

BFGoodrich Recreation and Off Road Tyres Technical Advisory LT Tyre Pressures

Vehicle manufacturers of utility vehicles almost always fit standard load passenger type tyres to their new vehicles to achieve higher levels of comfort and reduced fuel consumption – If the tyres are upgraded or resized to LT type specification there is a safety and legal requirement to establish the correct pressure for the use and load in laden and unladen circumstances.

Many vehicle owners and operators are unaware that LT type tyres do not carry the same load at the same tyre pressure as non-LT tyres. LT tyre construction & engineering is substantially different, and LT type requires significantly higher pressures to work as the manufacturer intended. LT tyres can carry significantly more weight provided that the correct pressures are used. See table below showing example of the correct pressures for the loads indicated on a very common size.

If the tyre pressure is insufficient over a prolonged period additional heat build-up occurs especially in the bead area and wheel flange. Lower sidewall over-flexing will cause casing fatigue and sidewall cracking is likely to develop. This condition can lead to tyre failure.

NZ driving laws require that the tyres must be correctly inflated for the load. If a customer has upgraded their tyres to LT type construction and or have changed the sizes, then the vehicle placard will no longer be valid as it is unlikely to reference the correct pressure, new tyre specification and tyre type.

This website has an easy to use tyre pressure calculator for when different size tyres are fitted from the original equipment (OEM) as well as sizing upgrades to higher load range or flotation tyres (LT) – Please see the screen images below <https://tiresize.com/pressure-calculator/>

This LT pressure table excerpt clearly shows a very common example of the carrying capacity of OEM tyres Vs LT type tyres.

Tyre Size	PSI															
	29	32	35	40	45	50	55	60	65	70	75	80				
265/65R17	Load rating 110	Capacity KG	975	1025	1060	1060	1060	1060	Never exceed the maximum cold pressure shown on tyre							
If in doubt as to the correct pressure to use please get your vehicle weighed when typically loaded including passengers																
LT265/65R17	120 LRE	Capacity KG	N/A	N/A	801	878	955	1030	1098	1166	1250	1300	1363	1400		

Select OEM Tire
Reference your vehicles placard inside of your driver's side door jamb. Be sure to read it closely including any tire size prefix or suffix such as a 'P' or 'LT'. Select the correct 'Tire Type' from the drop down, then enter your OEM tire size, load rating, and pressure listed on the card.

Select NEW Tire
Be sure to be accurate about your replacement tire including any prefix or suffix such as a 'P' or 'LT'. Select the correct 'Tire Type' from the drop down that represents this, then enter the tire size and load rating.

Metric (255/40R18)
265/
65
R17
SL (112)
29 psi

LT Metric (LT285/70R17)
LT265/
65
R17
E (120/117) Max 80 psi.



Toyota Tundra etc. actually come equipped with Passenger rated tires on them. As opposed to an LT265/70R17, it will usually be either a P265/70R17 or just 265/70R16. This is because not only are they lighter weight and provide a softer ride, but their load carrying and towing limiters such as suspension ability, don't exceed the capability of the comparable Passenger rated tire. Also despite what many might think, Passenger rated tires can actually have higher load carrying capacities at the same pressure as the LT version in the same tire size. The LT tire will generally have a higher maximum load capacity, but it takes a higher pressure to achieve the same load

OEM Size (265/65R17 SL) Load Capacity: 2066 lbs. @ 29 psi.

Passenger type tires are fitted with a 10% overage in load capability when used on SUV's, Light Trucks, and Vans because of the difference in load handling. This load overage can be removed when changing to an LT type tire.

That brings the effective load capacity to achieve down to 1878 lbs.

New Size (LT265/65R17 E) Load Capacity: 1901 lbs. @ 39 psi.

**Assessing tire contact patch for proper treadwear is always recommended.

WARNING! Please note that size-for-size, LT-metric tires require higher air pressures to carry equivalent loads of P-metric tires and that any failure to adjust air pressure to achieve the vehicle's load requirements will result in tire fatigue and eventual tire failure due to excessive heat build-up. Due to the higher PSI requirements of LT-metric tires they may not be suitable for replacing O.E. P-metric tires because of the ride harshness that results from higher PSI requirements.

Please see below for some examples of tyre resizing and upgrades to LT products as a guide to the correct and safe pressures for loads.

Our express technical recommendation is to ensure all purchasers and users of resized and LT tyres are aware of the critical and legal requirement to run the vehicle with the correct cold tyre pressures for safety. This will deliver the best service life and assist to avoid a negative customer, user or owner experience.

2023 Ford Wildtrack 2.0 Diesel 4x4

Size	Load/Speed	Pressure - Front	Pressure - Rear
255/65R18	111H	2.1/30/210	2.1/30/210
Laden		2.6/38/260	3.0/44/300
LT265/65R18*	118/115S	2.9/42/290	2.9/42/290
Laden		3.3/48/330	4.1/60/410

2023 Ford Ranger XLT

Size	Load/Speed	Pressure - Front	Pressure - Rear
255/70R17	112T	2.1/30/210	2.1/30/210
Laden		2.6/38/260	3.0/44/300
LT255/70R17*	121/118S	3.0/44/300	3.0/44/300
Laden		3.18/46/318	4.0/58/400

2023 Ford Ranger Wildtrak 3.0 Diesel 4x4

Size	Load/Speed	Pressure - Front	Pressure - Rear
255/65R18	111H	2.1/30/210	2.1/30/210
Laden		2.6/38/260	3.0/44/300
LT265/65R18*	118/115S	2.9/42/290	2.9/42/290
Laden		3.3/48/330	4.1/60/410

Size	Load/Speed	Pressure - Front	Pressure - Rear
265/60R18	110T	2.1/30/210	2.1/30/210
Laden		2.6/38/260	3.0/44/300
LT265/60R18*	119/116S	3.0/44/300	3.0/44/300
Laden		3.3/48/330	4.1/60/410

Ford Ranger Bi Turbo

Size	Load/Speed	Pressure - Front	Pressure - Rear
255/70R17	112T	2.1/30/210	2.1/30/210
Laden		2.6/38/260	3.0/44/300
LT255/70R17*	121/118S	3.0/44/300	3.0/44/300
Laden		3.18/46/318	4.0/58/400

2022 Toyota Hilux SR5

Size	Load/Speed	Pressure - Front	Pressure - Rear
265/65R17	112S	2.0/29/200	2.0/29/200
Laden		2.3/33/230	2.5/36/250
LT265/65R17*	120/117S	2.9/42/290	2.9/42/290
Laden		3.3/48/330	3.6/52/360

Mazda BT-50 GTX Dual Cab

Size	Load/Speed	Pressure - Front	Pressure - Rear
265/60R18	110T	2.1/30/210	2.1/30/210
Laden		2.6/38/260	3.0/44/300
LT265/65R18*	119/116S	3.18/46/318	3.18/46/318
Laden		3.18/46/318	3.9/56/390

2021 Toyota Landcruiser Prado

Size	Load/Speed	Pressure - Front	Pressure - Rear
265/65R17	112S	2.0/29/200	2.0/29/200
LT265/65R17*	120/117S	2.9/42/290	2.9/42/290

2022 Toyota Hilux

Size	Load/Speed	Pressure - Front	Pressure - Rear
265/65R17	112S	2.0/29/200	2.0/29/200
Laden		2.3/33/230	2.5/36/250
LT265/65R17*	120/117S	2.9/42/290	2.9/42/290
Laden		3.3/48/330	3.6/52/360

2021 Toyota Landcruiser Prado

Size	Load/Speed	Pressure - Front	Pressure - Rear
265/60R18	110T	2.0/29/200	2.0/29/200
Laden		2.0/29/200	2.2/32/220
LT265/60R18*	119/116S	3.18/46/318	3.18/46/318
Laden		3.18/46/318	3.45/50/345

2023 Isuzu DMax 4sp 3.0 Turbo

Size	Load/Speed	Pressure - Front	Pressure - Rear
265/60R18	110S	2.1/30/210	2.1/30/210
Laden		2.6/38/260	3.0/44/300
LT265/60R18*	119/116S	3.18/46/318	3.18/46/318
Laden		3.18/46/318	3.9/56/390

2017-18 Ford Ranger

Size	Load/Speed	Pressure - Front	Pressure - Rear
265/60R18	110T	2.4/35/240	2.4/35/240
Laden		2.6/38/260	3.0/44/300
LT265/60R18*	119/116S	2.9/42/290	2.9/42/290
Laden		3.3/48/330	3.7/54/370

Size	Load/Speed	Pressure - Front	Pressure - Rear
265/65R17	112H	2.4/35/240	2.4/35/240
Laden		2.6/38/260	3.0/44/300
LT265/65R17*	120/117S	2.9/42/290	2.9/42/290
Laden		3.3/48/330	3.7/54/370

Please visit this website for complete terms and conditions of the BFGoodrich new tyre limited warranty.

www.bfgoodrich.com.au/warranty-nz