

***Wheel Mounting
Addendum***

2004

Alumascape Travel Trailer

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The following information supersedes the information published in the 2004 Alumascape Travel Trailer Owner's Manual on pages 64 and 65 section 2. Please utilize the information provided henceforth.

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WHEEL MOUNTING

The travel trailer comes with heavy-duty wheels. When buying additional wheels get the same type as those installed on the travel trailer. Check the wheel lug bolts before every trip.

1. After demounting old wheel, remove all dirt, rust, grease and oil from stud threads. Do not lubricate threads.
2. Position wheel on travel trailer. **Inspect** to insure full contact between the mounting surface (seat pads) of wheel and mounting surface of hub and brake drum.
3. Start wheel nuts on stud.
4. Finger tighten top nut. Rotate wheel so that the number two nut is at top. Finger tighten remaining nuts in numerical (crisscross) order; always tighten nuts in top position.
5. Repeat Step 4, rotating wheel and finger tightening nuts until all nuts are snug.
6. Tighten nuts as described under "wheel torque requirement."
7. After wheels (with tires) have been mounted, visually inspect them to ensure non-interference with body or other component parts. Be sure to inspect wheels in all possible positions (extreme turn, etc.).
8. Only specially trained persons using proper equipment should mount or demount pneumatic tires. Serious or fatal injuries can result from using improper mounting procedures.



NOTE: Check the fit of the lug wrench. An oversized wrench results in mutilated lug nuts.



WARNING: Maintain proper torque on lug nuts or wheel bolts. Failure to do so may result in serious injury or property damage.

Wheel Torque Requirements:

It is extremely important to apply and maintain proper wheel mounting torque on the travel trailer axle. Torque is a measure of the amount of tightening applied to a fastener (nut or bolt) and is expressed as length times force. For example, a force of 90 pounds applied at the end of a wrench one foot long will yield 90 lbs ft of torque. Torque wrenches are the best method to assure the proper amount of torque is being applied to a fastener.



NOTE: Wheel nuts or bolts must be applied and maintained at the proper torque levels to prevent loose wheels, broken studs and possible dangerous separation of wheels from the axle.

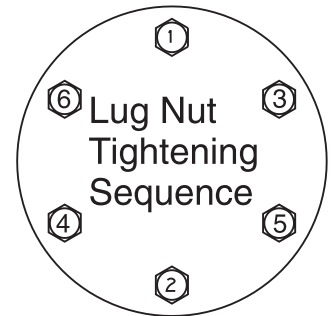
STEEL WHEELS

Be sure to use only the fastener matched to the cone angle of the wheel (usually 60° or 90°). The proper procedure for attaching the wheels is as follows:



WARNING: Do not exceed the maximum amount of torque. Over-torquing can result in damage to the lug nuts.

- Start all bolts or nuts by hand to prevent cross threading.
- Tightening of the fastener should be done in stages.
- Following the recommended sequence, tighten fastener per wheel torque chart.
- Wheel nuts/bolts should be torqued before first road use and after each wheel removal. Check and torque after the first 10 miles, 25 miles and again at 50 miles. Check periodically thereafter.



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TORQUE SEQUENCE - STEEL WHEELS

Wheel Size	First Stage	Second Stage	Final Stage
15"	20-25 foot lbs.	50-60 foot lbs.	90-120 foot lbs.



NOTE: If the tire and wheel is removed for any reason, the wheel installation procedure listed above must be followed.

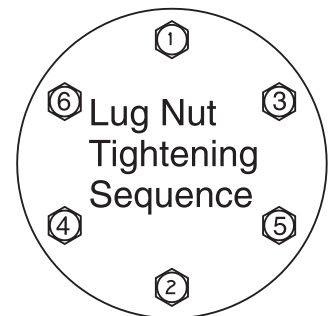
ALUMINUM WHEELS

Be sure to use only the fastener matched to the cone angle of the wheel (usually 60° or 90°). The proper procedure for attaching the wheels is as follows:



WARNING: Do not exceed the maximum amount of torque. Over-torquing can result in damage to the lug nuts.

- Start all bolts or nuts by hand to prevent cross threading.
- Tightening of the fastener should be done in stages.
- Following the recommended sequence, tighten fastener per wheel torque chart.
- Wheel nuts/bolts should be torqued before first road use and after each wheel removal. Check and torque after the first 10 miles, 25 miles and again at 50 miles. Check periodically thereafter.



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TORQUE SEQUENCE - ALUMINUM WHEELS

Wheel Size	First Stage	Final Stage
15"	80-90 foot lbs.	120-130 foot lbs.



NOTE: If the tire and wheel is removed for any reason, the wheel installation procedure listed above must be followed.



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