

## **ATV/UTV Tire Ball Maintenance Plan**

The two most important factors in maintaining the product are:

- using the **correct tire and Tire Ball® inflation pressure** and
- applying **ample lubricant** for your application.

**Performance/Racing Applications** – Customers using the Tire Ball<sup>®</sup> product in the most extreme conditions running low tire and ball pressure for performance gains are required to follow maintenance procedures regularly after competition and during off-season breaks.

- *When your vehicle is going to sit idle for extended periods of time, inflate your tires (through the valve stem) to equalize or to be somewhat greater air pressure than what is inside the Tire Ball<sup>®</sup> air cell. This stops air from dissipating from the Tire Ball<sup>®</sup> by keeping the tire and ball air pressure constant. When ready for competition simply deflate the tire pressure to the desired PSI.*

**Residential/Commercial Applications** – Customers using the Tire Ball<sup>®</sup> product in extreme conditions wishing to virtually eliminate flat tires and unwanted downtime are required to follow the maintenance procedures below.

- *Follow your normal tire inflation maintenance requirements. This means keeping the tire inflated to the proper air pressure (through the valve stem). It is recommended to check your tire inflation pressure once monthly and before/after any rigorous use. The Tire Ball<sup>®</sup> Company recommends that you keep your tire constantly inflated to equal or greater pressure than what is inside the Tire Balls. This will stop air from dissipating from the Tire Ball<sup>®</sup> and eliminates any unscheduled tire maintenance.*

Note:

- *If your tire is deflated for longer than 3 months and you are only running on the Tire Ball<sup>®</sup> Inflation System it is necessary to breakdown the tire and re-inflate the Tire Ball<sup>®</sup> air cells to the recommended application air pressure.*
- *If your tire is punctured or cut, The Tire Ball<sup>®</sup> Company recommends plugging the tire and re-applying the correct amount of silicone lubricant into your tire.*
- *For those Residential/Commercial applications looking to get the longest possible tire life you must plug the tire to eliminate debris from getting into the tire and silicone lubricant leaking through puncture or cut. (For those Performance/Racer applications that change tires often for the next event will not find this step necessary.)*
- *If you continue to use Tire Ball<sup>®</sup> air cells in the same tire for longer than 6 months you are required to reapply Tire Ball<sup>®</sup> silicone lubricant through the valve stem. This step can be done simply, without disassembling the tire, by injecting silicone lubricant through the tire valve (after removing the core) and will help lubricate the tire and Tire Balls.*

**\*\*Note:** Nitrogen can be used to combat some of the common issues affecting Tire Ball pressure. Nitrogen is proven to be more stable than compressed air, which is why professional racers and aviation engineers have been using it for years. Nitrogen is less likely to migrate through the Tire Balls than compressed air, which means that your tire pressures will remain more stable over the long term. Tire Balls filled with nitrogen rather than compressed air also exhibit less pressure change with temperature swings. That means more consistent inflation pressures during a race as the tires heat up.

## **Factors Affecting Tire Ball<sup>®</sup> Product Life**

Here is a list of common factors affecting Tire Ball<sup>®</sup> product life and some easy maintenance steps to properly adhere to the Limited Manufacturers Warranty. These solutions will insure the longest possible life out of your new high performance product:

- Under inflation
- Atmospheric/Geographic Conditions
- Off-Road Hazard Damage
- Vehicle Application
- Lack of owner Maintenance /Consumer Neglect
- Tire Maintenance

**Under inflation** - The leading cause of Tire Ball<sup>®</sup> damage. To avoid unnecessary Tire Ball<sup>®</sup> damage you will need to maintain the proper air pressure inside the Tire Ball<sup>®</sup> cells for your vehicle and application. Failure to keep your tires/balls properly inflated can increase wear and will have a negative effect on your vehicles handling/performance. *Please review the air pressure / application chart for recommended pressures for your vehicle and application.*

**Atmospheric/Geographic Conditions** – Temperature and elevation changes can lead to variations in air pressure. Due to the small volume of air in your Tire Ball<sup>®</sup> air cells this can have a major effect on your products performance. Air pressure changes +/- 1-2 pounds for every 10 degrees of temperature change and +/- ½ pound for every 1,000 feet in elevation change. Air pressure goes up in warm weather and down in cold weather it also increases at higher elevation and decreases at lower elevation. The best way to combat these effects for racing applications is to inflate your Tire Ball<sup>®</sup> in cold temperature as close to the elevation you will be competing. For Residential/Commercial applications inflate your tire pressure through valve stem accordingly and monitor if ride quality changes.

**Off-Road Hazard Damage** – check your tires frequently for any cuts, punctures or other deformities that may arise during extreme use. If you notice a cut/puncture use a standard plug/patch kit and repair, then re-inflate through the valve stem to the correct pressure. This will insulate your Tire Ball<sup>®</sup> cells and help eliminate any pressure variance or loss due to atmospheric and geographic changes. Plugging your tire will also stop the silicone lubricant from leaking out and help keep unwanted debris from collecting inside the tire and possibly damaging the Tire Balls. If you feel as though you need to reapply the Tire Ball<sup>®</sup> silicone lubricant you can do so without disassembling the tire. Simply remove the valve cap and core insert from the valve stem and insert 2 ounces of lubricant through the stem and replace valve core and cap.

**Vehicle application** – Tire Ball<sup>®</sup> cells are used in the most extreme off-road environments. When using our product for higher speed and desert applications proper pressure is a must. Similar to your vehicles tires high speeds will generate heat, which increases the rate of wear and reduces product durability over time. It is imperative to inflate your Tire Ball<sup>®</sup> to the correct air pressure for your vehicle application (please see vehicle application/pressure chart provided with installation instructions).

**Lack of Owner maintenance/Consumer Neglect** – Running Tire Ball<sup>®</sup> cells at low inflation pressures for extended periods of time or failure to lubricate the product regularly (once every 3 months) can result in premature failure of the product and a void warranty. It is required that you follow the maintenance steps listed to be eligible for our Limited Manufacturer's Warranty.

**Tire Maintenance** – The best way to prolong Tire Ball<sup>®</sup> life is to follow your normal tire inflation maintenance requirements. This means keeping the tire inflated to the proper air pressure through the valve stem for your vehicle application. It is recommended to check your tires inflation pressure once a month and before/after rigorous use.