

Failure to store tires in accordance with these instructions can cause damage resulting in sudden tire failure.

TIRE REGISTRATION

The tire registration system is an important means by which we can contact you in the event your tire is recalled. When you purchase your Toyo tires, please request a tire registration form from your dealer with the relevant tire information. Complete the card and mail it to the pre-addressed location on the form.

TOYO TIRES®
driven to perform®



Limited Warranty for
Commercial Truck/Bus Radial Tires

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This brochure supersedes the commercial Truck
Tires brochure published in October 2010.

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COMMERCIAL TRUCK/BUS RADIAL TIRE and CASING LIMITED WARRANTY

Thank you for purchasing Toyo brand commercial truck/bus radial (“**TBR**”) tires. This Limited Warranty covers your TBR tires against conditions that cause it to become unusable due to workmanship and materials, subject to the terms and conditions described below.

WHAT IS COVERED?

Your TBR tire is eligible for coverage if all of the following criteria are met (“**Eligible Tire(s)**”):

- You are the original purchaser of the tire.
- You purchased the tire on or after October 10, 2013*.
- You have properly maintained and used the tire.
- You fulfill the warranty claim procedure (See “HOW TO MAKE A CLAIM” below).
- You purchased and used the tire only in the United States.
- The tire was distributed within the United States by Toyo Tires.
- The tire bears the complete Toyo DOT tire identification number.
- The tire has not been branded “NA” (non-adjustable) or “USED.”
- The tire is not subject to any exclusion (See “WHAT IS NOT COVERED?” below).

*Tires purchased before October 10, 2013 may be covered by an earlier warranty. See your authorized Toyo Tires truck/bus dealer or contact Toyo Tires for more information.

HOW LONG IS THE COVERAGE?

An Eligible Tire is covered for 66 months (“**Warranty Period**”) from the original date of purchase, which is the date that appears in the original sales receipt. If a sales receipt is not available, the Warranty Period is 66 months from the date of manufacture, which is indicated by the Toyo DOT tire identification number on the tire sidewall.

WHAT IS NOT COVERED?

This Limited Warranty does not cover claims based on or arising from the following:

- Mileage or treadwear.
- Uniformity issues after the first 2/32” of treadwear.
- Road hazards, fire, theft, collision, or accident.
- Improper tire/vehicle maintenance or use, not limited to:
 - Incorrect inflation; overloading; vehicle misalignment; poor or defective mechanical condition of brakes, shocks, wheels, or other suspension components; or other factors attributable to the vehicle or wheel.
 - Running on a flat tire; i.e., 80% or less of the recommended inflation pressure.
 - Abuse, vandalism, tire alteration, tire spinning, or curbing.
 - Exposure to oil-based chemicals, water-based sealers, balancing substances, or flammable gases.
 - Improper use of tire chains.
 - Using an inner tube in a tubeless tire.
 - Using a highway tire for off-highway use.
- Improper mounting, dismounting, balancing, sizing, repair, or retreading, not limited to:
 - Water, chemicals or other foreign matter trapped within the tire.
 - Failure to keep tires balanced.
- Weather and/or ozone.
- Conditions from the retread process.

Nothing in this Limited Warranty is intended to be a representation that tire failures cannot occur.

WHAT TOYO TIRES WILL DO?

Original Tread Warranty.

For every Eligible Tire with original tread within the Warranty Period, Toyo Tires will do the following:

- Less Than 2/32” Worn: If your Eligible Tire with original tread has 2/32” or less wear, Toyo Tires will replace it, free of charge, with a comparable Toyo brand tire. **You are responsible for all mounting and balancing costs, disposal fees, and taxes.**
- More Than 2/32” Worn: If your Eligible Tire with original tread has more than 2/32” wear, Toyo Tires will replace with a comparable Toyo brand tire, on a pro rata basis. **You are responsible for the prorated cost of a replacement tire and all mounting and balancing costs, disposal fees and taxes.**

A **comparable Toyo brand tire** is the same model and size tire, or if it has been discontinued or otherwise not available, a tire of the same basic construction, quality, and size as the original tire, as determined in the sole discretion of Toyo Tires.

The **prorated cost of a replacement tire** is determined as follows:

$$((\text{Usable Remaining Tread}) \div (\text{Usable Total Tread})) \times (\text{actual current authorized dealer selling price of comparable Toyo brand tire}).$$

- **Usable Total Tread** = Total tread depth of a new comparable Toyo brand tire minus 4/32” (note: the total tread depth will vary by tire model).
- **Usable Remaining Tread** = Usable Total Tread minus tread wear. Tread wear is determined by measuring the total tread depth of a new comparable Toyo brand tire and subtracting the remaining total tread depth on the Eligible Tire.

Casing Warranty.

For casings of an Eligible Tire within the Warranty Period, Toyo Tires will do the following:

If the casing of an Eligible Tire with at least 2/32” remaining tread depth becomes unserviceable during the Warranty Period due to a warrantable condition within the 1st or 2nd retread, you will receive the applicable casing allowance specified below. The number of retreads must be identified on the sidewall of the Eligible Tire.

Casing Allowances by Size
215/75R17.5; 245/70R19.5
235/75R17.5; 245/70R17.5
265/70R19.5; 285/70R19.5
8.25R-20; 9R-22.5
265/75R22.5; 245/75R22.5
9.00R20; 10R22.5; 10.00R15

If the casing of an Eligible Tire with at least 2/32" remaining tread depth becomes unserviceable due to a warrantable condition during the **first retread** within the Warranty Period, in addition to the casing allowance described above, you will also receive the applicable rubber allowance specified below.

HOW TO MAKE A CLAIM.

To make a claim under this Limited Warranty, you must:

1. Present the Eligible Tire(s) to an authorized Toyo Tires truck/bus tire dealer. At the request of Toyo Tires, you must make available for inspection the vehicle on which the Eligible Tire was previously mounted.
2. Complete and sign the Toyo Tires Limited Warranty Claim form provided by the dealer.
3. Keep a copy of the Claim form for your records and leave the Eligible Tire(s) with the dealer.

Your claim will be administered in accordance with the limited warranty in effect at the time you purchased the Eligible Tires.

YOUR LEGAL RIGHTS.

This Limited Warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

LIMITATIONS AND EXCLUSIONS.

THIS LIMITED WARRANTY IS GIVEN IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED WHICH ARE SPECIFICALLY EXCLUDED, INCLUDING (WITHOUT LIMITATION) WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL SELLER BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES TO THE FULL EXTENT SUCH MAY BE DISCLAIMED BY LAW (E.G., LOSS OF TIME, LOSS OF USE OF VEHICLE, TOWING CHARGES, ROAD SERVICES, COST OF RENTAL VEHICLE, INCONVENIENCES, ETC.).

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusions may not apply to you.

The terms of this Limited Warranty may not be changed by anyone, including any Toyo Tires employee, representative, or dealer.

Toyo Tires does not warrant any work performed by a dealer, including, but not limited to, such dealer's selection, fitment, mounting and balancing, inspection or repair of any tire.

SAFETY WARNINGS AND ADVICE.

Toyo Tires are designed and built with great care. Any tire, no matter how well constructed, can fail as a result of punctures, impact damage, underinflation/overloading, or other conditions resulting from use. To obtain the highest possible performance, tires must be properly handled and maintained.

WARNING

WARNING: Failure to follow the safety information provided below can result in tire failure or explosion that may cause serious injury or death.

Tire Mounting and Repair

- A. Tire service personnel should be trained to follow the safety precautions for mounting, inflating, or dismounting tires as outlined by the Occupational Health and Safety Administration. ("**OSHA Publication**") Only specially trained persons using the proper tools and procedures should service tires.
- B. Upon dismounting the tire from the vehicle, completely deflate the tires before handling.
- C. Inspect the interior and exterior of all tires prior to mounting.

WARNING

WARNING: Permanent tire damage due to underinflation and/or overloading cannot always be detected. Any tire known or suspected to have been run at 80% or less of the recommended inflation pressure, and/or operated in an overloaded condition could have suffered permanent structural damage (e.g., steel cord fatigue). Steel ply cords weakened by the extreme flexing caused by the underinflation and/or overloading could break apart until a rupture occurs in the upper sidewall with accompanying instantaneous and explosive air loss.

- D. When repairing tires, follow instructions as outlined in the RMA publication and wall chart "Puncture Repair Procedures for Truck/Bus Tires".

- External repairs or repairs that are done without dismounting the tire from the rim or wheel are considered improper.
- Never use a tube as a substitute for a proper repair.
- If you are unsure about the repairability of a tire, consult your tire dealer or retreading professional for further details on proper repair methods.

E. Rims/Wheels:

- Always make sure that the tire wheel diameter and the rim/ wheel diameter are identical. For example, do not mount a 17" tire on a 17.5" wheel, or similar incorrect combinations: 19" and 19.5", 22" and 22.5", 24" and 24.5". NEVER assemble a tire and rim unless you have positively identified and correctly matched the combination.
- Use rims and wheels that are approved for radial tires and which are rated for the pressure and loads required for the intended tire fitment. Consult the rim or wheel manufacturer for further information regarding proper application and use.
- Do not attempt to mount and inflate any tire on a bent, cracked, damaged or welded rim or wheel.
- Never exceed the maximum load or inflation limit of the rim or wheel. Consult the rim/ wheel manufacturer for further information regarding application or use.

F. Inflation:

- Always follow the safety guidelines in the OSHA Publication when inflating a newly mounted tire, including the use of a safety cage, an extension hose with gauge, and clip-on air chuck for inflating the tire. Stand back from the tire and never lean or reach over the assembly during inflation.
- Never attempt to inflate any tire that may have damaged cords, inner liner wrinkling, heat deterioration, casing distortion, or other signs of underinflation, run flat, separation, or air leakage.

WARNING

WARNING: *If you attempt to inflate any tire which may have been damaged from underinflation/overload, or a run-flat condition, it may explode with violent force, which can result in serious injury or death.*

- G. Never introduce flammable substances to the interior of any tire during either the mounting process or during inflation.
Such practices can cause an explosion that may result in injury or death.
- H. Mixing Tires: For trucks with four wheel positions, never mix radial and non-radial tires on the same axle.
 - If two radial tires are used with a pair of non-radial tires, the radial tires should be placed on the rear axle.
 - On a dual axle, never mix radial with bias tires.
 - Use tires with a similar tread design and remaining tread depth to ensure consistent handling.

Refer to the vehicle owner's manual for specific instructions regarding the mixing and matching of replacement tires.

Tire Use and Maintenance

- I. Tire Pressure: Use an accurate tire gauge to routinely check inflation pressures, and always check the pressure when the tires are cold; i.e., before driving on them.
- Measuring inflation pressures when the tire is hot will generate inaccurate pressure readings. Never bleed pressure from hot tires as this can result in underinflated tires.
- Never run on tires that are underinflated.
- Use metal valve caps to keep cores clean, clear of debris and to help guard against air leakage.

Tire Load: Check tire inflation pressures to make sure they are rated for the load.

- Never overload your tires.
- In dual wheel applications, it is possible to overload a tire if one of the tires is underinflated or flat.
- If a tire has been driven in an overloaded condition, have it inspected and replaced.

WARNING

WARNING: Underinflation or overloading will result in tire fatigue and sudden tire failure. This could lead to loss of vehicle control, possibly resulting in personal injury or death.

Consult your Toyo commercial truck tire dealer or Toyo Tires for proper load and inflation information.

- J. Speed Ratings: Never run tires at speeds in excess of their speed ratings as the tires may overheat and suddenly fail. **This could lead to loss of vehicle control, possibly resulting in personal injury or death.** Consult your Toyo commercial truck tire dealer for further information concerning speed ratings for specific Toyo commercial truck tires.
- K. Routine Inspections: Check your tires for any damage or irregular wear prior to each trip. Irregular wear may indicate improper tire balance, vehicle misalignment or worn parts. Your authorized Toyo commercial truck tire dealer is also available to inspect and service your tires. A routine inspection of your tires will help to ensure your safety, and give you the maximum mileage and performance from your Toyo tires.

WARNING

WARNING Beware of Sudden Tire Vibration: Serious injury or death may result from a tire failure. Many tire failures are preceded by vibration, bumps, bulges or irregular wear. If you experience any unusual vibration, pull, ride disturbance or noise from your vehicle, pull over to a safe area as soon as possible and inspect the tires for signs of damage. Seek road-side assistance or replace the damaged tire with your spare.

- L. Worn Tires: All tires have wear indicator bars incorporated into the tread at 2/32" to signal when the tires must be replaced. Never drive on tires that are worn past the wear indicator bars. Commercial truck tires that are mounted on the front axles of buses, trucks or truck tractors need to be replaced at 4/32" (3.2mm).

WARNING

WARNING: Continued operation of your vehicle with excessively worn tires can lead to loss of vehicle control in wet or adverse weather conditions, possibly resulting in personal injury or death.

Tire Storage:

- M. Follow these recommended guidelines for storage of your tires:
 - Store tires in a cool dry area away from major heat sources.
 - Avoid contact of tire surfaces with petroleum or oil-based products.
 - It is best to store tires in an enclosed area with no exposure to electromagnetic sources such as electric welders, generators, or transformers.