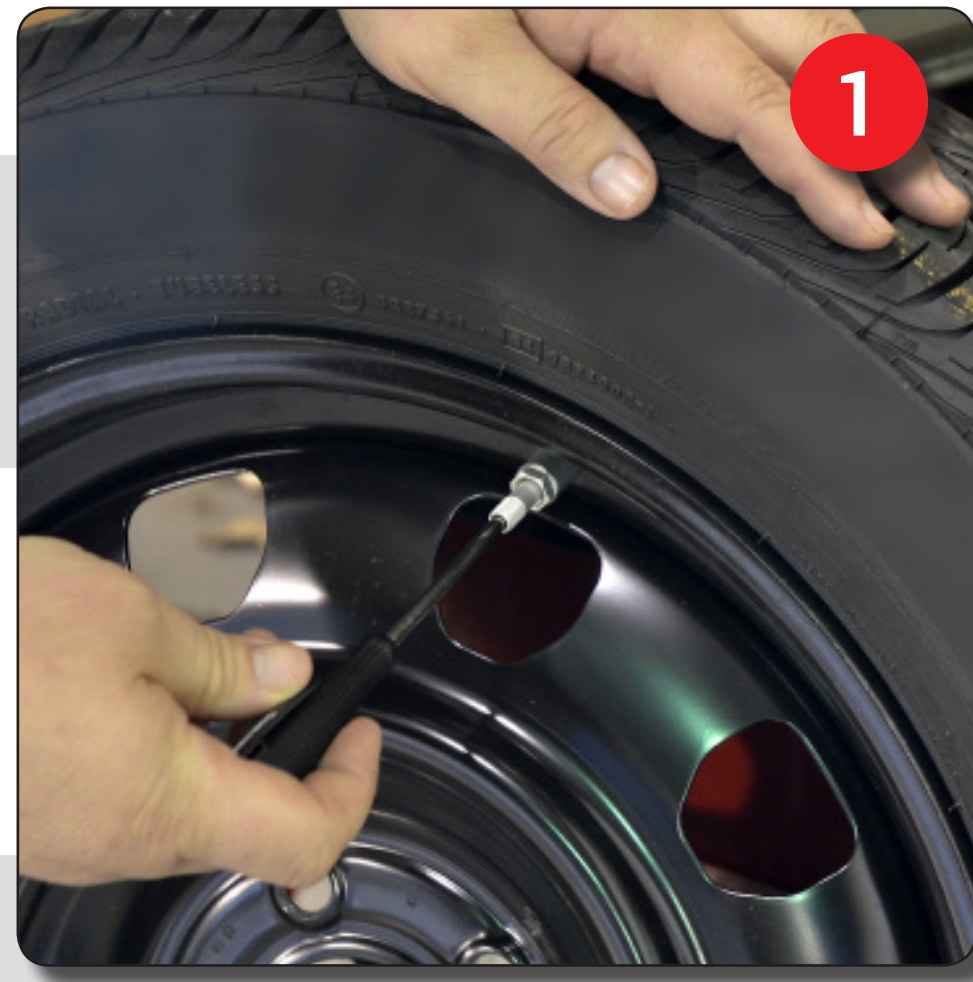




TPMS Sensor Removal & Installation



1 Remove the valve core to allow all the air to escape. >>> Discard the old valve core.



Valve Core Removal

2 **Removing a clamp-in sensor before dismount:** Remove the mounting nut from the stem and allow the sensor to fall into the wheel/tire assembly. >>> Discard old nut.



Sensor Nut Removal

3 **With Sensor Removed:** Bounce the wheel/tire to ensure that the sensor has fallen free. >>> Break the bead free from the rim on the shallow side first. >>> Follow by breaking the bead from the deep side.



Breaking Bead with Sensor Removed

4 **With sensor installed:** Remember that it is important to locate a band mounted sensor and mark the location on the tire prior to removal from the vehicle. >>> Once the position of the sensor is known, position the Tire / Wheel Assembly so that the sensor is located at 6 and 12 o'clock positions at all times when breaking the bead.



Break bead at 6 o'clock and 12 o'clock positions at all times

5 **With sensor installed:** To remove the tire, liberally lube the bead and position the wheel assembly such that the mount/demount head is slightly ahead of the sensor (or the mark on sidewall if band-mounted). >>> The tire should dismount without coming in contact with and causing damage to the sensor. >>> Repeat when removing the bottom bead.



Mount/demount head just ahead of sensor

6 Remove sensor and **inspect for evidence of damage** or tire sealants. >>> Replace sensor if necessary. >>> If the sensor is to be re-installed, remove the sensor to a dry, clean location.



Sensor inspection

7 **Snap-in sensor removal:** Remove T-10 screw from back of sensor using 20140 tool, then using a standard TTV tool pull old rubber valve stem through hole and discard.



Snap-in removal

8 **When installing a clamp-in sensor,** a new grommet, mounting nut, special nickel-plated valve core, and sealing cap must be used. **NEVER RE-USE OLD COMPONENTS.**



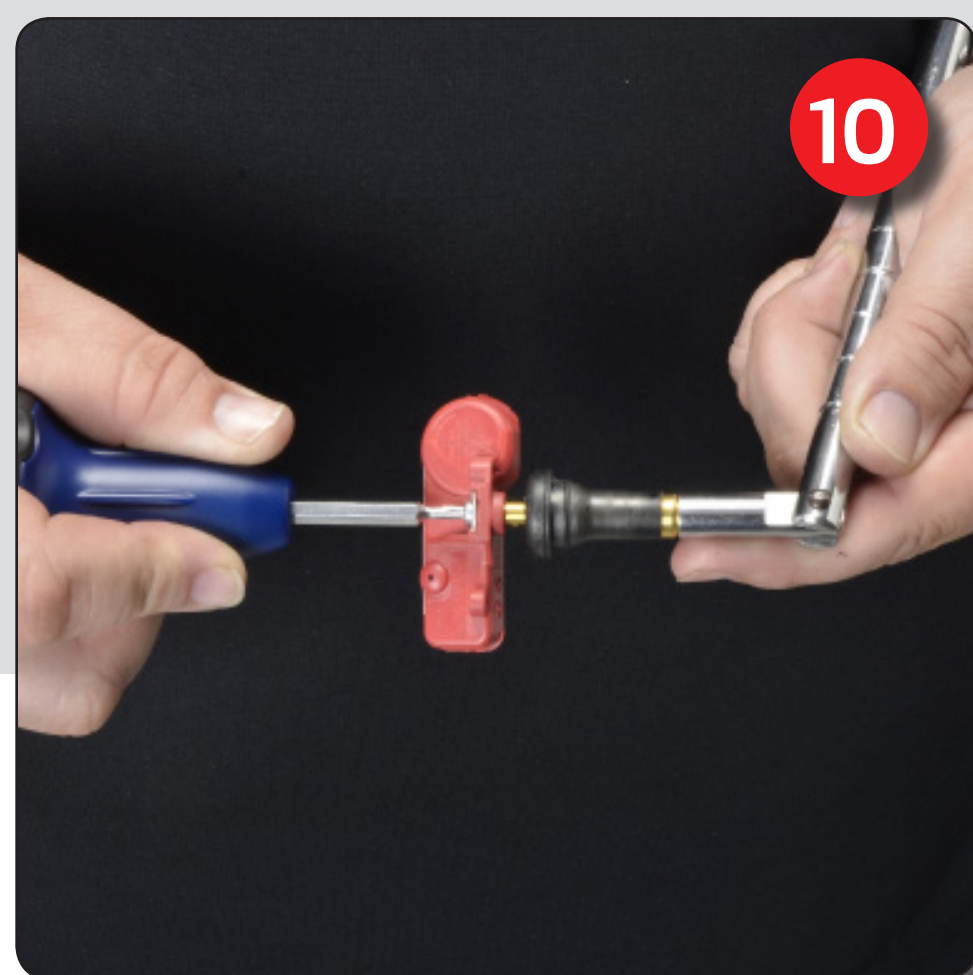
Clamp-in assembly

9 Insert the sensor through the rim hole with the flat side of the sensor facing toward the wheel. >>> Tighten the mounting nut to the specified torque as defined in the Schrader TPMS Application Guide, using the 20142 Mounting Nut Torque Tool.



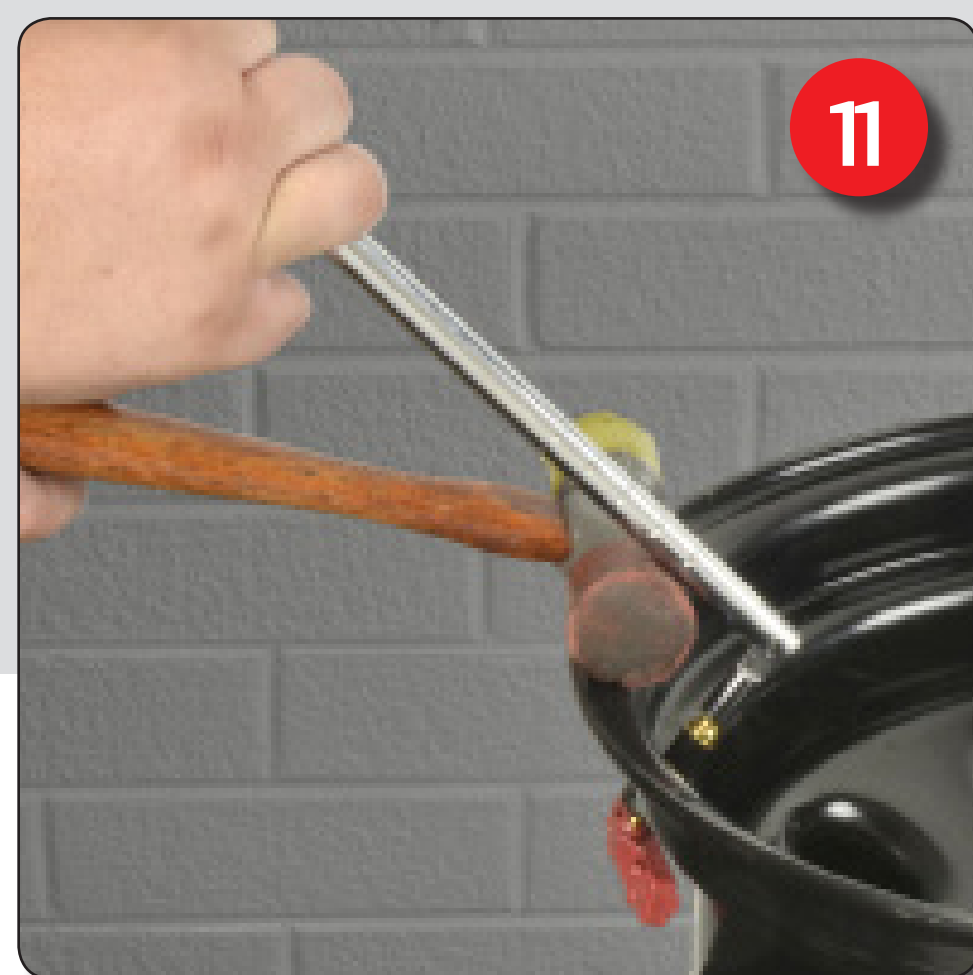
Clamp-in installation/torquing

10 **Recommended method for assembling a Snap-in sensor:** Attach TTV tool to valve stem. Insert the valve into the sensor body aligning the flats on the brass stem to the flats on the receiving hole of the sensor body. Use valve pull tool to prevent valve from spinning. Use the T-10 tool to assemble the valve to the sensor body before inserting the assembly into the wheel rim hole. **NEVER RE-USE OLD COMPONENTS.**



Torque snap-in assembly to 11.5 In-lbs

11 **To install the sensor into the wheel,** use a standard TTV tool to pull the stem straight through the rim hole. To avoid damaging the stem and/or sensor, a rubber mallet or similar device may be placed between the tool and rim flange to ensure the valve is pulled straight.



Snap-in installation

12 Position the rim so that the sensor is 90° or ¼ turn to the right of the mount/demount head. >>> Liberally lubricate the beads of the tire. >>> While the machine is rotating, maintain pressure on the tire between the starting point of the sensor and the mount/demount head to keep the bead of the tire in the drop center of the wheel. >>> This will allow the tire to be installed without damage to the sensor. >>> Note: All tires are mounted with the sensor installed in the wheel.



Tire installation - sensor installed (all sensor types)

CAUTION: DO NOT re-use the removed valve core. Always replace with a new electroless nickel-plated valve core (aluminum stem). Use of non-electroless nickel-plated cores with aluminum valve stems can result in galvanic corrosion and loss of tire pressure. Tighten core with an approved valve core tool to 0.23Nm - 0.56Nm (2 in-lbs. - 5 in-lbs.) - Do Not Over tighten!

Correct



Incorrect

