All Tyre & Wheel Service
CAR • 4X4 • TRUCK AGRICULTURAL • EARTHMOVING
5 Peart Street, Bairnsdale 3875
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Ph (03) 5153 1977
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N_2 Tyre Inflation

Nitrogen inflation is the most advanced method of pressurising tyres.

Nitrogen gas has a number of benefits over normal compressed air, which contains oxygen and other gases.

All Tyre & Wheel Service has invested in this technology, and can provide cost effective nitrogen inflation to benefit motorists. Benefits of Nitrogen Inflation include:

- **Significantly Improved Pressure Retention**: Nitrogen is made up of larger molecules than oxygen, meaning it will not diffuse through rubber like oxygen does. Tyres filled with normal air will lose pressure over time, however Nitrogen will stay at a constant pressure for the lifetime of your tyres.

- **Improved Pressure Stability:** Nitrogen is a stable non-reactive gas, meaning it will stay at a constant pressure in your tyres regardless of temperature. Oxygen will expand in higher temperatures, and contract in lower temperatures, which in turn negatively affects the handling and ride of the vehicle. Nitrogen eliminates this.

- **Oxidation Eliminated:** Normal compressed air contains moisture, which ultimately reduces the life of a tyre. Moisture will eventually cause rubber oxidisation and rust steel belts in the tyre. Nitrogen contains no moisture and hence will result in longer lasting tyres.

- **Fuel Savings:** Nitrogen delivers a more stable inflation pressure, which ensures the rolling resistance of your tyres will be minimised for a longer period of time, improving fuel economy.

- **Longer Tyre Life:** Tyres inflated with High Purity Nitrogen retain a constant pressure for six times as long, resulting in more even tyre wear and up to 30% more tread life. Rubber will also wear slower at lower temperatures. Normal air will tend to run hot, however Nitrogen will run much cooler, improving tread life.

- **Improved Tyre Safety:** Tyre Blowouts are a significant motoring safety issue. Normal air will tend to run hot in tyres (and increase pressure at the same time), which increases the risk of tyre blowout significantly. Nitrogen is a low absorber and conductor of heat, meaning your tyres will run cooler, thus reducing the risk of tyre blowout.
- **Less Road Noise**: Nitrogen has much lower audio frequency conductibility than oxygen, helping reduce road noise.

Nitrogen Inflation, for many of the above reasons, is mandatory for use in Aviation. Nitrogen is a safe, non-combustible and non-reactive gas, making it the safest, most efficient and most effective method of pressurising pneumatic tyres.

Enquire now for more information!

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