
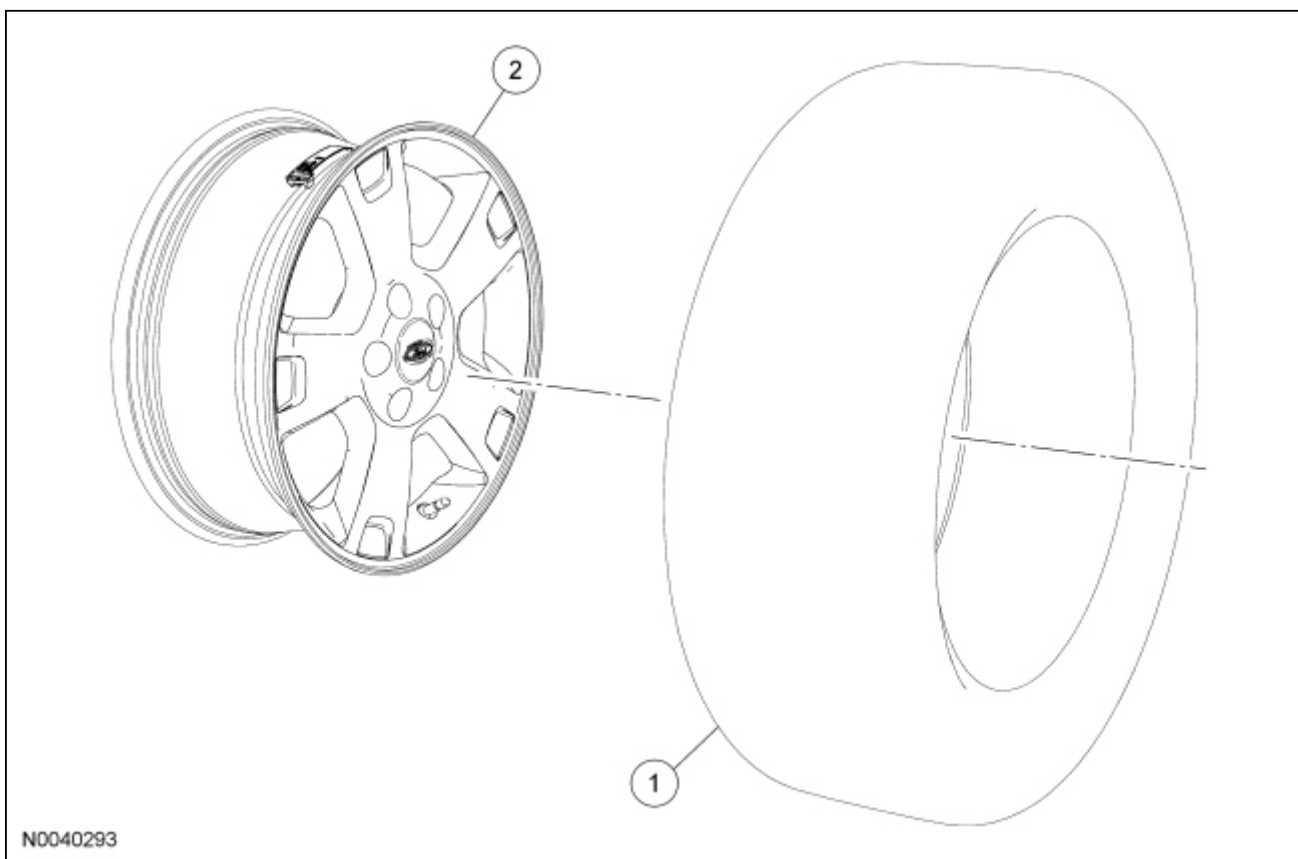


## Wheel and Tire

### Special Tool(s)

 <p>ST2869-A</p>	<p>Digital Tire Pressure Gauge                  204-354</p>
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Item	Part Number	Description
1	1508	Tire
2	1007	Wheel

### Disassembly

**NOTICE:** Failure to follow the instructions below may result in damage to the Tire Pressure Monitoring System (TPMS) sensor.

**NOTE:** Use only the Digital Tire Pressure Gauge any time tire pressures are measured to be sure that accurate values are obtained.

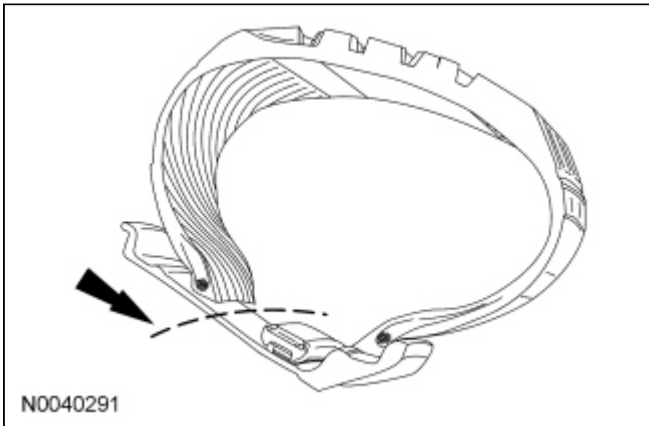
**NOTE:** A wheel and tire equipped with a Tire Pressure Monitoring System (TPMS) sensor will have the following


verbiage stamped or cast on the wheel: SENSOR MAY BE INSIDE.  An animated version of this procedure is available on-line.


**NOTE:** The **TPMS** sensor is mounted to the wheel 180 degrees opposite of the valve stem and is held in place by a stainless steel strap. The sensor is not mounted to the valve stem.

1. Remove the wheel and tire. For additional information, refer to [Wheel and Tire](#) in this section.

**NOTICE:** Do not allow the tire beads to move beyond the wheel mid-plane (middle of the wheel) when separating the beads from the wheels, damage to the Tire Pressure Monitoring System (TPMS) sensor may occur.

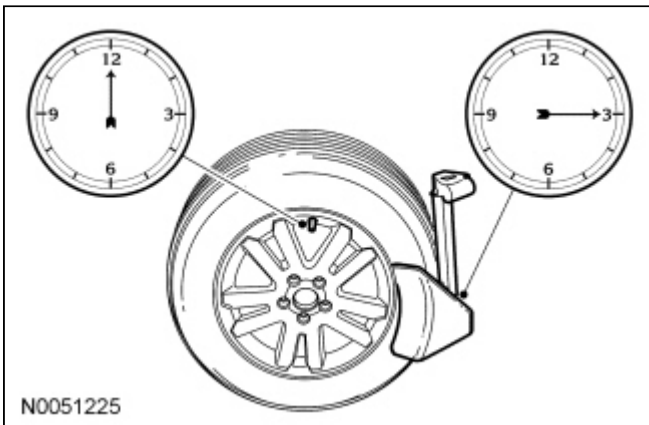


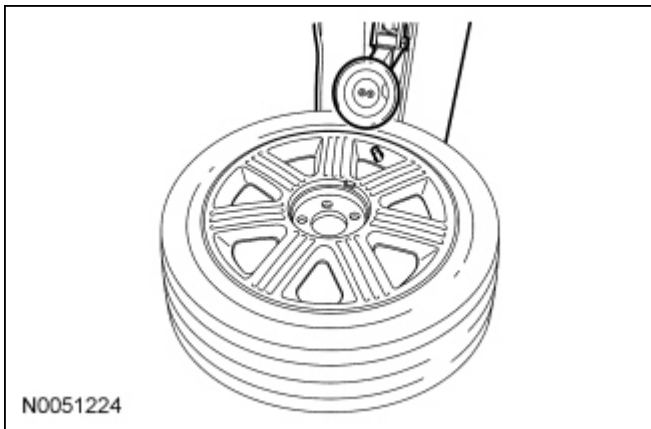
2. **NOTICE:** Tire and valve stem position is critical to prevent damage to the Tire Pressure Monitoring System (TPMS) sensor when using a paddle-type bead separator.  An animated version of this procedure is available on-line.


**NOTE:** Some machines may have a nylon roller bead separator at the 12 o'clock position instead of the paddle-type bead separator at the 3 o'clock position.  An animated version of this procedure is available on-line.

Position the wheel and tire assembly on a suitable tire machine and separate both beads of the tire from the wheel.

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

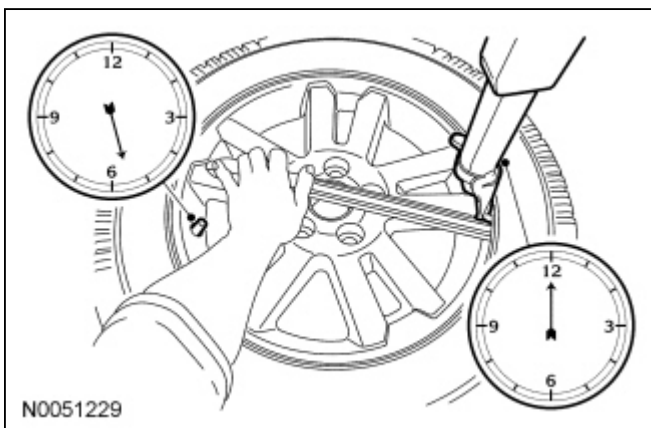




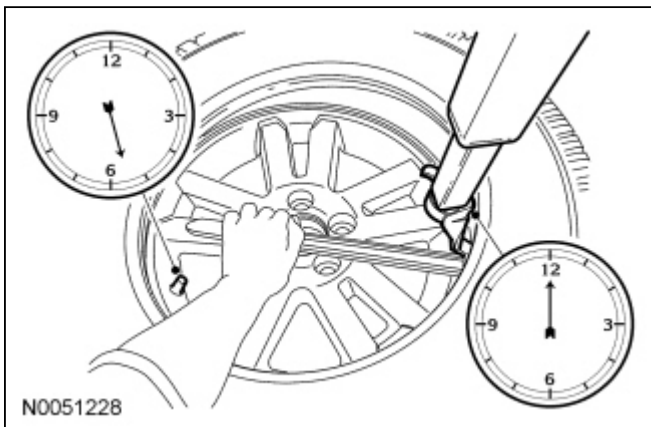
3. **NOTE:**  A video version of this procedure is available on-line.

**NOTE:** Index-mark the valve stem and wheel weight positions on the tire.

Place the wheel and tire assembly on the turntable of the tire machine with the valve stem between the 5 o'clock and 6 o'clock positions and the machine arm at the 12 o'clock position and dismount the outer bead from the wheel.



4. Reset the wheel and tire assembly on the turntable of the tire machine with the valve stem between the 5 o'clock and 6 o'clock positions and the machine arm at the 12 o'clock position and dismount the inner bead from the wheel.



5. Inspect the [TPMS](#) sensor, cradle and strap for damage. Install new parts as necessary.
- For information on removal and installation of the [TPMS](#) sensor, refer to [Tire Pressure Monitoring System \(TPMS\) Sensor](#) in this section.


- When installing a new wheel, reuse the **TPMS** sensor from the previous wheel if possible. The **TPMS** will not have to be trained if the sensor is reused. The new wheel will not come with a sensor strap. A sensor strap kit will need to be ordered with the new wheel.

## Assembly


**NOTICE:** Damage to the Tire Pressure Monitoring System (TPMS) sensor may result if the tire mounting is not carried out as instructed.

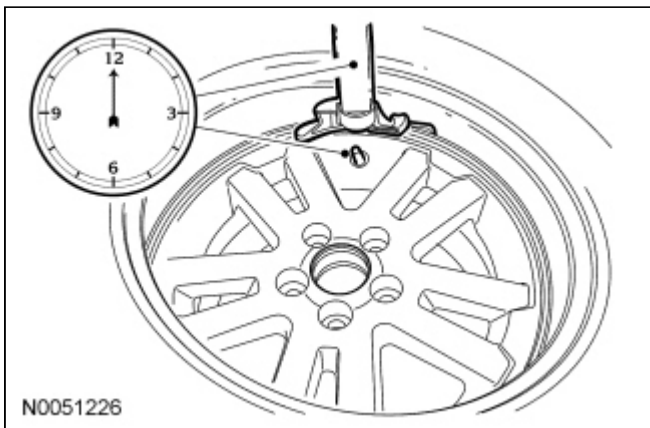
1. **NOTICE:** Lubricate the tire beads using a suitable fast drying, corrosion-inhibiting tire bead lubricant. Use of anything other than tire bead lubricant may result in damage to the Tire Pressure Monitoring System (TPMS) sensor.

**NOTE:** Do not mount the tire at this time.

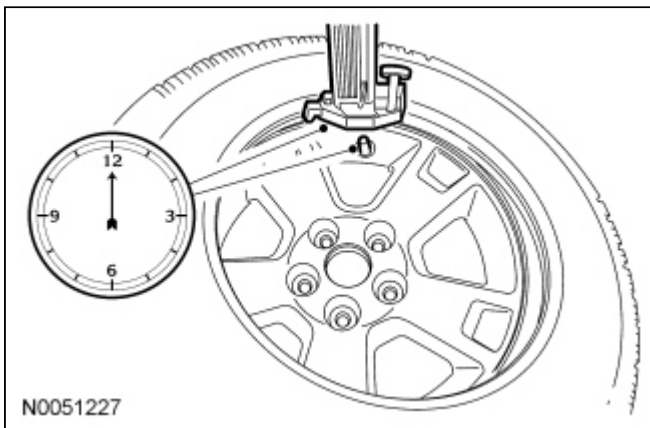
**NOTE:**  A video version of this procedure is available on-line.

Position the wheel on the turntable of the tire machine, then lubricate and position the bottom bead of the tire on the wheel.

2. Position the wheel to align the valve stem with the machine arm at the 12 o'clock position and mount the bottom bead of the tire.  A video version of this procedure is available on-line.




3. Reposition the wheel to align the valve stem with the machine arm at the 12 o'clock position and mount the top bead of the tire.



4. **NOTE:** Use only the Digital Tire Pressure Gauge any time tire pressures are measured to make sure that accurate values are obtained.

Using the Digital Tire Pressure Gauge, inflate the tire to the pressure specified on the Vehicle Certification (VC) label located on the driver door or door pillar.

- Proceed to Step 5 if the tire beads do not seat at the specified inflation pressure.

5.  **WARNING: If there is a need to exceed the maximum pressure indicated on the sidewall of the tire, in order to seat the beads, follow ALL the steps listed below. Failure to follow these steps may result in serious personal injury.**

**The following steps should only be carried out if the tire beads cannot be seated by inflating the tire up to the maximum inflation pressure listed on the tire sidewall.**

1. Relubricate the tire bead and wheel bead seat area.
  2. Install a remote valve and pressure gauge.
  3. Wear eye and ear protection and stand at a minimum of 3.65 m (12 ft) away from the wheel and tire assembly.
  4. Inflate tire using the remote valve and pressure gauge until the beads have seated or until the pressure gauge is 138 kPa (20 psi) more than maximum inflation pressure on tire sidewall. If beads have not seated, deflate the tire and proceed to the next step.
  5. Place the wheel and tire assembly in an OSHA-approved tire safety cage.
  6. Inflate the tire using the remote valve and pressure gauge until the beads have seated or until the pressure gauge is 276 kPa (40 psi) more than maximum inflation pressure on the tire sidewall. **Do not exceed 276 kPa (40 psi) above the maximum pressure on tire sidewall. Install a new tire if the beads do not seat at this pressure.**
6. Install the wheel and tire. For additional information, refer to [Wheel and Tire](#) in this section.
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