



Motorcraft

TPMS SENSOR REPLACEMENT

IDENTIFY SENSOR TYPE: There are three Sensor Designs

Make **MOTORCRAFT**® your first choice for Ford, Lincoln and Mercury replacement parts!



VALVE MOUNTED BOLT-ON
2002-2006 Light Truck



BANDED
2006-2008 Car & Light Truck



VALVE MOUNTED SNAP-IN
2009 Light Truck

For instructions on Mounting or Dismounting tire:

- If Valve Mounted Bolt-On, go to page 2
- If Banded, go to page 3
- If Valve Mounted Snap-In, go to page 4

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VALVE MOUNTED BOLT-ON SENSORS 2002-2006 Light Truck

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MOUNTING AND DISMOUNTING TIRES



Aluminum valve stem



TPMS sensor

- Identified by aluminum valve stem and retaining nut.
- TPMS sensor is attached to the back of the valve stem.

Tire Dismounting



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



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



- Break tire beads.



- Remove top bead.
- Remove the sensor from the tire.
- Discard the sensor grommet.
- Remove bottom bead.



Tire Mounting

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



BANDED SENSORS 2006-2008 Car & Light Truck

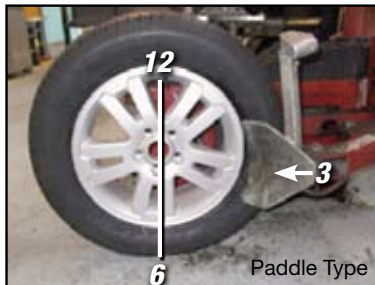
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MOUNTING AND DISMOUNTING TIRES

Tire Bead Breaking



- Banded Sensors are mounted 180° opposite the valve stem.
- Sensor is banded to wheel by strap.
- Wheels are stamped or cast with, "SENSOR MAY BE INSIDE".
- NOTE: *Banded sensors* may also be referred to as *Rim Mounted sensors*.



Paddle Type

- Index mark the valve stem & wheel weights.
- For paddle-type tire machines, position the valve stem at 12 or 6 o'clock and the paddle at 3 o'clock.



Roller Type

- 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 middle of the wheel when separating the beads from the wheels or damage to the TPMS sensor may occur.

Tire Dismounting



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

Tire Mounting



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



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



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





VALVE MOUNTED SNAP-IN 2009 Light Truck

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MOUNTING AND DISMOUNTING TIRES



- Valve Mounted Snap-In Sensors are always bolted to the valve stem.



- The valve stem has a shoulder after the threads.
- A longer cap is installed on the valve stem.

Tire Bead Breaking

Tire machine with Side Paddle



- Locate valve stem @ 6 o'clock or 12 o'clock (For front & back side of wheel breaking)

-OR-

Tire machine with Top & Bottom Rollers



- Locate valve stem at any position.
- Do not push bead into sensor from bottom side.

Tire Dismounting

Top Bead Removal



12:00

- Set valve stem @ 2:00
- Remove top bead

NOTE: The location of the tire machine arm is 12:00

Bottom Bead Removal (Critical step)



- Reset valve stem @ 2:00
- Remove bottom bead

Reset valve stem back to 2:00

Tire Mounting

Bottom Bead Installation



12:00

- Set valve stem @ 4 o'clock
- Mount bottom bead

Top Bead Installation



Reset valve stem back to 4:00

- Reset valve stem @ 4 o'clock
- Mount top bead