

Tire Mount/Dismount on Wheels with Valve Stem Mounted Tire Pressure Monitoring Sensors

TECH TIP for removal/installation of the tire is available in the PTS / Motorcraft web sites under service tips. Audio/Video TPMS training course #30N14W0 is recommended for proper tire service procedure. For complete details refer to Sec. 204-04 Wheel and Tires in workshop manual.

Valve Stem Mounted:

1. Installed on Aviator '03-'05, Explorer/Mountaineer '03-'05 and Expedition/Navigator '03-'06.
2. Identified by aluminum valve stem and retaining rut.
3. TPMS sensor is attached to the back of the valve stem.



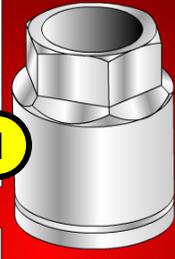
Aluminum valve stem

TPMS sensor



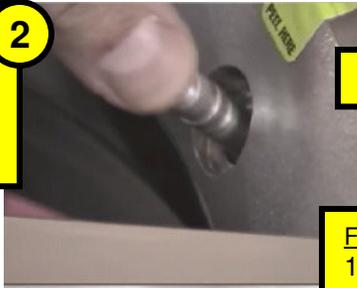
Remove retaining nut. Do not remove the valve stem core to relieve the tire pressure.

1



Push the sensor by hand into the tire (with the cap on) and relieve tire pressure.

2



Break tire beads

3



Paddle Type

For tire mount:

1. Install new grommet on the sensor.
2. Mount tire beads on wheel.
3. Push tire down to expose area and install sensor so the "flat" side of the sensor must be facing the wheel and the "slanted" side of the sensor must be facing away from the wheel, there will be a very small gap between the sensor and the wheel.
4. Tighten the retaining nut to 5Nm (equals approx. 2 clockwise turns after the nut has been tightened by hand).
5. Inflate the tire using only round head air chucks.

4

For tire dismount:

1. Remove top bead.
2. Remove the tire pressure sensor from the tire and discard the sensor grommet.
3. Remove bottom bead.



5

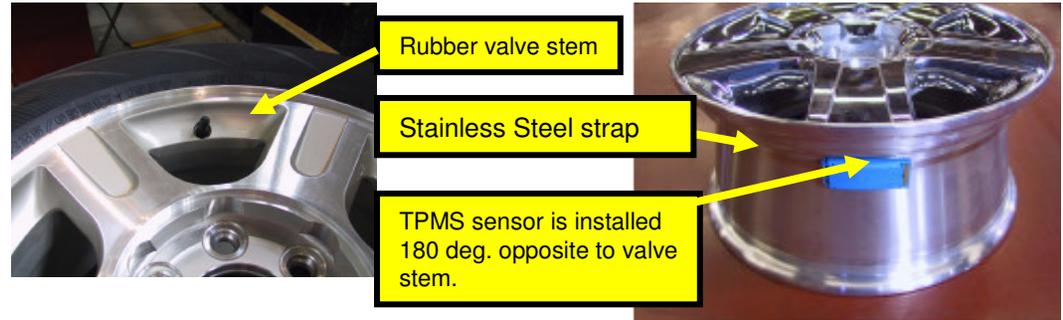


Tire Mount/Dismount on Wheels with Rim Mounted Tire Pressure Monitoring Sensors

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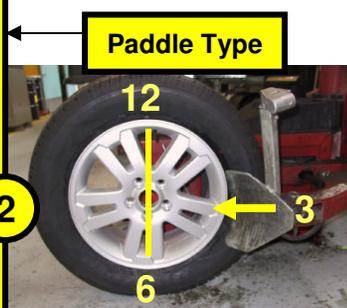
Rim mounted TPMS sensor:

1. Installed on Explorer/Mountaineer '06, Escape/Mariner/Hybrid '06, Freestar/Monterey '06 and '07 Sport Trac, '07 Ranger, '07 Mustang, Edge/MKX, '07 F-Series except for vehicles that call for different front/rear tire pressure settings. and most 2008 vehicles .
2. Sensor is banded to wheel by steel strap.
3. Sensor is 180 deg opposite to valve stem.
4. Wheels are stamped or cast at the back with verbiage "SENSOR MAY BE INSIDE".



1 Index mark the valve stem & wheel weights.

For paddle-type tire machine, position the valve stem at 12 or 6 o'clock and the paddle at 3 o'clock position.



For a roller-type tire machine, align the valve stem with the roller at any position.



Do not allow the tire beads to move beyond the wheel mid-plane (middle of the wheel) when separating the beads from the wheels or damage to the TPMS sensor may occur.

Tire Dismount



3 Position valve hole at 5:30 position relative to machine arm at 12 o'clock and dismount top tire bead.



4 Reposition valve hole at 5:30 and dismount bottom tire bead.

Tire Mount



5 Position valve hole at 12 o'clock (under tire machine mounting head) and mount the bottom tire bead.



6 Reposition valve hole at 12 o'clock and mount top tire bead.

