

## TIRE PRESSURE MONITORING SYSTEM (TPMS)

# Highlights

- 1 Full line of OE-Match pre-programmed TPMS Sensors are ready-to-install right out of the box
- 2 QWIK-SENSOR® Multi-Frequency TPMS Sensors combine 314.9MHz - 434MHz applications into one single Sensor program
- 3 Our blended program offers 99% coverage plus a full line of service kits & TPMS tools



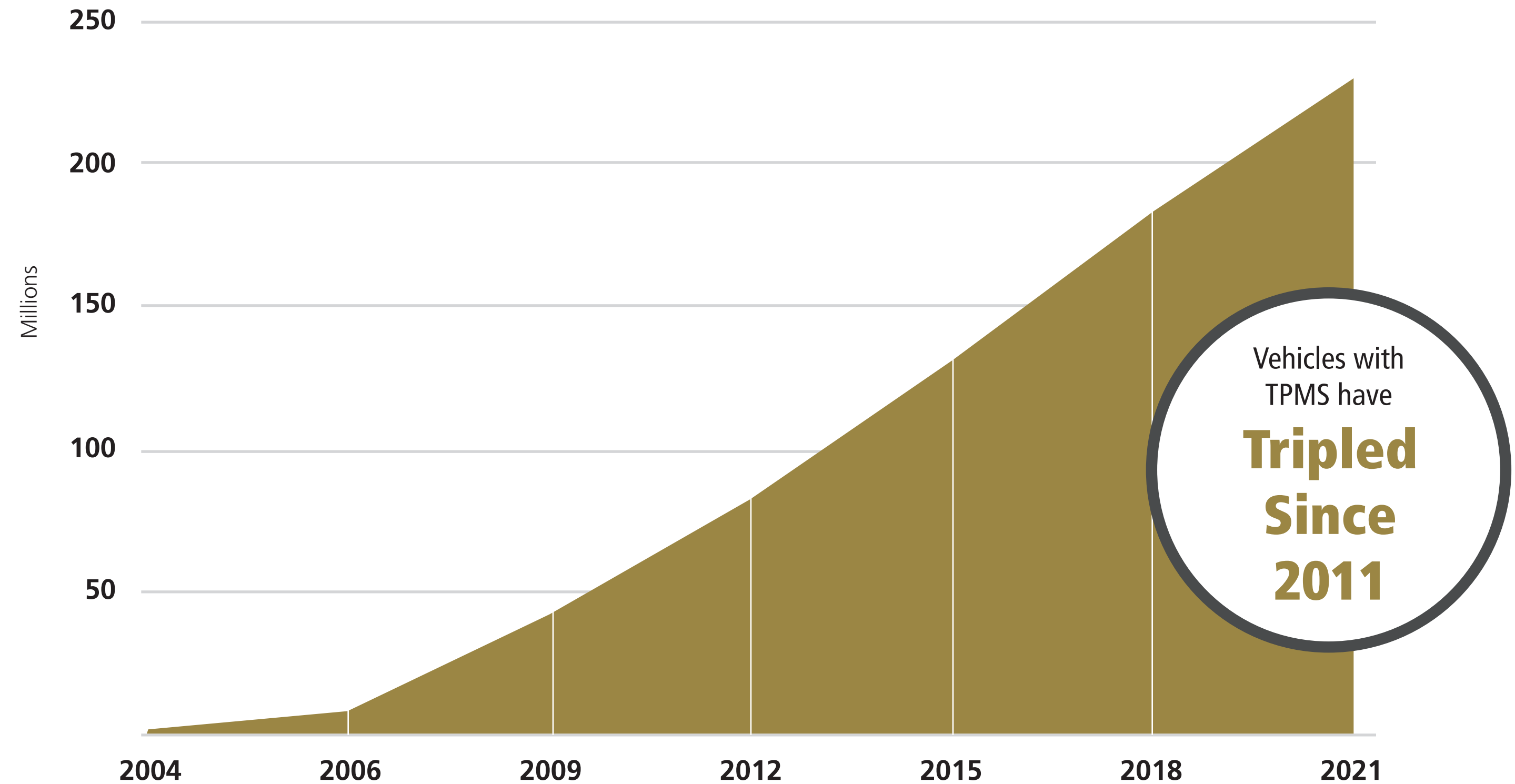
## What's in your box?™



# Growing Market

Tire Pressure Monitoring Systems (TPMS) first started appearing on vehicles in 2004, and in 2008 it became mandatory that all new light vehicles sold in the U.S. have this important safety system.

## Vehicles on the Road with TPMS Systems



Source: SMP Internal Data

### Did You Know

TPMS sensors generally last 5-10 years before the original batteries fail. From 2013 to 2017, 84 million new TPMS-equipped vehicles were added to the road – that represents 336 million replacement opportunities (even more if the spare requires service).

## TPMS SENSORS

# Sales Opportunities

TPMS sensors are sealed units powered by batteries, with the typical lifespan of these batteries being 5-10 years. When new tires are being installed, reusing old sensors doesn't make sense, as they're susceptible to failure.

### NAPA® Echlin® Pro Training Tip

Canned tire sealants can cause immediate damage to TPMS sensors. If any type of sealant has been used, a new TPMS sensor should be installed.

## When it's time for the third set of tires, it's time for new TPMS sensors.



### Original Set of Tires

On the vehicle from 0 to 35,000-50,000 miles or around 4-5 years



### Second Set of Tires

On the vehicle until the odometer reads 75,000-100,000 miles or the vehicle has been on the road for 8-10 years



### Third Set of Tires

Typically installed on an 8 to 10-year-old vehicle, when the TPMS Sensors are nearing the end of their service life

**Change the TPMS sensors!**

# Impact on Vehicle Systems



Low air in a tire can lead to safety issues like the risk of hydroplaning, diminished brake performance, delayed steering response, and a chance of a blowout



Underinflated tires can cost a motorist more than \$200 more in fuel per year



A sensor relearn procedure should be performed on any vehicle with TPMS after every tire rotation or replacement

# What's New

TPMS sensors have now become common vehicle safety equipment. NAPA® Echlin® is committed to regularly introducing new TPMS Sensors to cover new applications.

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



**92-1429**  
Dodge / Jeep SUVs  
(2023-21)  
VIO: 889K



**92-1310**  
Alfa Romeo Cars & SUVs  
(2022-17)  
VIO: 93K



**92-1428**  
Acura / Honda Cars & SUVs  
(2023-21)  
VIO: 252K



# Top Movers: TPMS Sensors

**QWIK**  
**sensor**  
MULTI-FREQUENCY  
Programmable TPMS Sensors



**92-4006M**  
Multi-Frequency Universal  
Metal Valve Stem



**92-4006R**  
Multi-Frequency Universal  
Rubber Valve Stem



**92-1021RC**  
GM  
Cars, Trucks & SUVs  
(2020-04)



**92-1187C**  
Lexus / Toyota  
Cars, Trucks & SUVs  
(2017-03)



**92-1225RC**  
Chrysler, Dodge, Jeep, RAM  
Cars, Trucks, & SUVs  
(2021-10)



**92-1168C**  
Honda / Acura  
Cars & SUVs  
(2017-08)



**92-1227**  
Ford  
Cars, Trucks & SUVs  
(2022-15)

**NAPA** **ECHLIN**

OE-Match  
**TPMS**  
SENSORS

**QWIK**  
**sensor** UNIVERSAL  
Programmable TPMS Sensors

TPMS Sensors

NAPAEchlin.com

# Manufacturing

NAPA® Echlin® TPMS Sensors are designed and manufactured using the latest technology to meet OE performance in compliance with all SAE2657 specifications.

Every Sensor is precision engineered for application-specific operation and a long service life.



## Did You Know

Our facility produces more than a million Sensors annually, earning international and national certifications including U.S. FCC, European E-Mark, Canada IC, and Taiwan NCC while meeting FMVSS138, SAE J2657, ISO9001, and IATF 16949 quality standards.

# Testing and Validation

Each NAPA® Echlin® TPMS Sensor undergoes extensive testing to ensure performance and durability.

We subject our Sensors to SAEJ2657 certification standards including operational temperature, thermal shock, extreme temperature, humidity, frost, proof pressure, rapid deflation, contamination, salt fog, drop, centrifugal force vehicle speed, and mechanical vibration testing.

## Did You Know

Our results are validated by live 168-hour on-vehicle testing at independent labs.

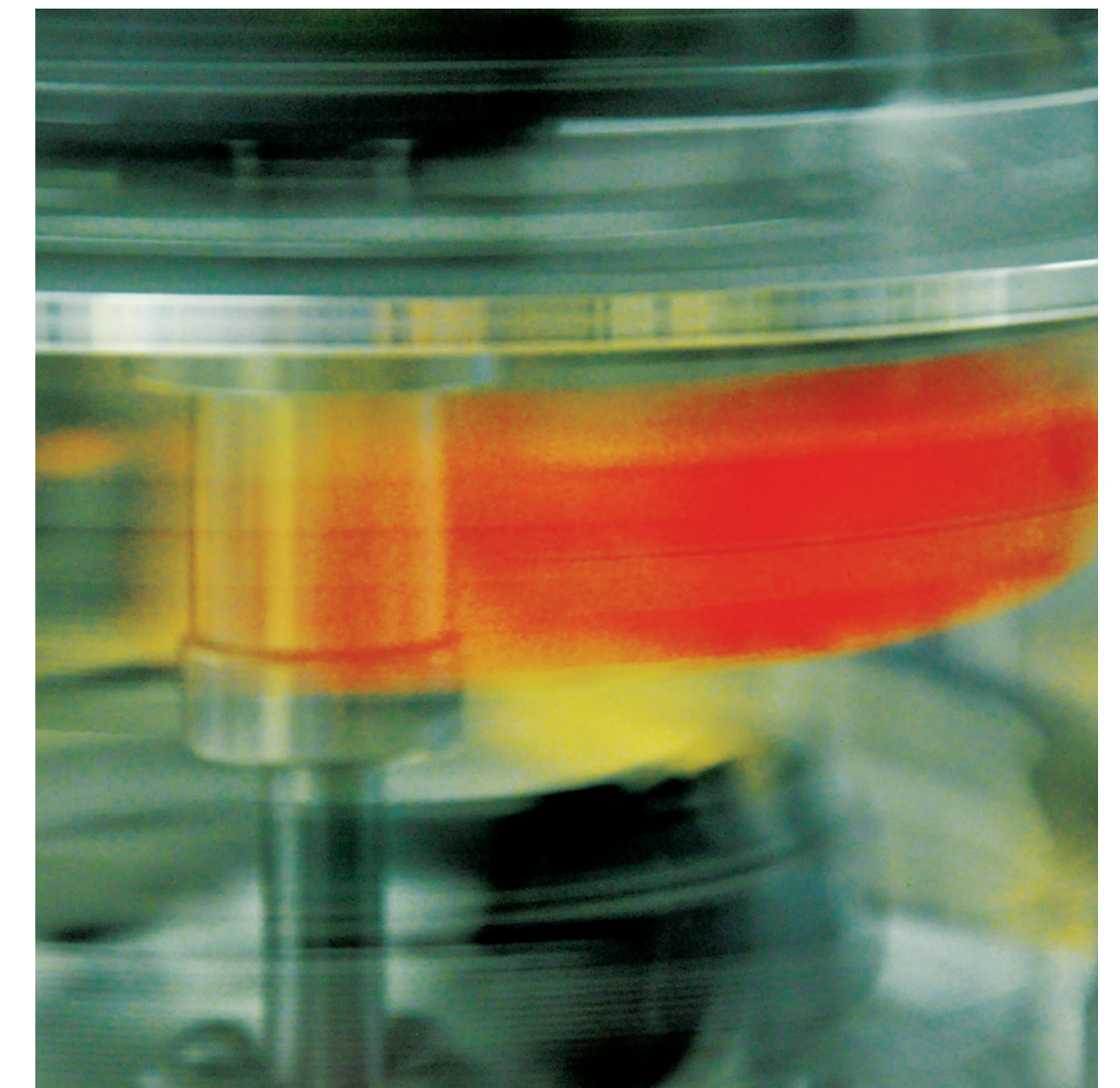
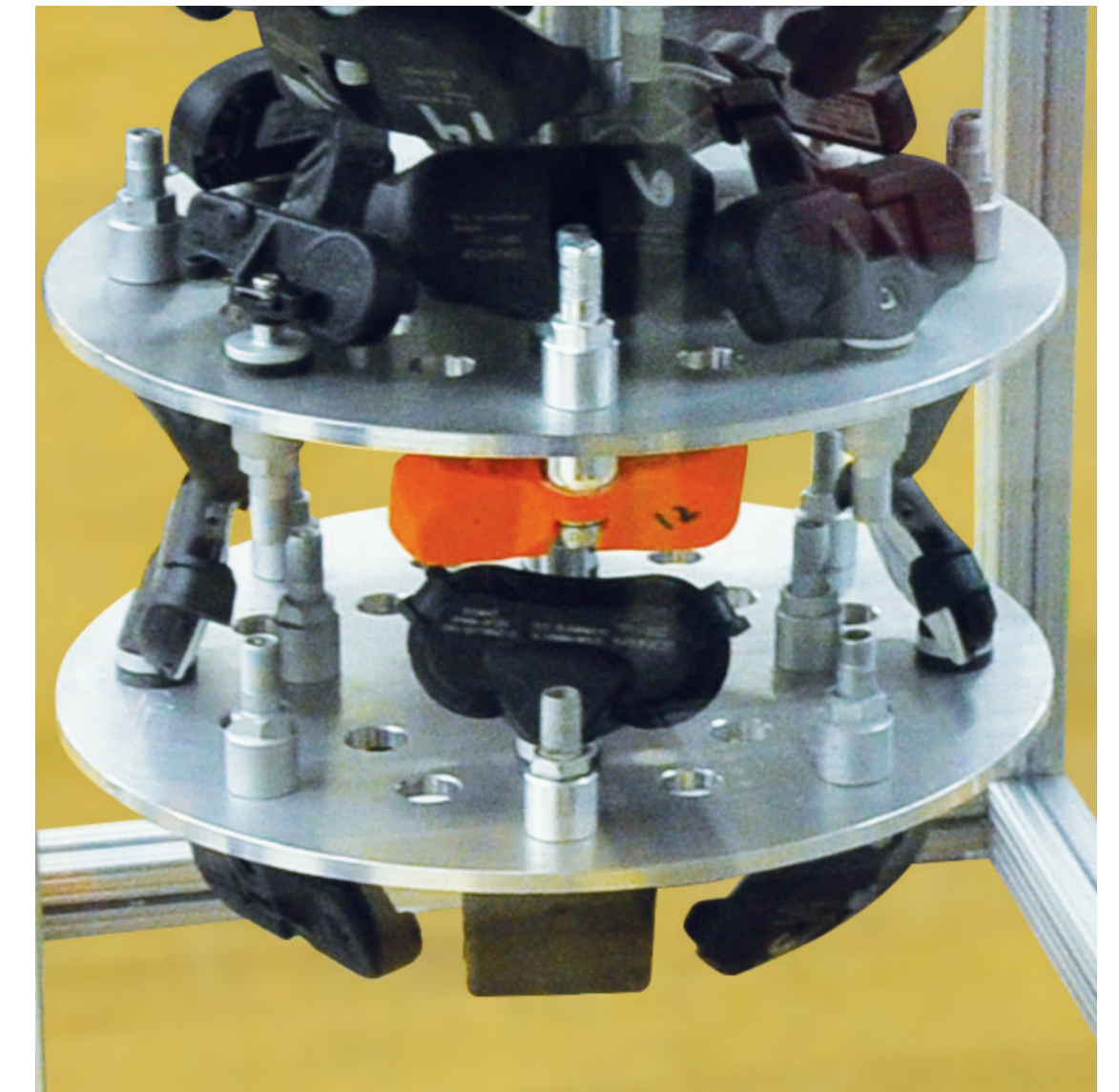
## NAPA® Echlin® TPMS Accelerated Life Test

During normal usage, TPMS sensors are only active for a few hours per day. To make sure our sensor batteries last, we subject them to an Accelerated Life Test.

First, we load the TPMS Sensors in the testing chamber.

Next, we run the test 24 hours a day, 7 days a week.

The result is a TPMS sensor battery that lasts, keeping this important safety feature running.





# NAPA® Echlin® Quality

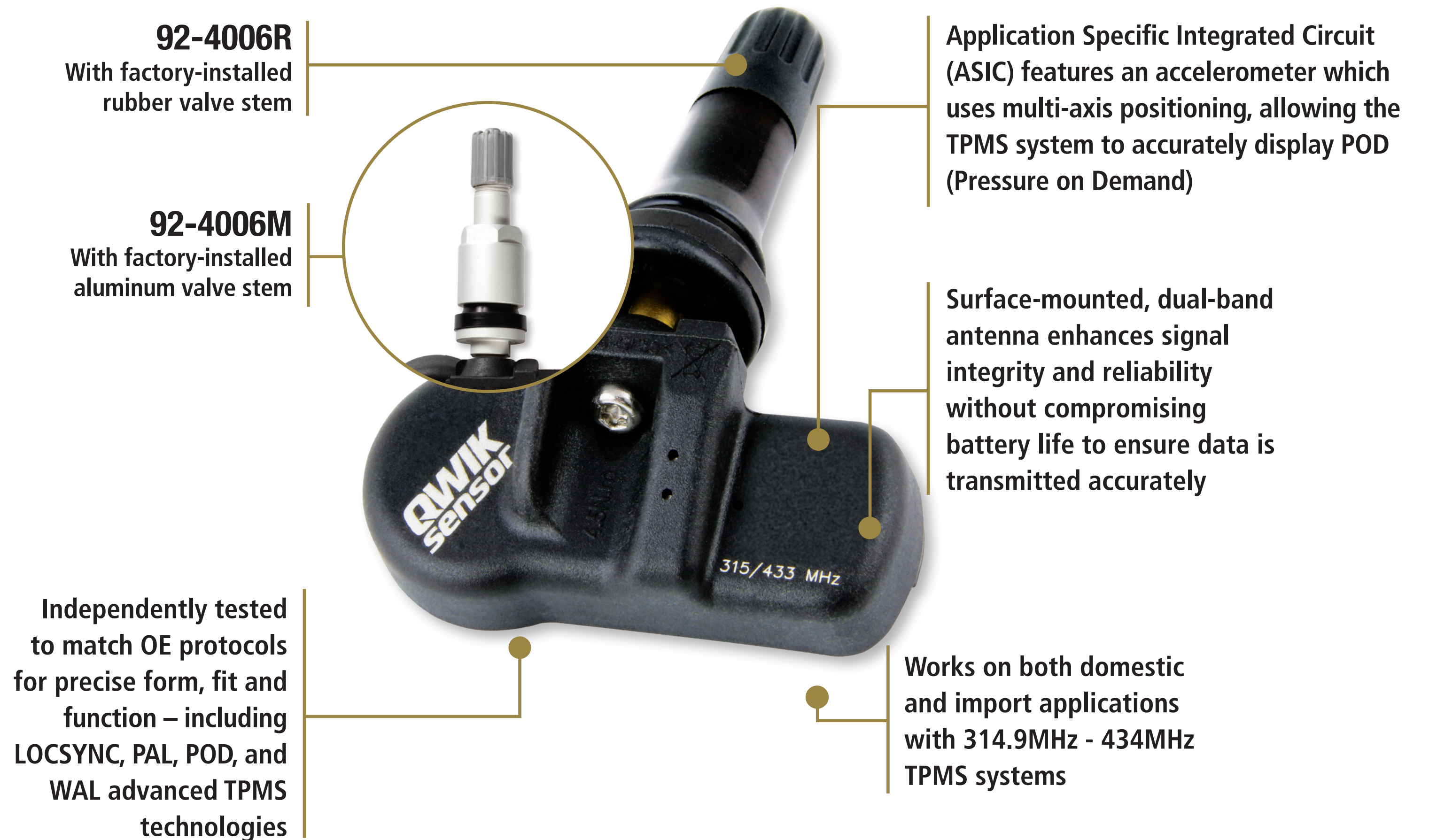
QWIK-SENSOR® Multi-Frequency TPMS Sensors combine all frequencies into a single sensor, eliminating duplication of inventory. Available with a factory-installed rubber or metal valve stem.

Faster programming times and longer battery life are enhancements engineered into the 92-4006R.

## Did You Know

The required sensor programming can be completed before or after installation, and while under pressure.

One Single Sensor is All You Need.



# NAPA® Echlin® Quality

With more than 250 SKUs, NAPA® Echlin® OE-Matching TPMS Sensors provide 99% coverage – the best in the industry.

Pre-programmed from the factory with exact vehicle-specific OE application software, NAPA® Echlin® TPMS Sensors can be directly installed.

OE-Match, Ready-to-Install Right Out of the Box.

Military-grade lithium battery ensures maximum battery life and sensor performance

Compatible with OE valve stem rebuild kits and works with all major OE and aftermarket TPMS tools

**92-1021RC**  
General Motors  
(2020-04)



Pre-programmed at the factory with exact OE protocol, so it's ready to install out of the box

Direct-fit replacement matches the original for fit, form, and function

Some manufacturers use ABS wheel speed sensors to detect tire inflation changes - so check out NAPA® Echlin's ABS Sensor program

## NAPA® ECHLIN® TPMS PROGRAM

# Service Tools

In addition to the industry's strongest blended TPMS program, NAPA® Echlin® offers the right tools to program and service today's TPMS systems.

### Did You Know

NAPA® Echlin® offers promotional TPMS Programming Tool Kit bundles that include our latest tools and advanced QWIK-SENSORS. Ask your NAPA® Echlin® representative for more information.



### 92-1557

Programs popular universal and multi-coverage sensors

Integrated VIN scanner ensures application accuracy

Built-in TPMS relearn procedures speed-up the repair process

Hi-res color touch screen displays all sensor info on one screen

Reads and displays TPMS Diagnostic Trouble Codes (DTC)



### 92-1548

Works with all NAPA® Echlin® OE-Match and QWIK-SENSOR® Multi-Frequency TPMS Sensors, as well as other popular universal and multi-coverage sensors

Comprehensive make, model, year-specific relearn procedures speed up repair process

Built-in OBD module for quick-connect cable and simple OBDII transfers – no additional accessories needed

# Live Sensor Feature

Live Sensor Technology enables the NAPA® Echlin® team to update software as needed. Updates can be rolled out the same day, in as little as a few hours.

For example, a tech needed to program a sensor for a 2021 Toyota CH-R. This application was originally missing from the tool, but after a short review, our team was able to add the coverage, and the technician was able to program the sensor that same day.

Initial Release

2 Weeks Later

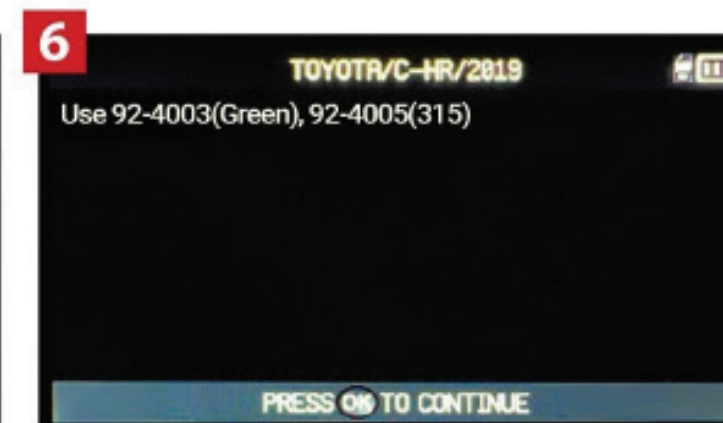
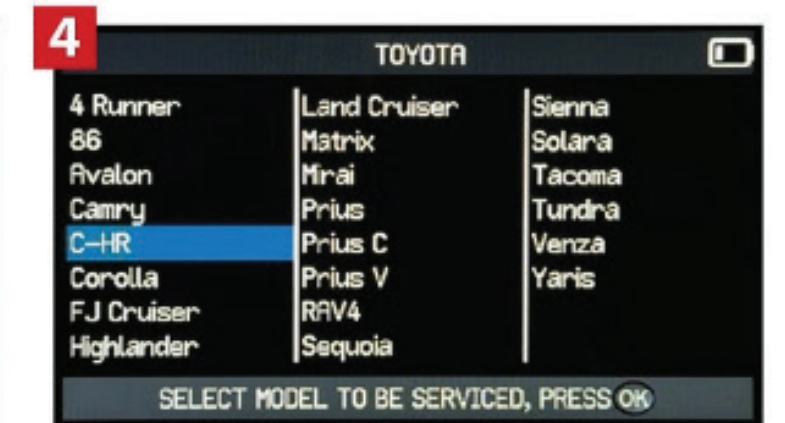
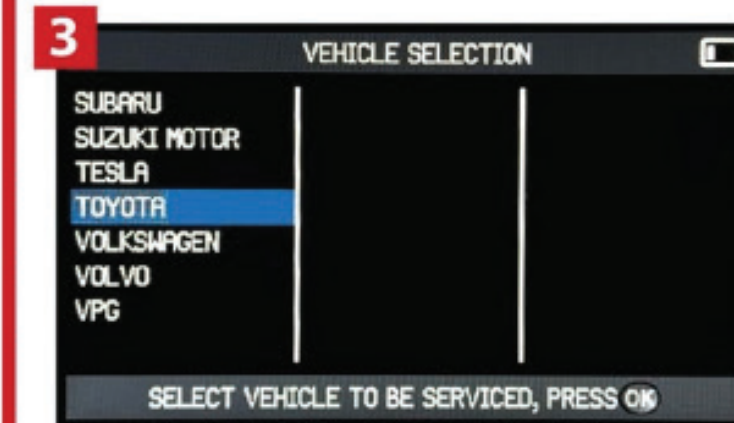
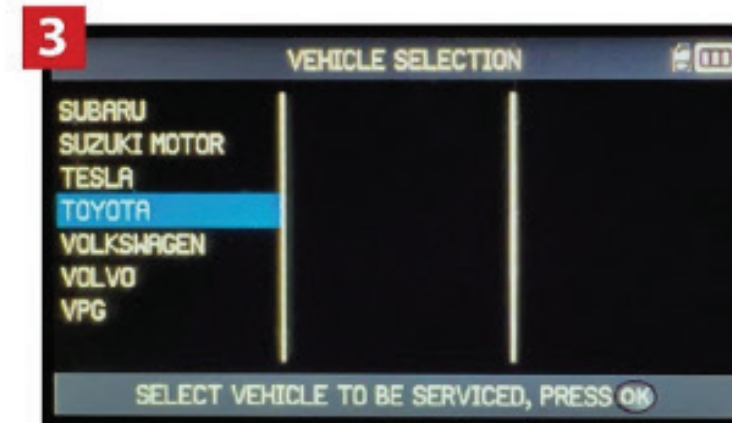
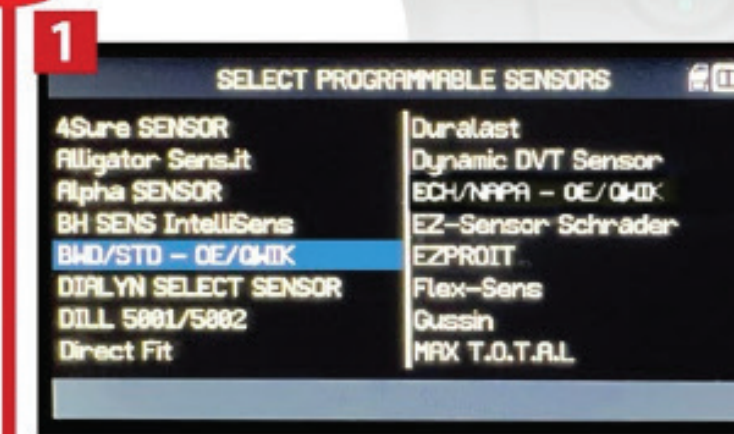
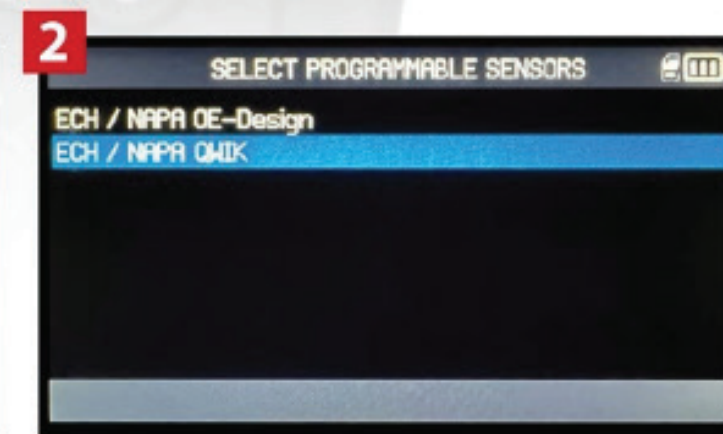
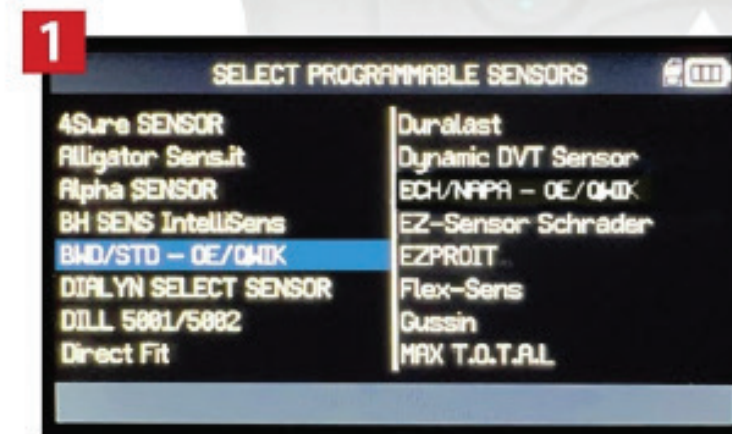


NOW WITH LIVE SENSOR DATABASE UPDATES

DATABASE VERSION:

: RA1-77-09

: RA1-77-11



# Related Parts

In addition to QWIK-SENSORS and our OE-Match Sensor line, NAPA® Echlin® also provides technicians with all necessary TPMS service items such as individual, application-specific service kits plus bulk packs of valve stems, cores, and more.

We also offer TPMS Service and Valve Kit Assortments, providing technicians with the most popular components for a complete repair solution.



## OE-Design TPMS Sensor Service Kits

Application-specific, these kits typically include a valve core, seal, washer, retaining nut, and cap

50+ SKUs available



## QWIK-SENSOR® TPMS Sensor Service Kits

Specifically designed for our multi-frequency Sensor, these kits include all necessary service components



## TPMS Valves

68 SKUs available for QWIK-SENSOR® and OE-Match Sensors

Bolt-on installation



## Tire Pressure Monitoring Valve Cores

Electroless nickel-plated construction

Sold in packs of 100



## Valve Caps

Available in black or grey

Sold in packs of 100



## TPMS Sensor Cradle

Bracket to mount TPMS Sensor on Ford / Lincoln / Mercury wheels up to 2011

# NAPA® Echlin® Pro Training Tech Tip

Every time a tire is removed from the wheel, the TPMS service parts such as valve stems, seals, nuts, washers, valve cores, and caps should be replaced, as these parts are all exposed to extreme weather, corrosion, and aging.

## NAPA® Echlin® Pro Training Tip

A relearn should also be done each time tires are reinstalled to ensure that the proper tire location is detected.

## TPMS Service Kits



**92-1401SK**  
Service Kit Assortment



**92-1402VK**  
Valve Kit Assortment



**92-9020**  
Tire Pressure Monitoring  
System Tool

## NAPA® Echlin® TPMS Service Kit Assortments and Tool Kits

TPMS Service Kit Assortments from NAPA® Echlin® include the most popular service and valve kits, including valve stem rebuild kits, nickel-plated valve cores, valve caps, and valve core torque tools. NAPA® Echlin® also offers TPMS Tool Kits like 92-9020 for an easy TPMS service.

# NAPA® Echlin® Professional Training

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

NAPA® Echlin® Pro 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 YouTube video library has  
over 500 technical and installation videos.



Available Classes

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TPMS Diagnosis and Learning

TPMS Fundamentals



Available Classes

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Body Control Electronics Diagnosis



For information on replacing TPMS and related components,  
search “TPMS” on the **NAPA® Echlin®** YouTube channel

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