



# TPMS

*Tire Pressure Monitoring Systems*

**TPMS APPLICATION &  
COMPLETE CROSS REFERENCE**



**OE Replacement Sensors**



**Superior Quality Low Cost Sensors**

**100% Compatible OE Sensors!**



# Tire Pressure Monitoring System

## ⚠️ OE Replacement Sensors

### Specifications of Orange TPMS Replacement Sensor

|                              |  |
|------------------------------|--|
| Battery life                 | 7 years under normal conditions.                       |
| Storage temperature          | -40°C ~ 125°C  |
| Operating temperature        | -30°C ~ 105°C  |
| Operating humidity           | Max 95%  |
| Operating frequency          | 315 / 433.92 MHz                                       |
| Pressure monitoring range    | 0kPa ~ 535kPa or 0Bar ~ 5.35Bar or 0psi ~ 77psi        |
| Pressure reading accuracy    | ±10kPa or ±0.1Bar or ±1 psi (at normal pressure)       |
| Temperature reading accuracy | ± 4°C in normal environmental condition.               |
| Transmitting power           | Max 5dBm   |
| Power supply                 | 3.6V Lithium battery                                   |
| Modulation                   | ASK / FSK  |
| Sensor sample rate           | Same as OE Sensor                                      |
| Sample data transfer         | Same as OE Sensor                                      |
| Sensor Weight                | 35g (With Valve)                                       |
| Valve                        | 6061 Aircraft grade aluminum with Stainless Steel Core |

### Features of Orange TPMS Replacement Sensor

|   |                  |   |
|---|------------------|---|
| 1 | Real Time Data   | Continuous monitoring detects pressure and temperature every 3 seconds and transmits the tire data every 30 seconds 24 hours a day.   |
| 2 | Battery Life     | Lithium battery is a military grade battery with a 7 year life (under normal conditions). This qualifies for the car manufacturer's requirement of 040 ~ 125C.                          |
| 3 | 100% Compatible  | We GUARANTEE compatibility with OE Sensor.  |
| 4 | Changeable Valve | The 2-piece design allows you to replace the valve ONLY! If the valve breaks or needs replacement, the costly sensor remains in the tire for long term use, therefore saving you money! |



Industry Canada



#### Orange Electronic North America

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# Orange Programmable Sensor System - OPSS



**Program the Sensor  
Not the Vehicle**

.....

**Streamline Your  
TPMS Installation**

**Eliminates:**

- OBD Tool Activation
- Vehicle Relearning
- TPMS Retriggering Mode





# Orange Programmable Sensor System - OPSS

Designed Specifically for Vehicles that require OBD Activation.

## Keep the TPMS Revenue In Your Shop!

Today's Asian vehicles such as *Nissan, Toyota, Lexus & Honda* require expensive OBD tools to activate newly installed TPMS sensors. Until now this process required you to either purchase a costly OBD tool or alternatively send the customer back to the auto dealer and risk losing the potential TPMS revenues.

## Benefits of the Orange Programmable Sensor System-OPSS

1. **Eliminate the Vehicle Relearn Mode** - The Orange System will duplicate the original OE sensors ID number. The vehicle ECU will recognize the OPSS Orange programmed sensor (OPSS) as the original OE sensor.
2. **Eliminate the TPMS Re-Trigger Process** - The newly programmed Orange sensor will have the identical ID as OE sensor therefore no equipment is required for TPMS trigger process.
3. **Eliminate Need for Expensive OBD Tool** - Given that the Sensor ID is identical to OE sensors there is no need for Vehicle TPMS retraining.
4. **Save Money** - OBD tools average about \$1,500. Eliminate the need to stock your stores with expensive hardware.
5. **Save Time** - Time in Money, by reprogramming the sensor with OPSS it eliminates the need for your mechanic to activate the sensor via the time consuming OBD process.
6. **Increase Your Profits** - The OPSS will not only save you time, it will increase your profits by keeping the TPMS customers in your shop..

## Six Easy Steps



Turn on ID Programmer

Find out OE sensor ID #

Input OE sensor ID #

Press "TX" key

ID-Writing processing

Wait for "OK"



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# Orange TPMS Sensor Application



| Brand | Model | Year      | OE Sensor     | Sensor   | OPSS* | Schrader | Dill | OE Supplier |
|-------|-------|-----------|---------------|----------|-------|----------|------|-------------|
| Acura | CSX   | 2008-2009 | 42753-SNA-A83 | HOSNAA83 | ✓     | -        | 1212 | TRW         |
|       | MDX   | 2004-2006 | 06421-S3V-A04 | HOS3VA07 | ✓     | 28981    | 1057 | TRW         |
|       | MDX   | 2007-2010 | 42753-STK-A03 | HOSTKA03 | ✓     | -        | 1209 | Pacific     |
|       | RDX   | 2007-2010 | 42753-STK-A03 | HOSTKA03 | ✓     | -        | 1209 | Pacific     |
|       | RL    | 2005-2008 | 06421-S3V-A04 | HOS3VA07 | ✓     | 28981    | 1057 | TRW         |
|       | RL    | 2009-2010 | 42753-SHJ-A53 | HOSHJA53 | ✓     | -        | 1211 | TRW         |
|       | TL    | 2006-2008 | 06421-S3V-A04 | HOS3VA07 | ✓     | 28981    | 1057 | TRW         |
|       | TSX   | 2007-2008 | 42753-STK-A03 | HOSTKA03 | ✓     | -        | 1209 | Pacific     |

|      |             |           |            |        |  |   |      |             |
|------|-------------|-----------|------------|--------|--|---|------|-------------|
| Audi | A3(315Mhz)  | 2006-2010 | 1K0907253D | SI253D |  | - | 1053 | Siemens     |
|      | A4 (315Mhz) | 2009-2010 | 1K0907253D | SI253D |  | - | 1053 | Continental |
|      | A5(315Mhz)  | 2008-2010 | 1K0907253D | SI253D |  | - | 1053 | Siemens     |
|      | Q5(315Mhz)  | 2009-2010 | 1K0907253D | SI253D |  | - | 1053 | Continental |
|      | S5(315Mhz)  | 2008-2010 | 1K0907253D | SI253D |  | - | 1053 | Siemens     |
|      | TT(315Mhz)  | 2007-2010 | 1K0907253D | SI253D |  | - | 1053 | Siemens     |

|       |          |           |          |        |  |       |      |          |
|-------|----------|-----------|----------|--------|--|-------|------|----------|
| Buick | Allure   | 2007-2008 | 15921013 | SI1013 |  | 20158 | 1047 | Siemens  |
|       | Allure   | 2009      | 25920615 | SC4101 |  | 20153 | 9153 | Schrader |
|       | Enclave  | 2008      | 15921013 | SI1013 |  | 20158 | 1047 | Siemens  |
|       | Enclave  | 2009-2010 | 25920615 | SC4101 |  | 20153 | 9153 | Schrader |
|       | LaCrosse | 2007-2008 | 15921013 | SI1013 |  | 20158 | 1047 | Siemens  |
|       | LaCrosse | 2009-2010 | 25920615 | SC4101 |  | 20153 | 9153 | Schrader |
|       | Lucerne  | 2007      | 25799331 | SC4101 |  | 20153 | 9153 | Schrader |
|       | Lucerne  | 2008-2010 | 25920615 | SC4101 |  | 20153 | 9153 | Schrader |
|       | Ranier   | 2006-2007 | 25774006 | SC4006 |  | 20116 | 9116 | Schrader |
|       | Ranier   | 2007      | 25799331 | SC4101 |  | 20153 | 9153 | Schrader |

|          |          |           |          |        |  |       |      |          |
|----------|----------|-----------|----------|--------|--|-------|------|----------|
| Cadillac | CTS      | 2004-2007 | 25774006 | SC4006 |  | 20116 | 9116 | Schrader |
|          | CTS      | 2008-2010 | 25920615 | SC4101 |  | 20153 | 9153 | Schrader |
|          | Deville  | 2001-2005 | 25773946 | SC3946 |  | 20117 | 9117 | Schrader |
|          | DTS      | 2006      | 15268606 | SC8606 |  | 20158 | 1047 | Schrader |
|          | DTS      | 2007-2010 | 25920615 | SC4101 |  | 20153 | 9153 | Schrader |
|          | Escalade | 2004      | 15136883 | SC2575 |  | 20115 | 9115 | Schrader |

\*Orange Programmable Sensor

| Brand    | Model    | Year      | OE Sensor | Sensor | OPSS* | Schrader | Dill | OE Supplier |
|----------|----------|-----------|-----------|--------|-------|----------|------|-------------|
| Cadillac | Escalade | 2005-2006 | 15114379  | SC4379 |       | 20107    | 9107 | Schrader    |
|          | Escalade | 2007-2010 | 25920615  | SC4101 |       | 20153    | 9153 | Schrader    |
|          | Seville  | 2001-2004 | 25773946  | SC3946 |       | 20117    | 9117 | Schrader    |
|          | SRX      | 2004-2006 | 25774006  | SC4006 |       | 20116    | 9116 | Schrader    |
|          | SRX      | 2007-2009 | 25920615  | SC4101 |       | 20153    | 9153 | Schrader    |
|          | STS      | 2005-2008 | 25758220  | SC8220 |       | 20076    | 9076 | Schrader    |
|          | STS      | 2009      | 15268606  | SC8606 |       | 20158    | 1047 | Schrader    |
|          | STS      | 2010      | 25920615  | SC4101 |       | 20153    | 9153 | Schrader    |
|          | XLR      | 2004-2009 | 25758220  | SC8220 |       | 20076    | 9076 | Schrader    |

|           |                    |           |          |        |  |       |      |          |
|-----------|--------------------|-----------|----------|--------|--|-------|------|----------|
| Chevrolet | Avalanche          | 2004      | 15136883 | SC2575 |  | 20115 | 9115 | Schrader |
|           | Avalanche          | 2005-2006 | 15114379 | SC4379 |  | 20107 | 9107 | Schrader |
|           | Avalanche          | 2007-2010 | 25920615 | SC4101 |  | 20153 | 9153 | Schrader |
|           | Aveo               | 2007-2010 | 25920615 | SC4101 |  | 20153 | 9153 | Schrader |
|           | Camaro             | 2010      | 12768826 | SC4101 |  | 20153 | 9153 | Schrader |
|           | Cobalt             | 2008-2009 | 15921013 | SI1013 |  | 20158 | 1047 | Siemens  |
|           | Cobalt             | 2009      | 25920615 | SC4101 |  | 20153 | 9153 | Schrader |
|           | Colorado           | 2007-2010 | 15122618 | SC2618 |  | 20131 | 9131 | Schrader |
|           | Corvette           | 2001-2004 | 25773946 | SC3946 |  | 20117 | 9117 | Schrader |
|           | Corvette           | 2005-2009 | 25758220 | SC8220 |  | 20076 | 9076 | Schrader |
|           | Corvette           | 2010      | 15268606 | SC8606 |  | 20158 | 1047 | Schrader |
|           | Equinox            | 2007-2009 | 15921013 | SI1013 |  | 20158 | 1047 | Siemens  |
|           | Equinox            | 2010      | 12768826 | SC4101 |  | 20153 | 9153 | Schrader |
|           | Express Series Van | 2008-2009 | 15921013 | SI1013 |  | 20158 | 1047 | Siemens  |
|           | Express Series Van | 2010      | 25920615 | SC4101 |  | 20153 | 9153 | Schrader |
|           | HHR                | 2008-2009 | 15921013 | SI1013 |  | 20158 | 1047 | Siemens  |
|           | HHR                | 2009      | 25920615 | SC4101 |  | 20153 | 9153 | Schrader |
|           | Impala             | 2006-2007 | 15268606 | SC8606 |  | 20158 | 1047 | Schrader |
|           | Impala             | 2007-2010 | 25920615 | SC4101 |  | 20153 | 9153 | Schrader |
|           | Malibu             | 2008      | 15921013 | SI1013 |  | 20158 | 1047 | Siemens  |
|           | Malibu             | 2008-2009 | 25920615 | SC4101 |  | 20153 | 9153 | Schrader |
|           | Monte Carlo        | 2006-2007 | 15268606 | SC8606 |  | 20158 | 1047 | Schrader |
|           | Monte Carlo        | 2007      | 25799331 | SC4101 |  | 20153 | 9153 | Schrader |
|           | Silverado          | 2004      | 15136883 | SC2575 |  | 20115 | 9115 | Schrader |
|           | Silverado          | 2005-2006 | 15114379 | SC4379 |  | 20107 | 9107 | Schrader |
|           | Silverado          | 2007-2010 | 25920615 | SC4101 |  | 20153 | 9153 | Schrader |
|           | SSR                | 2006-2007 | 25774006 | SC4006 |  | 20116 | 9116 | Schrader |
|           | Suburban           | 2004      | 15136883 | SC2575 |  | 20115 | 9115 | Schrader |
|           | Suburban           | 2005-2006 | 15114379 | SC4379 |  | 20107 | 9107 | Schrader |
|           | Suburban           | 2007-2010 | 25920615 | SC4101 |  | 20153 | 9153 | Schrader |
|           | Tahoe              | 2004      | 15136883 | SC2575 |  | 20115 | 9115 | Schrader |

\*Orange Programmable Sensor

| Brand     | Model       | Year      | OE Sensor | Sensor | OPSS* | Schrader | Dill | OE Supplier |
|-----------|-------------|-----------|-----------|--------|-------|----------|------|-------------|
| Chevrolet | Tahoe       | 2005-2006 | 15114379  | SC4379 |       | 20107    | 9107 | Schrader    |
|           | Tahoe       | 2007-2010 | 25920615  | SC4101 |       | 20153    | 9153 | Schrader    |
|           | Trailblazer | 2006-2009 | 25774006  | SC4006 |       | 20116    | 9116 | Schrader    |
|           | Traverse    | 2009-2010 | 25920615  | SC4101 |       | 20153    | 9153 | Schrader    |
|           | Uplander    | 2008-2009 | 15268606  | SC8606 |       | 20158    | 1047 | Schrader    |
|           | Volt        | 2010      | 12768826  | SC4101 |       | 20153    | 9153 | Schrader    |

|                |                   |            |            |        |       |       |          |          |
|----------------|-------------------|------------|------------|--------|-------|-------|----------|----------|
| Chrysler       | 300               | 2005-2007  | 68111696AA | SC36AA |       | 20066 | 1051     | Siemens  |
|                | 300               | 2008       | 68001698AA | SI1698 |       | 28155 | 1043     | Siemens  |
|                | 300               | 2009       | 56029400AC | SC9400 |       | 28291 | 9214     | Schrader |
|                | 300M              | 2002-2004  | 52088990AC | SC90AC |       | 20028 | 9028     | Schrader |
|                | Aspen             | 2007-2009  | 56053030AB | SC36AA |       | 20066 | 1051     | Schrader |
|                | Challenger        | 2009-2010  | 56029400AC | SC9400 |       | 28291 | 9214     | Schrader |
|                | Charger           | 2009       | 56029400AC | SC9400 |       | 28291 | 9214     | Schrader |
|                | Concorde          | 2002-2004  | 52088990AC | SC90AC |       | 20028 | 9028     | Schrader |
|                | Crossfire         | 2004       | 52088990AC | SC90AC |       | 20028 | 9028     | Schrader |
|                | Crossfire         | 2005-2008  | 56053030AB | SC36AA |       | 20066 | 1051     | Schrader |
|                | Crossfire         | 2006-2008  | 52088990AC | SC90AC |       | 20028 | 9028     | Schrader |
|                | Magnum            | 2009       | 56029400AB | SC9400 |       | 28291 | 9214     | Schrader |
|                | Pacifica          | 2004       | 52088990AC | SC90AC |       | 20028 | 9028     | Schrader |
|                | Pacifica          | 2004-2005  | 04727392AB | SI35AD |       | 20335 | 1052     | Siemens  |
|                | Pacifica          | 2006-2008  | 68001696AA | SC36AA |       | 20066 | 1051     | Siemens  |
|                | Prowler           | 2002       | 52088990AC | SC90AC |       | 20028 | 9028     | Schrader |
|                | PT Cruiser        | 2008-2010  | 68001696AA | SC36AA |       | 20066 | 1051     | Siemens  |
|                | Sebring(315MHz)   | 2007-2010  | 68001696AA | SC36AA |       | 20066 | 1051     | Siemens  |
|                | Sebring (433 MHz) | 2008-2009  | 68001698AA | SI1698 |       | 28155 | 1043     | Siemens  |
|                | Town & Country    | 2002-2003  | 52088990AC | SC90AC |       | 20028 | 9028     | Schrader |
| Town & Country | 2004-2005         | 04727392AB | SI35AD     |        | 20335 | 1052  | Siemens  |          |
| Town & Country | 2006-2007         | 56053030AB | SC36AA     |        | 20066 | 1051  | Siemens  |          |
| Town & Country | 2008-2010         | 68001698AA | SI1698     |        | 28155 | 1043  | Siemens  |          |
| Voyager        | 2002-2003         | 52088990AC | SC90AC     |        | 20028 | 9028  | Schrader |          |

|       |            |           |            |        |  |       |      |          |
|-------|------------|-----------|------------|--------|--|-------|------|----------|
| Dodge | Avenger    | 2008-2010 | 68001696AA | SC36AA |  | 20066 | 1051 | Siemens  |
|       | Caliber    | 2007-2010 | 68001696AA | SC36AA |  | 20066 | 1051 | Siemens  |
|       | Caravan    | 2002-2003 | 52088990AC | SC90AC |  | 20028 | 9028 | Schrader |
|       | Caravan    | 2004-2005 | 04727392AB | SI35AD |  | 20335 | 1052 | Siemens  |
|       | Caravan    | 2006-2007 | 56053030AB | SC36AA |  | 20066 | 1051 | Siemens  |
|       | Challenger | 2008      | 68001698AA | SI1698 |  | 28155 | 1043 | Siemens  |
|       | Challenger | 2009-2010 | 56029400AC | SC9400 |  | 28291 | 9214 | Schrader |
|       | Charger    | 2006      | 56053030AB | SC36AA |  | 20066 | 1051 | Siemens  |
|       | Charger    | 2007      | 68001696AA | SC36AA |  | 20066 | 1051 | Siemens  |

\*Orange Programmable Sensor

| Brand | Model         | Year      | OE Sensor  | Sensor | OPSS* | Schrader | Dill | OE Supplier |
|-------|---------------|-----------|------------|--------|-------|----------|------|-------------|
| Dodge | Charger       | 2008      | 68001698AA | SI1698 |       | 28155    | 1043 | Siemens     |
|       | Charger       | 2009      | 56029400AC | SC9400 |       | 28291    | 9214 | Schrader    |
|       | Durango       | 2007-2008 | 56053030AB | SC36AA |       | 20066    | 1051 | Schrader    |
|       | Durango       | 2009      | 56029465AB | SC36AA |       | 20066    | 1051 | Schrader    |
|       | Grand Caravan | 2002-2003 | 52088990AC | SC90AC |       | 20028    | 9028 | Schrader    |
|       | Grand Caravan | 2004-2005 | 04727392AB | SI35AD |       | 20335    | 1052 | Siemens     |
|       | Grand Caravan | 2006-2007 | 56053030AB | SC36AA |       | 20066    | 1051 | Siemens     |
|       | Grand Caravan | 2008-2010 | 68001698AA | SI1698 |       | 28155    | 1043 | Siemens     |
|       | Intrepid      | 2002-2004 | 52088990AC | SC90AC |       | 20028    | 9028 | Schrader    |
|       | Journey       | 2009-2010 | 68001698AA | SI1698 |       | 28155    | 1043 | Siemens     |
|       | Magnum        | 2005-2006 | 56053030AB | SC36AA |       | 20066    | 1051 | Siemens     |
|       | Magnum        | 2007      | 68001696AA | SC36AA |       | 20066    | 1051 | Siemens     |
|       | Magnum        | 2008      | 68001698AA | SI1698 |       | 28155    | 1043 | Siemens     |
|       | Magnum        | 2009      | 56029400AC | SC9400 |       | 28291    | 9214 | Schrader    |
|       | Nitro         | 2007-2010 | 56029465AB | SC36AA |       | 20066    | 1051 | Schrader    |
|       | Sprinter      | 2007-2009 | 68038945AA | SI8945 |       | -        | 1042 | Siemens     |
|       | Stratus       | 2007      | 56053030AB | SC36AA |       | 20066    | 1051 | Siemens     |
|       | Viper         | 2003-2009 | 52088990AC | SC90AC |       | 20028    | 9028 | Schrader    |

|      |                                   |           |   |        |  |       |         |           |
|------|-----------------------------------|-----------|---|--------|--|-------|---------|-----------|
| Ford | Crown Victoria                    | 2006-2010 | 6F2Z1A189A<br>7L1Z1A189A  | LE6L2T |  | 28385 | 1048    | Ford/Lear |
|      | E Series Van                      | 2007-2010 | 8C2T1A150BA<br>8C2Z1A189A   | LE8C2T |  | 28395 | 1048-HP | Ford/Lear |
|      | E Series Van                      | 2010      | 9L3Z-1A189-A  | SC9L2T |  | 20315 | 9315    | Schrader  |
|      | Edge                              | 2007-2010 | 6F2Z1A189A<br>7L1Z1A189A  | LE6L2T |  | 28385 | 1048    | Ford/Lear |
|      | Escape                            | 2006-2008 | 6F2Z1A189A<br>6L2T1A150AA<br>6F2A1A176AE<br>6F2T1A150AE<br>7L1Z1A189A | LE6L2T |  | 28385 | 1048    | Ford/Lear |
|      | Escape                            | 2009-2010 | 9L3Z-1A189-A  | SC9L2T |  | 20315 | 9315    | Schrader  |
|      | Expedition                        | 2003-2004 | 4L2T1A150BA   | SC50BA |  | 20096 | 9096    | Schrader  |
|      | Expedition                        | 2005-2006 | 5L7T1A150AB   | SC50AA |  | 20135 | 9135    | Schrader  |
|      | Expedition                        | 2007-2010 | 6F2Z1A189A<br>7L1Z1A189A  | LE6L2T |  | 28385 | 1048    | Ford/Lear |
|      | Explorer                          | 2002-2005 | 4L2T1A150BA   | SC50BA |  | 20096 | 9096    | Schrader  |
|      | Explorer                          | 2006-2010 | 6F2Z1A189A<br>6L2T1A150AA<br>6F2A1A176AE<br>6F2T1A150AE<br>7L1Z1A189A | LE6L2T |  | 28385 | 1048    | Ford/Lear |
|      | F Series (Super Duty) (F250/F350) | 2007-2010 | 8C2T1A150BA<br>8C2Z1A189A   | LE8C2T |  | 28395 | 1048-HP | Ford/Lear |
|      | F Series                          | 2009-2010 | 9L3Z-1A189-A  | SC9L2T |  | 20315 | 9315    | Schrader  |
|      | F150                              | 2007-2008 | 6F2Z1A189A  | LE6L2T |  | 28385 | 1048    | Ford/Lear |
|      | Fiesta                            | 2011      | 9L3Z-1A189-A  | SC9L2T |  | 20315 | 9315    | Schrader  |

\*Orange Programmable Sensor



| Brand | Model        | Year      | OE Sensor                                      | Sensor | OPSS* | Schrader | Dill | OE Supplier |
|-------|--------------|-----------|--|--------|-------|----------|------|-------------|
| Ford  | Five Hundred | 2006-2007 | 6F2Z1A189A-6L2T1A150AA-6F2A1A176AE-6F2T1A150AE | LE6L2T |       | 28385    | 1048 | Ford/Lear   |
|       | Focus        | 2007-2009 | 6F2Z1A189A-7L1Z1A189A                          | LE6L2T |       | 28385    | 1048 | Ford/Lear   |
|       | Focus        | 2010      | 9L3Z-1A189-A                                   | SC9L2T |       | 20315    | 9315 | Schrader    |
|       | Freestar     | 2004-2005 | 5L7T1A150AB                                    | SC50AA |       | 20135    | 9135 | Schrader    |
|       | Freestar     | 2006-2007 | 6F2Z1A189A                                     | LE6L2T |       | 28385    | 1048 | Ford/Lear   |
|       | Fusion       | 2008-2009 | 6F2Z1A189A-7L1Z1A189A                          | LE6L2T |       | 28385    | 1048 | Ford/Lear   |
|       | Fusion       | 2010      | 9L3Z-1A189-A                                   | SC9L2T |       | 20315    | 9315 | Schrader    |
|       | Mustang      | 2007-2009 | 6F2Z1A189A-7L1Z1A189A                          | LE6L2T |       | 28385    | 1048 | Ford/Lear   |
|       | Mustang      | 2010      | 9L3Z-1A189-A                                   | SC9L2T |       | 20315    | 9315 | Schrader    |
|       | Ranger       | 2007-2010 | 6F2Z1A189A-7L1Z1A189A                          | LE6L2T |       | 28385    | 1048 | Ford/Lear   |
|       | Sport Trac   | 2007-2010 | 6F2Z1A189A-7L1Z1A189A                          | LE6L2T |       | 28385    | 1048 | Ford/Lear   |
|       | Taurus       | 2008-2010 | 6F2Z1A189A-7L1Z1A189A                          | LE6L2T |       | 28385    | 1048 | Ford/Lear   |
|       | Transit      | 2010      | 9L3Z-1A189-A                                   | SC9L2T |       | 20315    | 9315 | Schrader    |

|     |         |           |          |        |  |       |      |          |
|-----|---------|-----------|----------|--------|--|-------|------|----------|
| GMC | Acadia  | 2007-2008 | 15921013 | SI1013 |  | 20158 | 1047 | Siemens  |
|     | Acadia  | 2009-2010 | 25920615 | SC4101 |  | 20153 | 9153 | Schrader |
|     | Canyon  | 2007-2010 | 15122618 | SC2618 |  | 20131 | 9131 | Schrader |
|     | Envoy   | 2005-2006 | 25774006 | SC4006 |  | 20116 | 9116 | Schrader |
|     | Envoy   | 2007-2009 | 25920615 | SC4101 |  | 20153 | 9153 | Schrader |
|     | Savana  | 2008-2009 | 15921013 | SI1013 |  | 20158 | 1047 | Siemens  |
|     | Savana  | 2010      | 25920615 | SC4104 |  | 20153 | 9153 | Schrader |
|     | Sierra  | 2004      | 15136883 | SC2575 |  | 20115 | 9115 | Schrader |
|     | Sierra  | 2005-2006 | 15114379 | SC4379 |  | 20107 | 9107 | Schrader |
|     | Sierra  | 2007      | 15825475 | SC8606 |  | 20158 | 1047 | TRW      |
|     | Sierra  | 2007-2009 | 25920615 | SC4101 |  | 20153 | 9153 | Schrader |
|     | Terrain | 2010      | 12768826 | SC4101 |  | 20153 | 9153 | Schrader |
|     | Yukon   | 2004      | 15136883 | SC2575 |  | 20115 | 9115 | Schrader |
|     | Yukon   | 2005-2006 | 15114379 | SC4379 |  | 20107 | 9107 | Schrader |
|     | Yukon   | 2007      | 15825475 | SC8606 |  | 20158 | 1047 | TRW      |
|     | Yukon   | 2007-2009 | 25920615 | SC4101 |  | 20153 | 9153 | Schrader |

|       |             |           |               |          |   |   |      |         |
|-------|-------------|-----------|---------------|----------|---|---|------|---------|
| Honda | Accord      | 2008-2010 | 42753-SWA-316 | HOSWA306 | ✓ | - | 1208 | Pacific |
|       | Civic       | 2008-2010 | 42753-SNA-A83 | HOSNAA83 | ✓ | - | 1212 | TRW     |
|       | CR-V(Steel) | 2007-2010 | 42753-SWA-315 | HOSWA305 | ✓ | - | -    | Pacific |

\*Orange Programmable Sensor

| Brand | Model            | Year      | OE Sensor     | Sensor   | OPSS* | Schrader | Dill | OE Supplier |
|-------|------------------|-----------|---------------|----------|-------|----------|------|-------------|
| Honda | CR-V(Alloy)      | 2007-2010 | 42753-SWA-316 | HOSWA306 | ✓     | -        | 1208 | Pacific     |
|       | Element          | 2006-2008 | 06421-SCV-A00 | HOSCVA00 | ✓     | -        | 1058 | TRW         |
|       | Element          | 2009-2010 | 42753-SNA-A83 | HOSNAA83 | ✓     | -        | 1212 | TRW         |
|       | Fit              | 2008      | 42753-SWA-316 | HOSWA306 | ✓     | -        | 1208 | Pacific     |
|       | Fit              | 2009-2010 | 42753-SNA-A83 | HOSNAA83 | ✓     | 28720    | 1212 | TRW         |
|       | Odyssey Touring  | 2005-2007 | 06421-S3V-A04 | HOS3VA04 | ✓     | 28981    | 1057 | TRW         |
|       | Odyssey          | 2008-2010 | 42753-SHJ-A82 | HOSHJA82 | ✓     | 28981    | 1058 | TRW         |
|       | Odyssey          | 2007      | 06421-SCV-A00 | HOSCVA01 | ✓     | 28981    | 1058 | TRW         |
|       | Odyssey Touring  | 2008-2010 | 42753-SHJ-A53 | HOSHJA53 | ✓     | 28981    | 1057 | TRW         |
|       | Pilot(Steel)     | 2005-2008 | 06421-S9V-A03 | HOS9VA03 | ✓     | 28982    | 1059 | TRW         |
|       | Pilot(Steel)     | 2009-2010 | 42753-SZA-A12 | HOSZAA12 | ✓     | -        | -    | Pacific     |
|       | Pilot(Alloy)     | 2005-2008 | 06421-S3V-A04 | HOS3VA04 | ✓     | 28981    | 1057 | TRW         |
|       | Pilot(Alloy)     | 2009-2010 | 42753-STK-A03 | HOSTKA03 | ✓     | -        | 1209 | Pacific     |
|       | Ridgeline(Steel) | 2006-2008 | 06421-S9V-A03 | HOS9VA03 | ✓     | 28982    | 1059 | TRW         |
|       | Ridgeline(Steel) | 2009-2010 | 06421-S3V-A04 | HOS3VA04 | ✓     | 28981    | 1057 | TRW         |
|       | Ridgeline(Alloy) | 2006-2008 | 06421-S3V-A04 | HOS3VA04 | ✓     | 28981    | 1057 | TRW         |
|       | S2000            | 2008-2009 | 42753-S2A-315 | HOS2A315 | ✓     | -        | -    | Pacific     |

|        |    |           |          |        |  |       |      |          |
|--------|----|-----------|----------|--------|--|-------|------|----------|
| Hummer | H2 | 2008-2009 | 25920615 | SC4101 |  | 20153 | 9153 | Schrader |
|        | H3 | 2006-2010 | 15122618 | SC2618 |  | 20131 | 9131 | Schrader |

|         |          |           |              |         |   |       |      |      |
|---------|----------|-----------|--------------|---------|---|-------|------|------|
| Hyundai | Accent   | 2008-2010 | 52933-2F000  | HY2F000 | ✓ | 28849 | 1029 | TRW  |
|         | Azera    | 2008-2010 | 52933-2G200  | HY2G200 | ✓ | -     | 1068 | Beru |
|         | Elantra  | 2007-2010 | 52933-2G200  | HY2G200 | ✓ | -     | 1068 | Beru |
|         | Genesis  | 2009-2010 | 52933-2F000  | HY2F000 | ✓ | 28849 | 1029 | TRW  |
|         | Santa Fe | 2010      | 52933-2G200  | HY2G200 | ✓ | -     | 1068 | Beru |
|         | Sonata   | 2007-2008 | 52933-1 F000 | HY1F000 | ✓ | 28849 | 1058 | TRW  |
|         | Sonata   | 2008-2010 | 52933-2F000  | HY2F000 | ✓ | 28849 | 1029 | TRW  |
|         | Tiburon  | 2007-2008 | 52933-1 FA00 | HY1FA00 | ✓ | 28983 | 1058 | TRW  |
|         | Tucson   | 2006-2009 | 52933-1 FA00 | HY1FA00 | ✓ | 28983 | 1058 | TRW  |
|         | Veracruz | 2007-2010 | 52933-2G200  | HY2G200 | ✓ | -     | 1068 | Beru |

|          |      |           |             |        |   |       |      |          |
|----------|------|-----------|-------------|--------|---|-------|------|----------|
| Infiniti | EX35 | 2008      | 40700-CD001 | SCD001 | ✓ | 20064 | 9064 | Schrader |
|          | EX35 | 2009-2010 | 40700-JK00B | SCA01B | ✓ | 28204 | 9204 | Schrader |
|          | FX35 | 2003-2008 | 40700-CD001 | SCD001 | ✓ | 20064 | 9064 | Schrader |

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| Brand    | Model       | Year      | OE Sensor   | Sensor | OPSS* | Schrader | Dill | OE Supplier |
|----------|-------------|-----------|-------------|--------|-------|----------|------|-------------|
| Infiniti | FX35        | 2009-2010 | 40700-JK00B | SCA01B | ✓     | 28210    | 9204 | Schrader    |
|          | FX45        | 2003-2008 | 40700-CD001 | SCD001 | ✓     | 20064    | 9064 | Schrader    |
|          | FX50        | 2009-2010 | 40700-JK00B | SCA01B | ✓     | 28210    | 9204 | Schrader    |
|          | G35         | 2003-2006 | 40700-CD001 | SCD001 | ✓     | 20064    | 9064 | Schrader    |
|          | G35         | 2007-2008 | 40700-JK00B | SCA01B | ✓     | 28204    | 9204 | Schrader    |
|          | G37         | 2008-2010 | 40700-JK00B | SCA01B | ✓     | 28216    | 9204 | Schrader    |
|          | M35         | 2006-2008 | 40700-CD001 | SCD001 | ✓     | 20064    | 9064 | Schrader    |
|          | M35         | 2009-2010 | 40700-JA01C | SCA01B | ✓     | 28204    | 9204 | Schrader    |
|          | M45         | 2003-2008 | 40700-CD001 | SCD001 | ✓     | 20064    | 9064 | Schrader    |
|          | M45         | 2009-2010 | 40700-JA01C | SCA01B | ✓     | 28204    | 9204 | Schrader    |
|          | Q45         | 2003-2006 | 40700-CD001 | SCD001 | ✓     | 20064    | 9064 | Schrader    |
|          | QX4         | 2003      | 40700-CD001 | SCD001 | ✓     | 20064    | 9064 | Schrader    |
|          | QX56(Steel) | 2004-2008 | 40700-CK002 | SCK002 | ✓     | 20069    | 9069 | Schrader    |
|          | QX56(Alloy) | 2004-2008 | 40700-CK001 | SCK001 | ✓     | 20161    | 9161 | Schrader    |
|          | QX56        | 2009-2010 | 40700-JA02B | SCA01B | ✓     | 28204    | 9204 | Schrader    |

|       |          |           |            |        |  |       |      |          |
|-------|----------|-----------|------------|--------|--|-------|------|----------|
| Isuzu | Ascender | 2006-2008 | 25774006   | SC4006 |  | 20116 | 9116 | Schrader |
|       | 1-290    | 2007-2008 | 15122618   | SC2618 |  | 20131 | 9131 | Schrader |
|       | 1-370    | 2007-2008 | 15122618   | SC2618 |  | 20131 | 9131 | Schrader |
|       | Rodeo    | 2004      | 52088990AC | SC90AC |  | 20028 | 9028 | Schrader |

|        |    |           |          |        |  |   |      |         |
|--------|----|-----------|----------|--------|--|---|------|---------|
| Jaguar | S  | 2007-2008 | C2Z15017 | SI5950 |  | - | 1055 | Siemens |
|        | XF | 2009-2010 | C2Z15017 | SI5950 |  | - | 1055 | Siemens |
|        | XJ | 2004-2010 | C2Z15017 | SI5950 |  | - | 1055 | Siemens |
|        | XK | 2006-2010 | C2Z15017 | SI5950 |  | - | 1055 | Siemens |

|      |                |           |                          |        |  |       |      |          |
|------|----------------|-----------|--------------------------|--------|--|-------|------|----------|
| Jeep | Commander      | 2006-2007 | 56053030AB               | SC36AA |  | 20066 | 1051 | Siemens  |
|      | Commander      | 2008-2010 | 56029359AB               | SI1698 |  | 28155 | 1043 | Siemens  |
|      | Compass        | 2007-2010 | 68001696AA               | SC36AA |  | 20066 | 1051 | Siemens  |
|      | Grand Cherokee | 2002-2004 | 52088990AC               | SC90AC |  | 20028 | 9028 | Schrader |
|      | Grand Cherokee | 2005-2007 | 56053030AB<br>56053066AA | SC36AA |  | 20066 | 1051 | Siemens  |
|      | Grand Cherokee | 2008-2010 | 56029359AB               | SI1698 |  | 28155 | 1043 | Siemens  |
|      | Liberty        | 2004      | 52088990AC               | SC90AC |  | 20028 | 9028 | Schrader |
|      | Liberty        | 2005-2006 | 56053030AB               | SC36AA |  | 20066 | 1051 | Siemens  |
|      | Liberty        | 2007-2008 | 56029465AB               | SC36AA |  | 20066 | 1051 | Siemens  |
|      | Liberty        | 2009      | 56029359AB               | SI1698 |  | 28155 | 1043 | Siemens  |
|      | Patriot        | 2007-2010 | 68001696AA               | SC36AA |  | 20066 | 1051 | Siemens  |
|      | Wrangler       | 2007-2008 | 56029465AB               | SC36AA |  | 20066 | 1051 | Siemens  |
|      | Wrangler       | 2009      | 56029359AB               | SI1698 |  | 28155 | 1043 | Siemens  |
|      | Wrangler       | 2010      | 56029465AB               | SC36AA |  | 20066 | 1051 | Siemens  |

\*Orange Programmable Sensor

| Brand | Model    | Year      | OE Sensor    | Sensor  | OPSS* | Schrader | Dill | OE Supplier |
|-------|----------|-----------|--------------|---------|-------|----------|------|-------------|
| KIA   | Amanti   | 2007-2009 | 52933-1 FA00 | HY1FA00 | ✓     | 28983    | 1058 | TRW         |
|       | Amanti   | 2010      | 52933-2G200  | HY2G200 | ✓     | -        | 1065 | Beru        |
|       | Borrego  | 2009-2010 | 52933-2F000  | HY2F000 | ✓     | 28849    | 1029 | TRW         |
|       | Mohave   | 2009      | 52933-2F000  | HY2F000 | ✓     | 28849    | 1029 | TRW         |
|       | Optima   | 2006-2010 | 52933-2G200  | HY2G200 | ✓     | -        | 1068 | Beru        |
|       | Rio      | 2007-2009 | 52933-2F000  | HY2F000 | ✓     | 28849    | 1029 | TRW         |
|       | Rondo    | 2006-2010 | 52933-2G200  | HY2G200 | ✓     | -        | 1068 | TRW         |
|       | Sedona   | 2009-2010 | 52933-2G200  | HY2G200 | ✓     | -        | 1068 | Beru        |
|       | Sorento  | 2007-2009 | 52933-1 FA00 | HY1FA00 | ✓     | 28983    | 1057 | TRW         |
|       | Spectra  | 2006-2009 | 52933-2F000  | HY2F000 | ✓     | 28849    | 1029 | TRW         |
|       | Sportage | 2006-2008 | 52933-1 FA00 | HY1FA00 | ✓     | 28983    | 1057 | TRW         |
|       | Sportage | 2009-2010 | 52933-2F000  | HY2F000 | ✓     | 28849    | 1029 | TRW         |

|       |           |             |             |         |       |       |         |         |
|-------|-----------|-------------|-------------|---------|-------|-------|---------|---------|
| Lexus | ES        | 2007-2009   | 42607-33021 | T033021 | ✓     | 28370 | 1204    | Pacific |
|       | GS        | 2007-2009   | 42607-33021 | T033021 | ✓     | 28370 | 1204    | Pacific |
|       | GS        | 2006        | 42607-30030 | T030030 | ✓     | 28335 | 1204    | Pacific |
|       | GX470     | 2004-2005   | 42607-35010 | T035010 | ✓     | 28345 | 1205    | Pacific |
|       | GX470     | 2006        | 42607-24010 | T024010 | ✓     | 28365 | 1205    | Pacific |
|       | GX470     | 2007-2009   | 42607-33021 | T033021 | ✓     | 28370 | 1204    | Pacific |
|       | IS        | 2007-2010   | 42607-33021 | T033021 | ✓     | 28370 | 1204    | Pacific |
|       | IS        | 2006        | 42607-30030 | T030030 | ✓     | 28335 | 1204    | Pacific |
|       | LS        | 2007-2009   | 42607-33021 | T033021 | ✓     | 28370 | 1204    | Pacific |
|       | LX        | 2005-2006   | 42607-33021 | T033021 | ✓     | -     | 1204    | Pacific |
|       | RX        | 2006-2010   | 42607-33021 | T033021 | ✓     | 28370 | 1204    | Pacific |
|       | SC        | 2002-2006   | 42607-24010 | T024010 | ✓     | 28310 | -       | Pacific |
| SC    | 2007-2010 | 42607-33021 | T033021     | ✓       | 28330 | 1204  | Pacific |         |

|         |           |           |                          |        |  |       |      |           |
|---------|-----------|-----------|--------------------------|--------|--|-------|------|-----------|
| Lincoln | Aviator   | 2003-2005 | 4L2T1A150BA              | SC50BA |  | 20096 | 9096 | Schrader  |
|         | Mark LT   | 2007-2008 | 6F2Z1A189A               | LE6L2T |  | 28385 | 1048 | Ford/Lear |
|         | Mark LT   | 2009      | 9L3Z-1A189-A             | SC9L2T |  | 20315 | 9315 | Schrader  |
|         | MKS       | 2009-2010 | 6F2Z1A189A               | LE6L2T |  | 28385 | 1048 | Schrader  |
|         | MKX       | 2007-2010 | 6F2Z1A189A               | LE6L2T |  | 28385 | 1048 | Ford/Lear |
|         | MKZ       | 2007-2009 | 6F2Z1A189A<br>7L1Z1A189A | LE6L2T |  | 28385 | 1048 | Ford/Lear |
|         | MKZ       | 2010      | 9L3Z-1A189-A             | SC9L2T |  | 20315 | 9315 | Schrader  |
|         | Navigator | 2003-2004 | 4L2T1A150BA              | SC50BA |  | 20096 | 9096 | Schrader  |
|         | Navigator | 2005-2006 | 5L7T1A150AB              | SC50AA |  | 20135 | 9135 | Schrader  |
|         | Navigator | 2007-2010 | 6F2Z1A189A<br>7L1Z1A189A | LE6L2T |  | 28385 | 1048 | Ford/Lear |
|         | Town Car  | 2008-2010 | 6F2Z1A189A<br>7L1Z1A189A | LE6L2T |  | 28385 | 1048 | Ford/Lear |

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| Brand | Model      | Year      | OE Sensor    | Sensor | OPSS* | Schrader | Dill | OE Supplier |
|-------|------------|-----------|--------------|--------|-------|----------|------|-------------|
| Mazda | 3          | 2004-2010 | GN3A-37-140B | SI140B |       | -        | 1056 | Siemens     |
|       | 5          | 2006-2009 | GN3A-37-140B | SI140B |       | -        | 1056 | Siemens     |
|       | 6          | 2005-2009 | GN3A-37-140B | SI140B |       | -        | 1056 | Siemens     |
|       | B Series   | 2007-2009 | ZZC137140    | LE6L2T |       | 28385    | 1048 | Ford/Lear   |
|       | CX-7       | 2007-2010 | GN3A-37-140B | SI140B |       | -        | 1056 | Siemens     |
|       | CX-9       | 2007-2010 | GN3A-37-140B | SI140B |       | -        | 1056 | Siemens     |
|       | MX-5 Miata | 2006-2009 | GN3A-37-140B | SI140B |       | -        | 1056 | Siemens     |
|       | RX-8       | 2004      | FE01-37-140A | SI140B |       | -        | 1056 | Siemens     |
|       | RX-8       | 2005-2010 | GN3A-37-140B | SI140B |       | -        | 1056 | Siemens     |
|       | Speed 6    | 2007-2008 | GN3A-37-140B | SI140B |       | -        | 1056 | Siemens     |
|       | Tribute    | 2007-2009 | ZZC137140    | LE6L2T |       | 28385    | 1048 | Ford/Lear   |
|       | Tribute    | 2009-2010 | ZZDA-37-140  | SC9L2T |       | 20315    | 9315 | Schrader    |

|          |           |           |              |        |  |       |      |          |
|----------|-----------|-----------|--------------|--------|--|-------|------|----------|
| Mercedes | C Class   | 2007-2010 | 003 540 0217 | SC9400 |  | 28291 | 9214 | Schrader |
|          | CLK Class | 2007-2009 | 003 540 0217 | SC9400 |  | 28291 | 9214 | Schrader |
|          | G Class   | 2007-2010 | 003 540 0217 | SC9400 |  | 28291 | 9214 | Schrader |
|          | GLK Class | 2010      | 003 540 0217 | SC9400 |  | 28291 | 9214 | Schrader |
|          | SLK Class | 2007-2010 | 003 540 0217 | SC9400 |  | 28291 | 9214 | Schrader |

|         |               |           |   |        |  |       |      |           |
|---------|---------------|-----------|---|--------|--|-------|------|-----------|
| Mercury | Grand Marquis | 2006-2010 | 6F2Z1A189A<br>6L2T1A150AA<br>6F2A1A176AE<br>6F2T1A150AE<br>7L1Z1A189A | LE6L2T |  | 28385 | 1048 | Ford/Lear |
|         | Mariner       | 2006-2008 | 6F2Z1A189A<br>6L2T1A150AA<br>6F2A1A176AE<br>6F2T1A150AE               | LE6L2T |  | 28385 | 1048 | Ford/Lear |
|         | Mariner       | 2009-2010 | 9L3Z-1A189-A  | SC9L2T |  | 20315 | 9315 | Schrader  |
|         | Milan         | 2008-2009 | 6F2Z1A189A<br>7L1Z1A189A  | LE6L2T |  | 28385 | 1048 | Ford/Lear |
|         | Milan         | 2010      | 9L3Z-1A189-A  | SC9L2T |  | 20315 | 9315 | Schrader  |
|         | Montego       | 2006-2007 | 6F2Z1A189A<br>6L2T1A150AA<br>6F2A1A176AE<br>6F2T1A150AE               | LE6L2T |  | 28385 | 1048 | Ford/Lear |
|         | Monterey      | 2004-2005 | 5L7T1A150AB   | SC50AA |  | 20135 | 9135 | Schrader  |
|         | Monterey      | 2006-2007 | 6F2Z1A189A<br>6L2T1A150AA<br>6F2A1A176AE<br>6F2T1A150AE               | LE6L2T |  | 28385 | 1048 | Ford/Lear |
|         | Mountaineer   | 2002-2005 | 4L2T1A150BA   | SC50BA |  | 20096 | 9096 | Schrader  |
|         | Mountaineer   | 2006-2010 | 6F2Z1A189A<br>6L2T1A150AA<br>6F2A1A176AE<br>6F2T1A150AE<br>7L1Z1A189A | LE6L2T |  | 28385 | 1048 | Ford/Lear |
|         | Sable         | 2008-2009 | 6F2Z1A189A<br>7L1Z1A189A  | LE6L2T |  | 28385 | 1048 | Ford/Lear |

\*Orange Programmable Sensor

| Brand      | Model          | Year      | OE Sensor  | Sensor | OPSS* | Schrader | Dill | OE Supplier |
|------------|----------------|-----------|------------|--------|-------|----------|------|-------------|
| Mitsubishi | Eclipse(Alloy) | 2006-2010 | MN103081   | SC3081 |       | 20034    | 9034 | Schrader    |
|            | Eclipse(Steel) | 2006-2007 | 4250A030   | SCK002 |       | 28129    | 9069 | Schrader    |
|            | Endeavor       | 2004-2009 | 52088990AC | SC90AC |       | 20028    | 9028 | Schrader    |
|            | Endeavor       | 2006-2009 | MN103081   | SC3081 |       | 20034    | 9034 | Schrader    |
|            | Galant         | 2004-2006 | MN103033   | SC90AC |       | 20028    | 9028 | Schrader    |
|            | Galant(Alloy)  | 2007-2009 | MN103081   | SC3081 |       | 20034    | 9034 | Schrader    |
|            | Galant         | 2008-2009 | 4250A030   | SCK002 |       | 28129    | 9069 | Schrader    |
|            | Lancer         | 2008-2009 | 4250A225   | SC36AA |       | 20066    | 1051 | Siemens     |
|            | Montero        | 2003-2006 | MN103081   | SC3081 |       | 20034    | 9034 | Schrader    |
|            | Outlander      | 2007-2009 | 4250A225   | SC36AA |       | 20066    | 1051 | Siemens     |

|        |                    |           |             |        |   |       |      |          |
|--------|--------------------|-----------|-------------|--------|---|-------|------|----------|
| Nissan | 350Z               | 2004-2006 | 40700-CD001 | SCD001 | ✓ | 20064 | 9064 | Schrader |
|        | 350Z               | 2007-2009 | 40700-JA01C | SCA01B | ✓ | 28204 | 9204 | Schrader |
|        | 370Z               | 2009-2010 | 40700-JK00C | SCA01B | ✓ | 28204 | 9204 | Schrader |
|        | Altima             | 2006-2010 | 40700-JA02B | SCA01B | ✓ | 28204 | 9204 | Schrader |
|        | Armada(Alloy)      | 2005-2008 | 40700-CK001 | SCK001 | ✓ | 20161 | 9161 | Schrader |
|        | Armada(Steel)      | 2005-2006 | 40700-CK001 | SCK001 | ✓ | 20161 | 9161 | Schrader |
|        | Armada-LE          | 2008-2010 | 40700-JA02B | SCA01B | ✓ | 28204 | 9204 | Schrader |
|        | Frontier           | 2003-2004 | 40700-CD001 | SCD001 | ✓ | 20064 | 9064 | Schrader |
|        | Frontier(Alloy)    | 2005-2008 | 40700-CK001 | SCK001 | ✓ | 20161 | 9161 | Schrader |
|        | Frontier(Steel)    | 2005-2007 | 40700-CK002 | SCK002 | ✓ | 20069 | 9069 | Schrader |
|        | Frontier           | 2008-2010 | 40700-JA02B | SCA01B | ✓ | 28204 | 9204 | Schrader |
|        | GTR                | 2009-2010 | 40700-JA01C | SCA01B | ✓ | 28204 | 9204 | Schrader |
|        | Maxima             | 2006-2007 | 40700-CK001 | SCK001 | ✓ | 20161 | 9161 | Schrader |
|        | Maxima             | 2007-2010 | 40700-JA02B | SCA01B | ✓ | 28204 | 9204 | Schrader |
|        | Murano             | 2003-2006 | 40700-CD001 | SCD001 | ✓ | 20064 | 9064 | Schrader |
|        | Murano             | 2007-2009 | 40700-JA02B | SCA01B | ✓ | 28204 | 9204 | Schrader |
|        | Pathfinder         | 2003-2004 | 40700-CD001 | SCD001 | ✓ | 20064 | 9064 | Schrader |
|        | Pathfinder (Steel) | 2004      | 40700-CK002 | SCK002 | ✓ | 20069 | 9069 | Schrader |
|        | Pathfinder         | 2005-2006 | 40700-CK001 | SCK001 | ✓ | 20161 | 9161 | Schrader |
|        | Pathfinder         | 2007-2010 | 40700-JA02B | SCA01B | ✓ | 28204 | 9204 | Schrader |
|        | Quest(Alloy)       | 2005-2007 | 40700-CK001 | SCK001 | ✓ | 20161 | 9161 | Schrader |
|        | Quest (Steel)      | 2004-2007 | 40700-CK002 | SCK002 | ✓ | 20069 | 9069 | Schrader |
|        | Quest              | 2008-2010 | 40700-JA02B | SCA01B | ✓ | 28204 | 9204 | Schrader |
|        | Rogue              | 2008-2010 | 40700-JA01C | SCA01B | ✓ | 28204 | 9204 | Schrader |
|        | Sentra(Alloy)      | 2007-2008 | 40700-CK001 | SCK001 | ✓ | 20161 | 9161 | Schrader |
|        | Sentra(Steel)      | 2007-2010 | 40700-JA02B | SCA01B | ✓ | 28204 | 9204 | Schrader |
|        | Titan(Alloy)       | 2005-2008 | 40700-CK001 | SCK001 | ✓ | 20161 | 9161 | Schrader |
|        | Titan(Steel)       | 2004-2008 | 40700-CK002 | SCK002 | ✓ | 20069 | 9069 | Schrader |
|        | Titan(Steel)       | 2009-2010 | 40700-JA02B | SCA01B | ✓ | 28204 | 9204 | Schrader |
|        | Versa              | 2007-2010 | 40700-JA02B | SCA01B | ✓ | 28204 | 9204 | Schrader |

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| Brand  | Model        | Year      | OE Sensor   | Sensor | OPSS* | Schrader | Dill | OE Supplier |
|--------|--------------|-----------|-------------|--------|-------|----------|------|-------------|
| Nissan | Versa(Alloy) | 2007-2008 | 40700-CK001 | SCK001 | ✓     | 20161    | 9161 | Schrader    |
|        | Xterra       | 2003-2004 | 40700-CD001 | SCD001 | ✓     | 20064    | 9064 | Schrader    |
|        | Xterra       | 2005-2006 | 40700-CK001 | SCK001 | ✓     | 20161    | 9161 | Schrader    |
|        | Xterra       | 2007-2010 | 40700-JA02B | SCA01B | ✓     | 28204    | 9204 | Schrader    |

|         |              |           |             |          |   |       |      |          |
|---------|--------------|-----------|-------------|----------|---|-------|------|----------|
| Pontiac | G3           | 2009-2010 | 25920615    | SC4101   |   | 20153 | 9153 | Schrader |
|         | G5           | 2008      | 15921013    | SI1013   |   | 20158 | 1047 | Siemens  |
|         | G5           | 2009-2010 | 25920615    | SC4101   |   | 20153 | 9153 | Schrader |
|         | G6           | 2008      | 15921013    | SI1013   |   | 20158 | 1047 | Siemens  |
|         | G6           | 2008-2010 | 25920615    | SC4101   |   | 20153 | 9153 | Schrader |
|         | G8           | 2008-2009 | 25920615    | SC4101   |   | 20153 | 9153 | Schrader |
|         | Grand Prix   | 2007-2008 | 15921013    | SI1013   |   | 20158 | 1047 | Siemens  |
|         | Montana/SV6  | 2008      | 15268606    | SC8606   |   | 20158 | 1047 | Schrader |
|         | Solstice     | 2008-2010 | 15921013    | SI1013   |   | 20158 | 1047 | Siemens  |
|         | Torrent      | 2007-2009 | 15921013    | SI1013   |   | 20158 | 1047 | Siemens  |
|         | Vibe (US)    | 2008-2010 | 42607-06011 | T006011  | ✓ | 28360 | 1204 | Pacific  |
|         | Vibe (Japan) | 2008-2010 | 42607-33011 | T0033011 | ✓ | 28365 | 1204 | Pacific  |
|         | Wave         | 2008-2009 | 25920615    | SC4101   |   | 20153 | 9153 | Schrader |

|      |      |           |          |        |  |       |      |          |
|------|------|-----------|----------|--------|--|-------|------|----------|
| Saab | 9-7X | 2005-2009 | 25774006 | SC4006 |  | 20116 | 9116 | Schrader |
|------|------|-----------|----------|--------|--|-------|------|----------|

|        |         |           |                      |        |  |       |      |          |
|--------|---------|-----------|----------------------|--------|--|-------|------|----------|
| Saturn | Aura    | 2007-2008 | 15921013             | SI1013 |  | 20158 | 1047 | Siemens  |
|        | Aura    | 2008-2009 | 25920615             | SC4101 |  | 20153 | 9153 | Schrader |
|        | Outlook | 2007-2008 | 15921013             | SI1013 |  | 20158 | 1047 | Siemens  |
|        | Outlook | 2009-2010 | 25920615             | SC4101 |  | 20153 | 9153 | Schrader |
|        | Sky     | 2007-2009 | 15921013             | SI1013 |  | 20158 | 1047 | Siemens  |
|        | Vue     | 2007-2010 | 25799331<br>25920615 | SC4101 |  | 20153 | 9153 | Schrader |

|       |    |           |             |         |   |       |      |         |
|-------|----|-----------|-------------|---------|---|-------|------|---------|
| Scion | tC | 2006-2010 | 42607-33011 | T033011 | ✓ | 28365 | 1204 | Pacific |
|       | xB | 2008-2010 | 42607-33011 | T033011 | ✓ | 28365 | 1204 | Pacific |
|       | xD | 2008      | 42607-33011 | T033011 | ✓ | 28365 | 1204 | Pacific |

|       |        |      |              |        |  |       |      |          |
|-------|--------|------|--------------|--------|--|-------|------|----------|
| Smart | Fortwo | 2008 | AD0025409017 | SC9400 |  | 28291 | 9214 | Schrader |
|-------|--------|------|--------------|--------|--|-------|------|----------|

|        |            |           |            |        |  |       |      |          |
|--------|------------|-----------|------------|--------|--|-------|------|----------|
| Subaru | B9 Tribeca | 2006-2007 | 28103AG00A | SCG00A |  | 20081 | 9081 | Schrader |
|        | Legacy     | 2004-2007 | 28103AG00A | SCG00A |  | 20081 | 9081 | Schrader |
|        | Outback    | 2004-207  | 28103AG00A | SCG00A |  | 20081 | 9081 | Schrader |

\*Orange Programmable Sensor

| Brand  | Model        | Year      | OE Sensor   | Sensor  | OPSS* | Schrader | Dill | OE Supplier |
|--------|--------------|-----------|-------------|---------|-------|----------|------|-------------|
| Suzuki | Equator      | 2009      | 43130-85Z00 | SC4101  |       | 20153    | 9153 | Schrader    |
|        | Forenza      | 2007-2009 | 43130-85Z00 | SC4101  |       | 20153    | 9153 | Schrader    |
|        | Grand Vitara | 2007-2009 | 43130-54J20 | SC54J2  |       | 20087    | 9087 | Schrader    |
|        | Reno         | 2007-2009 | 43130-85Z00 | SC4101  |       | 20153    | 9153 | Schrader    |
|        | SX4          | 2007-2010 | 43130-54J20 | SC54J20 |       | 20082    | 9082 | Schrader    |
|        | Verona       | 2005-2006 | 43130-86Z20 | SC4045  |       | 20082    | 9082 | Schrader    |
|        | XL-7         | 2005-2006 | 43130-54J20 | SC54KJ2 |       | 20087    | 9087 | Schrader    |
|        | XL-7         | 2007-2010 | 43130-78J00 | SC8606  |       | 20158    | 1047 | Schrader    |

|                    |                     |                            |             |         |             |       |         |         |
|--------------------|---------------------|----------------------------|-------------|---------|-------------|-------|---------|---------|
| Toyota             | 4 Runner            | 2003-2005                  | 42607-35010 | TO35010 | ✓           | 28345 | 1205    | Pacific |
|                    | 4 Runner            | 2006-2010                  | 42607-33011 | TO33011 | ✓           | 28365 | 1204    | Pacific |
|                    | Avalon(USA)         | 2007-2010                  | 42607-06011 | TO06011 | ✓           | 28360 | 1204    | Pacific |
|                    | Avalon(Japan)       | 2007-2008                  | 42607-33011 | TO33011 | ✓           | 28365 | 1204    | Pacific |
|                    | Camry(USA)          | 2007-2010                  | 42607-06011 | TO06011 | ✓           | 28360 | 1204    | Pacific |
|                    | Camry(Japan)        | 2007-2010                  | 42607-33011 | TO33011 | ✓           | 28365 | 1204    | Pacific |
|                    | Corolla(USA)        | 2007-2008                  | 42607-06011 | TO06011 | ✓           | 28360 | 1204    | Pacific |
|                    | Corolla(Japan)      | 2007-2008                  | 42607-33011 | TO33011 | ✓           | 28365 | 1204    | Pacific |
|                    | Corolla( Japan)     | 2009                       | 42607-33021 | TO33021 | ✓           | 28365 | 1204    | Pacific |
|                    | Corolla             | 2010                       | 42607-06011 | TO06011 | ✓           | 28360 | 1204    | Pacific |
|                    | FJ Cruiser          | 2008-2010                  | 42607-33011 | TO33011 | ✓           | 28365 | 1204    | Pacific |
|                    | Highlander          | 2007-2010                  | 42607-33011 | TO33011 | ✓           | 28365 | 1204    | Pacific |
|                    | Land Cruiser        | 2006-2007                  | 42607-33021 | TO33021 | ✓           | 28365 | 1204    | Pacific |
|                    | Land Cruiser        | 2005-2009                  | 42607-33011 | TO33011 | ✓           | 28365 | 1204    | Pacific |
|                    | Matrix(USA)         | 2007-2010                  | 42607-06011 | TO06011 | ✓           | 28360 | 1204    | Pacific |
|                    | Matrix( Japan)      | 2007-2009                  | 42607-33011 | TO33011 | ✓           | 28365 | 1204    | Pacific |
|                    | Prius               | 2006-2010                  | 42607-33011 | TO33011 | ✓           | 28365 | 1204    | Pacific |
|                    | RAV4                | 2006                       | 42607-33011 | TO33011 | ✓           | 28365 | 1204    | Pacific |
|                    | RAV4                | 2007-2008                  | 42607-33021 | TO33021 | ✓           | 28370 | 1204    | Pacific |
|                    | Sienna              | 2006-2010                  | 42607-0C050 | TO0C050 | ✓           | 28670 | 1206    | TRW     |
|                    | Sequoia (20° Alloy) | 2004-2007                  | 42607-0C020 | TO0C020 | ✓           | 28305 | 1204    | Pacific |
|                    | Sequoia (40° Steel) | 2004-2007                  | 42607-35010 | TO0C010 | ✓           | 28300 | 1203    | Pacific |
|                    | Sequoia (20° Alloy) | 2008-2010                  | 42607-0C050 | TO0C050 | ✓           | 28670 | 1206    | TRW     |
|                    | Solara              | 2006-2008                  | 42607-06011 | TO06011 | ✓           | 28360 | 1204    | Pacific |
| Tacoma (20° Alloy) | 2005-2006           | 42607-0C020<br>42607-AD020 | TO0C020     | ✓       | 28305/28355 | 1204  | Pacific |         |
| Tacoma (40° Steel) | 2005-2006           | 42607-00010<br>42607-AD010 | TO0C010     | ✓       | 28300/28380 | 1203  | Pacific |         |
| Tacoma (40°)       | 2006-2009           | 42607-04010                | TO0C010     | ✓       | 28380       | 1203  | Pacific |         |

\*Orange Programmable Sensor



| Brand  | Model              | Year      | OE Sensor   | Sensor  | OPSS* | Schrader | Dill | OE Supplier |
|--------|--------------------|-----------|-------------|---------|-------|----------|------|-------------|
| Toyota | Tacoma (20° Alloy) | 2007-2009 | 42607-06011 | TO06011 | ✓     | 28360    | 1204 | Pacific     |
|        | Tundra (20° Alloy) | 2005-2006 | 42607-0C020 | TO0C020 | ✓     | 28305    | 1204 | Pacific     |
|        | Tundra (20° Alloy) | 2007-2010 | 42607-0C050 | TO0C050 | ✓     | 28670    | 1206 | TRW         |
|        | Tundra (40° Steel) | 2005-2006 | 42607-0C010 | TO0C010 | ✓     | 28300    | 1203 | Pacific     |
|        | Tundra (40° Steel) | 2007-2010 | 42607-0C060 | TO0C050 | ✓     | 28670    | 1206 | TRW         |
|        | Venza              | 2007-2010 | 42607-0C060 | TO0C050 | ✓     | 28670    | 1206 | TRW         |
|        | Yaris              | 2007-2010 | 42607-33011 | TO33011 | ✓     | 28365    | 1204 | Pacific     |

|            |        |           |            |        |  |       |      |         |
|------------|--------|-----------|------------|--------|--|-------|------|---------|
| Volkswagen | Beetle | 2008-2010 | 1K0907253D | SI253D |  | -     | 1053 | Siemens |
|            | CC     | 2009-2010 | 1K0907253D | SI253D |  | -     | 1053 | Siemens |
|            | EOS    | 2007-2010 | 1K0907253D | SI253D |  | -     | 1053 | Siemens |
|            | GLI    | 2008-2009 | 1K0907253D | SI253D |  | -     | 1053 | Siemens |
|            | GTI    | 2006-2010 | 1K0907253D | SI253D |  | -     | 1053 | Siemens |
|            | Jetta  | 2006-2010 | 1K0907253D | SI253D |  | -     | 1053 | Siemens |
|            | Passat | 2006-2010 | 1K0907253D | SI253D |  | -     | 1053 | Siemens |
|            | R32    | 2008-2010 | 1K0907253D | SI253D |  | -     | 1053 | Siemens |
|            | Rabbit | 2006-2010 | 1K0907253D | SI253D |  | -     | 1053 | Siemens |
|            | Routan | 2009-2010 | 7B0907253  | SI1698 |  | 28155 | 1043 | Siemens |
|            | Tiguan | 2009-2010 | 1K0907253D | SI253D |  | -     | 1053 | Siemens |

|       |      |           |           |        |  |       |      |          |
|-------|------|-----------|-----------|--------|--|-------|------|----------|
| Volvo | C30  | 2007-2010 | 31280297  | SC0297 |  | -     | 1044 | Siemens  |
|       | C70  | 2007-2010 | 31280297  | SC0297 |  | -     | 1044 | Siemens  |
|       | S40  | 2007-2010 | 31280297  | SC0297 |  | -     | 1044 | Siemens  |
|       | S60  | 2004-2007 | 8651700   | SC8991 |  | 20156 | 9156 | Schrader |
|       | S80  | 2004-2007 | 8651700   | SC8991 |  | 20156 | 9156 | Schrader |
|       | S80  | 2007-2010 | 31280297  | SC0297 |  | -     | 1044 | Siemens  |
|       | V50  | 2007-2010 | 31280297  | SC0297 |  | -     | 1044 | Siemens  |
|       | V70  | 2004-2007 | 8651700   | SC8991 |  | 20156 | 9156 | Schrader |
|       | V70  | 2008-2010 | 31280297  | SC0297 |  | -     | 1044 | Siemens  |
|       | XC60 | 2009      | 31200923  | SC8991 |  | 20156 | 9156 | Schrader |
|       | XC70 | 2004-2007 | 8651700   | SC8991 |  | 20156 | 9156 | Schrader |
|       | XC70 | 2008-2010 | 306815550 | SC0297 |  | -     | 1044 | Siemens  |
|       | XC90 | 2005-2010 | 31200923  | SC8991 |  | 20156 | 9156 | Schrader |

\*Orange Programmable Sensor



## TPMS Installation Instructions

1. Clean valve stem hole in rim. Remove any dirt or corrosion.
2. Remove washer, nut and cap from the valve stem on the sensor.
3. Push valve stem through the rim, install washer, tighten nut to +/- .4 ft-lb. then tighten cap.
4. Holding sensor body down against rim while tighten screw.

## WARRANTY

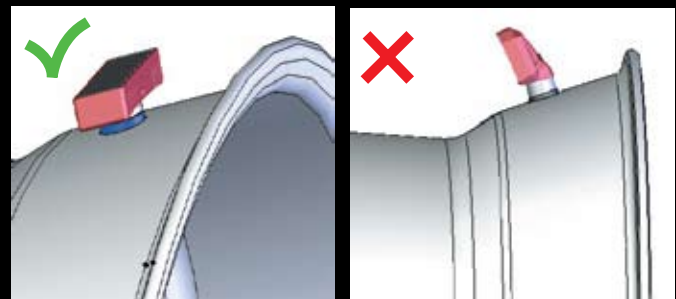
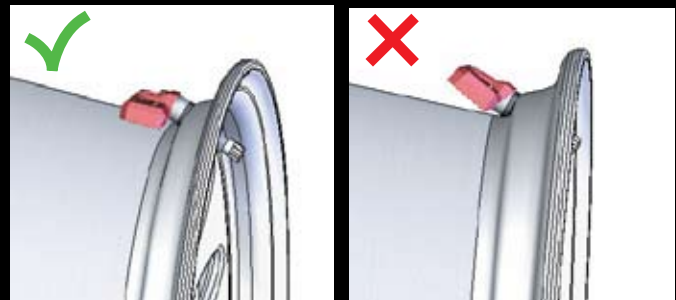
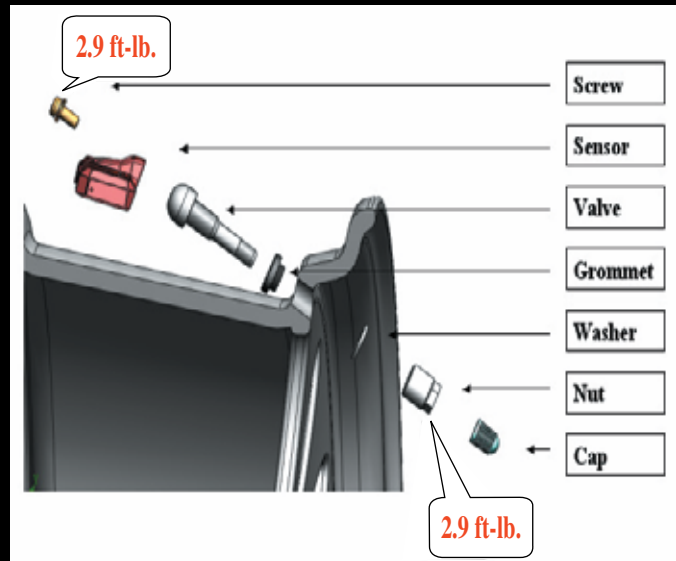
ALL PRODUCT IS SUBJECT TO TESTING UPON RETURN FOR WARRANTY CLAIMS. AN RGA MUST ACCOMPANY ANY RETURNED PRODUCT. IF IT IS DETERMINED THAT THE PRODUCT IS WORKING PROPERLY, IT WILL BE RETURNED AT THE CUSTOMERS EXPENSE. SENSORS WILL NOT BE DEEMED WARRANTABLE IF DAMAGED FROM MISUSE, OR INCORRECT APPLICATION.

*Orange Electronic products are warranted to be free from defects in material and workmanship for 12 months from delivery to purchaser. Orange Electronic will at its discretion replace any merchandise during the warranty period.*

ALL OTHER WARRANTIES IMPLIED OR EXPRESSED ARE DISCLAIMED. LIABILITY AND LOSSES RESULTING FROM SUCH CLAIMS ARE EXCLUDED, REGARDLESS OF CIRCUMSTANCES FORESEEABLE, OR UNFORSEEN.

The warranty shall be void if any of the following occur:

1. improper installation of products; or
2. improper usage; or
3. induction of defect by other products; or
4. mishandling of product; or
5. incorrect application; or
6. damage due to collision or tire failure; or
7. racing or competition; or
8. exceeding the specific limits of the product.



Each time a tire is serviced or dismounted, it is imperative to replace the grommet with Orange parts to ensure proper sealing.

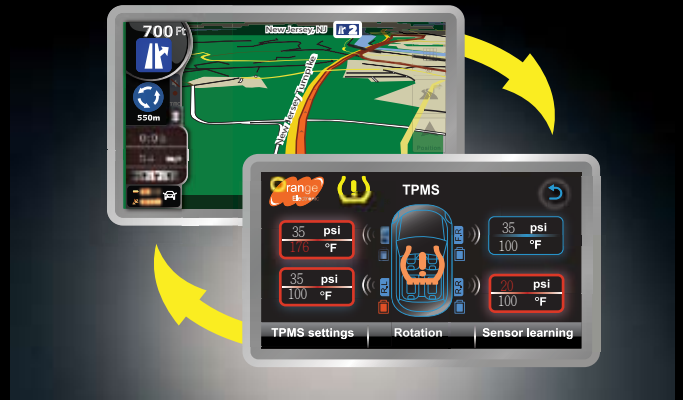
It is imperative to replace the sensor if sensor is externally damaged (especially the plastic bridge part where the valve stem is connected.)

# Orange Retrofit Kits

**M201A**  
Motorcycle TPMS



**P412A**  
Passenger Car TPMS



**P409S**  
Passenger Car TPMS



**P602B/C**  
Bus, Truck/Van TPMS





# GPS & TPMS Model P412A

## Integrating GPS + TPMS

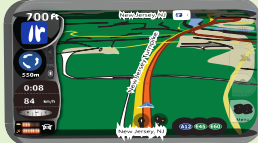
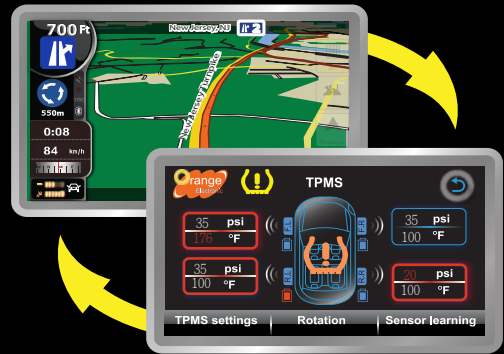
USA & Canadian Maps Included

Voice Guidance Directions

2GB Internal Memory

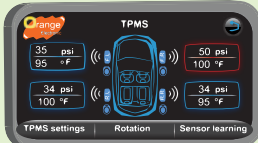
Micro SD Slot

Patent Pending



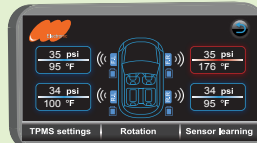
### • US and Canadian Maps

Features: PoINav + Orange TPMS with Real Time Tire Pressure and Temperature data. Voice guidance turn by turn directions announcing street names. One touch POI.



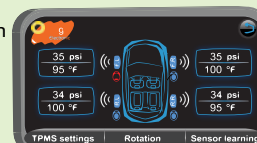
### • High/Low Pressure Alert

Tire Pressure warning detection with both visual and audible alarm. If tire pressure is above or below initial factory pressure settings of 50/26 psi the driver is notified via audio and visual prompt on GPS screen.



### • High Temperature Alert

High Temperature warning detection with both visual and audible alarm. When Tire Temperature exceeds factory preset of 176°F the driver is notified via audio and visual prompt on GPS screen.



### • Low Battery Voltage Alert

Low battery in sensor warning detection. When battery strength in sensor falls below 25%, the driver is notified via audio and visual prompt on GPS screen.

# TPMS Aftermarket System

Model P409S

| FRONT                    |                           |  |  |
|--------------------------|---------------------------|--|--|
| No. 4<br>Front left tire | No. 1<br>Front right tire |  | <i>Low Pressure Alert</i><br>Visual and audible warning. This is activated when the tire pressure reaches the preset level. Default low pressure alert is 26 psi.              |
| No. 3<br>Rear left tire  | No. 2<br>Rear right tire  |  | <i>High Pressure Alert</i><br>Visual and audible warning. This is activated when the tire pressure reaches the preset level. Default high pressure alert is 50 psi.            |
|                          |                           |  | <i>High Temperature Alert</i><br>Visual and audible warning. This is activated when the tire's temperature reaches the preset level. Default high temperature alert is 176° F. |



BEST PRODUCT AWARD



Wireless sensor and transmitter indicates tire pressure and temperature  
Real time, full-time monitoring  
7-year battery life  
Patented antenna  
Changeable valves  
Fits any tire rim  
Digital LED display

## Orange Family



OE Replacement Sensor



Retrofit TPMS

## Certifications

Qualified RF Wireless certifications



USA



Europe



Japan



Korea



Canada



Taiwan

Quality testing certification



FMVSS138



SAE J2567

Factory certification



(ISO 9001 TS16949)



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