

Tire Safety

Clifton Walking Elk, Corporate Trainer



Reaching New Heights

34th Annual North Central Local Roads Conference
Rapid City, SD - October 16-17, 2019





The jury found that Goodyear Tire & Rubber failed to provide adequate warning about both the existence and cause of sidewall zipper failures when inflating an underinflated tire.

Goodyear to Pay \$6.73 Million After Man Dies Following Tire Explosion, Louisiana Judge Rules

Published on September 19, 2019 03:20 PM



A Louisiana district court has instructed the [Goodyear Tire & Rubber Co.](#) to pay \$6.73 million in response to the tire explosion death of a Plaquemines Parish, Louisiana, garbage truck driver, according to the law firm Kaster Lynch Farrar & Ball. The jury found that Goodyear Tire & Rubber failed to provide adequate warning about both the existence and cause of sidewall zipper failures when inflating an underinflated tire.

The law firm says on Feb. 5, 2014, Elwood Breaux Jr. and a co-worker were inflating a G182 tire after noticing that the tire pressure was low. Breaux was holding the tire upright when the sidewall ruptured. The force of the air escaping from the tire threw him backward, and he sustained internal injuries to his chest and abdomen. Breaux never left the hospital and died from his injuries 28 days later.

In his recent Sept. 10 decision, Judge Michael Clement ruled that Goodyear had not carried out its duty to warn Breaux and co-workers about the tires' dangers and how to avoid being injured. Clement ordered Goodyear to pay \$6.73 million to Breaux's wife and six children with an additional \$481,075 going to the parish for workers' compensation.

"We are disappointed with the verdict and will appeal," said James Peate, director of global functions communications for Goodyear.



Steer Tires





Stone Drilling



Front Wheels:

Rim

- Not bent
- Not cracked
- No welding repairs

Lug Nuts

- None are missing
- Tight – no shinny threads, or rust trails

Outer Hub Oil Seal

- Not leaking
- No missing bolts
- Proper oil level

Valve stem

- No cuts
- No damages
- No missing.



Lug Nuts:

- None are missing
- Tight – no shiny threads, or rust trails

Rim:

- Not bent
- Not cracked
- No welding repairs

Outer Hub Oil Seal:

- Not leaking
- No missing bolts
- Proper oil level

Valve stem:

- No cuts
- No damages
- No missing.

Space:

- Check for objects between wheels
- Check for proper spacing

Splash Guards:

- Not missing or torn and properly mounted







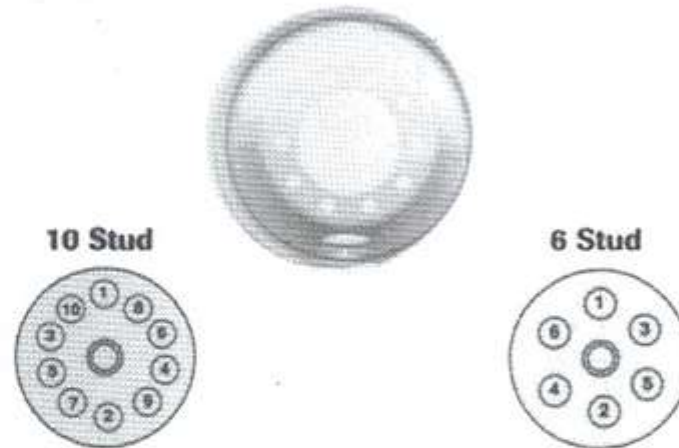
**Front Axle
Notch Count**





Stud Piloted Wheels

STUD PILOTED WHEELS



RECOMMENDED TORQUE - DRY:

- $\frac{3}{4}$ - 16 THREAD: 450 - 500 FT. LBS.
- $1 \frac{1}{8}$ - 16 THREAD: 450 - 500 FT. LBS.
- $\frac{15}{16}$ - 12 THREAD: 750 - 900 FT. LBS.
- $1 \frac{5}{16}$ - 12 THREAD: 750 - 900 FT. LBS.

Hub Piloted Wheels

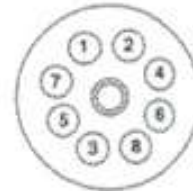
HUB PILOTED WHEELS



10 Stud



8 Stud



RECOMMENDED TORQUE – OILED*:

M22 X 1.5 THREAD: 450 - 500 FT. LBS. (33mm or 1 1/2 HEX)

M20 X 1.5 THREAD: 280 - 330 FT. LBS. (30mm Hex)

Spoke Rims

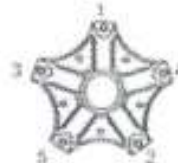
DEMOUNTABLE RIMS



3 Spoke



5 Spoke



6 Spoke



RECOMMENDED TORQUE - DRY:

$\frac{3}{4}$ - $\frac{1}{2}$ 10 THREAD: 200 - 260 FT. LBS.





**ON YOUR
SIDE**

NEW INFORMATION

**TRUCK'S TIRE FLIES OFF, HITTING ANOTHER DRIVER
RONALD REAGAN HIGHWAY**

9 ON
YOUR
SIDE
abc wcpa.com

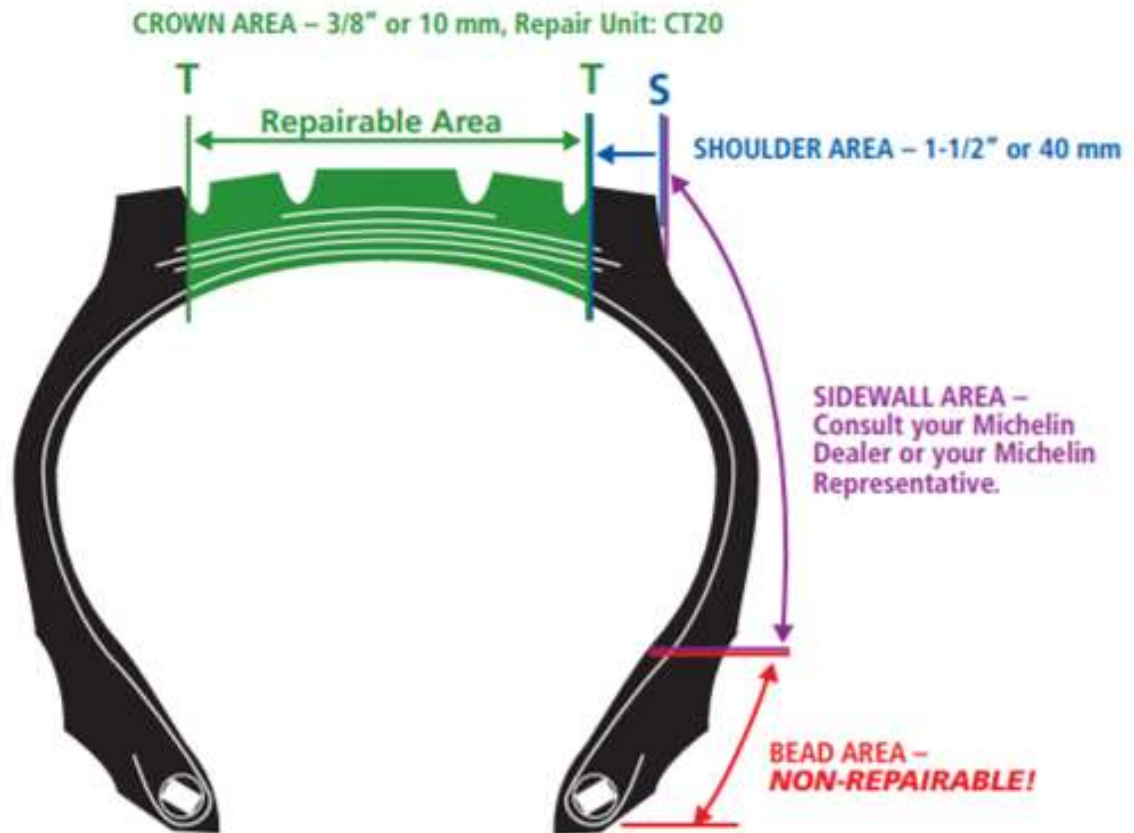
5:02 41°

Nail Hole Limitations

Nail Hole Limitations Chart

Maximum repairable nail hole diameter is 3/8 inch (T-T area).

All injuries larger than 3/8 inch or outside the specified T-T area, must be treated as a section repair.



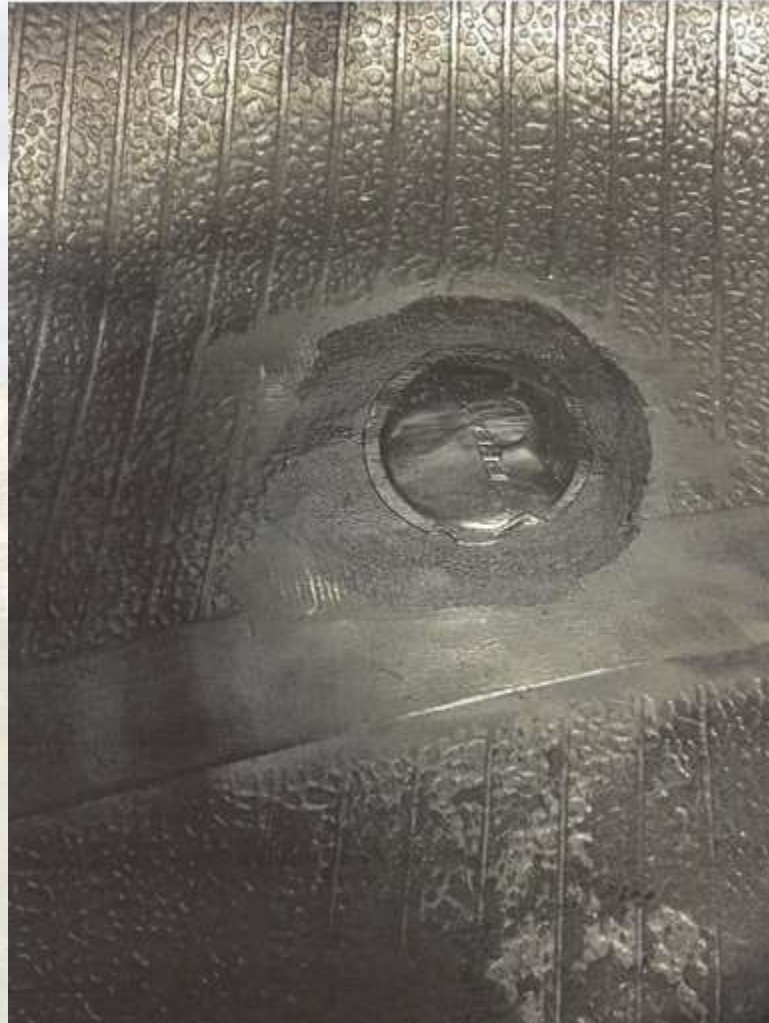
Low Speed Tire Buffer



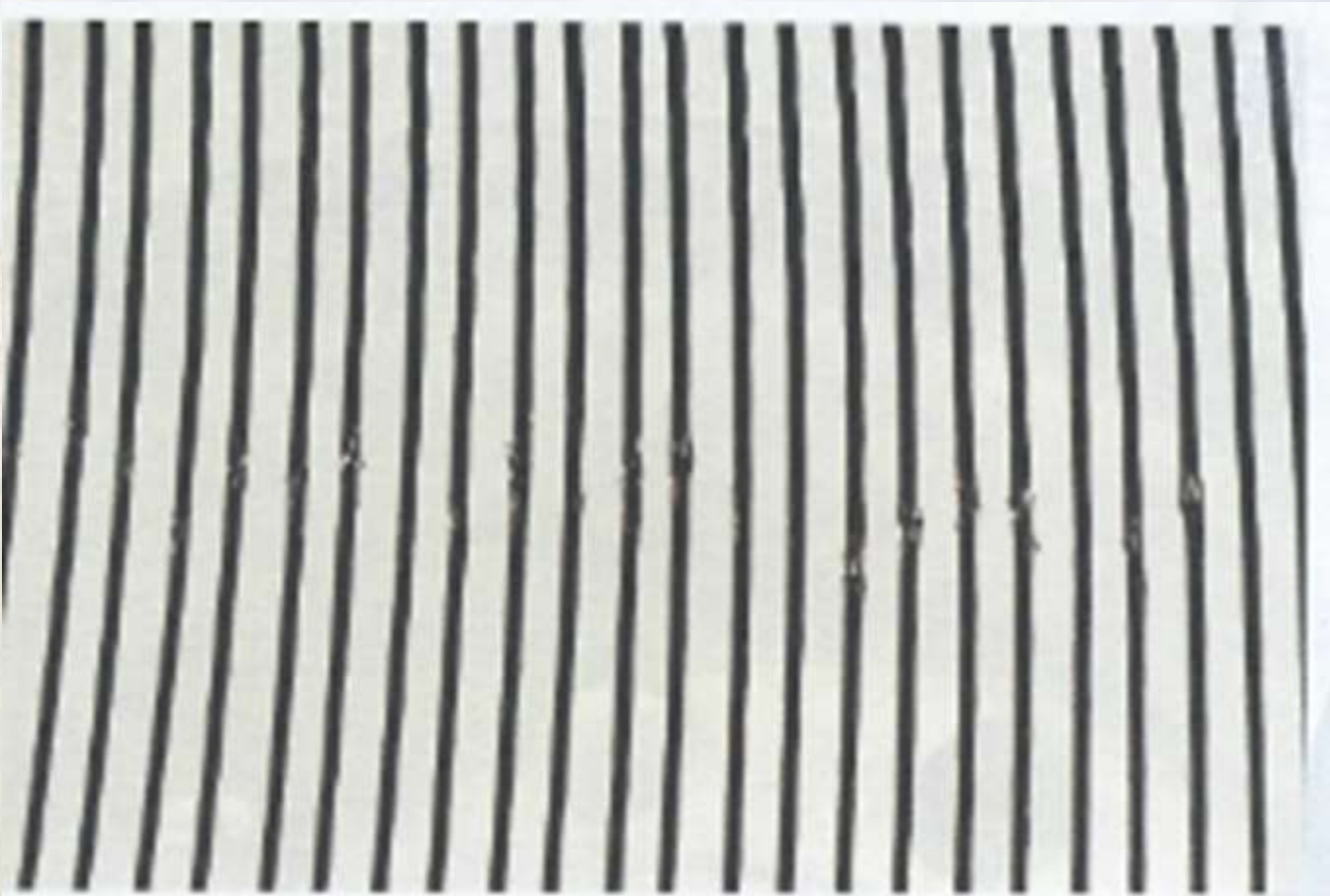
Buffing Wheels



Over Buff



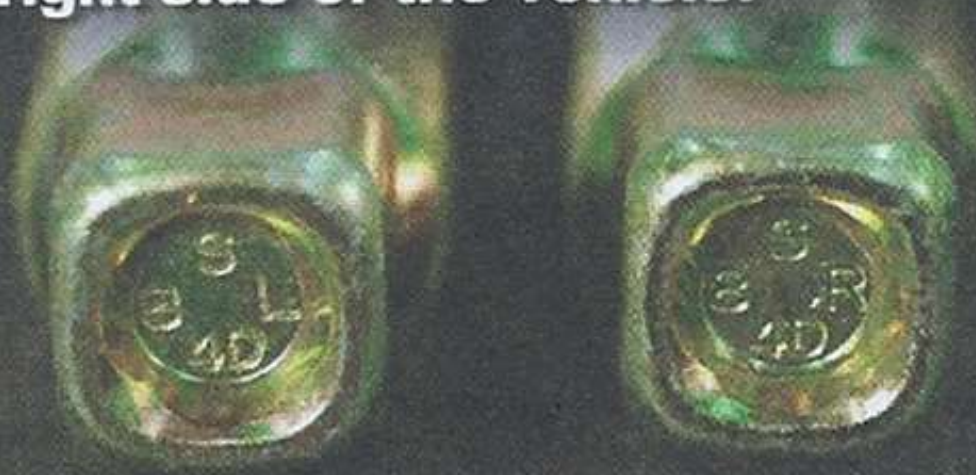
Sidewall Cables

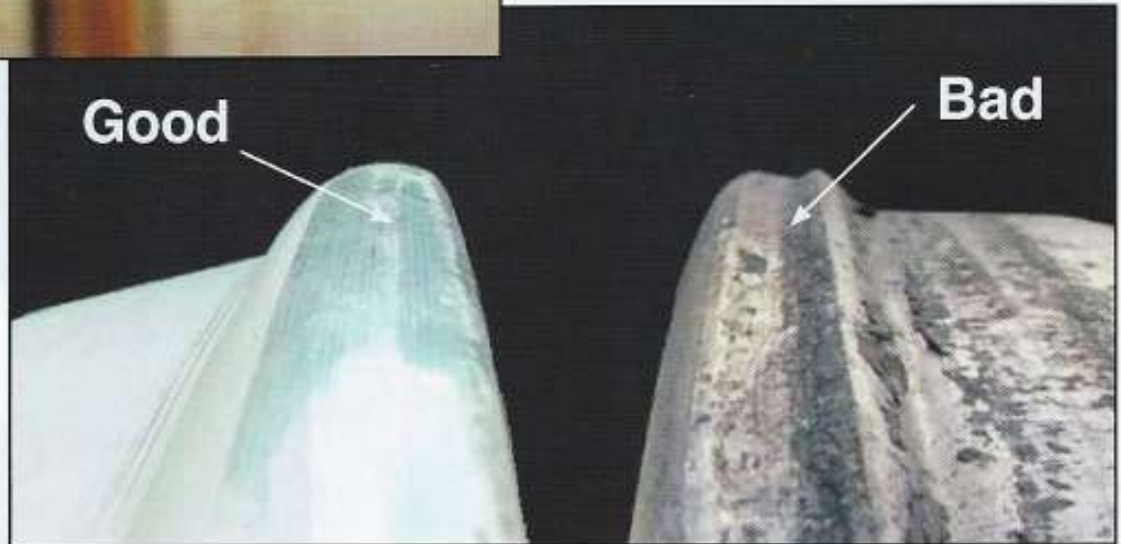
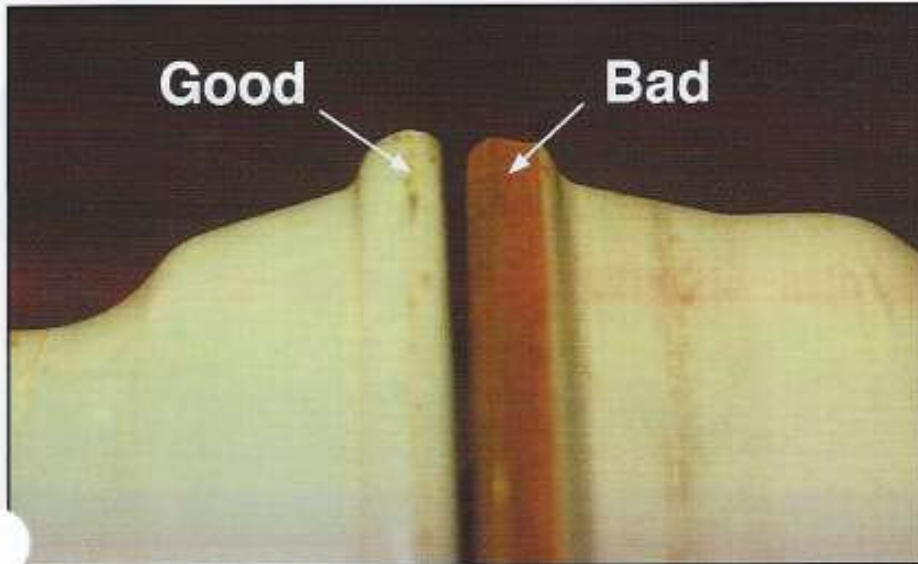




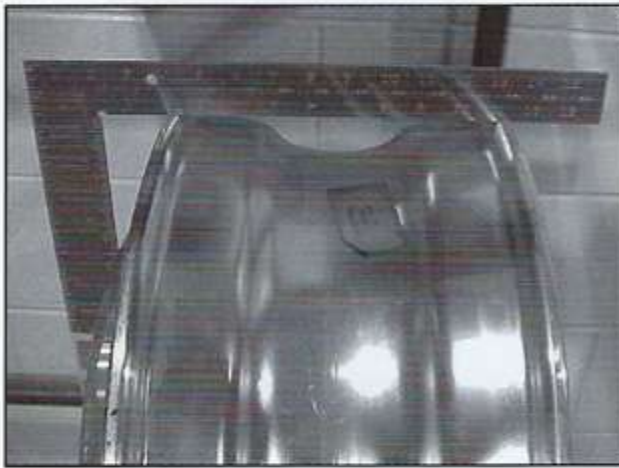


Never install right-hand threads on the left side of the vehicle or left-hand threads on the right side of the vehicle!





Heat Treated Wheels



Acceptable



Not Acceptable



Hydraulic Air Jacks



Remember, when hydraulic jacks are used as support devices, all of the weight is actually supported by the seal at the bottom of the ram.



Jack Stands



Jack cannot contact the drain plug

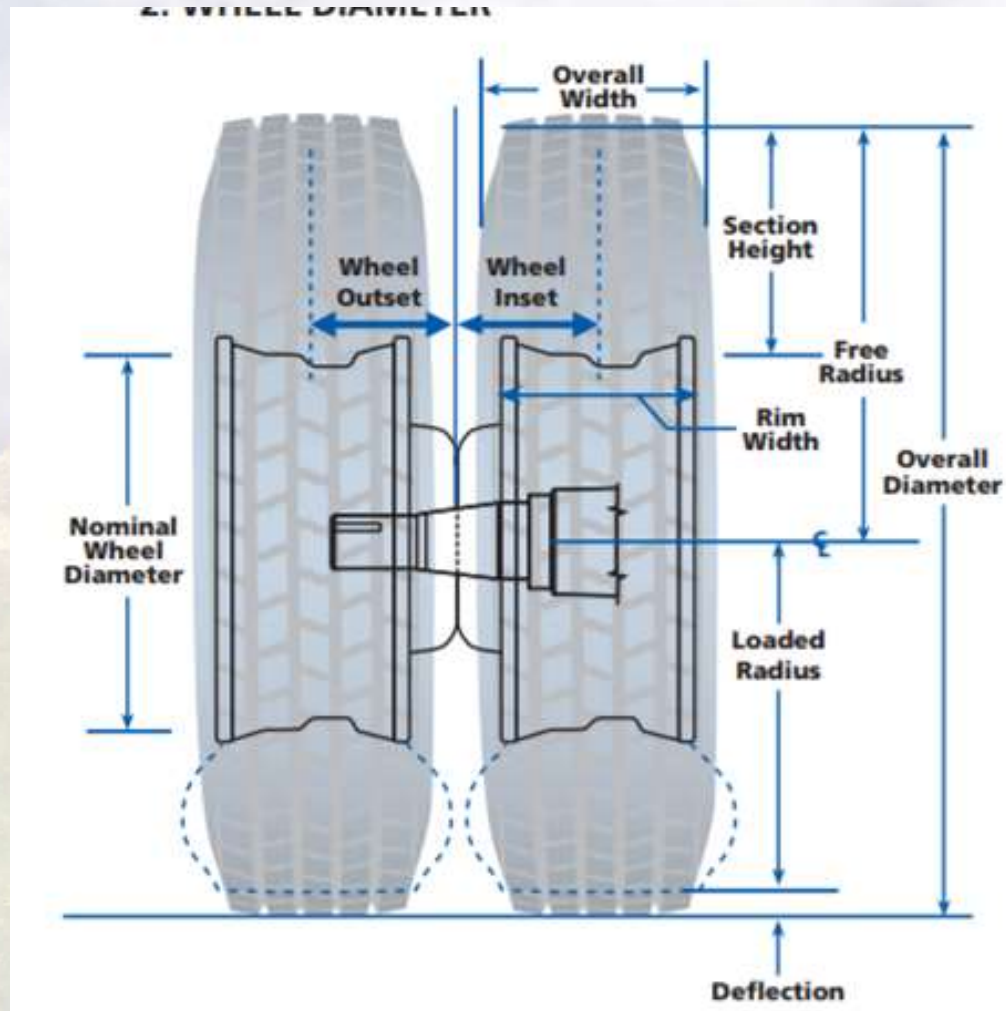
It's also important to note that when using the differential, or pumpkin, to raise a drive axle, the jack cannot contact the drain plug.

Additionally, when lifting a fully loaded vehicle by the differential or in the middle of the axle tube may result in damage. In these instances, the best practice is to lift and support the axle at both ends.



Bead Blasters





TR550, Torque to 80-125 inch pounds



TR540, Torque 80-125 inch pounds



TR500 Torque 35-55 inch pounds



TR509, TR510, TR511 Torque 100-125 inch pounds



Tire Cage



Air Whip





During the inflation process, technicians should always listen for any popping sound that may indicate broken cords.



After the tire is inflated to 20 PSI, Inspect the beads to make sure they are seated



Inflation Pressure on Rims



Do not exceed the maximum inflation pressure stamped on the rim.

OSHA Regulations

In order to comply with OSHA regulations and industry guidelines, all used, retreaded or repaired tires must be inflated in a restraining device.

While it may be considered acceptable to inflate a new tubeless tire on a single piece rim after it has been bolted to a vehicle, the best practice is to inflate all truck tires in a restraining device.



TIRE STORE

OK Tire Store
2224 Main Avenue
Fargo, ND 58103
701-237-6525

[View Location ▶](#)



OK Tire Store
590 8th St N
Carrington, ND 58421
701-652-2823

[View Location ▶](#)



OK Tire Store
505 6th Avenue SE
Watford City, ND 58854
701-842-6654

[View Location ▶](#)



OK Tire Store
1144 Missouri Avenue
Bismarck, ND 58501
701-223-7137

[View Location ▶](#)



OK Tire Store
504 9th Street SE
Minot, ND 58701
701-839-2686

[View Location ▶](#)



OK Tire Store
432 US Highway 10 West
Motley, MN 56466
218-352-6535

[View Location ▶](#)



OK Tire Store - Commercial
3935 Miriam Ave
Bismarck, ND 58501
701-255-0822

[View Location ▶](#)



OK Tire Store - Commercial
1002 38th Street NW
Fargo, ND 58102
701-277-8426

[View Location ▶](#)



OK Tire Store
2010 9th Street North
Wahpeton, ND 58075
701-642-4689

[View Location ▶](#)



Tire Safety



Clifton Walking Elk, Corporate Trainer
Cell 605-850-9537
cliftonw@oktireinc.com



Reaching New Heights
34th Annual North Central Local Roads Conference
Rapid City, SD - October 16-17, 2019