

We've never met a stranger.

sens.it RS+ TPMS sensors can talk to any car.



sens.it RS+ TPMS sensors speak your language too.

SENSORS

sens.it
It Just Makes Sense.



SERVICE
KITS



TOOLS





A century of success

Global valve leader since 1920

Richard Steiff was the inventive nephew of Margarete Steiff, the owner of the Steiff Toy Company that began in Germany in 1877. Richard was responsible for the founding of the ALLIGATOR Valve Factory in 1920, as a subsidiary of his aunt's company. During the great bicycle boom after World War 1, Steiff started establishing industrial mass production for bicycle tire valves. The "ALLIGARO Easy Pump" bicycle valve was the first major invention and was the predecessor of the later world famous ALLIGATOR Express Valve.

Since the very beginning, every ALLIGATOR valve is known for superb quality, superior air tightness, easy use, and backed by world-class customer support. These traditions will never change.



Source: Alligator Ventilfabrik GmbH

sens.it[®] - unmatched quality & design

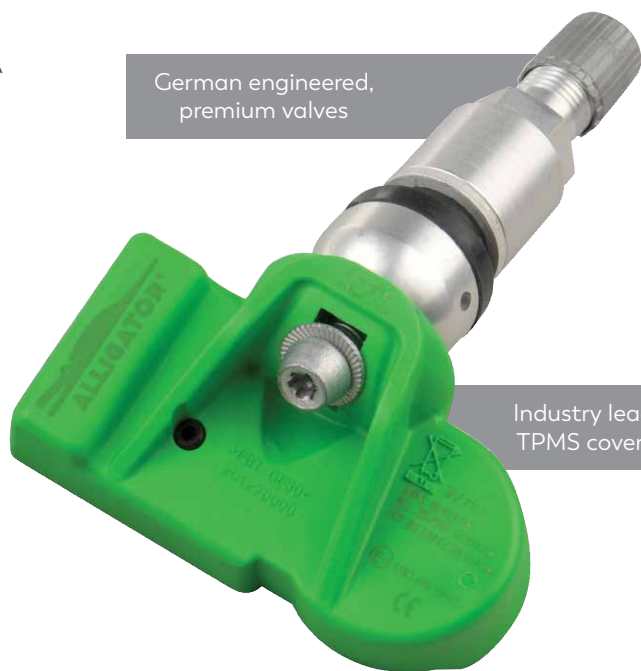
Delivering a premium experience

As a long-term OE supplier of TPMS tire valves, ALLIGATOR took on the task of developing a very simple and practice-oriented solution for the replacement TPMS market that takes the challenges with OE sensors into account. In the end, the sens.it universal TPMS sensor lineup was created to deliver a premium experience.

sens.it RS+ advantages

- Alligator delivered the first programmable sensor to the USA
- OE quality manufacturing & design is standard
- Maximum 99.7% make-and-model coverage
- Vehicle validations completed in the USA
- 100% replicates full OEM functionality
 - Tire Fill Assist, Auto-Learn, WAL, PAL, etc.
- Premium valve components
 - Industry standard parallel flats rubber valve
 - Metal stems with ball joint for flexibility
- Military grade lithium battery with extreme lifespan
- Compatible with various industry programming tools
- FREE tech support hotline with US-based expertise

German engineered, premium valves



Industry leading TPMS coverage

 **TPMS TECH SUPPORT**
 855.573.6748
 alligator-tpms.com



Sens.it RS+ Dual Frequency TPMS Sensor with Clamp-in Silver Ball-Joint Valve: SKU 591132
Programming Options: Programmable & Cloneable
Frequency Range: 315MHz & 433 MHz (Dual)
Valve Material / Design:
 OE Silver Aluminum Ball-Seat Valve Stem
Valve Angle: 12-40 degree adjustable
Sensors Per Box: 12 (individually bagged)
Sensors Per Case: 192 (16 boxes of 12 each)

Sens.it RS+ Dual Frequency TPMS Sensor with Snap-in Rubber Valve: SKU 591134
Programming Options: Programmable & Cloneable
Frequency Range: 315MHz & 433 MHz (Dual)
Valve Material / Design:
 EPDM Rubber Fixed Angle Valve Stem
Sensors Per Box: 12 (individually bagged)
Sensors Per Case: 192 (16 boxes of 12 each)



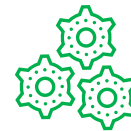
Simplicity

Sens.it RS+ TPMS sensors just work. Simple as that. They're a snap to install and easy to program with our premium tools or your own.

99.7

MAX Coverage

Nobody talks to more vehicles than our innovative Sens.it RS+ TPMS sensors. Our industry-leading sensors cover 99.7% of vehicles.



Functionality

Don't let our simple sensor design fool you. Whether programmed or cloned, Sens.it RS+ TPMS sensors replicate full OEM functionality.

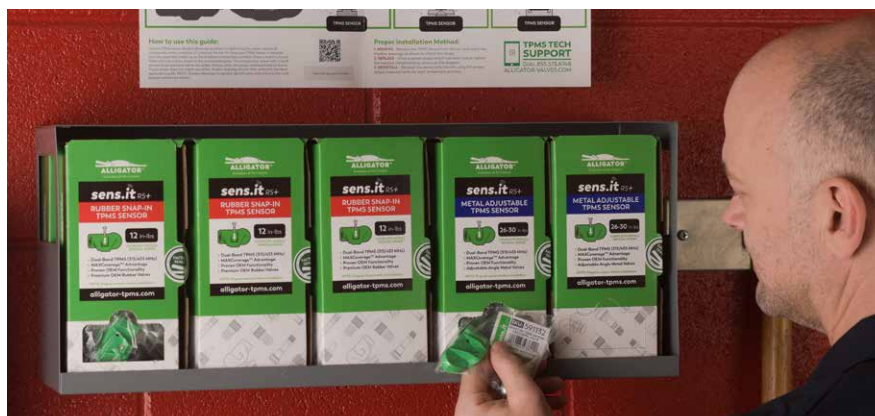


Tech Support

Our US-based tech support is here anytime you need to talk. And all of our products are backed by 100 years of innovative German engineering.

Call: 855-573-6748

Part No.	Description	Packaging
591132	RS+ Sensor w/ ball-joint valve, Silver	12 sensors per box
591138	Replacement ball-joint valve, Silver	20 valves per box
591133	Replacement ball-joint valve, Black	20 valves per box
591134	RS+ Sensor w/ rubber snap-in valve	12 sensors per box
591320	Replacement rubber snap-in valve	20 valves per box
591139	Replacement fixed-angle aluminum valve	20 valves per box
19108	GATOR CAGE - Metal cabinet 22" W x 9" T x 6.25" D	Cabinet holds 10 boxes



The Gator Cage (SKU 19108, pictured above) custom metal cabinet holds 10 boxes of sensors and/or service kits for easy access in the shop. Open the front of the box and pull out individual kits as needed. Make TPMS service easier for your shop!



AN INDUSTRY FIRST

universal service kits - make it easy

Challenges for shops:

- There are many different types of OE Replacement Service Kits necessary to cover all the vehicles in the global passenger car market
- This means too many parts to stock which equals too much money in inventory
- Technician training is difficult

Benefits of our Universal Kits:

- Reduction in SKUs equals a reduction in dead stock
- Simplification helps speed up the maintenance and training process
- Add bottom line and avoid lost sales from not having the right kits!

How did we do it?

- Through extensive research, we have identified the commonalities between the majority of TPMS sensors and their original fit service kits
- We developed a single service kit SKU that works for 97% of the metal valve stem TPMS sensors in the North American market
- We provide a single service kit SKU that works for 75% of the rubber snap-in valve stem TPMS sensors in the North American market

2 kits = 94% market coverage



how it works

- For most metal valve stems, utilize the U1 kit. Using the U1 instructions (shown at right), select the correct components needed for the sensor and discard the unused components.
- For most rubber snap-in valves, utilize the U2 kit. Our universal rubber snap-in valve fits vehicles like Chrysler, Ford, GM, Honda, Subaru, Volvo and others.



(LEFT) Individual component bag

(RIGHT) Front opening dispensing box



Part No.	Description	Components	Pieces Per Box
0401-0022-482	U1 - Universal metal valve kit	Universal nut, universal washer, #1 grommet #2 grommet, valve core and valve cap	20 kits per box
0401-0022-481	U2 - Universal rubber snap-in kit	Snap-in valve & torx screw	20 kits per box

Installation instructions

Each U1 kit includes all shown below:

ALWAYS REPLACE THESE ITEMS



Valve core



Valve nut



Valve cap

CHOOSE AND REPLACE THESE ITEMS ACCORDINGLY



Large grey seal

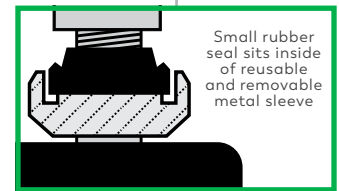
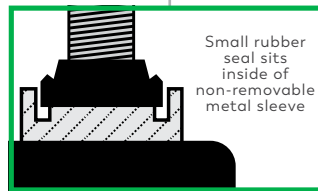
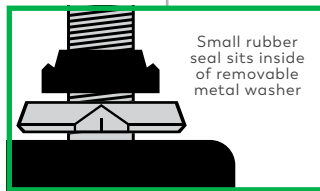
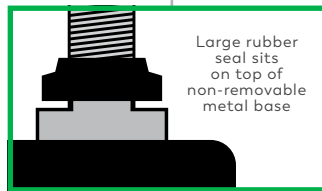
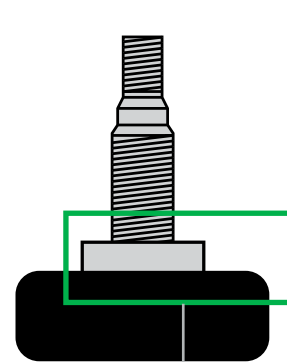


Metal washer






Small black seal

START HERE:
Once the sensor is removed from the wheel, properly identify the components necessary to service the unit.



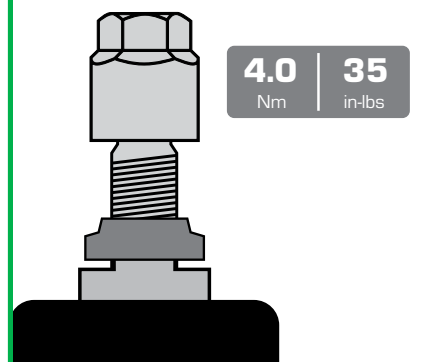
U1-1

USE	DO NOT USE	DO NOT USE
		




Valve core

0.35	3
Nm	in-lbs

4.0	35
Nm	in-lbs



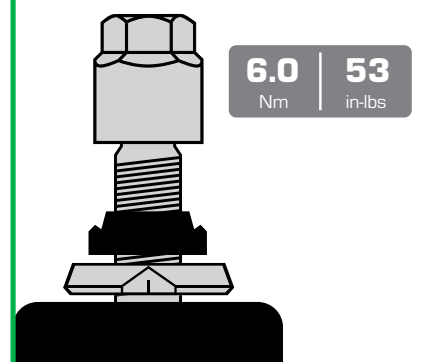
U1-2

DO NOT USE	USE	USE
		




Valve core

0.35	3
Nm	in-lbs

6.0	53
Nm	in-lbs



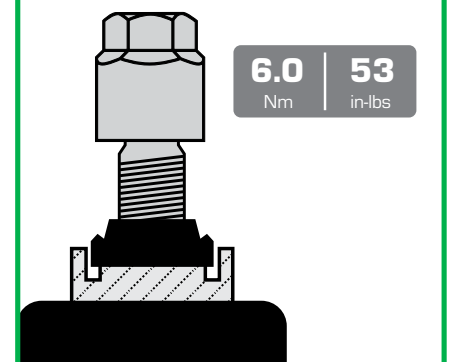
U1-3

DO NOT USE	DO NOT USE	USE
		

Valve core

0.35	3
Nm	in-lbs

6.0	53
Nm	in-lbs



1997-2023

Sensor & service kit application guide

How to use this guide

To help ensure customer satisfaction, vehicle safety, and government compliance, it is important that the correct TPMS replacement components are used on all wheel types. For wheels with the original TPMS sensors still installed, you can use this guide to help you properly identify which ALLIGATOR SKUs will help you successfully complete a full sensor replacement or a simple sensor valve rebuild.

Notes:

- Vehicle and rim manufacturer requirements, as well as state and local inspection laws, must always be observed
- Applications provided in this guide are for reference only and may not be exhaustive or apply to all make and model options
- This guide was printed in October 2022 and applications are added weekly to our database. If you do not see an application you are looking for, please utilize our online lookup which is the most current version of our live application data.
- All application information within is subject to change without notice
- ALLIGATOR assumes no liability for loss or damage resulting from the incorrect or deficient installation of TPMS components or because of a failure to observe applicable associated requirements.
- ALLIGATOR recommends that all TPMS components be installed by a trained professional with the proper tools.

Quick key

- 2023** = New 2023 Models! Note: guide printed Oct 2022
- 315** = OEM Sensor utilized 315 MHz frequency range
- 433** = OEM Sensor utilized 433 MHz frequency range
- 591132** = Use 591132 (BLUE) metal valve sensor (OEM valve was metal)
- 591134** = Use 591134 (RED) rubber valve sensor (OEM valve was rubber)
- U1-1** = Utilizes U1 service kit SKU 0401-0022-482 with instructions #1
- U1-2** = Utilizes U1 service kit SKU 0401-0022-482 with instructions #2
- U1-3** = Utilizes U1 service kit SKU 0401-0022-482 with instructions #3
- U2** = Utilizes U2 service kit SKU 0401-0022-481 or 591320

Nm (In-lbs) = Newton meters (Inch Pounds) of Torque

NR = Not Replaceable - Component (stem) cannot be replaced

OEM Service Kit = Alligator SKU that matches the OE SKU

OEM Valve = Alligator SKU that matches the OE SKU

Make	Model	Sub model / Qualifier Notes	Start Year	End Year	RF	RS Sensor	RS+ Sensor	Valve for OEM Sensor	Service Kit for OEM Sensor	Service Kit Torque Nm (In-lbs)	Universal Kit for OEM Sensor	Universal Kit Torque Nm (In-lbs)
Acura	CSX	All	2008	2011	315	590882	591132	None	591313	4 (35)	U1-1	4 (35)
Acura	ILX	All	2013	2018	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Acura	ILX	All	2019	2022	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Acura	MDX	All	2004	2006	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Acura	MDX	All	2007	2013	315	590882	591132	None	591306	4 (35)	U1-1	4 (35)
Acura	MDX	All	2014	2020	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Acura	MDX	All	2022	2022	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Acura	NSX	All	2017	2018	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Acura	NSX	All	2019	2022	433	590822	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Acura	RDX	All	2007	2012	315	590882	591132	None	591306	4 (35)	U1-1	4 (35)
Acura	RDX	All	2013	2018	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Acura	RDX	Clamp-In Valve	2019	2019	315	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Acura	RDX	Clamp-In Valve	2020	2021	433	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Acura	RDX	Snap-In Valve	2021	2021	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Acura	RL	All	2005	2008	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Acura	RL	All	2009	2012	315	590882	591132	None	591313	4 (35)	U1-1	4 (35)
Acura	RLX	All	2014	2015	315	590882	591132	None	591313	4 (35)	U1-1	4 (35)
Acura	RLX	All	2016	2020	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Acura	TL	All	2006	2008	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Acura	TL	All	2009	2014	315	590882	591132	None	591313	4 (35)	U1-1	4 (35)
Acura	TLX	All	2015	2017	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Acura	TLX	All	2018	2019	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Acura	TLX	All	2020	2020	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Acura	TLX	All	2021	2022	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Acura	TSX	All	2007	2014	315	590882	591132	None	591306	4 (35)	U1-1	4 (35)
Acura	ZDX	All	2010	2013	315	590882	591132	None	591312	4 (35)	U1-1	4 (35)
Alfa Romeo	4C	All	2015	2020	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Alfa Romeo	Giulia	All	2017	2022	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Alfa Romeo	Stelvio	All	2018	2022	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Aston Martin	DB9	433 MHz	2010	2016	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Aston Martin	DB11	All	2017	2019	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Aston Martin	DBS	433 MHz	2010	2012	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Aston Martin	Rapide	All	2010	2019	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Aston Martin	V12 Vantage	433 MHz	2010	2017	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Aston Martin	V8 Vantage	All	2010	2017	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Aston Martin	Vanquish	433 MHz	2014	2018	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Aston Martin	Vantage	All	2018	2019	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	A3	Direct TPMS	2008	2012	315	590882	591132	None	591318	8 (71)	U1-3	6 (53)
Audi	A4	Direct TPMS	2002	2008	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	A4	Direct TPMS (315 MHz)	2009	2012	315	590882	591132	None	591318	8 (71)	U1-3	6 (53)
Audi	A4	Direct TPMS (433 MHz)	2012	2012	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	A5	Direct TPMS	2008	2012	315	590882	591132	None	591318	8 (71)	U1-3	6 (53)
Audi	A6	Direct TPMS (315 MHz)	2002	2004	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	A6	Direct TPMS	2005	2011	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	A6	Direct TPMS (To 3/30/20)	2019	2020	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	A6	Direct TPMS (From 3/30/20)	2020	2022	433	590883	591132	Note 1	Note 1	4 (35)	Note 4	
Audi	A7	Direct TPMS (To 03/30/20)	2019	2020	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	A7	Direct TPMS (From 3/30/20)	2020	2022	433	590883	591132	Note 1	Note 1	4 (35)	Note 4	
Audi	A8	Direct TPMS (315 MHz)	2000	2003	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	A8	Direct TPMS (433 MHz)	2004	2011	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	A8	Direct TPMS	2019	2020	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	A8	Direct TPMS	2021	2022	433	590883	591132	Note 1	Note 1	4 (35)	Note 4	



Make	Model	Sub model / Qualifier Notes	Start Year	End Year	RF	RS Sensor	RS+ Sensor	Valve for OEM Sensor	Service Kit for OEM Sensor	Service Kit Torque Nm (In-lbs)	Universal Kit for OEM Sensor	Universal Kit Torque Nm (In-lbs)
Audi	Allroad Quattro	Direct TPMS (315 MHz)	2001	2005	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	e-tron	Direct TPMS	2019	2020	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	e-tron	Direct TPMS	2021	2022	433	590883	591132	Note 1	Note 1	4 (35)	Note 4	
Audi	Q5	Direct TPMS	2009	2012	315	590882	591132	None	591318	8 (71)	U1-3	6 (53)
Audi	Q7	Direct TPMS	2007	2012	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	Q7	Direct TPMS	2022	2022	433	590883	591132	Note 1	Note 1	4 (35)	Note 4	
Audi	Q8	Direct TPMS (To 3/30/20)	2019	2020	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	Q8	Direct TPMS (From 3/30/20)	2020	2022	433	590883	591132	Note 1	Note 1	4 (35)	Note 4	
Audi	R8	Direct TPMS	2008	2018	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	R8	Direct TPMS	2020	2022	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	RS3	433 MHz	2018	2020	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	RS3	433 MHz	2022	2022	433	590883	591132	Note 1	Note 1	4 (35)	Note 4	
Audi	RS4	Direct TPMS	2007	2008	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	RS5	433 MHz	2018	2020	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	RS5	433 MHz	2021	2022	433	590883	591132	Note 1	Note 1	4 (35)	Note 4	
Audi	RS6	Direct TPMS (315 MHz)	2003	2003	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	RS6	Direct TPMS	2021	2022	433	590883	591132	Note 1	Note 1	4 (35)	Note 4	
Audi	RS7	433 MHz	2014	2018	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	RS7	Direct TPMS	2021	2022	433	590883	591132	Note 1	Note 1	4 (35)	Note 4	
Audi	SQ5	Direct TPMS (433 MHz)	2014	2016	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	SQ5	Direct TPMS (433 MHz)	2023	2023	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	SQ7	Direct TPMS	2022	2022	433	590883	591132	Note 1	Note 1	4 (35)	Note 4	
Audi	SQ7	Direct TPMS (To 3/30/20)	2020	2020	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	SQ8	Direct TPMS (From 3/30/20)	2020	2022	433	590883	591132	Note 1	Note 1	4 (35)	Note 4	
Audi	S4	Direct TPMS	2004	2009	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	S4	Direct TPMS	2010	2012	315	590882	591132	None	591318	8 (71)	U1-3	6 (53)
Audi	S5	Direct TPMS	2008	2012	315	590882	591132	None	591318	8 (71)	U1-3	6 (53)
Audi	S6	Direct TPMS	2007	2011	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	S6	Direct TPMS	2020	2020	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	S6	Direct TPMS	2021	2022	433	590883	591132	Note 1	Note 1	4 (35)	Note 4	
Audi	S7	Direct TPMS (To 3/30/20)	2020	2020	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	S7	Direct TPMS (From 3/30/20)	2020	2022	433	590883	591132	Note 1	Note 1	4 (35)	Note 4	
Audi	S8	Direct TPMS (315 MHz)	2001	2003	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	S8	Direct TPMS	2007	2009	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	S8	Direct TPMS	2013	2018	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	S8	Direct TPMS	2020	2020	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	S8	Direct TPMS	2021	2022	433	590883	591132	Note 1	Note 1	4 (35)	Note 4	
Audi	TT	Direct TPMS	2008	2012	315	590882	591132	None	591318	8 (71)	U1-3	6 (53)
Audi	TT	Direct TPMS	2014	2014	315	590882	591132	None	591318	8 (71)	U1-3	6 (53)
Audi	TT	Direct TPMS (To 10/19/20)	2018	2021	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	TT	Direct TPMS (From 10/19/20)	2021	2021	433	590883	591132	Note 1	Note 1	4 (35)	Note 4	
Audi	TT RS Quattro	To 10/19/2020	2021	2021	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Audi	TT RS Quattro	From 10/19/2020	2021	2022	433	590883	591132	Note 1	Note 1	4 (35)	Note 4	
Bentley	Arnage	All	2008	2009	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Bentley	Azure	All	2007	2010	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Bentley	Azure	All	2012	2014	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Bentley	Bentayga	433 MHz	2017	2021	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Bentley	Brooklands	All	2008	2009	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Bentley	Continental	433 MHz	2003	2021	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Bentley	Flying Spur	All	2014	2020	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Bentley	Mulsanne	All	2011	2019	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
BMW	1 Series	All	2008	2013	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
BMW	2 Series	To 03/14 (with Huf / Beru sensor)	2014	2014	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
BMW	2 Series	From 03/14 (with Conti sensor)	2014	2021	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
BMW	2 Series	with Huf / Beru sensor	2020	2022	433	590883	591132	Note 1	Note 1	4 (35)	Note 4	
BMW	3 Series	315 MHz	2000	2002	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
BMW	3 Series	433 MHz	2000	2003	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
BMW	3 Series	To 02/14 (with Huf / Beru sensor)	2007	2014	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
BMW	3 Series	From 02/14 (with Conti sensor)	2014	2019	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
BMW	3 Series	with Huf / Beru sensor	2019	2023	433	590883	591132	Note 1	Note 1	4 (35)	Note 4	
BMW	3 Series	with Schrader sensor	2022	2022	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
BMW	4 Series	To 02/14 (with Huf / Beru sensor)	2014	2014	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
BMW	4 Series	From 03/14 (with Conti sensor)	2014	2020	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
BMW	4 Series	with Huf / Beru sensor	2021	2023	433	590883	591132	Note 1	Note 1	4 (35)	Note 4	
BMW	4 Series	with Schrader sensor	2022	2022	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
BMW	5 Series	315 MHz	2000	2002	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
BMW	5 Series	433 MHz (with Huf / Beru sensor)	2002	2017	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
BMW	5 Series	with Schrader sensor	2017	2022	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
BMW	6 Series	Except Gran Turismo	2006	2019	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
BMW	6 Series	Gran Turismo	2018	2019	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
BMW	7 Series	315 MHz	2000	2002	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
BMW	7 Series	433 MHz	2002	2015	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
BMW	7 Series	All	2016	2022	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
BMW	8 Series	All	2020	2023	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
BMW	ActiveHybrid 3	To 02/14 (with Huf / Beru sensor)	2013	2014	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
BMW	ActiveHybrid 3	From 03/2014 (with Conti sensor)	2014	2015	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
BMW	ActiveHybrid 5	All	2012	2016	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
BMW	ActiveHybrid 7	All	2013	2015	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
BMW	Alpina	All	2007	2008	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
BMW	Alpina	with Huf / Beru sensor	2011	2019	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
BMW	Alpina	with Schrader sensor	2017	2022	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
BMW	i3, i8	All	2014	2020	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
BMW	i3	All	2021	2021	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
BMW	i4, iX	All	2022	2022	433	590883	591132	Note 1	Note 1	4 (35)	Note 4	
BMW	M2	To 02/14 (with Huf / Beru sensor)	2014	2014	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
BMW	M2	From 03/14 (with Contisensor)	2014	2021	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
BMW	M2	with Huf / Beru sensor	2020	2022	433	590883	591132	Note 1	Note 1	4 (35)	Note 4	
BMW	M2	with Continental Sensor	2023	2023	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
BMW	M3	All	2008	2013	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
BMW	M3	All	2015	2018	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
BMW	M3	with Huf / Beru sensor	2020	2023	433	590883	591132	Note 1	Note 1	4 (35)	Note 4	
BMW	M3	with Schrader sensor	2021	2022	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
BMW	M4	All	2015	2020	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
BMW	M4	with Huf / Beru sensor	2021	2023	433	590883	591132	Note 1	Note 1	4 (35)	Note 4	
BMW	M4	with Schrader sensor	2021	2022	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)

- Note 1: Valve kit comes with different lengths (590801-59085)
- Note 2: U2/591320 stem = stem attaches via screw
No valve available = stem attaches via clip
- Note 3: 591305 = valve with a Torx screw
591309 = square bolt
- Note 4: Universal Service Kit nut is different thread count than OEM
* OE Stem with parallel flats

Notice: per Federal Motor Vehicle Safety Standard (FMVSS) 138, it is a violation of the law for a "...manufacturer, distributor, dealer, or motor vehicle repair business..." to "...knowingly make inoperative any part of a device or element of design installed on or in a motor vehicle or motor vehicle equipment in compliance with an applicable motor vehicle safety standard" such as TPMS. Alligator TPMS components are designed to monitor tire pressure only and are not designed to provide warning of sudden critical tire damage and/or blowouts caused by external effects. The driver should react promptly to any warning and correct the problem. Tires can fail for other reasons besides low pressure or overloading. Always be on the alert for any other tire problems as indicated by unusual noises, vibrations, uneven tread wear, or bulges on the tire. If any of these symptoms occur, have the tires checked immediately by a professional.

TPMS Application Guide

Make	Model	Sub model / Qualifier Notes	Start Year	End Year	RF	RS Sensor	RS+ Sensor	Valve for OEM Sensor	Service Kit for OEM Sensor	Service Kit Torque Nm (In-lbs)	Universal Kit for OEM Sensor	Universal Kit Torque Nm (In-lbs)
BMW	M5	All	2006	2010	433	590883	591132	Note 1	Note 3	4 (35)	U-1	4 (35)
BMW	M5	All	2012	2016	433	590883	591132	Note 1	Note 3	4 (35)	U-1	4 (35)
BMW	M5	All	2018	2022	433	590883	591132	None	591312	4-8 (35-71)	U-2	6 (53)
BMW	M6	All	2006	2010	433	590883	591132	Note 1	Note 3	4 (35)	U-1	4 (35)
BMW	M6	All	2012	2019	433	590883	591132	Note 1	Note 3	4 (35)	U-1	4 (35)
BMW	M7	All	2017	2022	433	590883	591132	None	591312	4-8 (35-71)	U-2	6 (53)
BMW	M8	All	2019	2023	433	590883	591132	None	591312	4-8 (35-71)	U-2	6 (53)
BMW	X1	All	2012	2015	433	590883	591132	Note 1	Note 3	4 (35)	U-1	4 (35)
BMW	X1	All	2016	2022	433	590883	591132	591326	591315/316	8 (71)	U-3	6 (53)
BMW	X2	All	2018	2023	433	590883	591132	591326	591315/316	8 (71)	U-3	6 (53)
BMW	X3	All	2006	2017	433	590883	591132	Note 1	Note 3	4 (35)	U-1	4 (35)
BMW	X3	All	2018	2022	433	590883	591132	None	591312	4-8 (35-71)	U-2	6 (53)
BMW	X4	All	2015	2017	433	590883	591132	Note 1	Note 3	4 (35)	U-1	4 (35)
BMW	X4	All	2018	2022	433	590883	591132	None	591312	4-8 (35-71)	U-2	6 (53)
BMW	X5	All	2000	2013	433	590883	591132	Note 1	Note 3	4 (35)	U-1	4 (35)
BMW	X5	All	2014	2018	433	590883	591132	591326	591315/316	8 (71)	U-3	6 (53)
BMW	X5	All	2019	2022	433	590883	591132	None	591312	4-8 (35-71)	U-2	6 (53)
BMW	X6	All	2008	2014	433	590883	591132	Note 1	Note 3	4 (35)	U-1	4 (35)
BMW	X6	All	2015	2019	433	590883	591132	591326	591315/316	8 (71)	U-3	6 (53)
BMW	X6	All	2020	2022	433	590883	591132	None	591312	4-8 (35-71)	U-2	6 (53)
BMW	X7	All	2019	2022	433	590883	591132	None	591312	4-8 (35-71)	U-2	6 (53)
BMW	Z4	All	2006	2016	433	590883	591132	Note 1	Note 3	4 (35)	U-1	4 (35)
BMW	Z4	All	2019	2022	433	590883	591132	Note 1	Note 1	4 (35)	Note 4	4 (35)
Bugatti	Veyron	433 MHz	2009	2015	433	590883	591132	Note 1	Note 3	4 (35)	U-1	4 (35)
Buick	Allure	All	2007	2008	315	590882	591132	None	591301	7 (62)	U-3	6 (53)
Buick	Allure	All	2009	2010	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Buick	Cascada	All	2016	2017	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Buick	Cascada	433 MHz	2018	2019	433	590883	591132	None	591312	4-8 (35-71)	U-2	6 (53)
Buick	Enclave	Clamp-In Valve	2008	2008	315	590882	591132	None	591301	7 (62)	U-3	6 (53)
Buick	Enclave	315 MHz (Snap-In Valve)	2008	2017	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Buick	Enclave	433 MHz	2018	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Buick	Encore	315 MHz	2013	2022	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Buick	Encore GX	433 MHz	2020	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Buick	Envision	315 MHz	2016	2021	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Buick	Envision	433 MHz	2021	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Buick	LaCrosse	Clamp-In Valve	2007	2007	315	590882	591132	None	591301	7 (62)	U-3	6 (53)
Buick	LaCrosse	Snap-In Valve	2007	2016	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Buick	LaCrosse	433 MHz	2017	2019	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Buick	Lucerne	All	2007	2011	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Buick	Rainier	All	2007	2007	315	590882	591132	NR	591303	7 (62)	U-1	4 (35)
Buick	Regal	All	2011	2017	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Buick	Verano	433 MHz	2018	2020	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Buick	Verano	All	2012	2017	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Cadillac	ATS	Clamp-In Valve	2013	2013	315	590882	591132	591326	591315/316	8 (71)	U-3	6 (53)
Cadillac	ATS	Clamp-In Valve	2014	2015	315	590882	591132	NR	591303	7 (62)	U-1	4 (35)
Cadillac	ATS	Clamp-In Valve	2016	2019	315	590882	591132	None	591312	4-8 (35-71)	U-2	6 (53)
Cadillac	ATS	Snap-In Valve	2013	2019	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Cadillac	CT4	Clamp-In Valve	2020	2023	433	590883	591132	None	591312	4-8 (35-71)	U-2	6 (53)
Cadillac	CT4	Snap-In Valve	2020	2022	433	590881	591134	None	None	None	None	None
Cadillac	CT5	Clamp-In Valve	2020	2023	433	590883	591132	None	591312	4-8 (35-71)	U-2	6 (53)
Cadillac	CT5	Snap-In Valve	2020	2023	433	590881	591134	None	None	None	None	None
Cadillac	CT6	433 MHz	2016	2020	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Cadillac	CTS	Direct TPMS	2004	2007	315	590882	591132	NR	591303	7 (62)	U-1	4 (35)
Cadillac	CTS	Clamp-In Valve	2008	2015	315	590882	591132	NR	591303	7 (62)	U-1	4 (35)
Cadillac	CTS	Clamp-In Valve	2016	2019	315	590882	591132	None	591312	4-8 (35-71)	U-2	6 (53)
Cadillac	CTS	Snap-In Valve	2008	2019	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Cadillac	DeVille	All (TPMS Tool Required for Relearn)	2001	2005	315	590882	591132	NR	591304	4-7 (35-62)	U-1	4 (35)
Cadillac	DTS	All	2006	2006	315	590882	591132	NR	591303	7 (62)	U-1	4 (35)
Cadillac	DTS	All	2007	2011	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Cadillac	ELR	All	2014	2016	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Cadillac	Escalade	All	2004	2006	315	590882	591132	NR	591303	7 (62)	U-1	4 (35)
Cadillac	Escalade	Clamp-In Valve	2007	2007	315	590882	591132	NR	591311	7 (62)	U-1	4 (35)
Cadillac	Escalade	315 MHz (Snap-In Valve)	2007	2020	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Cadillac	Escalade	All	2021	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Cadillac	Lynrik	All	2023	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Cadillac	Seville	All (TPMS Tool Required for Relearn)	2001	2004	315	590882	591132	NR	591304	4-7 (35-62)	U-1	4 (35)
Cadillac	SRX	All	2004	2006	315	590882	591132	NR	591303	7 (62)	U-1	4 (35)
Cadillac	SRX	All	2007	2016	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Cadillac	STS	Clamp-In Valve	2005	2009	315	590882	591132	NR	591303	7 (62)	U-1	4 (35)
Cadillac	STS	Snap-In Valve	2009	2011	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Cadillac	XLR	All	2004	2009	315	590882	591132	NR	591303	7 (62)	U-1	4 (35)
Cadillac	XT4	315 MHz	2019	2020	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Cadillac	XT4	433 MHz	2019	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Cadillac	XT5	433 MHz	2017	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Cadillac	XT5	315 MHz	2023	2023	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Cadillac	XT6	433 MHz	2020	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Cadillac	XTS	All	2013	2019	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Avalanche	All	2004	2006	315	590882	591132	NR	591303	7 (62)	U-1	4 (35)
Chevrolet	Avalanche	Clamp-In Valve	2007	2007	315	590882	591132	NR	591311	7 (62)	U-1	4 (35)
Chevrolet	Avalanche	Snap-In Valve	2007	2013	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Aveo	All	2007	2011	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Blazer	433 MHz	2019	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Bolt EV	315 MHz	2017	2021	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Camaro	Clamp-In Valve	2010	2015	315	590882	591132	NR	591303	7 (62)	U-1	4 (35)
Chevrolet	Camaro	Snap-In Valve	2010	2015	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Camaro	Snap-In Valve	2016	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Camaro	Clamp-In Valve	2016	2023	433	590883	591132	None	591312	4-8 (35-71)	U-2	6 (53)
Chevrolet	Caprice	All	2011	2013	315	590882	591132	NR	591303	7 (62)	U-1	4 (35)
Chevrolet	Caprice	315 MHz	2014	2015	315	590882	591132	None	591312	4-8 (35-71)	U-2	6 (53)
Chevrolet	Caprice	315 MHz	2016	2017	315	590882	591132	None	591312	4-8 (35-71)	U-2	6 (53)
Chevrolet	Captiva Sport	All	2012	2015	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	City Express	All	2015	2018	315	590882	591132	NR	591312	4-8 (35-71)	U-3	6 (53)
Chevrolet	Cobalt	Clamp-In Valve	2008	2010	315	590882	591132	NR	591303	7 (62)	U-1	4 (35)
Chevrolet	Cobalt	Snap-In Valve	2008	2010	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Colorado	All	2007	2012	315	590882	591132	NR	591307	4 (35)	U-1	4 (35)
Chevrolet	Colorado	315 MHz	2015	2022	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Corvette	All	1997	2000	315	590882	591132	NR	None	None	None	None
Chevrolet	Corvette	All	2001	2004	315	590882	591132	NR	591304	4-7 (35-62)	U-1	4 (35)
Chevrolet	Corvette	All	2005	2013	315	590882	591132	NR	591303	7 (62)	U-1	4 (35)
Chevrolet	Corvette	All	2014	2019	433	590883	591132	None	591312			

UNIVERSAL SERVICE KITS SHADOW DRAWING APP POSTER

THE CENTER SPREAD OF THIS BOOKLET IS A WALL APPLICATION POSTER

- Carefully remove the poster from the booklet and hang it in your shop to help with installation identification!
- Once a sensor is removed from the assembly, hold the sensor head up to the shadow drawings and find a match. Once a match is made, follow the instructions as shown.



UNIVERSAL

SCHRADER

Cadillac, Chevrolet,
Chrysler, Dodge,
Jeep, Nissan,
Mitsubishi &
Subaru

PACIFIC
Lexus & Toyota

HUF
Audi, Hyundai, Kia, Mercedes
Porsche & Volkswagen

SCHRADER
Buick, Cadillac, Chevrolet,
GMC & Isuzu

PACIFIC
Acura, Lexus & Honda

HUF
Audi, BMW, Mini, Porsche
& Volkswagen

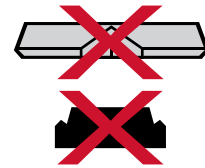
TRW
Acura, Honda,
Hyundai & Kia

PACIFIC
Honda, Infiniti, Lexus,
Nissan, Scion & Toyota

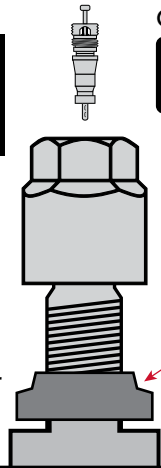
TRW
Honda, Hyundai & Kia

HUF
Audi, Porsche &
Volkswagen

U1-1



Check the sensor
shape above



TPMS SENSOR

Core T

0.3
Nm

Nut

4
N

U:
gr

How to use this guide:

Use the TPMS sensor shadow drawings as shown to determine the correct service kit components when using the U1 Universal Service Kit. Once your TPMS Sensor is removed from the assembly, hold it up to the shadows to determine a match. Once a match is found, follow the instructions shown in the corresponding box. The components shown with a red **X** are not to be used and can be discarded. Always utilize the torque measurements as shown. If your sensor does not match any of the shadow drawings shown, then utilize the standard application guide. NOTE: Shadow drawings for general identification only and only the most popular sensors are shown.



For the most up-to-date
application data, please visit
alligator-tpms.com

TPMS SERVICE KITS

CONTINENTAL
Audi, Buick, Chevy, Chrysler
Dodge, GMC, Jaguar, Jeep,
Volkswagen & Volvo

CONTINENTAL
Acura, BMW, Cadillac,
Chrysler, Dodge, Hyundai,
Infiniti, Jeep, Kia, Mazda,
Nissan & Volvo

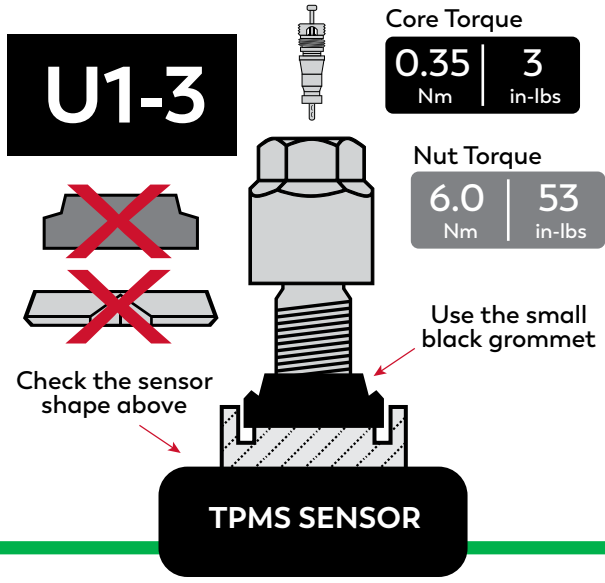
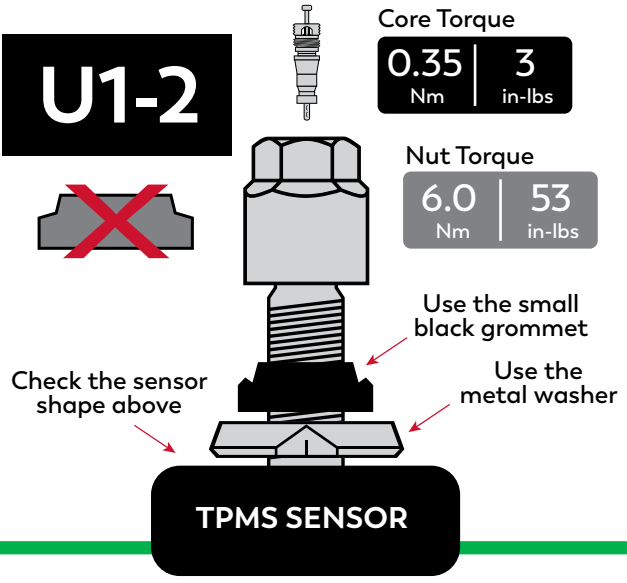
SCHRADER
Cadillac, Chevrolet,
Dodge & Mercedes



Cadillac, Chevrolet,
Chrysler, Dodge,
GMC, Jeep &
Mitsubishi

CONTINENTAL
Dodge & Mercedes

SCHRADER
Cadillac, Chevrolet, Chrysler,
Dodge, Jeep, Mercedes
& Mitsubishi



Proper Installation Method:

- 1. REMOVE** - Remove the TPMS Sensor from the rim and check the shadow drawings as shown to match the shape.
- 2. REPLACE** - Once a sensor shape match has been found, replace the required components as shown on the diagram.
- 3. REINSTALL** - Reinstall the sensor onto the rim using the proper torque measurements for each component as show.

TPMS TECH SUPPORT
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UNIVERSAL SERVICE KITS SHADOW DRAWING APP POSTER

THE CENTER SPREAD OF THIS BOOKLET IS A WALL APPLICATION POSTER

- Carefully remove the poster from the booklet and hang it in your shop to help with installation identification!
- Once a sensor is removed from the assembly, hold the sensor head up to the shadow drawings and find a match. Once a match is made, follow the instructions as shown.



Make	Model	Sub model / Qualifier Notes	Start Year	End Year	RF	RS Sensor	RS+ Sensor	Valve for OEM Sensor	Service Kit for OEM Sensor	Service Kit Torque Nm (In-lbs)	Universal Kit for OEM Sensor	Universal Kit Torque Nm (In-lbs)
Chevrolet	Cruze	433 MHz	2016	2019	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Equinox	All	2007	2009	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Chevrolet	Equinox	315 MHz	2010	2022	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Equinox	433 MHz	2023	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Express Van (Full-Size)	All	2008	2008	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Chevrolet	Express Van (Full-Size)	All	2009	2023	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	HHR	Clamp-In Valve	2008	2011	315	590882	591132	NR	591303	7 (62)	U1-1	4 (35)
Chevrolet	HHR	Snap-In Valve	2008	2011	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Impala	Clamp-In Valve	2006	2007	315	590882	591132	NR	591303	7 (62)	U1-1	4 (35)
Chevrolet	Impala	Snap-In Valve	2006	2013	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Impala	315 MHz	2014	2020	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Impala	433 MHz	2014	2016	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Impala Limited	All	2014	2016	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Malibu	Clamp-In Valve	2008	2008	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Chevrolet	Malibu	Snap-In Valve	2008	2015	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Malibu	433 MHz	2016	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Malibu	315 MHz	2023	2023	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Malibu Limited	All	2016	2016	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Monte Carlo	Clamp-In Valve	2006	2007	315	590882	591132	NR	591303	7 (62)	U1-1	4 (35)
Chevrolet	Monte Carlo	Snap-In Valve	2006	2007	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Oriando	All	2012	2014	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Silverado	All	2004	2006	315	590882	591132	NR	591303	7 (62)	U1-1	4 (35)
Chevrolet	Silverado	All	2007	2016	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Silverado	315 MHz	2017	2019	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Silverado	433 MHz Snap-in	2019	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Silverado	Clamp-In Valve	2020	2022	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Chevrolet	Silverado Trailer	11.3mm / 0.453-inch Valve Hole	2019	2021	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Chevrolet	Sonic	All	2012	2015	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Sonic	315 MHz	2016	2020	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Spark	All	2013	2015	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Spark	315 MHz	2016	2022	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	SS	All	2014	2015	315	590882	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Chevrolet	SS	All	2016	2017	315	590882	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Chevrolet	SSR	All	2006	2006	315	590882	591132	NR	591303	7 (62)	U1-1	4 (35)
Chevrolet	Suburban	All	2004	2006	315	590882	591132	NR	591303	7 (62)	U1-1	4 (35)
Chevrolet	Suburban	Clamp-In Valve	2007	2007	315	590882	591132	NR	591311	7 (62)	U1-1	4 (35)
Chevrolet	Suburban	Snap-In Valve	2007	2016	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Suburban	315 MHz	2017	2020	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Suburban	All	2021	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Tahoe	All	2004	2006	315	590882	591132	NR	591303	7 (62)	U1-1	4 (35)
Chevrolet	Tahoe	Clamp-In Valve	2007	2007	315	590882	591132	NR	591311	7 (62)	U1-1	4 (35)
Chevrolet	Tahoe	Snap-In Valve	2007	2017	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Tahoe	315 MHz	2018	2020	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Tahoe	All	2021	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Trailblazer	All	2006	2009	315	590882	591132	NR	591303	7 (62)	U1-1	4 (35)
Chevrolet	Trailblazer	All	2021	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Traverse	All	2009	2014	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Traverse	315 MHz	2015	2017	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Traverse	433 MHz	2018	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Trax	All	2013	2015	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Trax	315 MHz	2016	2022	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Uplander	All	2008	2009	315	590882	591132	NR	591303	7 (62)	U1-1	4 (35)
Chevrolet	Volt	All	2011	2015	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Volt	315 MHz	2016	2018	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chevrolet	Volt	433 MHz	2017	2019	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chrysler	200	All	2011	2014	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Chrysler	200	All	2015	2017	433	590881	591134	Note 2	Note 2	1.4 (12) Screw	Note 2	1.4 (12) Screw
Chrysler	300	All	2005	2007	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Chrysler	300	All	2008	2008	433	590883	591132	None	591301	7 (62)	U1-3	6 (53)
Chrysler	300	Snap-In Valve	2009	2021	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chrysler	300	Clamp-In Valve	2009	2014	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Chrysler	300	All	2022	2022	433	590883	591132	Note 1	Note 1	4 (35)	None	
Chrysler	300M	All (TPMS Tool Required for Relearn)	2002	2004	433	590883	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Chrysler	Aspen	All	2007	2009	315	590882	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Chrysler	Concorde	All (TPMS Tool Required for Relearn)	2002	2004	433	590883	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Chrysler	Crossfire	All (TPMS Tool Required for Relearn)	2004	2008	433	590883	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Chrysler	Grand Caravan	All	2021	2022	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chrysler	Pacifica	433 MHz	2004	2004	433	590883	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Chrysler	Pacifica	315 MHz	2004	2008	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Chrysler	Pacifica	All	2017	2022	433	590881	591134	Note 2	Note 2	1.4 (12) Screw	Note 2	1.4 (12) Screw
Chrysler	Prowler	433 MHz (TPMS Tool Required for Relearn)	2002	2002	433	590883	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Chrysler	PT Cruiser	All	2008	2010	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Chrysler	Sebring	All	2007	2010	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Chrysler	Town & Country	All (TPMS Tool Required for Relearn)	2002	2003	433	590883	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Chrysler	Town & Country	All	2004	2007	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Chrysler	Town & Country	To 11/2009	2008	2010	433	590883	591132	None	591301	7 (62)	U1-3	6 (53)
Chrysler	Town & Country	From 11/2009	2010	2010	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Chrysler	Town & Country	All	2011	2016	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Chrysler	Voyager	All (TPMS Tool Required for Relearn)	2002	2003	433	590883	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Chrysler	Voyager	All	2020	2022	433	590881	591134	Note 2	Note 2	1.4 (12) Screw	Note 2	1.4 (12) Screw
Coda	Sedan	All	2012	2013	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Dodge	Avenger	All	2008	2010	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Dodge	Avenger	All	2011	2014	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Dodge	Caliber	All	2007	2010	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Dodge	Caliber	All	2011	2012	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Dodge	Caravan	All (TPMS Tool Required for Relearn)	2002	2003	433	590883	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Dodge	Caravan	All	2004	2007	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Dodge	Challenger	Clamp-In Valve	2008	2021	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Dodge	Challenger	Snap-In Valve	2010	2021	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Dodge	Challenger	All	2022	2022	433	590883	591132	Note 1	Note 1	4 (35)	None	
Dodge	Charger	All	2006	2007	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Dodge	Charger	All	2008	2008	433	590883	591132	None	591301	7 (62)	U1-3	6 (53)
Dodge	Charger	Clamp-In Valve	2009	2021	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Dodge	Charger	Snap-In Valve	2009	2021	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Dodge	Charger	All	2022	2022	433	590883	591132	Note 1	Note 1	4 (35)	None	

- Note 1: Valve kit comes with different lengths (590801-59085)
- Note 2: U2/591320 stem = stem attaches via screw
No valve available = stem attaches via clip
- Note 3: 591305 =

TPMS Application Guide

Make	Model	Sub model / Qualifier Notes	Start Year	End Year	RF	RS Sensor	RS+ Sensor	Valve for OEM Sensor	Service Kit for OEM Sensor	Service Kit Torque Nm (In-lbs)	Universal Kit for OEM Sensor	Universal Kit Torque Nm (In-lbs)
Dodge	Dakota	All	2008	2010	315	590882	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Dodge	Dart	All	2013	2016	433	590881	591134	Note 2	Note 2	1.4 (12) Screw	Note 2	1.4 (12) Screw
Dodge	Durango	All	2007	2009	315	590882	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Dodge	Durango	All	2011	2015	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Dodge	Durango	Snap-In Valve	2016	2023	433	590881	591134	Note 2	Note 2	1.4 (12) Screw	Note 2	1.4 (12) Screw
Dodge	Durango	Clamp-In Valve	2018	2022	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Dodge	Grand Caravan	All (TPMS Tool Required for Relearn)	2002	2003	433	590883	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Dodge	Grand Caravan	All	2004	2007	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Dodge	Grand Caravan	To 11/2009	2008	2010	433	590883	591132	None	591301	7 (62)	U1-3	6 (53)
Dodge	Grand Caravan	From 11/2009	2010	2010	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Dodge	Grand Caravan	All	2011	2020	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Dodge	Intrepid	All (TPMS Tool Required for Relearn)	2002	2004	433	590883	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Dodge	Journey	All	2009	2010	433	590883	591132	None	591301	7 (62)	U1-3	6 (53)
Dodge	Journey	Clamp-In Valve	2011	2011	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Dodge	Journey	Snap-In Valve	2011	2020	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Dodge	Magnum	All	2005	2007	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Dodge	Magnum	All	2008	2008	433	590883	591132	None	591301	7 (62)	U1-3	6 (53)
Dodge	Nitro	All	2007	2010	315	590882	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Dodge	Nitro	All	2011	2012	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Dodge	Ram 1500	All	2008	2008	315	590882	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Dodge	Ram 1500	All	2009	2009	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Dodge	Ram 2500	All	2008	2009	315	590882	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Dodge	Ram 1500/2500	All	2010	2010	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Dodge	Ram 3500	315 MHz	2008	2009	315	590882	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Dodge	Ram 3500	433 MHz	2009	2009	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Dodge	Sprinter	315 MHz	2007	2009	315	590882	591132	591322	591322	6 (53)	U1-1	4 (35)
Dodge	Viper	All (TPMS Tool Required for Relearn)	2003	2006	433	590883	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Dodge	Viper	All	2008	2010	433	590883	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Dodge	Viper	All	2013	2017	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Ferrari	458 Series	433 MHz	2010	2015	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Ferrari	488 Series	433 MHz	2016	2021	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Ferrari	599 Series	433 MHz	2008	2011	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Ferrari	612 Scaglietti	433 MHz	2008	2010	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Ferrari	812	433 MHz	2018	2021	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Ferrari	California	433 MHz	2009	2017	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Ferrari	F12	433 MHz	2013	2017	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Ferrari	F430	433 MHz	2008	2009	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Ferrari	FF	433 MHz	2012	2016	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Ferrari	GTCC4Lusso	433 MHz	2017	2020	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Ferrari	LaFerrari	433 MHz	2014	2017	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Ferrari	Portofino	433 MHz	2018	2021	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Fiat	124 Spider	Direct TPMS	2017	2020	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Fiat	500	All	2012	2017	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Fiat	500	Direct TPMS	2019	2019	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Fiat	500L	All	2014	2020	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Fiat	500X	All	2016	2021	433	590881	591134	Note 2	Note 2	1.4 (12) Screw	Note 2	1.4 (12) Screw
Ford	Bronco	315 MHz	2021	2023	315	590880	591134	591320*	591320*	1.4 (12) Screw	U2	1.4 (12) Screw
Ford	C-Max	All	2013	2018	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Ford	Corsair	All	2020	2022	315	590880	591134	None	None		None	
Ford	Crown Victoria	Band-Mounted Sensors	2007	2011	315	590880	591134	Not Required	None		None	
Ford	E-Series	Band-Mounted Sensors	2008	2010	315	590882	591132	Not Required	None		None	
Ford	E-Series	Snap-In Valve	2010	2023	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Ford	E-Series	All	2021	2022	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Ford	EcoSport	All	2018	2022	315	590880	591134	591320*	591320*	1.4 (12) Screw	U2	1.4 (12) Screw
Ford	Edge	Band-Mounted Sensors	2007	2010	315	590880	591134	Not Required	None		None	
Ford	Edge	315 MHz	2011	2023	315	590880	591134	591320*	591320*	1.4 (12) Screw	U2	1.4 (12) Screw
Ford	Escape	Band-Mounted Sensors	2006	2008	315	590880	591134	Not Required	None		None	
Ford	Escape	All	2009	2019	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Ford	Escape	All	2020	2023	315	590880	591134	None	None		None	
Ford	Expedition	All (TPMS Tool Required for Relearn)	2003	2004	433	590883	591132	NR	591302	5 (44)	U1-3	6 (53)
Ford	Expedition	All (TPMS Tool Required for Relearn)	2005	2006	315	590882	591132	NR	591302	5 (44)	U1-3	6 (53)
Ford	Expedition	Band-Mounted Sensors	2007	2010	315	590880	591134	NR	None		None	
Ford	Expedition	All	2011	2017	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Ford	Expedition	All	2018	2023	315	590880	591134	None	None		None	
Ford	Explorer	All (TPMS Tool Required for Relearn)	2002	2005	433	590883	591132	NR	591302	5 (44)	U1-3	6 (53)
Ford	Explorer	Band-Mounted Sensors	2006	2010	315	590880	591134	Not Required	None		None	
Ford	Explorer	All	2011	2020	315	590880	591134	591320*	591320*	1.4 (12) Screw	U2	1.4 (12) Screw
Ford	Explorer	All	2021	2022	315	590880	591134	None	None		None	
Ford	Explorer Sport Trac	Band-Mounted Sensors	2007	2010	315	590880	591134	Not Required	None		None	
Ford	F-150	Band-Mounted Sensors	2007	2008	315	590880	591134	Not Required	None		None	
Ford	F-150	All	2009	2020	315	590880	591134	591320*	591320*	1.4 (12) Screw	U2	1.4 (12) Screw
Ford	F-150	315 MHz	2021	2023	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Ford	F-250 & F-350	To 06/29/09 (Band-Mounted Sensors)	2008	2010	315	590882	591132	Not Required	None		None	
Ford	F-250 & F-350	From 06/29/2009	2010	2016	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Ford	F-250 & F-350	Snap-In Valve	2017	2022	315	590880	591134	None	None		None	
Ford	F-350	Clamp-In Valve	2017	2022	315	590882	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Ford	F-450	Band-Mounted Sensors	2008	2010	315	590882	591132	Not Required	None		None	
Ford	F-450	Direct TPMS	2011	2018	315	590882	591132	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Ford	Fiesta	All	2011	2019	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Ford	Five Hundred	Band-Mounted Sensors	2006	2007	315	590880	591134	Not Required	None		None	
Ford	Flex	Band-Mounted Sensors	2009	2010	315	590880	591134	Not Required	None		None	
Ford	Flex	All	2011	2019	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Ford	Focus	Band-Mounted Sensors	2008	2009	315	590880	591134	Not Required	None		None	
Ford	Focus	Snap-In Valve	2010	2018	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Ford	Focus	Clamp-In Valve	2016	2018	315	590882	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Ford	Freestar	Direct TPMS	2004	2005	315	590882	591132	NR	591302	5 (44)	U1-3	6 (53)
Ford	Freestar	Band-Mounted Sensors	2006	2007	315	590880	591134	Not Required	None		None	
Ford	Fusion	Band-Mounted Sensors	2007	2009	315	590880	591134	Not Required	None		None	
Ford	Fusion	All	2010	2016	315	590880	591134	591320*	591320*	1.4 (12) Screw	U2	1.4 (12) Screw
Ford	Fusion	All	2017	2020	315	590880	591134	None	None		None	
Ford	GT	All	2017	2022	315	590882	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Ford	Maverick	All	2022	2023	315	590880	591134	591320*	591320*	1.4 (12) Screw	U2	1.4 (12) Screw
Ford	Mustang	Band-Mounted Sensors	2007	2009	315	590880	591134	Not Required	None		None	
Ford	Mustang	Snap-In Valve	2010	2022	315	590880	591134	591320*	591320*	1.4 (12) Screw	U2	1.4 (12) Screw
Ford	Mustang	Snap-In Valve	2023	2023	315	590880	591134	None	None		None	
Ford	Mustang	Clamp-In Valve	2013	2014	315	590882	591132	591139	591312	4-8 (35-71)	U1-3	6 (53)
Ford	Mustang	Clamp-In Valve	2015	2022	315	590882	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Ford	Police Interceptor Sedan	All	2013	2019	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Ford	Police Interceptor Utility	All	2013	2020	315	590880	591134	591320*	591320*	1.4 (12) Screw	U2	1.4 (12) Screw
Ford	Police Interceptor Utility	All	2021	2022	315	590880	591134	None	None		None	
Ford	Police Responder Hybrid	All	2019	2020	315	590880	591134	None	None		None	
Ford	Ranger	Band-Mounted Sensors	2007	2011	315	590880	591134	Not Required	None		None	



Make	Model	Sub model / Qualifier Notes	Start Year	End Year	RF	RS Sensor	RS+ Sensor	Valve for OEM Sensor	Service Kit for OEM Sensor	Service Kit Torque Nm (In-lbs)	Universal Kit for OEM Sensor	Universal Kit Torque Nm (In-lbs)
Ford	Ranger	All	2019	2022	315	590880	591134	None	None		None	
Ford	Ranger	All	2023	2023	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Ford	Special Service Police Sedan	All	2014	2018	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Ford	SSV Plug-In Hybrid	All	2019	2020	315	590880	591134	None	None		None	
Ford	Taurus	Band-Mounted Sensors	2008	2010	315	590880	591134	Not Required	None		None	
Ford	Taurus	All	2011	2019	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Ford	Taurus X	Band-Mounted Sensors	2008	2009	315	590880	591134	Not Required	None		None	
Ford	Transit Connect	All	2010	2022	315	590880	591134	591320*	591320*	1.4 (12) Screw	U2	1.4 (12) Screw
Ford	Transit - Series	All	2015	2019	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Ford	Transit - Series	4-Wheel	2020	2022	315	590880	591134	None	None		None	
Ford	Transit - Series	Dual Rear Wheels	2022	2022	315	590882	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Freightliner	Sprinter	315 MHz	2007	2013	315	590882	591132	591322	591322	6 (53)	U1-1	4 (35)
Freightliner	Sprinter	433 MHz	2014	2018	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Freightliner	Sprinter	All	2019	2021	433	590883	591132	Note 1	Note 1	4 (35)	None	
Genesis	G70	All	2019	2022	433	590881	591134	591326	591315/316	8 (71)	U1-3	6 (53)
Genesis	G70	All	2023	2023	433	590881	591134	None	None		None	
Genesis	G80	All	2017	2022	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Genesis	G90	All	2017	2022	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Genesis	GV60	All	2023	2023	433	590881	591134	None	None		None	
Genesis	GV70	All	2022	2023	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Genesis	GV80	All	2021	2021	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Genesis	GV80	All	2022	2023	433	590833	591132	591326	591315/316	8 (71)	U1-3	6 (53)
GMC	Acadia	All	2007	2008	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
GMC	Acadia	All	2009	2014	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
GMC	Acadia	315 MHz	2015	2017	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
GMC	Acadia	433 MHz	2017	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
GMC	Canyon	All	2007	2012	315	590882	591132	NR	591307	4 (35)	U1-1	4 (35)
GMC	Canyon	All	2015	2022	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
GMC	Envoy	All	2007	2009	315	590882	591132	NR	591303	7 (62)	U1-1	4 (35)
GMC	Savana	Clamp-In Valve	2008	2009	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
GMC	Savana	Snap-In Valve	2009	2023	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
GMC	Sierra	All	2004	2006	315	590882	591132	NR	591303	7 (62)	U1-1	4 (35)
GMC	Sierra	All	2007	2016	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
GMC	Sierra	315 MHz	2017	2019	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
GMC	Sierra	433 MHz Snap-in	2019	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
GMC	Sierra	Clamp-In Valve	2020	2022	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
GMC	Sierra Trailer	11.3mm / 0.453-inch Valve Hole	2019	2021	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
GMC	Terrain	315 MHz	2010	2023	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
GMC	Yukon	All	2004	2006	315	590882	591132	NR	591303	7 (62)	U1-1	4 (35)
GMC	Yukon	Clamp-In Valve	2007	2007	315	590882	591132	NR	591311	7 (62)	U1-1	4 (35)
GMC	Yukon	Snap-In Valve	2007	2016	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
GMC	Yukon	315 MHz	2017	2020	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
GMC	Yukon	All	2021	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Honda	Accord	All	2008	2012	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Honda	Accord Crosstour	All	2010	2011	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Honda	Civic	All	2008	2013	315	590882	591132	NR	591313	4 (35)	U1-1	4 (35)
Honda	Crosstour	All	2010	2015	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Honda	CR-V	All	2007	2011	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Honda	CR-V	All	2012	2013	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Honda	CR-Z	All	2011	2015	315	590882	591132	NR	591313	4 (35)	U1-1	4 (35)
Honda	Element	All	2007	2008	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Honda	Element	All	2009	2011	315	590882	591132	NR	591313	4 (35)	U1-1	4 (35)
Honda	Fit	All	2008	2008	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Honda	Fit	All	2009	2014	315	590882	591132	NR	591313	4 (35)	U1-1	4 (35)
Honda	Insight	All	2010	2014	315	590882	591132	NR	591313	4 (35)	U1-1	4 (35)
Honda	Odyssey	Touring	2005	2006	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Honda	Odyssey	All	2007	2007	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Honda	Odyssey	All	2008	2017	315	590882	591132	NR	591313	4 (35)	U1-1	4 (35)
Honda	Odyssey	All	2018	2019	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Honda	Odyssey	All	2020	2020	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Honda	Odyssey	All	2021	2022	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Honda	Odyssey	All	2019	2022	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Honda	Pilot	LX Series	2005	2005	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Honda	Pilot	All (2005: EX Series)	2005	2008	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Honda	Pilot	All	2009	2015	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Honda	Pilot	All	2016	2019	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Honda	Pilot	All	2020	2022	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Honda	Ridgeline	All	2006	2009	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Honda	Ridgeline	All (Except RT)	2010	2014	315	590882	591132	NR	591313	4 (35)	U1-1	4 (35)
Honda	Ridgeline	RT	2010	2014	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Honda	Ridgeline	All	2017	2019	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Honda	Ridgeline	All	2020	2020	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Honda	Ridgeline	All	2021	2022	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Honda	S2000	All	2008	2009	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Hummer	H2	All	2008	2009	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Hummer	H3	All	2006	2010	315	590882	591132	NR	591307	4 (35)	U1-1	4 (35)
Hummer	H3T	All	2009	2010	315	590882	591132	NR	591307	4 (35)	U1-1	4 (35)
Hyundai	Accent	Direct TPMS	2006	2007	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Hyundai	Accent	All	2008	2011	315	590882	591132	NR	591313	4 (35)	U1-1	4 (35)
Hyundai	Accent	All	2012	2014	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Hyundai	Accent	All	2015	2022	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Hyundai	Azera	All	2006	2011	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Hyundai	Azera	All	2012	2013	315	None	None	591365	591313	4 (35)	U1-1	4 (35)
Hyundai	Azera	All	2014	2017	433	590883	591132	591365	591313	4 (35)	U1-1	4 (35)
Hyundai	Elantra	Direct TPMS	2007	2007	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Hyundai	Elantra	GLS, SE & Blue	2008	2010	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Hyundai	Elantra	Touring	2009	2012	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Hyundai	Elantra	GLS & Limited	2011	2013	315	590882	591132	591365	591313	4 (35)	U1-1	4 (35)
Hyundai	Elantra	All	2014	2016	315	590882	591132	591365	591313	4 (35)	U1-1	4 (35)
Hyundai	Elantra	All	2017	2020	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Hyundai	Elantra	All	2021	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Hyundai	Elantra Coupe	All	2013	2014	315	590882	591132	591365	591313	4 (35)	U1-1	4 (35)
Hyundai	Elantra GT	All	2013	2017	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Hyundai	Elantra GT	All	2018	2020	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Hyundai	Entourage	All	2007	2010	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)

- Note 1: Valve kit comes with different lengths (590801-59085)
- Note 2: U2/591320 stem = stem attaches via screw
No valve available = stem attaches via clip
- Note 3: 591305 = valve with a Torx screw
591309 = valve with a square bolt
- Note 4: Universal Service Kit nut is different thread count than OEM
* OE Stem with parallel flats

Note: per Federal Motor Vehicle Safety Standard (FMVSS) 138, it is a violation of the law for a "...manufacturer, distributor, dealer, or motor vehicle repair business..." to "...knowingly make inoperative any part of a device or element of design installed on or in a motor vehicle or motor vehicle equipment in compliance with an applicable motor vehicle safety standard" such as TPMS. Alligator TPMS components are designed to monitor tire pressure only and are not designed to provide warning of sudden critical tire damage and/or blowouts caused by external effects. The driver should react promptly to any warning and correct the problem. Tires can fail for other reasons besides low pressure or overloading. Always be on the alert for any other tire problems as indicated by unusual noises, vibrations, uneven tread wear, or bulges on the tire. If any of these symptoms occur, have the tires checked immediately by a professional.

TPMS Application Guide

Make	Model	Sub model / Qualifier Notes	Start Year	End Year	RF	RS Sensor	RS+ Sensor	Valve for OEM Sensor	Service Kit for OEM Sensor	Service Kit Torque Nm (In-lbs)	Universal Kit for OEM Sensor	Universal Kit Torque Nm (In-lbs)
Hyundai	Equus	TPMS warning light only	2011	2013	315	590882	591132	NR	591313	4 (35)	U1-1	4 (35)
Hyundai	Equus	All	2014	2016	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Hyundai	Genesis	TPMS warning light only	2009	2014	315	590882	591132	NR	591313	4 (35)	U1-1	4 (35)
Hyundai	Genesis	All	2015	2016	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Hyundai	Genesis Coupe	All	2010	2016	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Hyundai	Ioniq	All	2017	2021	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Hyundai	Ioniq	All	2022	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Hyundai	Kona	All	2018	2023	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Hyundai	Nexo	All	2019	2022	433	590881	591134	None	None	None	None	None
Hyundai	Palisade	All	2020	2023	433	590881	591134	None	None	None	None	None
Hyundai	Santa Cruz	All	2022	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Hyundai	Santa Fe	All	2007	2009	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Hyundai	Santa Fe	All	2010	2012	315	590880	591134	591321	591321	1.2 (10) Nut	None	None
Hyundai	Santa Fe	All	2019	2023	433	590881	591134	None	None	None	None	None
Hyundai	Santa Fe & Santa Fe XL	All	2013	2017	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Hyundai	Santa Fe & Santa Fe XL	All	2018	2018	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Hyundai	Santa Fe XL	All	2019	2019	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Hyundai	Santa Fe Sport	All	2013	2017	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Hyundai	Santa Fe Sport	All	2018	2018	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Hyundai	Sonata	All	2006	2008	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Hyundai	Sonata	All	2009	2010	315	590882	591132	NR	591313	4 (35)	U1-1	4 (35)
Hyundai	Sonata	315 MHz	2011	2015	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Hyundai	Sonata	433 MHz	2015	2019	433	590881	591134	None	None	None	None	None
Hyundai	Sonata	All	2020	2022	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Hyundai	Tiburon	All	2007	2008	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Hyundai	Tucson	All	2006	2009	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Hyundai	Tucson	All	2010	2013	315	590882	591132	NR	591313	4 (35)	U1-1	4 (35)
Hyundai	Tucson	315 MHz	2014	2017	315	590882	591132	591365	591313	4 (35)	U1-1	4 (35)
Hyundai	Tucson	433 MHz	2016	2021	433	590881	591134	None	None	None	None	None
Hyundai	Tucson	All	2022	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Hyundai	Veloster	All	2012	2017	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Hyundai	Veloster	All	2019	2022	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Hyundai	Venue	All	2020	2022	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Hyundai	Veracruz	All	2007	2012	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Infiniti	EX Series	All	2008	2012	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Infiniti	EX Series	All	2013	2013	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Infiniti	FX Series	To 06/2007	2003	2007	315	590882	591132	NR	591304	4.7 (35-62)	U1-1	4 (35)
Infiniti	FX Series	From 07/2007	2007	2008	315	590882	591132	NR	591312	4.8 (35-71)	U1-3	6 (53)
Infiniti	FX Series	All	2009	2013	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Infiniti	G Series	All	2003	2006	315	590882	591132	NR	591304	4.7 (35-62)	U1-1	4 (35)
Infiniti	G Series	Coupe	2007	2007	315	590882	591132	NR	591312	4.8 (35-71)	U1-3	6 (53)
Infiniti	G Series	Sedan	2007	2007	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Infiniti	G Series	All	2008	2013	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Infiniti	JX Series	All	2013	2013	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Infiniti	M Series	All	2003	2007	315	590882	591132	NR	591304	4.7 (35-62)	U1-1	4 (35)
Infiniti	M Series	All	2008	2010	315	590882	591132	NR	591312	4.8 (35-71)	U1-3	6 (53)
Infiniti	M Series	All	2011	2013	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Infiniti	Q Series	To 08/2006	2003	2006	315	590882	591132	NR	591304	4.7 (35-62)	U1-1	4 (35)
Infiniti	Q Series	From 08/2006	2006	2006	315	590882	591132	NR	591312	4.8 (35-71)	U1-3	6 (53)
Infiniti	Q40	All	2015	2015	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Infiniti	Q50	To 12/2015	2014	2016	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Infiniti	Q50	From 12/2015	2016	2022	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Infiniti	Q60	All	2014	2015	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Infiniti	Q60	All	2017	2022	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Infiniti	Q70, Q70L	All	2014	2019	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Infiniti	QX Series	All	2003	2003	315	590882	591132	NR	591304	4.7 (35-62)	U1-1	4 (35)
Infiniti	QX Series	Alloy Wheels (To 04/2007)	2004	2007	315	590882	591132	NR	591304	4.7 (35-62)	U1-1	4 (35)
Infiniti	QX Series	Steel Wheels	2004	2006	315	590882	591132	NR	591308	5.6 (45-52)	U1-3	6 (53)
Infiniti	QX Series	From 04/2007	2007	2010	315	590882	591132	NR	591312	4.8 (35-71)	U1-3	6 (53)
Infiniti	QX Series	All	2011	2013	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Infiniti	QX30	All	2017	2020	433	590883	591132	None	591312	4.8 (35-71)	U1-2	6 (53)
Infiniti	QX50	All	2014	2017	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Infiniti	QX50	All	2019	2021	433	590881	591134	None	None	None	None	None
Infiniti	QX50	All	2022	2022	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Infiniti	QX55	All	2022	2023	433	590881	591134	None	None	None	None	None
Infiniti	QX60	All	2014	2018	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Infiniti	QX60	All	2019	2020	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Infiniti	QX60	All	2022	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Infiniti	QX70	All	2014	2017	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Infiniti	QX80	All	2014	2016	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Infiniti	QX80	All	2017	2017	433	590883	591132	NR	591306	4 (35)	U1-1	4 (35)
Infiniti	QX80	All	2018	2022	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Isuzu	Ascender	All	2006	2008	315	590882	591132	NR	591303	7 (62)	U1-1	4 (35)
Isuzu	i-Series	All	2007	2008	315	590882	591132	NR	591307	4 (35)	U1-1	4 (35)
Isuzu	Rodeo	All (TPMS Tool Required for Relearn)	2004	2004	433	590883	591132	NR	591304	4.7 (35-62)	U1-1	4 (35)
Jaguar	E-Pace	All	2018	2022	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Jaguar	E-Pace	All	2023	2023	433	590881	591134	591326	591315/316	8 (71)	U1-3	6 (53)
Jaguar	F-Pace	433 MHz	2017	2021	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Jaguar	F-Pace	All	2022	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Jaguar	F-Type	315 MHz (2015: To VIN K16099)	2014	2015	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Jaguar	F-Type	315 MHz (2015: From VIN K16100)	2015	2019	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Jaguar	F-Type	433 MHz (Clamp-in Valve)	2015	2021	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Jaguar	F-Type	Snap-In Valve	2021	2022	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Jaguar	F-Type	Clamp-In Valve	2023	2023	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Jaguar	I-Pace	433 MHz	2019	2023	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Jaguar	Super V8	315 MHz	2005	2009	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Jaguar	Super V8	433 MHz	2005	2009	433	590883	591132	None	591301	7 (62)	U1-3	6 (53)
Jaguar	S-Type	315 MHz	2008	2008	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Jaguar	S-Type	433 MHz	2008	2008	433	590883	591132	None	591301	7 (62)	U1-3	6 (53)
Jaguar	Vanden Plas	315 MHz	2004	2009	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Jaguar	Vanden Plas	433 MHz	2004	2009	433	590883	591132	None	591301	7 (62)	U1-3	6 (53)
Jaguar	XE Series	All	2017	2020	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Jaguar	XF Series	315 MHz	2009	2015	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Jaguar	XF Series	433 MHz	2009	2015	433	590883	591132	None	591301	7 (62)	U1-3	6 (53)
Jaguar	XF Series	433 MHz	2016	2022	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Jaguar	XJ Series	315 MHz (2015: To VIN V82895)	2004	2015	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Jaguar	XJ Series	315 MHz (From VIN V82896)	2015	2015	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Jaguar	XJ Series	433 MHz (To VIN V80962)	2004	2015	433	590883	591132	None	591301	7 (62)	U1-3	6 (53)
Jaguar	XJ Series	433 MHz (From VIN V80963)	2015	2019	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Jaguar	XK Series	315 MHz	2007	2015</								



Make	Model	Sub model / Qualifier Notes	Start Year	End Year	RF	RS Sensor	RS+ Sensor	Valve for OEM Sensor	Service Kit for OEM Sensor	Service Kit Torque Nm (In-lbs)	Universal Kit for OEM Sensor	Universal Kit Torque Nm (In-lbs)
Jeep	Cherokee	All	2014	2022	433	590881	591134	None	None		None	
Jeep	Commander	All	2006	2006	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Jeep	Commander	All	2007	2007	315	590882	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Jeep	Commander	All	2008	2010	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Jeep	Compass	All	2007	2010	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Jeep	Compass	All	2011	2013	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Jeep	Compass	315 MHz	2014	2017	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Jeep	Compass	433 MHz	2017	2023	433	590881	591134	Note 2	Note 2	1.4 (12) Screw	Note 2	1.4 (12) Screw
Jeep	Gladiator	All	2020	2022	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Jeep	Grand Cherokee	All (TPMS Tool Required for Relearn)	2002	2004	433	590883	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Jeep	Grand Cherokee	All	2005	2007	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Jeep	Grand Cherokee	All	2008	2010	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Jeep	Grand Cherokee	Clamp-In Valve	2011	2015	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Jeep	Grand Cherokee	Snap-In Valve	2011	2015	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Jeep	Grand Cherokee	Snap-In Valve	2016	2021	433	590881	591134	Note 2	Note 2	1.4 (12) Screw	Note 2	1.4 (12) Screw
Jeep	Grand Cherokee	Clamp-In Valve	2016	2021	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Jeep	Grand Cherokee	All	2022	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Jeep	Grand Cherokee L	All	2021	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Jeep	Grand Cherokee WK	Snap-In Valve	2022	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Jeep	Grand Cherokee WK	Clamp-In Valve	2022	2022	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Jeep	Grand Wagoneer	All	2022	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Jeep	Liberty	All (TPMS Tool Required for Relearn)	2004	2004	433	590883	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Jeep	Liberty	All	2005	2006	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Jeep	Liberty	All	2007	2010	315	590882	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Jeep	Liberty	All	2011	2012	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Jeep	Patriot	All	2007	2010	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Jeep	Patriot	All	2011	2013	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Jeep	Patriot	All	2014	2017	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Jeep	Renegade	All	2015	2022	433	590881	591134	Note 2	Note 2	1.4 (12) Screw	Note 2	1.4 (12) Screw
Jeep	Wagoneer	All	2022	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Jeep	Wrangler	All	2007	2010	315	590882	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Jeep	Wrangler	All	2011	2012	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Jeep	Wrangler	All	2013	2022	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Karma	Revero	All	2017	2019	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Kia	Amanti	All	2007	2009	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Kia	Borrego	All	2009	2011	315	590882	591132	NR	591313	4 (35)	U1-1	4 (35)
Kia	Cadenza	All	2014	2016	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Kia	Cadenza	All	2017	2020	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Kia	Carnival	All	2022	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Kia	Forte	All	2010	2013	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Kia	Forte	All	2014	2018	315	590882	591132	591365	591313	4 (35)	U1-1	4 (35)
Kia	Forte	All	2019	2022	433	590883	591132	NR	591306	4 (35)	U1-1	4 (35)
Kia	K5	Snap-in Valve	2021	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Kia	K5	Clamp-in Valve	2023	2023	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Kia	K900	All	2015	2018	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Kia	K900	All	2019	2020	433	590881	591134	None	None		None	
Kia	Magentis	Direct TPMS	2006	2006	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Kia	Magentis	All	2007	2010	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Kia	Niro	All	2017	2021	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Kia	Optima	All	2006	2010	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Kia	Optima	All	2011	2016	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Kia	Optima	All	2016	2020	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Kia	Optima Hybrid	All	2016	2016	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Kia	Rio	All	2007	2011	315	590882	591132	NR	591313	4 (35)	U1-1	4 (35)
Kia	Rio	All	2012	2017	315	590882	591132	591365	591313	4 (35)	U1-1	4 (35)
Kia	Rio	All	2018	2021	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Kia	Rondo	All	2007	2011	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Kia	Rondo	Clamp-In Valve	2012	2012	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Kia	Sedona	All	2006	2012	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Kia	Sedona	All	2014	2014	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Kia	Sedona	All	2015	2021	433	590881	591134	None	None		None	
Kia	Seltos	All	2021	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Kia	Sorento	All	2007	2009	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Kia	Sorento	All	2011	2015	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Kia	Sorento	All	2016	2020	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Kia	Sorento	All	2021	2022	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Kia	Sorento	Clamp-In Valve	2023	2023	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Kia	Soul	All	2010	2013	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Kia	Soul	All	2014	2019	433	590881	591134	None	None		None	
Kia	Soul	All	2020	2021	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Kia	Soul EV	All	2020	2021	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Kia	Spectra	All	2007	2009	315	590882	591132	NR	591313	4 (35)	U1-1	4 (35)
Kia	Sportage	All	2005	2008	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Kia	Sportage	All	2009	2013	315	590882	591132	NR	591313	4 (35)	U1-1	4 (35)
Kia	Sportage	All	2014	2014	315	590882	591132	591365	591313	4 (35)	U1-1	4 (35)
Kia	Sportage	All	2015	2016	315	590882	591132	NR	591313	4 (35)	U1-1	4 (35)
Kia	Sportage	All	2017	2023	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Kia	Stinger	All	2018	2022	433	590881	591134	None	None		None	
Kia	Telluride	All	2020	2022	433	590881	591134	None	None		None	
Lamborghini	Aventador	All	2012	2021	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Lamborghini	Centenario	All	2017	2017	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Lamborghini	Gallardo	All	2008	2014	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Lamborghini	Huracan	All	2015	2021	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Lamborghini	Murcielago	All	2008	2010	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Lamborghini	Urus	All	2019	2020	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Land Rover	Defender	All	2020	2021	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Land Rover	Defender	All	2022	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Land Rover	Discovery	Clamp-In Valve	2017	2022	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Land Rover	Discovery	Snap-in Valve	2022	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Land Rover	Discovery Sport	433 MHz	2015	2021	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Land Rover	Discovery Sport	All	2022	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Land Rover	LR2	315 MHz	2008	2015	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Land Rover	LR2	433 MHz	2009	2012	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Land Rover	LR3	315 MHz	2006	2009	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)

- Note 1: Valve kit comes with different lengths (590801-59085)
- Note 2: U2/591320 stem = stem attaches via screw
No valve available = stem attaches via clip
- Note 3: 591305 = valve with a Torx screw
591309 = valve with a square bolt
- Note 4: Universal Service Kit nut is different thread count than OEM
* OE Stem with parallel flats

Notice: per Federal Motor Vehicle Safety Standard (FMVSS) 138, it is a violation of the law for a "...manufacturer, distributor, dealer, or motor vehicle repair business..." to "...knowingly make inoperative any part of a device or element of design installed on or in a motor vehicle or motor vehicle equipment in compliance with an applicable motor vehicle safety standard" such as TPMS. Alligator TPMS components are designed to monitor tire pressure only and are not designed to provide warning of sudden critical tire damage and/or blowouts caused by external effects. The driver should react promptly to any warning and correct the problem. Tires can fail for other reasons besides low pressure or overloading. Always be on the alert for any other tire problems as indicated by unusual noises, vibrations, uneven tread wear, or bulges on the tire. If any of these symptoms occur, have the tires checked immediately by a professional.

TPMS Application Guide

Make	Model	Sub model / Qualifier Notes	Start Year	End Year	RF	RS Sensor	RS+ Sensor	Valve for OEM Sensor	Service Kit for OEM Sensor	Service Kit Torque Nm (In-lbs)	Universal Kit for OEM Sensor	Universal Kit Torque Nm (In-lbs)
Land Rover	LR3	433 MHz	2006	2009	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Land Rover	LR4	315 MHz	2010	2014	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Land Rover	LR4	433 MHz	2010	2015	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Land Rover	LR4	433 MHz	2016	2016	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Land Rover	Range Rover	All	2003	2005	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Land Rover	Range Rover	All	2022	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Land Rover	Range Rover & RR Sport	315 MHz	2006	2009	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Land Rover	Range Rover & RR Sport	315 MHz	2010	2014	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Land Rover	Range Rover & RR Sport	433 MHz	2006	2009	433	590883	591132	None	591301	7 (62)	U1-3	6 (53)
Land Rover	Range Rover & RR Sport	433 MHz	2010	2011	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Land Rover	Range Rover & RR Sport	433 MHz (To VIN EA140910 / EA319922)	2012	2014	433	590883	591132	None	591301	7 (62)	U1-3	6 (53)
Land Rover	Range Rover & RR Sport	433 MHz (From VIN EA140911 / EA319923)(Clamp-in)	2014	2021	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Land Rover	Range Rover Sport	Snap-In Valve	2021	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Land Rover	Range Rover Evoque	315 MHz	2012	2014	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Land Rover	Range Rover Evoque	433 MHz (To VIN EH955856)	2012	2014	433	590883	591132	None	591301	7 (62)	U1-3	6 (53)
Land Rover	Range Rover Evoque	433 MHz (From VIN EH955857)	2014	2023	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Land Rover	Range Rover Evoque	All	2022	2022	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Land Rover	Range Rover Velar	433 MHz	2018	2021	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Land Rover	Range Rover Velar	All	2022	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Lexus	CT Series	All	2011	2017	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Lexus	ES Series	All	2007	2012	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Lexus	ES Series	Lowline TPMS	2013	2018	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Lexus	ES Series	All	2019	2019	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Lexus	ES Series	All	2020	2022	315	590882	591132	None	591306	4 (35)	U1-1	4 (35)
Lexus	GS Series	All	2006	2011	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Lexus	GS Series	Lowline TPMS	2013	2020	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Lexus	GX Series	To 01/2006	2004	2006	315	590882	591132	NR	591307	4 (35)	U1-1	4 (35)
Lexus	GX Series	From 02/2006	2006	2017	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Lexus	GX Series	Lowline TPMS	2018	2019	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Lexus	GX Series	All	2020	2021	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Lexus	GX Series	All	2022	2023	315	590882	591132	None	591306	4 (35)	U1-1	4 (35)
Lexus	IS Series (except IS F)	All	2006	2013	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Lexus	IS Series (except IS F)	Lowline TPMS	2014	2020	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Lexus	IS Series	All	2021	2023	315	590882	591132	None	591306	4 (35)	U1-1	4 (35)
Lexus	IS F	All	2008	2014	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Lexus	HS Series	All	2010	2012	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Lexus	LC Series	To 11/2021	2018	2022	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Lexus	LC Series	From 11/2021	2022	2022	315	590882	591132	None	591306	4 (35)	U1-1	4 (35)
Lexus	LFA	All	2012	2012	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Lexus	LS Series	All	2007	2012	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Lexus	LS Series	Lowline TPMS	2013	2017	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Lexus	LS Series	All	2018	2020	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Lexus	LS Series	All	2021	2022	315	590882	591132	None	591306	4 (35)	U1-1	4 (35)
Lexus	LX Series	All	2005	2021	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Lexus	LX Series	All	2022	2023	315	590882	591132	None	591306	4 (35)	U1-1	4 (35)
Lexus	NX Series	Lowline TPMS	2015	2021	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Lexus	NX Series	All	2022	2023	315	590882	591132	None	591306	4 (35)	U1-1	4 (35)
Lexus	RC Series	Lowline TPMS	2015	2020	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Lexus	RC Series (except RC F)	All	2021	2022	315	590882	591132	None	591306	4 (35)	U1-1	4 (35)
Lexus	RC F	Lowline TPMS	2021	2023	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Lexus	RX Series	All	2006	2019	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Lexus	RX Series	All	2020	2022	315	590882	591132	None	591306	4 (35)	U1-1	4 (35)
Lexus	SC Series	All	2002	2006	315	None	None	NR	591314	3 (27)	None	
Lexus	SC Series	All	2007	2010	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Lexus	UX Series	All	2019	2020	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Lexus	UX Series	All	2021	2022	315	590882	591132	None	591306	4 (35)	U1-1	4 (35)
Lincoln	Aviator	All	2003	2005	433	590883	591132	NR	591302	5 (44)	U1-3	6 (53)
Lincoln	Aviator	All	2020	2022	315	590880	591134	None	None		None	
Lincoln	Aviator	All	2023	2023	315	590882	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Lincoln	Continental	All	2017	2020	315	590880	591134	None	None		None	
Lincoln	Mark LT	Band-Mounted Sensors	2007	2008	315	590880	591134	Not Required	None		None	
Lincoln	MKC	All	2015	2017	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Lincoln	MKC	All	2018	2019	315	590880	591134	None	None		None	
Lincoln	MKS	Band-Mounted Sensors	2009	2010	315	590880	591134	Not Required	None		None	
Lincoln	MKS	All	2011	2016	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Lincoln	MKT	Band-Mounted Sensors	2010	2010	315	590880	591134	Not Required	None		None	
Lincoln	MKT	All	2011	2019	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Lincoln	MKX	Band-Mounted Sensors	2007	2010	315	590880	591134	Not Required	None		None	
Lincoln	MKX	All	2011	2015	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Lincoln	MKX	All	2016	2018	315	590880	591134	None	None		None	
Lincoln	MKZ	To 2/4/09 (Band-Mounted Sensors)	2007	2009	315	590880	591134	Not Required	None		None	
Lincoln	MKZ	From 2/4/2009	2009	2016	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Lincoln	MKZ	All	2017	2020	315	590880	591134	None	None		None	
Lincoln	Nautilus	All	2019	2022	315	590880	591134	None	None		None	
Lincoln	Navigator	All (TPMS Tool Required for Relearn)	2003	2004	433	590883	591132	NR	591302	5 (44)	U1-3	6 (53)
Lincoln	Navigator	All (TPMS Tool Required for Relearn)	2005	2006	315	590882	591132	NR	591302	5 (44)	U1-3	6 (53)
Lincoln	Navigator	Band-Mounted Sensors	2007	2010	315	590880	591134	Not Required	None		None	
Lincoln	Navigator	All	2011	2017	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Lincoln	Navigator	All	2018	2023	315	590880	591134	None	None		None	
Lincoln	Town Car	Band-Mounted Sensors	2008	2011	315	590880	591134	NR	None		None	
Lotus	Elise	All	2008	2011	433	590883	591132	NR	591310	5-10 (44-80)	U1-3	6 (53)
Lotus	Evora	All	2010	2014	433	590883	591132	NRable	591310	5-10 (44-80)	U1-3	6 (53)
Lotus	Evora	All	2016	2019	433	None	None	Note 1	Note 3	4 (35)	U1-1	4 (35)
Lotus	Exige	All	2008	2011	433	590883	591132	NR	591310	5-10 (44-80)	U1-3	6 (53)
Lucid	Air	All	2022	2023	433	None	None	591326	591315/316	8 (71)	U1-3	6 (53)
Maserati	Coupe	All	2005	2007	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Maserati	Ghibli	All	2014	2020	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Maserati	GranTurismo	All	2008	2013	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Maserati	GranTurismo	with Schrader sensor	2014	2019	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Maserati	Levante	All	2017	2020	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Maserati	Quattroporte	All	2008	2013	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Maserati	Quattroporte	All	2014	2021	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Maybach	57	315 MHz	2003	2012	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Maybach	57	433 MHz	2003	2012	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Maybach	62	315 MHz	2003	2012	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Maybach	62	433 MHz	2003	2012	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Mazda	2	All	2011	2014	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Mazda	3	All	2004	2010	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Mazda	3	All	2011	2013	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Mazda	3	All	2019	2022	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Mazda	5	All	2006	2010	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Mazda	5	All	2012	2017	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)



Make	Model	Sub model / Qualifier Notes	Start Year	End Year	RF	RS Sensor	RS+ Sensor	Valve for OEM Sensor	Service Kit for OEM Sensor	Service Kit Torque Nm (In-lbs)	Universal Kit for OEM Sensor	Universal Kit Torque Nm (In-lbs)
Mazda	6	with Siemens sensor	2005	2010	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Mazda	6	with Continental sensor	2010	2013	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Mazda	6	All	2018	2020	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Mazda	6	All	2021	2021	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Mazda	B Series	Band-Mounted Sensors	2007	2010	315	590880	591134	Not Required	None		None	
Mazda	CX-3	Direct TPMS	2019	2020	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Mazda	CX-3	All	2021	2022	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Mazda	CX-30	All	2020	2023	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Mazda	CX-5	Direct TPMS	2017	2020	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Mazda	CX-5	All	2021	2023	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Mazda	CX-50	All	2023	2023	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Mazda	CX-7	All	2007	2010	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Mazda	CX-7	All	2011	2012	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Mazda	CX-9	All	2007	2010	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Mazda	CX-9	Direct TPMS	2011	2019	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Mazda	CX-9	All	2020	2022	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Mazda	MX-30	All	2022	2023	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Mazda	MX-5 Miata	All	2006	2008	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Mazda	MX-5 Miata	Except Run-Flat tires	2009	2010	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Mazda	MX-5 Miata	Run-Flat Tires	2009	2010	433	590883	591132	None	591301	7 (62)	U1-3	6 (53)
Mazda	MX-5 Miata	Except Run-Flat tires	2011	2015	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Mazda	MX-5 Miata	Run-Flat Tires	2011	2014	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Mazda	MX-5 Miata	Direct TPMS	2018	2019	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Mazda	MX-5 Miata	To 07/14/2020	2020	2020	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Mazda	MX-5 Miata	From 07/14/2020	2020	2022	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Mazda	RX-8	All	2004	2010	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Mazda	RX-8	All	2011	2011	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Mazda	Tribute	Band-Mounted Sensors	2006	2008	315	590880	591134	Not Required	None		None	
Mazda	Tribute	All	2009	2011	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
McLaren	720S	All	2018	2021	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
McLaren	MP4-12C	All	2012	2014	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
McLaren	P1	All	2014	2015	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Mercedes-Benz	A Class	All	2019	2022	433	590883	591132	Note 1	Note 1	4 (35)	None	
Mercedes-Benz	AMG Class	All	2016	2022	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	B Class	All	2011	2011	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	B Class	with Schrader sensor	2013	2019	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	B Class	with Huff / Beru sensor	2019	2019	433	590883	591132	Note 1	Note 1	4 (35)	None	
Mercedes-Benz	C Class	To 12/23/2013	2008	2014	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Mercedes-Benz	C Class	From 12/23/2013	2014	2023	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	CL Class	315 MHz	2000	2006	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Mercedes-Benz	CL Class	All	2007	2009	315	590882	591132	591330	591330	6 (53)	U1-1	4 (35)
Mercedes-Benz	CL Class	All	2010	2014	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Mercedes-Benz	CLA Class	To 01/09/2014	2014	2014	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Mercedes-Benz	CLA Class	From 01/09/2014	2014	2019	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	CLA Class	All	2020	2022	433	590883	591132	Note 1	Note 1	4 (35)	None	
Mercedes-Benz	CLK Class	All	2006	2009	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Mercedes-Benz	CLS Class	All	2006	2011	315	590882	591132	591330	591330	6 (53)	U1-1	4 (35)
Mercedes-Benz	CLS Class	To 01/10/2014	2012	2014	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Mercedes-Benz	CLS Class	From 01/10/2014	2014	2018	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	CLS Class	All	2019	2023	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	E Class	315 MHz	2000	2005	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Mercedes-Benz	E Class	315 MHz	2006	2009	315	590882	591132	591330	591330	6 (53)	U1-1	4 (35)
Mercedes-Benz	E Class	433 MHz	2006	2009	433	590883	591132	591330	591330	6 (53)	U1-1	4 (35)
Mercedes-Benz	E Class	To 01/10/2014	2010	2014	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Mercedes-Benz	E Class	From 01/10/2014	2014	2016	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	E400 & E550	All	2017	2017	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	E300 & E43 AMG	All	2017	2017	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	E Class	All	2018	2022	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	EQB Class	All	2022	2023	433	590883	591132	Note 1	Note 1	4 (35)	None	
Mercedes-Benz	EQE Class	All	2022	2023	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	EQS Class	All	2022	2023	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	G Class	To 01/14/2015 (includes 2015 with Run-Flat Tires)	2008	2015	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Mercedes-Benz	G Class	Run-Flat Tires	2014	2015	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Mercedes-Benz	G Class	From 01/14/2015 (excludes Run-Flat Tires)	2015	2018	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	G Class	All	2019	2021	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	GL Class	All	2007	2009	433	590883	591132	591330	591330	6 (53)	U1-1	4 (35)
Mercedes-Benz	GL Class	To 01/07/2014	2010	2014	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Mercedes-Benz	GL Class	From 01/07/2014	2014	2016	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	GLA Class	All	2015	2020	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	GLA Class	All	2021	2023	433	590883	591132	Note 1	Note 1	4 (35)	None	
Mercedes-Benz	GLB Class	All	2020	2023	433	590883	591132	Note 1	Note 1	4 (35)	None	
Mercedes-Benz	GLC Class	All	2016	2022	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	GLE Class	All	2016	2019	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	GLE Class	All	2020	2022	433	590883	591132	Note 1	Note 1	4 (35)	None	
Mercedes-Benz	GLE Class	Coupe	2023	2023	433	590883	591132	Note 1	Note 1	4 (35)	None	
Mercedes-Benz	GLK Class	To 12/23/2013	2010	2014	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Mercedes-Benz	GLK Class	From 12/23/2013	2014	2015	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	GLS Class	All	2017	2019	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	GLS Class	All	2020	2022	433	590883	591132	Note 1	Note 1	4 (35)	None	
Mercedes-Benz	Metris	All	2016	2022	433	590881	591134	None	None		None	
Mercedes-Benz	ML Class	All	2006	2009	433	590883	591132	591330	591330	6 (53)	U1-1	4 (35)
Mercedes-Benz	ML Class	All	2010	2014	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Mercedes-Benz	ML Class	All	2015	2015	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	R Class	All	2006	2009	433	590883	591132	591330	591330	6 (53)	U1-1	4 (35)
Mercedes-Benz	R Class	All	2010	2013	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Mercedes-Benz	S Class	315 MHz	2000	2006	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Mercedes-Benz	S Class	315 MHz	2007	2011	315	590882	591132	591330	591330	6 (53)	U1-1	4 (35)
Mercedes-Benz	S Class	433 MHz	2007	2009	433	590883	591132	591330	591330	6 (53)	U1-1	4 (35)
Mercedes-Benz	S Class	433 MHz (To 01/10/2014)	2010	2014	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Mercedes-Benz	S Class	From 01/10/2014	2014	2020	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	S Class	2-door Coupe	2021	2023	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	S Class	Sedan	2021	2023	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	SL Class	315 MHz	2000	2005	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Mercedes-Benz	SL Class	315 MHz	2006	2012	315	590882	591132	591330	591330	6 (53)	U1-1	4 (35)
Mercedes-Benz	SL Class	433 MHz	2005	2012	433	590883	591132	591330	591330	6 (53)	U1-1	4 (35)

- Note 1: Valve kit comes with different lengths (590801-59085)
- Note 2: U2/591320 stem = stem attaches via screw
No valve available = stem attaches via clip
- Note 3: 591305 = valve with a Torx screw
591309 = valve with a square bolt
- Note 4: Universal Service Kit nut is different thread count than OEM
* OE Stem with parallel flats

TPMS Application Guide

Make	Model	Sub model / Qualifier Notes	Start Year	End Year	RF	RS Sensor	RS+ Sensor	Valve for OEM Sensor	Service Kit for OEM Sensor	Service Kit Torque Nm (In-lbs)	Universal Kit for OEM Sensor	Universal Kit Torque Nm (In-lbs)
Mercedes-Benz	SL Class	To 12/23/2013	2013	2014	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Mercedes-Benz	SL Class	From 12/23/2013	2014	2020	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	SLC Class	All	2017	2020	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	SLK Class	To 12/23/2013	2008	2014	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Mercedes-Benz	SLK Class	From 12/23/2013	2014	2016	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	SLR McLaren	315 MHz	2006	2007	315	590882	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Mercedes-Benz	SLR McLaren	All	2008	2009	315	590882	591132	591330	591330	6 (53)	U1-1	4 (35)
Mercedes-Benz	SLS AMG	To 01/10/2014	2011	2014	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Mercedes-Benz	SLS AMG	From 01/10/2014	2014	2015	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Mercedes-Benz	Sprinter	315 MHz	2010	2013	315	590882	591132	591322	591322	6 (53)	U1-1	4 (35)
Mercedes-Benz	Sprinter	433 MHz	2014	2018	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Mercedes-Benz	Sprinter	All	2019	2022	433	590883	591132	Note 1	Note 1	4 (35)	None	
Mercury	Grand Marquis	Band-Mounted Sensors	2007	2011	315	590880	591134	Not Required	None		None	
Mercury	Mariner	Band-Mounted Sensors	2006	2008	315	590880	591134	Not Required	None		None	
Mercury	Mariner	All	2009	2011	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Mercury	Milan	Band-Mounted Sensors	2007	2009	315	590880	591134	Not Required	None		None	
Mercury	Milan	All	2010	2011	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Mercury	Monterey	Band-Mounted Sensors	2006	2007	315	590880	591134	Not Required	None		None	
Mercury	Mountaineer	All	2002	2005	433	590883	591132	NR	591302	5 (44)	U1-3	6 (53)
Mercury	Mountaineer	Band-Mounted Sensors	2006	2010	315	590880	591134	Not Required	None		None	
Mercury	Sable	Band-Mounted Sensors	2008	2009	315	590880	591134	Not Required	None		None	
Mini	Cooper	All	2008	2009	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Mini	Cooper	with Huf / Beru sensor	2010	2015	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Mini	Cooper	with Continental sensor	2014	2023	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Mini	Cooper Clubman	All	2016	2023	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Mini	Cooper Countryman	All	2011	2016	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Mini	Cooper Countryman	All	2017	2022	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Mini	Cooper Paceman	All	2013	2016	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Mitsubishi	Eclipse	All	2008	2012	315	590882	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Mitsubishi	Eclipse Cross	Snap-In Valve	2018	2020	315	590880	591134	None	None		None	
Mitsubishi	Eclipse Cross	Snap-In Valve	2022	2023	315	590880	591134	None	None		None	
Mitsubishi	Endeavor	To 08/06 (TPMS Tool Required for Release)	2004	2007	433	590883	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Mitsubishi	Endeavor	From 09/20/06	2007	2011	315	590882	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Mitsubishi	Galant	Direct TPMS	2004	2006	433	590883	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Mitsubishi	Galant	Alloy Wheels	2007	2010	315	590882	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Mitsubishi	Galant	Steel Wheels	2007	2010	315	590882	591132	NR	591308	5-6 (45-52)	U1-3	6 (53)
Mitsubishi	Galant	All	2011	2012	315	590882	591132	NR	591308	5-6 (45-52)	U1-3	6 (53)
Mitsubishi	i-MiEV	All	2012	2012	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Mitsubishi	i-MiEV	All	2014	2014	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Mitsubishi	i-MiEV	All	2016	2017	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Mitsubishi	Lancer	All	2008	2010	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Mitsubishi	Lancer	All	2011	2017	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Mitsubishi	Mirage	Clamp-In Valve	2014	2015	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Mitsubishi	Mirage	Snap-In Valve	2014	2015	315	590880	591134	None	None		None	
Mitsubishi	Mirage	Snap-In Valve	2017	2023	315	590880	591134	None	None		None	
Mitsubishi	Montero	Direct TPMS	2003	2006	315	590882	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Mitsubishi	Outlander	Direct TPMS	2006	2006	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Mitsubishi	Outlander	All	2007	2010	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Mitsubishi	Outlander	All	2011	2017	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Mitsubishi	Outlander	All	2022	2023	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Mitsubishi	Outlander	Clamp-In Valve	2018	2018	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Mitsubishi	Outlander	Snap-In Valve	2019	2021	315	590880	591134	None	None		None	
Mitsubishi	Outlander Sport	Snap-In Valve	2013	2013	315	590880	591134	None	None		None	
Mitsubishi	Outlander Sport	Clamp-In Valve	2011	2018	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Mitsubishi	Outlander Sport	Snap-In Valve	2019	2021	315	590880	591134	None	None		None	
Mitsubishi	Raider	All	2008	2009	315	590882	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Mitsubishi	RVR	Snap-In Valve	2013	2013	315	590880	591134	None	None		None	
Mitsubishi	RVR	Clamp-In Valve	2011	2018	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Mitsubishi	RVR	Snap-In Valve	2019	2021	315	590880	591134	None	None		None	
Mobility Ventures	MV-1	All	2014	2017	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Nissan	350Z	All	2003	2006	315	590882	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Nissan	350Z	All	2007	2009	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Nissan	370Z	All	2009	2020	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Nissan	370Z	All	2023	2023	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Nissan	Altima	All	2007	2012	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Nissan	Altima	Coupe	2013	2013	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Nissan	Altima	Sedan	2013	2013	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Nissan	Altima	All	2014	2018	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Nissan	Altima	All	2019	2020	433	590881	591134	None	None		None	
Nissan	Altima	All	2021	2022	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Nissan	Ariya	315 MHz	2023	2023	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Nissan	Ariya	433 MHz	2023	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Nissan	Armada	All	2005	2005	315	590882	591132	NR	591308	5-6 (45-52)	U1-3	6 (53)
Nissan	Armada	Steel Wheels	2006	2006	315	590882	591132	NR	591308	5-6 (45-52)	U1-3	6 (53)
Nissan	Armada	Alloy Wheels	2006	2006	315	590882	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Nissan	Armada	All	2007	2007	315	590882	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Nissan	Armada	LE	2008	2008	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Nissan	Armada	SE	2008	2008	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Nissan	Armada	All	2009	2015	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Nissan	Armada	433 MHz	2017	2017	433	590883	591132	NR	591306	4 (35)	U1-1	4 (35)
Nissan	Armada	315 MHz	2018	2023	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Nissan	Cube	All	2009	2010	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Nissan	Cube	All (except Krom, SL with keyless ignition)	2011	2011	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Nissan	Cube	Krom, SL (with keyless ignition)	2011	2011	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Nissan	Cube	Manual Transmission (To 03/2012)	2012	2012	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Nissan	Cube	SL (with keyless ignition)	2011	2014	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Nissan	Cube	S (From 03/2012)	2012	2014	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Nissan	Frontier	All	2003	2005	315	590882	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Nissan	Frontier	Alloy Wheels	2006	2006	315	590882	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Nissan	Frontier	Steel Wheels	2006	2006	315	590882	591132	NR	591308	5-6 (45-52)	U1-3	6 (53)
Nissan	Frontier	All	2007	2011	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Nissan	Frontier	with Schrader Sensor	2012	2013	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Nissan	Frontier	with Continental Sensor	2012	2013	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Nissan	Frontier	All	2014	2016	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Nissan	Frontier	All	2017	2018	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Nissan	Frontier	All	2019	2019	315	590880	591134	None	None		None	
Nissan	Frontier	All	2020	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Nissan	GT-R	All	2009	2019	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Nissan	GT-R	All	2020	2022	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Nissan	Kicks	All	2018	2023	433	590881	591134	None	None		None	
Nissan	Juke	S (To 03/2012)	2011	2012	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Nissan	Juke	SL, SV	2011	2011	315	590882						



Make	Model	Sub model / Qualifier Notes	Start Year	End Year	RF	RS Sensor	RS+ Sensor	Valve for OEM Sensor	Service Kit for OEM Sensor	Service Kit Torque Nm (In-lbs)	Universal Kit for OEM Sensor	Universal Kit Torque Nm (In-lbs)
Nissan	Juke	SL, SV (To 02/2012)	2012	2012	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Nissan	Juke	From 03/2012	2012	2016	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Nissan	Juke	Clamp-In Valve	2017	2017	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Nissan	Leaf	All	2011	2013	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Nissan	Leaf	Clamp-In Valve	2014	2017	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Nissan	Leaf	Snap-In Valve	2017	2017	315	590880	591134	None	None		None	
Nissan	Leaf	All	2018	2020	433	590881	591134	None	None		None	
Nissan	Leaf	All	2021	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Nissan	Maxima	To 04/2007	2007	2007	315	590882	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Nissan	Maxima	From 04/2007 To 12/2011	2007	2012	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Nissan	Maxima	From 12/2011	2012	2014	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Nissan	Maxima	Clamp-In Valve	2016	2019	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Nissan	Maxima	Snap-In Valve	2019	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Nissan	Micra	Clamp-In Valve	2015	2016	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Nissan	Micra	Snap-In Valve	2015	2016	433	590881	591134	None	None		None	
Nissan	Micra	with Continental sensor	2017	2019	433	590881	591134	None	None		None	
Nissan	Murano	All	2003	2006	315	590882	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Nissan	Murano	All	2007	2012	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Nissan	Murano	All	2013	2014	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Nissan	Murano	Clamp-In Valve	2015	2019	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Nissan	Murano	Snap-In Valve	2019	2022	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Nissan	NV Van 1500/2500/3500	All	2012	2021	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Nissan	NV200	with Schrader Sensor	2013	2015	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Nissan	NV200	with Continental sensor	2015	2017	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Nissan	NV200	All	2018	2021	315	590880	591134	None	None		None	
Nissan	Pathfinder	Steel Wheels	2003	2005	315	590882	591132	NR	591308	5-6 (45-52)	U1-3	6 (53)
Nissan	Pathfinder	Alloy Wheels (To 12/2006)	2003	2007	315	590882	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Nissan	Pathfinder	From 12/2006	2007	2012	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Nissan	Pathfinder	All	2013	2018	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Nissan	Pathfinder	All	2019	2020	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Nissan	Pathfinder	All	2022	2023	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Nissan	Pathfinder Armada	All	2004	2004	315	590882	591132	NR	591308	5-6 (45-52)	U1-3	6 (53)
Nissan	Qashqai	All	2017	2022	433	590881	591134	None	None		None	
Nissan	Quest	Steel Wheels	2004	2006	315	590882	591132	NR	591308	5-6 (45-52)	U1-3	6 (53)
Nissan	Quest	Alloy Wheels	2005	2006	315	590882	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Nissan	Quest	All	2007	2009	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Nissan	Quest	All	2011	2016	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Nissan	Quest	All	2017	2017	315	590880	591134	None	None		None	
Nissan	Rogue	All	2008	2012	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Nissan	Rogue	All	2013	2013	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Nissan	Rogue	All	2014	2015	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Nissan	Rogue	All	2016	2020	433	590881	591134	None	None		None	
Nissan	Rogue	All	2021	2023	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Nissan	Rogue Select	All	2014	2015	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Nissan	Rogue Sport	All	2017	2022	433	590881	591134	None	None		None	
Nissan	Sentra	Alloy Wheels	2007	2007	315	590882	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Nissan	Sentra	All (Steel Wheels in 2007)	2007	2012	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Nissan	Sentra	Clamp-In Valve	2013	2016	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Nissan	Sentra	Snap-in Valve	2016	2023	315	590880	591134	None	None		None	
Nissan	Titan	Steel Wheels	2004	2005	315	590882	591132	NR	591308	5-6 (45-52)	U1-3	6 (53)
Nissan	Titan	Alloy Wheels	2004	2005	315	590882	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Nissan	Titan	To 04/2007	2006	2007	315	590882	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Nissan	Titan	From 04/2007	2007	2013	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Nissan	Titan	Chrome Wheels	2014	2015	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Nissan	Titan	All (Except Chrome Wheels)	2014	2015	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Nissan	Titan	All	2016	2023	433	590883	591132	NR	591306	4 (35)	U1-1	4 (35)
Nissan	Versa	All	2007	2011	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Nissan	Versa	1.8 (To 01/2012)	2012	2012	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Nissan	Versa	1.8 (From 01/2012)	2012	2012	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Nissan	Versa	Clamp-in (includes 2012 1.6 Models)	2012	2016	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Nissan	Versa	Snap-In Valve	2017	2019	315	590880	591134	None	None		None	
Nissan	Versa	All	2020	2023	433	590881	591134	None	None		None	
Nissan	Versa Note	Clamp-In Valve	2014	2016	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Nissan	Versa Note	Snap-In Valve	2017	2019	315	590880	591134	None	None		None	
Nissan	Xterra	All	2003	2006	315	590882	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Nissan	Xterra	To 12/2011	2007	2012	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Nissan	Xterra	From 01/2012 (with Schrader sensor)	2012	2013	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Nissan	Xterra	From 01/2012 (with Continental sensor)	2012	2013	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Nissan	Xterra	All	2014	2015	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Pontiac	G3	All	2009	2009	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Pontiac	G3 Wave	All	2009	2009	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Pontiac	G5	All	2008	2008	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Pontiac	G5	All	2009	2010	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Pontiac	G6	Clamp-In Valve	2008	2008	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Pontiac	G6	Snap-In Valve	2008	2010	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Pontiac	G8	All	2008	2009	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Pontiac	Grand Prix	All	2007	2008	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Pontiac	Montana	Clamp-In Valve	2008	2009	315	590882	591132	NR	591303	7 (62)	U1-1	4 (35)
Pontiac	Solstice	All	2008	2009	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Pontiac	Torrent	All	2007	2009	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Pontiac	Vibe	All	2008	2010	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Pontiac	Wave	All	2008	2008	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Porsche	718 Spyder	All	2020	2022	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Porsche	911	All	2005	2023	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Porsche	918 Spyder	All	2015	2015	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Porsche	Boxster	All	2005	2022	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Porsche	Carrera GT	All	2004	2005	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Porsche	Cayenne	All	2003	2022	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Porsche	Cayman	All	2006	2022	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Porsche	Macan	All	2015	2023	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Porsche	Panamera	All	2010	2020	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Porsche	Panamera	All	2021	2023	433	590883	591132	Note 1	Note 1	4 (35)	Note 4	
Porsche	Taycan	All	2020	2023	433	590883	591132	Note 1	Note 1	4 (35)	Note 4	

- Note 1: Valve kit comes with different lengths (590801-59085)
- Note 2: U2/591320 stem = stem attaches via screw
No valve available = stem attaches via clip
- Note 3: 591305 = valve with a Torx screw
591309 = valve with a square bolt
- Note 4: Universal Service Kit nut is different thread count than OEM
* OE Stem with parallel flats

Notice: per Federal Motor Vehicle Safety Standard (FMVSS) 138, it is a violation of the law for a "...manufacturer, distributor, dealer, or motor vehicle repair business..." to "...knowingly make inoperative any part of a device or element of design installed on or in a motor vehicle or motor vehicle equipment in compliance with an applicable motor vehicle safety standard" such as TPMS. Alligator TPMS components are designed to monitor tire pressure only and are not designed to provide warning of sudden critical tire damage and/or blowouts caused by external effects. The driver should react promptly to any warning and correct the problem. Tires can fail for other reasons besides low pressure or overloading. Always be on the alert for any other tire problems as indicated by unusual noises, vibrations, uneven tread wear, or bulges on the tire. If any of these symptoms occur, have the tires checked immediately by a professional.

TPMS Application Guide

Make	Model	Sub model / Qualifier Notes	Start Year	End Year	RF	RS Sensor	RS+ Sensor	Valve for OEM Sensor	Service Kit for OEM Sensor	Service Kit Torque Nm (In-lbs)	Universal Kit for OEM Sensor	Universal Kit Torque Nm (In-lbs)
Ram	1500, 2500, 3500	All	2011	2013	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Ram	1500	All	2014	2018	433	590881	591134	None	None		None	
Ram	1500	All	2019	2022	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Ram	1500 Classic	All	2019	2022	433	590881	591134	None	None		None	
Ram	2500 & 3500	4 Wheels	2014	2022	433	590881	591134	None	None		None	
Ram	3500	Dual Rear Wheels	2014	2022	433	590883	591132	None	None		None	
Ram	C/V	All	2012	2015	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Ram	ProMaster	All	2014	2021	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Ram	ProMaster	All	2022	2023	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Ram	ProMaster City	All	2015	2022	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Ram	Dakota	All	2011	2011	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Rolls Royce	Cullinan	with Schrader Sensor	2019	2020	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Rolls Royce	Dawn	All	2017	2019	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Rolls Royce	Ghost	All	2010	2019	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Rolls Royce	Phantom	All	2004	2011	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Rolls Royce	Phantom	with Huf / Beru sensor	2012	2019	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Rolls Royce	Phantom	with Schrader sensor	2017	2019	433	590883	591132	None	591312	4-8 (35-71)	U1-2	6 (53)
Rolls Royce	Wraith	with Huf / Beru sensor	2014	2020	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Saturn	Astra	315 MHz	2009	2009	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Saturn	Astra	All	2008	2008	433	590883	591132	NR	591310	5-10 (44-80)	U1-3	6 (53)
Saturn	Aura	Clamp-In Valve	2007	2008	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Saturn	Aura	Snap-In Valve	2008	2010	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Saturn	Outlook	All	2007	2008	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Saturn	Outlook	All	2009	2010	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Saturn	Sky	All	2008	2010	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Saturn	Vue	All	2008	2010	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Scion	FR-S	All	2013	2016	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Scion	iQ	All	2012	2015	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Scion	iM	All	2016	2016	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Scion	tC	All	2006	2016	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Scion	xB	All	2008	2015	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Scion	xD	All	2008	2014	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Smart	EQ fortwo	All	2019	2019	433	590881	591134	None	None		None	
Smart	Fortwo	Clamp-In Valve	2008	2016	433	590883	591132	None	591312	4-8 (35-71)	U1-3	6 (53)
Smart	Fortwo	Snap-In Valve	2016	2018	433	590881	591134	None	None		None	
Subaru	Ascend	All	2019	2023	433	590881	591134	None	None		None	
Subaru	B9 Tribeca	All	2006	2007	315	590882	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Subaru	BRZ	All	2013	2020	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Subaru	BRZ	All	2022	2023	315	590880	591134	None	None		None	
Subaru	Crosstrek	All	2016	2017	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Subaru	Crosstrek	All	2018	2021	433	590881	591134	None	None		None	
Subaru	Forester	315 MHz	2008	2018	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Subaru	Forester	433 MHz	2019	2023	433	590881	591134	None	None		None	
Subaru	Impreza	315 MHz	2008	2016	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Subaru	Impreza	433 MHz	2017	2021	433	590881	591134	None	None		None	
Subaru	Legacy	All	2005	2007	315	590882	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Subaru	Legacy	Snap-In Valve	2008	2008	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Subaru	Legacy	Clamp-In Valve	2008	2008	315	590882	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Subaru	Legacy	All	2009	2017	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Subaru	Legacy	433 MHz	2018	2023	433	590881	591134	None	None		None	
Subaru	Outback	All	2005	2007	315	590882	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Subaru	Outback	Clamp-In Valve	2008	2008	315	590882	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Subaru	Outback	Snap-In Valve	2008	2008	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Subaru	Outback	All	2009	2017	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Subaru	Outback	433 MHz	2018	2023	433	590881	591134	None	None		None	
Subaru	Solterra	All	2023	2023	433	590882	591132	None	591306	4 (35)	U1-1	4 (35)
Subaru	Tribeca	All	2008	2008	315	590882	591132	NR	591304	4-7 (35-62)	U1-1	4 (35)
Subaru	Tribeca	All	2009	2014	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Subaru	WRX & WRX STI	315 MHz	2013	2021	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Subaru	WRX	All	2023	2023	433	590881	591134	None	None		None	
Subaru	XV Crosstrek	All	2013	2016	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Suzuki	Equator	All	2009	2012	315	590882	591132	NR	591312	4-8 (35-71)	U1-3	6 (53)
Suzuki	Forenza	All	2007	2008	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Suzuki	Grand Vitara	All	2007	2013	315	590882	591132	NR	591310	5-10 (44-80)	U1-3	6 (53)
Suzuki	Kizashi	All	2010	2013	315	590882	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Suzuki	Reno	All	2007	2008	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Suzuki	Swift+	All	2008	2009	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Suzuki	SX4	All	2007	2013	315	590882	591132	NR	591310	5-10 (44-80)	U1-3	6 (53)
Suzuki	SX4 Crossover	All	2012	2012	315	590882	591132	NR	591310	5-10 (44-80)	U1-3	6 (53)
Suzuki	Verona	All	2005	2006	315	590882	591132	NR	591310	5-10 (44-80)	U1-3	6 (53)
Suzuki	XL-7	All	2005	2006	315	590882	591132	NR	591310	5-10 (44-80)	U1-3	6 (53)
Suzuki	XL-7	All	2007	2009	315	590882	591132	None	591301	7 (62)	U1-3	6 (53)
Tesla	3	All	2017	2019	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Tesla	3	Bluetooth TPMS	2021	2021	B/T	None	None	None	591312	4-8 (35-71)	U1-3	6 (53)
Tesla	Roadster	with Huf / Beru sensor	2008	2010	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Tesla	Roadster	with Baolong sensor	2008	2011	433	590883	591132	Note 1	591306	4 (35)	U1-1	4 (35)
Tesla	S	with Baolong sensor	2012	2014	433	590883	591132	Note 1	591306	4 (35)	U1-1	4 (35)
Tesla	S	with Continental sensor	2014	2020	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Tesla	S	Bluetooth TPMS	2021	2021	B/T	None	None	None	591312	4-8 (35-71)	U1-3	6 (53)
Tesla	X	All	2016	2020	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Tesla	X	Bluetooth TPMS	2021	2021	B/T	None	None	None	591312	4-8 (35-71)	U1-3	6 (53)
Tesla	Y	Bluetooth TPMS	2021	2021	B/T	None	None	None	591312	4-8 (35-71)	U1-3	6 (53)
Toyota	C-HR	All	2018	2021	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Toyota	4Runner	To 01/2006	2003	2006	315	590882	591132	NR	591307	4 (35)	U1-1	4 (35)
Toyota	4Runner	From 02/2006	2006	2021	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Toyota	4Runner	Clamp-in Valve	2022	2022	315	590882	591132	None	591306	4 (35)	U1-1	4 (35)
Toyota	4Runner	Snap-In Valve	2022	2022	315	590880	591134	None	None		None	
Toyota	86	All	2017	2020	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Toyota	Avalon	To 10/2015	2007	2016	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Toyota	Avalon	From 10/2015	2016	2019	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Toyota	Avalon	All	2020	2022	315	590880	591134	None	None		None	
Toyota	Camry	All	2007	2019	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Toyota	Camry	Clamp-In Valve	2020	2023	315	590882	591132	None	591306	4 (35)	U1-1	4 (35)
Toyota	Camry	Snap-In Valve	2020	2023	315	590880	591134	None	None		None	
Toyota	Corolla	Clamp-In Valve	2008	2019	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Toyota	Corolla	Snap-In Valve	2019	2022	315	590880	591134	None	None		None	
Toyota	Corolla	Clamp-In Valve	2020	2022	315	590882	591132	None	591306	4 (35)	U1-1	4 (35)
Toyota	Corolla Cross	Snap-In Valve	2022	2022	315	590880	591134	None	None		None	
Toyota	Corolla Cross	Clamp-In Valve	2022	2022	315	590882	591132	None	591306	4 (35)	U1-1	4 (35)
Toyota	Corolla iM	All	2017	2018	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Toyota	FJ Cruiser	All	2008	2014	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Toyota	GR86	All	2022	2023	315	590880	591134	None	None		None	

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Make	Model	Sub model / Qualifier Notes	Start Year	End Year	RF	RS Sensor	RS+ Sensor	Valve for OEM Sensor	Service Kit for OEM Sensor	Service Kit Torque Nm (In-lbs)	Universal Kit for OEM Sensor	Universal Kit Torque Nm (In-lbs)
Toyota	Highlander	All	2008	2013	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Toyota	Highlander	All	2014	2022	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Toyota	Land Cruiser	All	2005	2021	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Toyota	Matrix	All	2008	2014	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Toyota	Mirai	All	2016	2020	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Toyota	Mirai	All	2021	2023	315	590880	591134	None	None		None	
Toyota	Prius	All	2005	2021	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Toyota	Prius	All	2022	2022	315	590880	591134	None	None		None	
Toyota	RAV4	All	2006	2020	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Toyota	RAV4	Japan-Built	2020	2020	315	590882	591132	None	591306	4 (35)	U1-1	4 (35)
Toyota	RAV4	non-Japan-Built	2020	2020	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Toyota	RAV4	with TRW sensor	2021	2021	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Toyota	RAV4	Clamp-In (w/Pacific sensor)	2021	2021	315	590882	591132	None	591306	4 (35)	U1-1	4 (35)
Toyota	RAV4	Snap-In (w/Pacific sensor)	2021	2023	315	590880	591134	None	None		None	
Toyota	RAV4	Clamp-In Valve	2023	2023	315	590882	591132	None	591306	4 (35)	U1-1	4 (35)
Toyota	Sequoia	All	2005	2017	315	590882	591132	NR	591307	4 (35)	U1-1	4 (35)
Toyota	Sequoia	To 12/2020	2018	2021	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Toyota	Sequoia	From 12/2020	2021	2023	315	590880	591134	None	None		None	
Toyota	Sienna	All	2007	2020	315	590882	591132	NR	591307	4 (35)	U1-1	4 (35)
Toyota	Sienna	All	2021	2023	315	590882	591132	None	591313	4 (35)	U1-1	4 (35)
Toyota	Solara	All	2006	2008	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Toyota	Supra	All	2020	2023	433	590883	591132	Note 1	Note 1	4 (35)	None	
Toyota	Tacoma	All	2006	2006	315	590882	591132	NR	591307	4 (35)	U1-1	4 (35)
Toyota	Tacoma	Steel Wheels	2007	2015	315	590882	591132	NR	591307	4 (35)	U1-1	4 (35)
Toyota	Tacoma	Alloy Wheels	2007	2015	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Toyota	Tacoma	Clamp-In Valve	2016	2022	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Toyota	Tacoma	Snap-In Valve	2021	2022	315	590880	591134	None	None		None	
Toyota	Tundra	All	2005	2017	315	590882	591132	NR	591307	4 (35)	U1-1	4 (35)
Toyota	Tundra	All	2018	2021	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Toyota	Tundra	All	2022	2022	315	590880	591134	None	None		None	
Toyota	Tundra	Clamp-In Valve	2023	2023	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Toyota	Venza	All	2009	2016	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Toyota	Venza	All	2021	2023	315	590880	591134	None	None		None	
Toyota	Yaris	All	2008	2019	315	590882	591132	NR	591306	4 (35)	U1-1	4 (35)
Volkswagen	Arteon	Direct TPMS	2019	2020	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Volkswagen	Arteon	Direct TPMS	2021	2023	433	590883	591132	Note 1	Note 1	4 (35)	None	
Volkswagen	Beetle	Direct TPMS	2008	2010	315	590882	591132	None	591318	8 (71)	U1-3	6 (53)
Volkswagen	CC	315 MHz	2009	2011	315	590882	591132	None	591318	8 (71)	U1-3	6 (53)
Volkswagen	CC	433 MHz	2010	2011	433	590883	591132	None	591318	8 (71)	U1-3	6 (53)
Volkswagen	CC	Direct TPMS	2012	2015	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Volkswagen	CC	Direct TPMS	2017	2017	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Volkswagen	Eos	Direct TPMS	2007	2016	315	590882	591132	None	591318	8 (71)	U1-3	6 (53)
Volkswagen	Golf City	All	2008	2010	315	590882	591132	None	591318	8 (71)	U1-3	6 (53)
Volkswagen	Golf	Direct TPMS	2023	2023	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Volkswagen	GTI	17" wheels	2006	2007	315	590882	591132	None	591318	8 (71)	U1-3	6 (53)
Volkswagen	GTI	18" wheels	2006	2007	315	590882	591132	None	591317	8 (71)	U1-3	6 (53)
Volkswagen	GTI	Direct TPMS	2008	2012	315	590882	591132	None	591318	8 (71)	U1-3	6 (53)
Volkswagen	Jetta	Direct TPMS	2006	2011	315	590882	591132	None	591318	8 (71)	U1-3	6 (53)
Volkswagen	Jetta City	All	2007	2009	315	590882	591132	None	591318	8 (71)	U1-3	6 (53)
Volkswagen	Passat	18" wheels	2006	2008	315	590882	591132	None	591317	8 (71)	U1-3	6 (53)
Volkswagen	Passat	All (except 18" wheels)	2006	2008	315	590882	591132	None	591318	8 (71)	U1-3	6 (53)
Volkswagen	Passat	Direct TPMS	2009	2010	315	590882	591132	None	591318	8 (71)	U1-3	6 (53)
Volkswagen	Passat CC	Direct TPMS (315 MHz)	2009	2010	315	590882	591132	None	591318	8 (71)	U1-3	6 (53)
Volkswagen	Passat CC	Direct TPMS (433 MHz)	2010	2010	433	590883	591132	None	591318	8 (71)	U1-3	6 (53)
Volkswagen	Phaeton	All	2004	2006	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Volkswagen	R32	All	2008	2008	315	590882	591132	None	591318	8 (71)	U1-3	6 (53)
Volkswagen	Rabbit	All	2006	2009	315	590882	591132	None	591318	8 (71)	U1-3	6 (53)
Volkswagen	Routan	All	2009	2010	433	590883	591132	None	591301	7 (62)	U1-3	6 (53)
Volkswagen	Routan	All	2011	2014	433	590881	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Volkswagen	Tiguan	Direct TPMS	2009	2011	315	590882	591132	None	591318	8 (71)	U1-3	6 (53)
Volkswagen	Tiguan	Direct TPMS	2012	2020	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Volkswagen	Tiguan	Direct TPMS	2021	2023	433	590883	591132	Note 1	Note 1	4 (35)	None	
Volkswagen	Tiguan Limited	Direct TPMS	2018	2018	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Volkswagen	Touareg	Direct TPMS	2004	2017	433	590883	591132	Note 1	Note 3	4 (35)	U1-1	4 (35)
Volvo	C30	All	2007	2009	433	590883	591132	None	591301	7 (62)	U1-3	6 (53)
Volvo	C30	All	2010	2013	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Volvo	C70	All	2008	2013	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Volvo	S40	All	2008	2011	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Volvo	S60	315 MHz	2001	2009	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Volvo	S60	433 MHz	2001	2009	433	590883	591132	NR	591303	7 (62)	U1-3	6 (53)
Volvo	S60	All	2011	2018	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Volvo	S60 Cross Country	Direct TPMS	2016	2018	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Volvo	S80	315 MHz	2000	2006	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Volvo	S80	All	2007	2011	433	590883	591132	None	591301	7 (62)	U1-3	6 (53)
Volvo	S80	All	2012	2016	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Volvo	S90	with Schrader sensor	2018	2018	433	590881	591134	None	None		None	
Volvo	V50	All	2008	2011	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Volvo	V60	Direct TPMS	2015	2019	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Volvo	V60 Cross Country	Direct TPMS	2015	2019	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Volvo	V70	315 MHz	2000	2007	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Volvo	V70	433 MHz	2000	2007	433	590883	591132	NR	591303	7 (62)	U1-3	6 (53)
Volvo	V70	All	2008	2010	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Volvo	V90	with Schrader sensor	2018	2018	433	590881	591134	None	None		None	
Volvo	V90 Cross Country	with Schrader sensor	2017	2018	433	590881	591134	None	None		None	
Volvo	XC60	Direct TPMS	2010	2020	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Volvo	XC70	315 MHz	2003	2007	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Volvo	XC70	433 MHz	2003	2007	433	590883	591132	NR	591303	7 (62)	U1-3	6 (53)
Volvo	XC70	All	2008	2011	433	590883	591132	None	591301	7 (62)	U1-3	6 (53)
Volvo	XC70	All	2012	2016	433	590883	591132	591326	591315/316	8 (71)	U1-3	6 (53)
Volvo	XC90	315 MHz	2003	2007	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Volvo	XC90	433 MHz	2003	2007	433	590883	591132	NR	591303	7 (62)	U1-3	6 (53)
Volvo	XC90	315 MHz	2008	2014	315	590880	591134	591320	591320	1.4 (12) Screw	U2	1.4 (12) Screw
Volvo	XC90	Direct TPMS	2016	2020	433	590881	591134	None	None		None	

- Note 1: Valve kit comes with different lengths (590801-59085)
- Note 2: U2/591320 stem = stem attaches via screw
No valve available = stem attaches via clip
- Note 3: 591305 = valve with a Torx screw
591309 = valve with a square bolt
- Note 4: Universal Service Kit nut is different thread count than OEM
* OE Stem with parallel flats

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Program/Clone Sensors



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Part No.	Description	Sensor Type	Radio Frequency	Cable Connection	Housing
590922	PT1 Desktop pad tool	sens.it RS	315 & 433 MHz	USB	Rubber sleeve



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Part No.	Description	Sensor Type	Radio Frequency	Cable Connection	Housing
030212	AVT41 Wireless Tool	sens.it RS	315 & 433 MHz	USB	Rubber sleeve