

Product Safety & Reliability Department
Telephone: 877-JLG-SAFE
Facsimile: 301-745-3713
E-mail Address: productsafety@jlg.com



Attn: *Safety Manager or Service Manager*

Subject: *Tire/Rim Assemblies of JLG Products*

The following tire and rim policies and requirements, as stated by JLG Industries, Inc. ('JLG'), are in effect at the date of this memorandum. Should you have any questions or require additional information, please advise.

General

The pneumatic or foam filled tire assemblies installed on JLG products have been approved by the tire manufacturer for applications in which those products are intended to be used.

The tires and rims installed on JLG products are to be inspected daily as part of the daily walk-around inspection. This inspection includes foam filled tire assemblies, as well as pneumatic tires. JLG recommends that the daily walk-around inspection be performed at each operator change during a shift and at each shift change.

Tire Pressures

The tire pressures that are labeled on the side of the JLG product or the rim are approved by the tire manufacturer. These pressures may be higher than that stated on the tire in order to achieve stiffness of the tire sidewall for stability purposes. The maximum load carrying capacity and inflation pressure, as specified on the tire sidewall, are ratings for a specific type of application and is indicative of the ability of the tire to dissipate heat. Due to the slow speed application of our equipment, we can exceed these ratings in accordance with specifications which are determined by the tire manufacturer and the Tire and Rim Association.

The air pressure for pneumatic tires must be equal to the air pressure that is stenciled on the side of the JLG product or rim decal for safe and proper operational characteristics.

Rims

The rims installed on each product model have been designed for stability requirements which consist of track width, tire pressure, and load capacity. Size changes such as rim width, centerpiece location, larger or smaller diameter, etc., without written factory recommendations, may result in an unsafe condition regarding stability.

Repair

For pneumatic tires, JLG recommends that when any cut, rip, or tear is discovered that exposes sidewall or tread area cords in the tire, measures must be taken to remove the JLG product from service immediately. Arrangements must be made for replacement of the tire or tire assembly.

For polyurethane foam filled tires, JLG recommends that when any of the following are discovered, measures must be taken to remove the JLG product from service immediately and arrangements must be made for replacement of the tire or tire assembly:

- Smooth, even cut through the cord plies which exceeds 3 inches in total length;
- Tears or rips (ragged edges) in the cord plies which exceeds 1 inch in any direction;
- Punctures which exceed 1 inch in diameter; or
- Damage to the bead area cords of the tire
- Evidence of fluid leaving the tire at the valve stem, bead of the tire, or at any punctures/holes in the tire;
- For tires that appear to have “flat spotting” at the interface to the ground, insert a 2-3 mm diameter wire into the hole opposite the valve stem (tread area of tire) remove the wire and there is wet or oily residue on the wire.

If a tire is damaged but is within the above noted criteria, the tire must be inspected on a daily basis to ensure the damage has not propagated beyond the allowable criteria.

Tubes may be installed inside of tires that meet the criteria outlined above for useable tires, only to eliminate small air leaks (i.e., bead leaks, small nail puncture, etc.). Radial nail hole repairs up to 3/8 inch diameter may be made by using an industry approved commercial/industrial tire repair procedure, such as an internally applied plug and liner patch repair system, provided the nail hole is at least one inch inside the shoulder. Do not attempt any section repairs or repairs to the shoulder or sidewall areas.

Replacement

JLG recommends that any replacement tire be the same size, ply and brand as originally installed on the machine. Please refer to the JLG Parts Manual for the part number of the approved tires for a particular machine model. If not using a JLG approved replacement tire, we recommend that replacement tires have the following characteristics:

- Equal or greater ply/load rating and size of original;
- Tire tread contact width equal or greater than original;
- Wheel diameter, width, and offset dimensions equal to original; and
- Approved for the application by the tire manufacturer (including inflation pressure and maximum tire load)

Unless specifically approved by JLG, do not replace a foam filled tire assembly with a pneumatic tire. When selecting and installing a replacement tire, ensure that all tires are inflated to the pressure recommended by JLG. Due to size variations between tire brands, both tires on the same axle should be the same and all four tires should contain the same fill media.

Retreading

The retreading of original tires used on JLG products voids the original tire warranty. JLG is not responsible for the quality, utilization, or application of retreaded tires. The re-treading of original tires is authorized only when the following conditions can be met:

- Original tire casing is in serviceable condition, with no cuts or damage that exposes sidewall cords or damage to tread area cords;
- The tire has no previous repairs;
- The replacement tread contact width is equal to or greater than original;
- The re-treaded tire diameter is within The Tire and Rim Association Inc.'s (<http://www.us-tra.org>) accepted tolerances for the original tire diameter;
- The re-treaded tire is approved for the application by the tire re-treading supplier (including inflation pressure and maximum tire load); and
- The re-treading process follows the Tire Retread Information Bureau (<http://www.retread.org/>) or equivalent guidelines.

Tire Fill

All JLG products equipped with pneumatic tires may be foam filled except the following Models: G5-19A; G6-23A; 266; and 307 Telehandlers.

JLG recommends using a high-quality polyurethane foam tire fill with a minimum durometer of 28“A” (ASTM D2240 specification) for most tires. The 445/50-D710 tire on 1500AJP and 1850SJP boom lifts, require the use of a heavy-duty tire fill with a minimum durometer of 45 “A” (ASTM D2240 specification).

IMPORTANT: The tire must be filled at the same air pressure as recommended for a pneumatic application. All applicable procedures must be followed as improperly installed tire fill may cause unsatisfactory machine performance.