EVERYTHING
You Need to Succeed
with TPMS

PRODUCTS
TRAINING
SUPPORT

Group 31 Incorporated
Makers of

www.tpmsnetwork.com  www.smartsensorupdate.com
Get the latest application information at www.31inc.com/tpms.pdf

Components are application specific, grommets are not interchangeable, design is based on OE wheel and sensor fitment.
### TECHNICAL APPLICATION DATA

<table>
<thead>
<tr>
<th>PART NO.</th>
<th>BOX QTY.</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>17-489</td>
<td>100</td>
<td>Green O-Ring Identification Ring for Nitrogen</td>
</tr>
<tr>
<td>17-490T</td>
<td>100</td>
<td>TPMS High Temp (Red) Valve Core, Nickel Plated</td>
</tr>
<tr>
<td>17-492-1</td>
<td>100</td>
<td>TR #VC-8, Black Plastic Valve Cap with RED Silicone Seal</td>
</tr>
<tr>
<td>17-490TY</td>
<td>100</td>
<td>TPMS High Temp Valve Core, Nickel Plated, YELLOW Seal</td>
</tr>
<tr>
<td>17-492G-1</td>
<td>100</td>
<td>Dark Green Plastic Valve Cap with Red Silicone Seal</td>
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<tr>
<td>17-492LG-1</td>
<td>100</td>
<td>Long Skirted Black Plastic Cap with Seal for 17-20008</td>
</tr>
<tr>
<td>17-492TL-1</td>
<td>100</td>
<td>Long Skirted Green Plastic Cap with Seal</td>
</tr>
<tr>
<td>17-493NP</td>
<td>100</td>
<td>Gray Plastic TPMS Valve Cap with Red Silicone Seal</td>
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<tr>
<td>17-493P</td>
<td>100</td>
<td>Chromed Plastic Hex Valve Cap with Green Top</td>
</tr>
<tr>
<td>17-494T</td>
<td>100</td>
<td>Chromed Plastic Sleeve for 17-20008</td>
</tr>
<tr>
<td>17-493NP</td>
<td>100</td>
<td>Chrome Plastic Sleeve and Cap</td>
</tr>
<tr>
<td>17-491T</td>
<td>100</td>
<td>Cradle with Clip for Mounting Band</td>
</tr>
<tr>
<td>17-490T</td>
<td>100</td>
<td>Replacement Clip for Mounting Band</td>
</tr>
<tr>
<td>17-492G-1</td>
<td>100</td>
<td>Mounting Band for Ford Sensors</td>
</tr>
<tr>
<td>17-492T-1</td>
<td>100</td>
<td>TPMS Sensor Service Tool</td>
</tr>
</tbody>
</table>

### technician tip

It’s Critical to Always Replace (NEVER REUSE) the Special Sealing Components (Core, Cap, Nut, Grommet)

- Rubber grommets are designed for a single use. Over time, they take a shape, and lose their ability to properly seal. They are no different than the rubber washer in your faucet at home. Over time they take a shape and start to leak.
- Special TPMS valve cores are designed for use with aluminum TPMS stems. These special cores are coated with an electroless nickel plating that prevent them from oxidizing to the aluminum TPMS stems. Never reuse a valve core, and never use a normal brass valve core with a TPMS sensor. Always replace the core with a new TPMS valve core.

**BEST PRACTICE:** Always remove the TPMS sensor when servicing the tire/wheel. Always replace the Special Sealing Components with a NEW REPLACEMENT PARTS KIT.

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**TECHNICAL APPLICATION DATA**

**iOS App**

**Android App**

**www.31inc.com/tpms.pdf**

**www.partfinder.31inc.com**
Types of Relearns

Vehicle TPMS systems are either Auto-Relearn, Stationary/Positional Relearn or OBDII Relearn. Regardless of the system, technicians still need an appropriate scan tool to check TPMS sensors and diagnose TPMS issues.

Torque Is Important!

- Torque specs are engineered for optimum sealing performance.
- Under torquing the TPMS nut and/or valve core can cause air leaks and potential valve failure.
- Over torquing the TPMS nut can cause the rubber grommet to fail or not seal as designed.
- Over torquing the TPMS nut can break the TPMS sensor.
- Over torquing the valve core can cause the core to become seized inside the valve stem.

**BEST PRACTICE:** Use the proper torque tools. Refer to the Application Chart for the appropriate torque specs.

**Torque Tools**

- **17-173** TPMS Valve Core Torque Tool
- **17-167A** T-10 Torque Tool for rubber TPMS snap-in valve stems
- **17-161A** ¼” Adjustable Torque Wrench and Sockets for TPMS nut installation

**Grommet Removal & Installation**

- **17-169** Grommet Slide
  - Durable construction and easy to use slide allows for simple grommet removal.
  - Hole allows for simple new grommet installation.
- **17-170** Grommet Pick
  - Aids in getting to tough to remove grommets.

**TPMS TOOLS**

- **17-142** ATEQ VT55 OBDII
  - Kit includes OBDII connector, USB, protective carrying pouch.
  - Universal TPMS activation and scan tool designed to be the only tool you need to test and relearn the TPMS system on domestic and import vehicles.
  - Test and diagnose all TPMS sensors.

- **17-168** TPMS Tool Assortment
  - Includes all the small TPMS tools necessary for TPMS service.
  - Comes in a high-quality blow molded storage case.

**TPMS Tool Assortment**

- **17-169** Grommet Slide
  - Durable construction and easy to use slide allows for simple grommet removal.
  - Hole allows for simple new grommet installation.
- **17-170** Grommet Pick
  - Aids in getting to tough to remove grommets.
### Domestic Vehicle Parts Kit Assortment

**17-21305 Kit**  
**Parts and Valves**

- **17-20006AK** GMC, Hummer, Isuzu  
- **17-20008** Rubber Snap-In TPMS valve  
- **17-20012AK** Prowler & Corvette  
- **17-20013AK** Chrysler, Dodge, Jeep  
- **17-20015AK** GM with TRW Clamp-In  
- **17-20028AK** Chrysler, Dodge, Mitsubishi  
- **17-20096AK** Ford  
- **17-20107AK** GM  
- **17-20198AK** Dodge Sprinter  
- **17-20201AK** Chrysler  
- **17-21305**  

- **GMC, Hummer, Isuzu**  
- **Rubber Snap-In TPMS valve**  
- **Prowler & Corvette**  
- **Chrysler, Dodge, Jeep**  
- **GM with TRW Clamp-In**  
- **Chrysler, Dodge, Mitsubishi**  
- **Ford**  
- **GM**  
- **Dodge Sprinter**  
- **Chrysler**  

![Part Number General Application Qty](image)

**17-21303 Kit**  
**Parts and Valves**

- **17-20008** Rubber Snap-In Valve GM  
- **17-20107AK** GM  
- **17-20096AK** Ford  
- **17-20018** Rubber Snap-In Valve Ford  
- **17-20013AK** Chrysler, Dodge, Jeep  
- **17-20028AK** Chrysler, Dodge, Mitsubishi  
- **17-20201AK** Chrysler  
- **17-20014AK** Nissan, Infiniti  
- **17-20204AK** Acura, Honda, Kia  
- **17-20206AK** Hyundai, Honda, Kia  
- **17-20211AK** Misc. Imports  
- **17-20216AK** Lexus, Toyota  
- **17-20217AK** Lexus, Toyota  
- **17-490T** Nickel Plated TPMS Valve Cores  
- **17-173** Valve Core Torque Tool  
- **17-492L-1** Long Black Plastic TPMS Caps  
- **17-492T-1** Gray Plastic TPMS Caps  

![Part Number General Application Qty](image)

**17-2107AK**

- **17-20008** Rubber Snap-In Valve GM  
- **17-20107AK** GM  
- **17-20096AK** Ford  
- **17-20018** Rubber Snap-In Valve Ford  
- **17-20013AK** Chrysler, Dodge, Jeep  
- **17-20028AK** Chrysler, Dodge, Mitsubishi  
- **17-20201AK** Chrysler  
- **17-20014AK** Nissan, Infiniti  
- **17-20204AK** Acura, Honda, Kia  
- **17-20206AK** Hyundai, Honda, Kia  
- **17-20211AK** Misc. Imports  
- **17-20216AK** Lexus, Toyota  
- **17-20217AK** Lexus, Toyota

### Import Vehicle Parts Kit Assortment

Includes all of the necessary component parts to service most TPMS sensors for:

- Acura
- Audi
- BMW
- Honda
- Hyundai
- Infiniti
- Kia
- Lexus
- Mercedes
- Nissan
- Saab
- Subaru
- Suzuki
- Toyota
- Volkswagen
- Other Miscellaneous Imports

**17-21306 Assortment**

- **165 Replacement Parts Kits**
- **Application Chart**

### Top 10 Vehicle Parts Kit Assortment

**17-21303 Assortment Includes:**

- 104 Service Kits for the Most Popular Domestic and Import Vehicle TPMS Sensors
- 100 TPMS Valve Cores
- 180 TPMS Plastic Valve Caps
- TPMS Valve Core Torque Tool

![Part Number General Application Qty](image)

**19-130 TPMS Counter Top Display**

- The perfect sales tool for promoting TPMS service.
- Multiple visuals displaying the complexity of a TPMS sensor.
- Information to help educate the vehicle owner.
- Displays both snap-in and clamp-in style sensors.
- Exposed electronic components aid in technical aspect of selling TPMS service.

### Import Vehicle Replacement Parts Kits

<table>
<thead>
<tr>
<th>Part Number</th>
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<tbody>
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<td>17-20005AK</td>
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<td>17-20007AK</td>
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<td>17-20009AK</td>
<td>Saab, Suzuki</td>
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<td>17-20010AK</td>
<td>Volvo</td>
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<td>17-20011AK</td>
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<td>17-20035AK</td>
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<td>17-20022AK</td>
<td>Audi, Mercedes, Volkswagen</td>
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<td>17-20023AK</td>
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<td>17-20027AK</td>
<td>Volkswagen</td>
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</tr>
<tr>
<td>17-20211AK</td>
<td>Misc. Imports</td>
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</tr>
<tr>
<td>17-20216AK</td>
<td>Lexus, Toyota</td>
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<td>17-20217AK</td>
<td>Lexus, Toyota</td>
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</tr>
<tr>
<td>17-20221AK</td>
<td>Lexus SC430</td>
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</tr>
</tbody>
</table>
APPLICATION COVERAGE INCLUDES

95% GM, Ford, and Chrysler

85% Imports (Honda, Toyota, Nissan, BMW, Mercedes, VW and many others)

The Smart TPMS Solution

Only 2 sensors to service 90% of vehicle applications!

OBDII Module Now Available – Relearn Asian Vehicles!

Lifetime FREE Updates!

- Snap-in and Clamp-in Sensors available.
- Pro+ Tool is also an Activation/Wake-up Tool.
- Ease to learn and use.
- Program or Copy a sensor, using the Pro+ Tool, in just seconds.
- Smart Sensors can be triggered by the other TPMS tools.

Smart Sensor ATEQ Programming Cradle

- NOW Program Smart Sensors with the ATEQ VT55 and VT56 using the Smart Sensor ATEQ Programming Cradle.

 PART NUMBER | DESCRIPTION
--- | ---
17-144 | Pro+ Programming/Scan Tool
17-144-2 | OBDII Module for Smart Sensor Pro+
17-144-3 | Smart Sensor ATEQ Programming Cradle
17-43001 | Smart Sensor 1 – Programming Tool
4 | 315MHz Sensors
Kit 4 | 433.92MHz Sensors
17-43002 | Smart Sensor 1 – Programming Tool
22 | 315MHz Sensors
Kit 8 | 433.92MHz Sensors
17-43013 | 315MHz Smart Sensor (Green)
17-43014 | 433MHz Smart Sensor (Brown)
17-43011 | 315MHz Smart Sensor Snap-In (Green)
17-43012 | 433MHz Smart Sensor Snap-In (Brown)
17-43016 | Replacement Snap-In Valve for 17-43011/17-43012
17-43017 | Gloss Black Replacement Valve for 17-43013/14
17-43018 | Matte Black Replacement Valve for 17-43013/14
17-43019 | Aluminum Replacement Valve for 17-43013/14
17-43020 | Polished Chrome Replacement Valve for 17-43013/14

Makes TPMS as Simple as...
19-130
TPMS CounterTop Display

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Servicing TPMS Sensors

If the valve cap is not easily removed, then the sensor may be corroded. If corrosion is visible, or the hex nut shows unusual resistance, the sensor may need to be replaced.

BEST PRACTICE: Always inspect and use care in handling TPMS sensors and components.
Mobile Part Lookup

[QR Code for Apple]

[QR Code for Android]