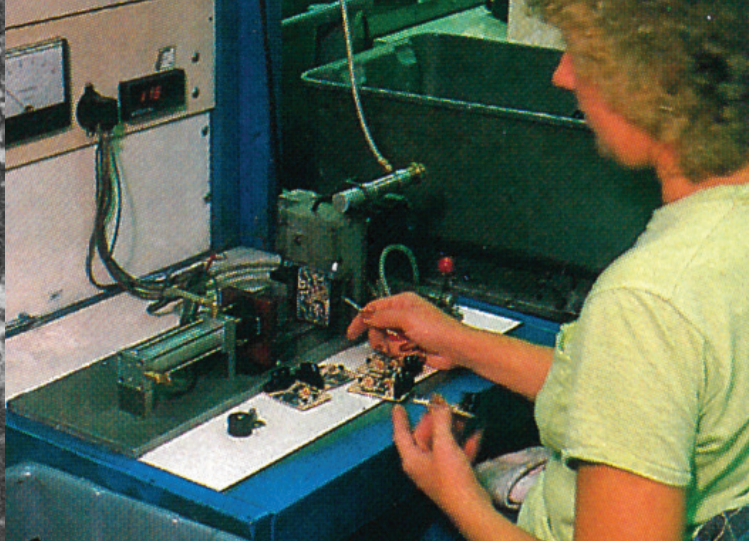
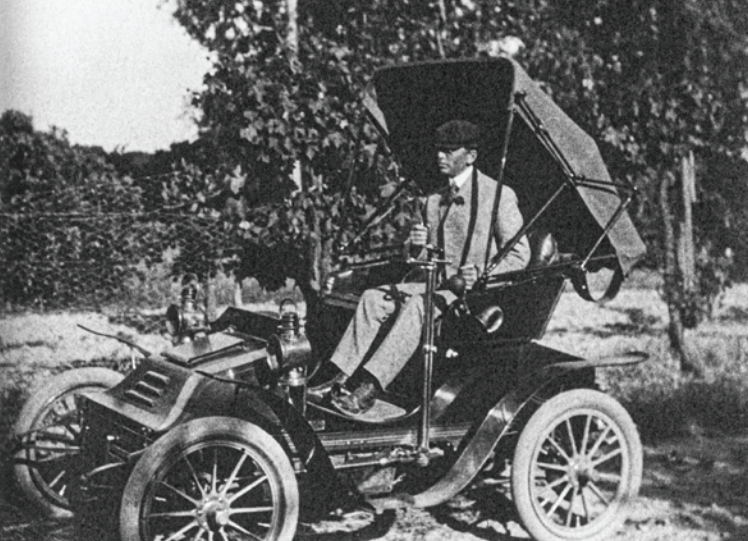
[NAPAEchlin.com](http://NAPAEchlin.com)



# 100 Years of Excellence

For 100 years, marketing support materials and advertisements have been created to build Echlin® into a well-known, trusted, and reputable national brand.

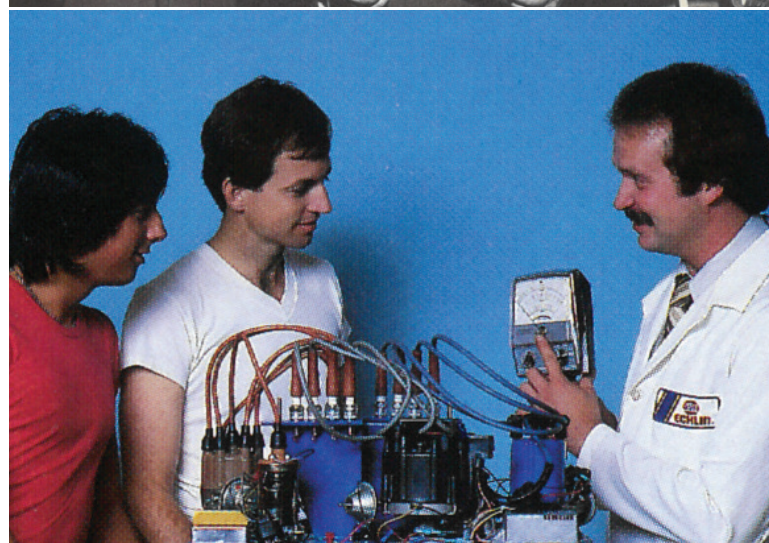
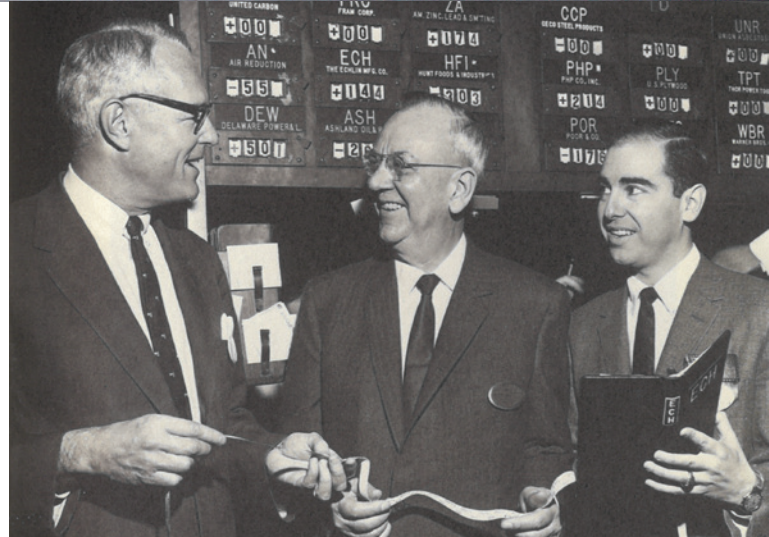
Building brand loyalty and recognition with professional technicians takes decades. For 100 years, Echlin® has been supporting NAPA® with national advertising campaigns and more recently, effective technical training programs. Most importantly, the Echlin® brand has endured because generations of professional technicians know they can trust what's in the box.



# ECHLIN®

# 100

## YEARS OF EXCELLENCE



**Visumatic...**  
a multi-purpose business system

FOR BRINGING IN REPEAT BUSINESS

When you finish a brake job, you can proudly say, "Mr. Morgan, I am an independent. Free to buy the best parts made, I installed United Brake Parts. I took pains to replace every part needed to give you safe, trouble-free performance. I am proud of what I did for you."

"I INSTALLED UNITED BRAKE PARTS... AND I DID A FIRST CLASS JOB!"

**Visumatic...** FOR BRINGING IN REPEAT BUSINESS

