



LIONSHEAD

Specialty Tire & Wheel, LLC.
Quality and Safety Manual



GETTING STARTED

CONGRATULATIONS ON A GREAT PURCHASE!

Your trailer has been outfitted with the best towable tires and wheels on the market. At Lionshead we are focused on two things... **Quality and Safety**

We stand behind our products with

- 1 Year (First year) "No Excuses Guarantee"
 - 2 Year Complimentary Roadside Assistance
 - 5 Year Warranty on Radial ST Tires
 - Lifetime Structural Warranty on All Wheels
 - + **NITRO-FILL** in All Tires
- * Some assemblies also include TST TPMS (Tire Pressure Monitoring System)

Getting Started

- 1** Fill out the Tire Registration Card and return to Lionshead, or register online at: www.lionsheadtireandwheel.com.
- 2** Activate your free roadside assistance card - (sent separately) by registering your unique number at www.customercareclub.com.

Optimize Your Ride

- 3** Make sure that your tires are properly inflated.
- 4** Do not overload your trailer. Know your maximum pounds per load and be sure to ride safe.
- 5** Check the torque on your wheels.

For Quality and Safety Videos

Scan this barcode using a QR reader on your smart phone for quick, informative videos about trailer tires and wheels.



TIRES, WHEELS AND ACCESSORIES AT FACTORY DIRECT PRICING... SHIPPED WITHIN 48 HOURS!

As one of the largest towable tire and wheel assemblers in the country, we buy direct from the factory and now we are passing those savings on to you.

Need replacement or upgraded tires, wheels or accessories? We can help! Our team of highly trained experts are online and ready to serve you. Enjoy all of the benefits of our outstanding Lionshead products, including our "No Excuses Guarantee", with five (5) year warranty against manufactures defects and free roadside assistance.

For all of your aftermarket needs, check out:

www.lionsheadirect.com

NITROFILL™

All Lionshead tires are filled with NitroFill™, a "refined nitrogen" inflation product produced by on-site NitroFill™ generators.

Why nitrogen is better than compressed air:

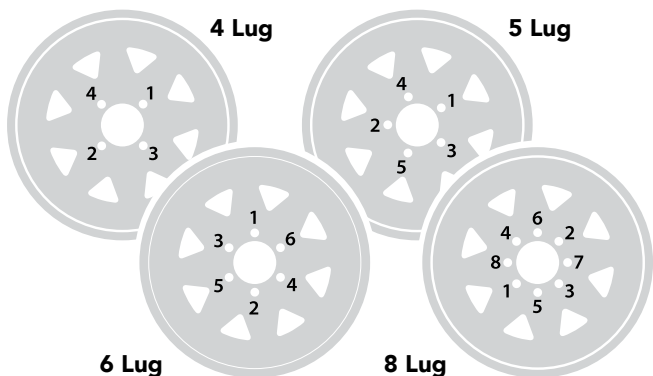
- Nitrogen is a dry gas and free of moisture.
- Nitrogen doesn't deteriorate rubber like the "wet oxygen" in compressed air does.
- Nitrogen has a larger molecular structure and won't leak like oxygen.
- Nitrogen makes tires less susceptible to air loss with temperature changes.
- Over time oxidation breaks down tire rubber.
- Oxygen molecules are smaller than nitrogen and leak 3 to 4 times faster.
- After rubber is broken down, it loses elasticity, strength and leakage increases.

What NitroFill™ will do for you:

- Increase tire life up to 30%
- Improve fuel economy
- Reduce the chance of tire failure up to 50%
- Improve braking and handling
- Reduce wheel corrosion
- Reduce running tire temperature
- Maintain proper tire pressure

LUG NUT TORQUE & PATTERN

Stud	Ft./Lbs. Torque
1/2"	90-120
9/16"	120-140
5/8"	140-160



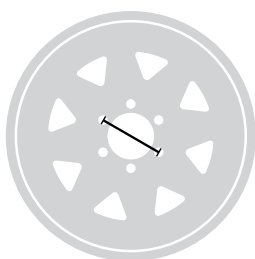
DETERMINING BOLT PATTERNS

The first number in the bolt pattern indicates the number of bolt holes present. The second number denotes the diameter, in inches, of the circle on which the bolt holes sit.

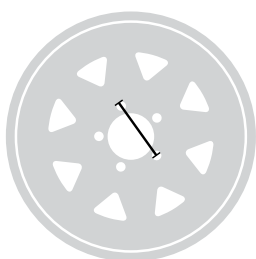
On wheels with an **even number of bolt holes**, measure from the center of one bolt hole to the center of the hole directly across from it. (Example: "6 on 5-1/2" means 6 bolt holes with 5-1/2" from the center of one hole to the center of another on the opposite side.)

To determine the bolt-circle diameter on wheels with an **odd number of bolt holes**, measure from the back of any bolt hole to the center of the bolt holes nearly across from the first. (Example: "5 on 4-1/2" means 5 bolt holes with 4-1/2")

Even Bolt Holes



Odd Bolt Holes



TIRE & WHEEL SPECIFICATIONS

RADIAL SPECIFICATIONS

Size	Ply	Max Load (lb)	Pressure
ST145R12 LRD	8	1220	65PSI
ST145R12 LRE	10	1520	80PSI
ST175/80R13 LRC	6	1360	50PSI
ST185/80R13 LRD	8	1710	65PSI
ST205/75R14 LRC	6	1760	50PSI
ST205/75R14 LRD	8	2040	65PSI
ST215/75R14 LRD	8	2200	65PSI
ST205/75R15 LRC	6	1820	50PSI
ST205/75R15 LRD	8	2150	65PSI
ST225/75R15 LRC	6	2150	50PSI
ST225/75R15 LRD	8	2540	65PSI
ST225/75R15 LRE	10	2830	80PSI
ST235/75R15 LRC	6	2340	50PSI
ST235/75R15 LRD	8	2910	65PSI
ST235/80R16 LRE	10	3520	80PSI
ST235/85R16 LRE	10	3640	80PSI
ST235/85R16 LRF	12	3960	95PSI
ST235/80R16 LRG	14	4080	110PSI
ST235/85R16 LRG	14	4400	110PSI
LT225/75R16 LRE	10	2680 single/2470 dual	80PSI
LT235/85R16 LRE	10	3420 single/2778 dual	80PSI
LT235/85R16 LRG	14	3750	110PSI
LT315/70R17 LRD	8	3195 single/2910 dual	50PSI
215/75R17.5 LRH	16	4805 single/4546 dual	123PSI
235/75R17.5 LRH	16	6005 single/5675 dual	128PSI
245/70R19.5 LRG	14	4540 single/4410 dual	110PSI

ALUMINUM WHEEL SPECIFICATIONS

Size	Bolt Pattern	Max Load (lb)
12x4	5-4.5	1520
13x5	5-4.5	1710
14x5	5-4.5	2040
15x5	5-4.5	1820
15x6	5-4.5	2200
15x6	6-5.5	2830
16x6	6-5.5	3300
16x6	8-6.5	4080
16x6	8-6.5 HD	4400
17.5x6.75	8-6.5 (9/16")	4850
17.5x6.75	8-6.5 (5/8")	6050

STEEL WHEEL SPECIFICATIONS

Size	Bolt Pattern	Max Load (lb)
8x7	5-4.5	1075
10x6	5-4.5	1535
12x4	5-4.5	1520
13x4.5	5-4.5	1710
14x5.5	5-4.5	2200
15x5	5-4.5	2150
15x5	5-5	2150
15x6	5-4.5	2200
15x6	5-5	2200
15x6	6-5.5	2830
16x6	6-5.5	3300
16x6	8-6.5	4080
16x6	8-6.5 HD	4400
17.5x6.75	8-6.5 (5/8")	6005

NO EXCUSES GUARANTEED

Lionshead Specialty Tire & Wheel provides a **five (5) year warranty against manufactures defects** on all of our radial ST (Specialty Trailer) tire brands. See Lionshead Product Warranty policy for details.

If the consumer has any issue with their tire in the first twelve (12) months that is not covered by this warranty, **Lionshead guarantees the replacement of that tire at no charge under our No Excuses Guarantee program.**

Benefits of the No Excuses Guarantee include replacement tire provided at no charge and shipped to the retail consumer at no cost. Lionshead will also provide a flat labor rate to assist in the cost of mounting the new tire.

Details of the No Excuses Guarantee program include:

- The program is in effect for twelve (12) months from the date of original retail purchase.
- It is effective on all Lionshead radial tire brands with a manufacturer's date code starting in 2016.
- The program applies only to ST (Specialty Trailer) tires and does not include commercial sizes.
- The program does not apply to any bias ply tire brands or radial tire brands not owned by Lionshead such as Goodyear, Michelin, etc.
- Contact our warranty group with any questions.
Call - (574) 533-6169 or
Email - bscott@lionsheadtireandwheel.com



WARRANTY POLICY

- Lionshead Specialty Tire & Wheel, LLC. "Lionshead" hereby warrants that it will replace without charge for the following:
 - **Lionshead ST (Specialty Trailer) Radial Tire Brands**, sixty (60) months from the manufacturer's date code on the tire.
 - **Westlake Commercial Tires (17.5" and above)**, forty eight (48) months from the manufacturer's date code on the tire.
 - **Lionshead ST (Specialty Trailer) Bias Tire Brands**, twelve (12) months from the original end user's date of retail purchase.

At our discretion and upon confirmation of DOT and Date Code, originally supplied tire product, which proves defective. "Defective" is defined, but is not limited to the following:

improper workmanship and / or materials.

- The above limited warranty is null and void if the product exhibits any of the following conditions: unsatisfactory performance due to fire, accident, malicious mischief, improper inflation pressure, misapplication, running under-inflated, overloading beyond maximum load capacity, driving more than the maximum speed rating, improper alignment, or road hazard. Examples of road hazards include nails, glass, and other foreign objects, natural and man-made defects or obstacles - such as, excavations, construction, and potholes. Damages caused by road hazards include cuts, punctures, scuffs, and impact breaks.
- This limited warranty does not cover the following: loss of income, inconvenience, loss or damage of vehicle use, cost of towing, transportation, or consequential damages of any kind pertaining to the claim.
- This limited warranty does not cover mounting, balancing, duties, customs or brokerage fees, etc.
- To file a claim, all of the following information is required:
 - A completed Lionshead Warranty Claim Form.
 - Pictures clearly showing defects on all product warranty requested on.
 - Bill of Sale.
- To obtain service under this warranty, you **MUST** contact Lionshead within a reasonable time frame (next available business day).
- It is recommended that you hold product until warranty is approved resulting in request for additional photos and or return of tire.
- Brand confirmation will be determined during this initial consultation process and procedures associated with obtaining a warranty request authorization will be communicated. Please have available tire size and brand, date of purchase, and a brief description of the problem you are having with your tire. You may contact Lionshead by mail at 305 Steury Avenue, Goshen, IN, 46528 via telephone (574) 533-6169 or fax (574) 533-6761 or www.lionsheadtireandwheel.com.

Notice:

- Failure to contact Lionshead Specialty Tire & Wheel, LLC. will void the Limited Warranty.
- No warranty will be provided without a written Lionshead Warranty Authorization.
- Bill of Sale may be requested.
- This warranty gives you specific legal rights and you may have other rights which vary from state to state.
- Lionshead is not authorized to handle warranty for non-Lionshead branded tires (i.e., Goodyear, Michelin, Cooper, etc.). Customer would need to contact that manufacturer directly.

TIRE PRESSURE MONITORING

Truck System Technologies (TST), the industry leader in Tire Pressure Monitoring Systems has partnered with Lionshead Specialty Tire & Wheel to include TPMS systems on some wheel assemblies. Our systems include a full color wide screen display, audible, visual and text alerts, a 3 year warranty and lifetime customer support.

For more information, please visit the Lionshead website for videos about the TST TPMS system:

www.lionsheadtireandwheel.com



Cut Out Card and Mail to:

Lionshead Specialty Tire & Wheel

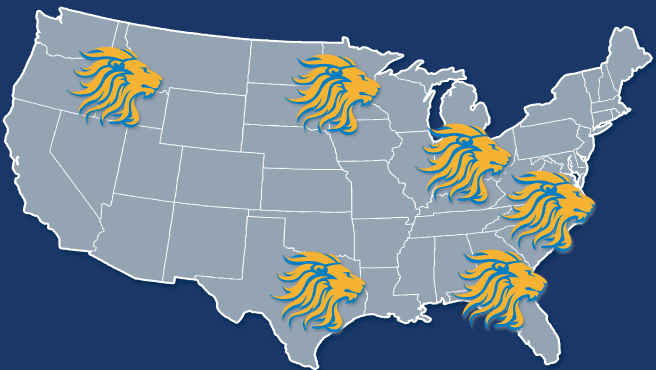
Attn: Warranty Dept.

305 Steury Avenue

Goshen, Indiana 46528



Purposefully Driven



Lionshead Specialty Tire & Wheel, LLC. Corporate Headquarters

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Mountain Home, ID
83647

Lionshead

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Thomasville, NC
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Lionshead

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Norwood Young America, MN
55397



Call: (574) 533-6169

www.lionsheadtireandwheel.com