



**LIMITED WARRANTY  
PIRELLI ORIGINAL EQUIPMENT  
& REPLACEMENT  
PASSENGER & LIGHT TRUCK TIRES**

**What Is Warranted and Who Is Eligible For Warranty Coverage?**

Pirelli Tire LLC (Pirelli), 100 Pirelli Drive, Rome, GA 30161, warrants that all Pirelli Original Equipment and New Replacement Passenger and Light Truck tires with a complete D.O.T. identification number and branded "Pirelli" which are supplied by Pirelli, either directly or through an authorized Pirelli dealer, and which are mounted on passenger vehicles and light trucks for primary use within the U.S.A. and Canada will be free from defects in workmanship and materials. This Limited Warranty is extended to the first retail purchaser of the tire in the United States and Canada or to the original owner of the vehicle on which Pirelli tires come mounted as Original Equipment.

This Limited Warranty does not cover any associated service charges, including costs associated with mounting and balancing of the tire, tire rotation, studding, wheel alignment, etc., unless and to the extent otherwise expressly stated herein.

**Original Equipment and Replacement Tires Definitions**

"Original Equipment Tires" are Pirelli tires supplied as original equipment by the vehicle manufacturer or vehicle dealer on new vehicles.

"Replacement Tires" are Pirelli tires mounted to your vehicle after the Original Equipment Tires or any tires from other manufacturers have been removed from your vehicle.

Any references in this Limited Warranty to "Pirelli tires" without specification as to Original Equipment Tires or Replacement Tires should be read as reference to either one or both Original Equipment Tires or Replacement Tires.

**Other Warranties**

**THIS LIMITED WARRANTY IS THE ONLY EXPRESS WARRANTY GIVEN BY PIRELLI. PIRELLI DOES NOT MAKE ANY OTHER EXPRESS WARRANTY, AND ANY IMPLIED WARRANTIES, INCLUDING WITHOUT LIMITATION THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE APPLICABLE DURATION OF THIS LIMITED WARRANTY. PIRELLI DOES NOT AUTHORIZE ANY OTHER PERSON, INCLUDING AUTHORIZED PIRELLI DEALERS OR VEHICLE MANUFACTURERS, OR VEHICLE DEALERS, TO CHANGE THIS LIMITED WARRANTY OR CREATE ANY OTHER OBLIGATION IN CONNECTION WITH PIRELLI TIRES.**

Some jurisdictions do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

## **What Is the Standard Limited Warranty Coverage?**

If an eligible Pirelli tire becomes unserviceable due to workmanship or material defects within **the first year from the date of purchase or within the first 2/32” of the original usable tread**, whichever occurs first, the tire will be replaced with an identical or comparable Pirelli tire at no charge to the owner, including mounting and balancing (subject to applicable limitations). Miscellaneous fees and taxes are not covered under this Limited Warranty.

If a Pirelli tire becomes unserviceable due to workmanship or material defects (other than ride-related complaints and Road Hazard) following the initial warranty period above, the owner must pay the pro-rata cost for a comparable Pirelli Replacement Tire. Owner is responsible for mounting and balancing charges. An authorized Pirelli dealer will determine the pro-rata cost by multiplying the percentage of the original usable tread that has been worn by the current dealer selling price.

When the treadwear indicators become visible (2/32” tread depth remaining), regardless of age or mileage, the tire is considered to be 100% worn and will not be covered by this Limited Warranty.

## **Pirelli Confidence *Plus* Plan™ for Select Replacement Tire Lines**

This Limited Warranty includes a 30-day trial period for select Pirelli Replacement Tires installed as a set of four (4) (front and rear) within 30 days of your original purchase date or the first 2/32” of original usable tread, whichever occurs first, you may return the set of eligible Pirelli Replacement Tires you wish to replace to the original place of purchase, along with the original purchase sales receipt, and exchange them for a different set of Pirelli Replacement Tires. As an alternative, if there is no other suitable Pirelli Replacement Tire line available in your size, the purchase price of the eligible tires you are seeking to return will be refunded, less taxes and fees.

## **Replacement Tire Lines Which Qualify for the Pirelli Confidence *Plus*™ Plan**

Cinturato™ P1™ *Plus*  
Cinturato™ P7™ All Season *Plus*  
Cinturato™ P7™ All Season *Plus II*  
P7™ All Season *Plus 3*  
P4™ Four Seasons *Plus*  
P4™ Persist All Season *Plus*  
P Zero™ All Season *Plus*  
Scorpion™ Verde™ All Season *Plus*  
Scorpion™ Verde™ All Season *Plus II*  
Scorpion™ All Season *Plus 3*  
Scorpion™ Zero™ All Season *Plus*  
Scorpion™ All Terrain *Plus*

## Treadwear Coverage for Select Replacement Tire Lines Only

This Limited Warranty also warrants Treadwear Coverage to the original purchaser of select Replacement Tires purchased through an authorized Pirelli dealer. Treadwear Coverage will extend for the vehicle odometer miles described below, from the point of original retail purchase (the "Treadwear Coverage"). This Treadwear Coverage does not apply to Original Equipment Tires.

Driving habits, road conditions, vehicle platform and vehicle and tire maintenance are all factors that contribute to tire wear. If your Replacement Tires do not reach the miles listed in the Treadwear Coverage table below but otherwise meet with all other Treadwear Coverage Conditions set forth in this Limited Warranty, your tires will be replaced as follows: the owner must pay the pro-rata cost for a comparable Pirelli Replacement Tire. An authorized Pirelli dealer will determine the pro-rata cost by multiplying the current dealer selling price by the percentage of the warranted mileage used by the owner.

### Treadwear Coverage Conditions

- You must be the original purchaser of the Replacement Tires and have a copy of the original invoice showing the application mileage.
- You must be the owner of the vehicle on which the Replacement Tires were originally installed.
- The tires must be from one of the Replacement Tire lines listed in the table below titled "Treadwear Coverage".
- You must have had the Replacement Tires rotated at least every 5,000 to 7,000 miles.
- Your servicing tire dealer must be an authorized Pirelli dealer and must have completed the Tire Rotation Record.
- The tires must be worn evenly across the tread, down to the treadwear indicator (2/32" of tread depth) at which time they are considered to be 100% worn out. There cannot be more than a 2/32" tread depth difference across the tire.
- Passenger and P-Metric Light Truck tires are not covered for mileage when used on commercial vehicles or in commercial applications.
- For vehicles equipped with different Replacement Tire sizes front and rear, the Treadwear Coverage for the rear tires will be 50% of the mileage coverage stated below.

### Treadwear Coverage

<b>Tire Line</b>	<b>Mileage Coverage</b>
Cinturato™ P1™ <i>Plus</i>	35,000
P4™ Four Seasons T	85,000
P4™ Four Seasons H	65,000
P4™ Four Seasons T <i>Plus</i>	90,000
P4™ Four Seasons H <i>Plus</i>	70,000
P4™ Four Seasons V <i>Plus</i>	65,000
P4™ Persist All Season <i>Plus</i>	85,000
P6™ Four Seasons <i>Plus</i>	45,000

Cinturato™ P7™ All Season <i>Plus</i>	70,000
Cinturato™ P7™ All Season <i>Plus II</i>	70,000
P7™ All Season <i>Plus 3</i>	70,000
P Zero™ Nero™ All Season	45,000
P Zero™ All Season <i>Plus</i>	50,000
Scorpion™ ATR	50,000
Scorpion™ STR	65,000
Scorpion™ Verde™ All Season <i>Plus</i>	65,000
Scorpion™ Verde™ All Season <i>Plus II</i>	65,000
Scorpion™ All Season <i>Plus 3</i>	70,000
Scorpion™ Zero™ All Season <i>Plus</i>	50,000
Scorpion™ All Terrain <i>Plus</i>	50,000

### **Road Hazard Coverage for Run Flat and sensorized tires**

Pirelli provides road hazard coverage on Pirelli Original Equipment Tires and Replacement Tires that are sensorized or manufactured with Pirelli Run Flat technology.

If a Pirelli Run Flat or sensorized tire becomes unserviceable due to road hazard damage within the first year from the date of purchase, or within the first 2/32" of the original usable tread, whichever occurs first, the Pirelli tire will be replaced with an identical or comparable tire at no charge for the tire to the owner.

### **What Is Not Covered by this Limited Warranty?**

- Ride-related claims after the first year of purchase, or after the first 2/32" of useable tread, whichever comes first. These include, without limitation, uneven wear due to misalignment, worn suspension components, mechanical interference and/or improper inflation, flat spots due to improper transport, improper storage and/or braking, road irregularities, etc.
- Irregular wear.
- Excessive noise.
- Tires with 2/32" or less tread remaining.
- Tire damage and surface cracks due to use in low ambient temperatures (except in winter and all-season Pirelli tires as defined in the applicable Pirelli Product Catalog).
- Tire damage due to abuse or misuse, including without limitation:
  - improper mounting/dismounting practices, application of aftermarket wheel protection hardware, abuse, misuse, or neglect;
  - misapplication, including improper fitment, insufficient Speed Rating, or Load Index, or undersized or oversized tires;
  - improper repair, repair not conforming to U.S. Tire Manufacturers Association standards, or repairs with a self-vulcanizing plug only or patch only;

- modification by the addition or removal of material or alteration – including but not limited to sidewall markings, bead barcode, Pirelli tire sensor, PNCS foam, Pirelli Seal Inside layer;
- recapping, retreading, regrooving or in the studding process;
- tire operation in excess of tire/wheel manufacturers' specifications and recommendations, including spinning;
- mechanical irregularities in the vehicle including, without limitation, misalignment, defective brakes, defective shock absorbers or struts, or improper rims;
- fire, chemical corrosion, vandalism, wrecks, theft, running while flat, underinflated or overinflated or abuse during servicing;
- road hazard injuries (including, without limitation, due to nails, glass, metal objects) or other penetrations or snags, bruises or impact damage (other than for sensorized and Run Flat tires specifically covered under the Road Hazard policy);
- running on a dynamometer.

Additional Exclusions:

- Tires on any vehicle registered or operated outside the United States of America or Canada;
- Tires transferred from the vehicle on which they were originally installed by a vehicle manufacturer or authorized Pirelli dealer;
- Additional tires that are not independently subject to a warranty claim;
- Tires which have been inflated with anything other than air or nitrogen;
- Tires which have been injected with liquid balancer or sealant, or any other balancing material;
- Passenger tires (Euro-metric/P-metric) used on commercial vehicles or used in commercial applications;
- Tires used in any form of racing or any high performance driving event including high performance driving schools/instruction and track day events.

## **Owner's Responsibilities**

The owner is responsible for proper tire care and maintenance. Maintain the recommended tire pressure by checking the tire pressure monthly and before long trips with an accurate pressure gauge. Using vehicle manufacturer suggestions based on load will improve tire life and your satisfaction with the tires.

### **CAUTION :**

Please be aware that it is important before fitting the suggested tires, to ensure that the fitting is allowed by the technical specifications of the vehicle, the vehicle manufacturer and relevant laws/regulations. Pirelli does not express any view as to the compatibility of the wheel/tire combination with the technical specifications for the chassis and vehicle.

TO MAINTAIN VEHICLE DYNAMICS AND LOAD CARRYING CAPACITY, REPLACEMENT TIRES MUST ALWAYS HAVE A LOAD INDEX AND SPEED RATING THAT EQUALS OR EXCEEDS THAT OF THE ORIGINAL EQUIPMENT TIRES OF THE VEHICLE. FOR ADDITIONAL TIRE CARE RECOMMENDATIONS, PLEASE REFER TO THE "TIRE CARE AND SERVICE" SECTION BELOW.

### **How to Initiate a Claim Under This Limited Warranty**

To initiate a warranty claim, the Pirelli tire(s) must be returned to an authorized Pirelli dealer. If the tire(s) are covered by this Limited Warranty, the authorized Pirelli dealer will submit the tire to Pirelli. Pirelli's Tire Inspection Personnel will then authorize the remedy if the tire is covered by this Limited Warranty.

In order to initiate a claim under the terms of this Limited Warranty, you must present the affected Pirelli tire(s) along with the proof of purchase to an authorized Pirelli dealer. Once tires are returned to Pirelli by an authorized Pirelli dealer and credit has been issued to such dealer, submitted tires become the property of Pirelli. Pirelli reserves the right, in its absolute discretion, to refuse to return a tire submitted for warranty whether or not warranty coverage was provided. To locate an authorized Pirelli dealer in your area, refer to the Dealer Locator at [www.us.pirelli.com](http://www.us.pirelli.com).

## **REMEDY LIMITATIONS**

**THE RIGHTS AND REMEDIES STATED IN THIS LIMITED WARRANTY ARE PIRELLI'S ONLY RESPONSIBILITY, AND YOUR ONLY REMEDIES. ALL OTHER REMEDIES ARE EXCLUDED. IN NO EVENT SHALL PIRELLI BE RESPONSIBLE FOR ANY CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGE(S) IN CONNECTION WITH A PIRELLI TIRE, WHETHER FOR BREACH OF THIS LIMITED WARRANTY, OTHER CONTRACT BREACH, NEGLIGENCE OR OTHER TORT, OR ON ANY STRICT LIABILITY THEORY.**

Some jurisdictions do not allow the exclusion or limitation of incidental or consequential damages, so the above exclusion may not apply to you. This Limited Warranty gives you specific legal rights and you may also have other rights which vary by jurisdiction.

## **Tire Registration**

Please request that your authorized Pirelli dealer register your Replacement Tires, provide you with a registration card, or go to [www.us.pirelli.com](http://www.us.pirelli.com) to register your Pirelli tires on line. In case of a Pirelli tire recall, we can reach you only if we have your name and mailing address, and you must register your Pirelli tires to be on our list. However, you are not required to register to get the benefits of this Limited Warranty.

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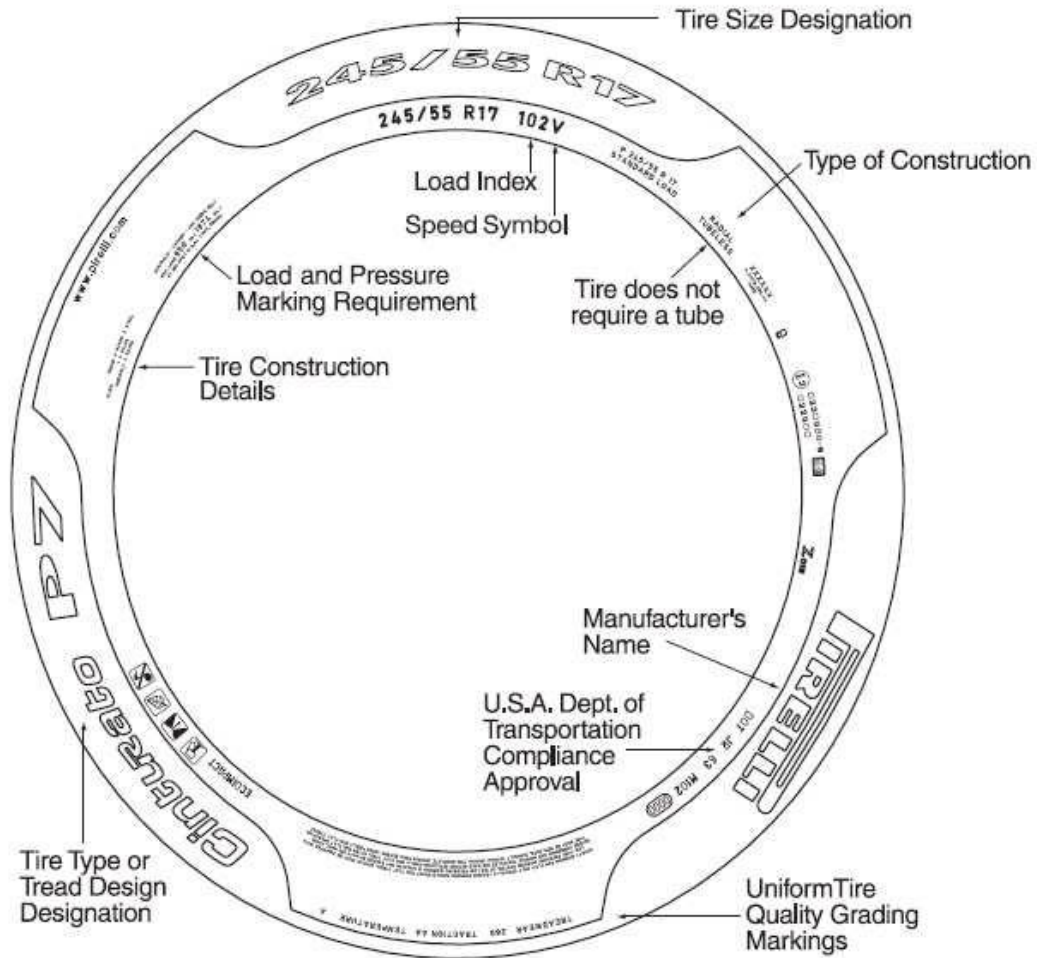
If further assistance or information is needed regarding Pirelli tires please contact:

Pirelli Tire LLC  
Consumer Affairs Group  
100 Pirelli Drive  
Rome, GA 30161  
Monday through Friday  
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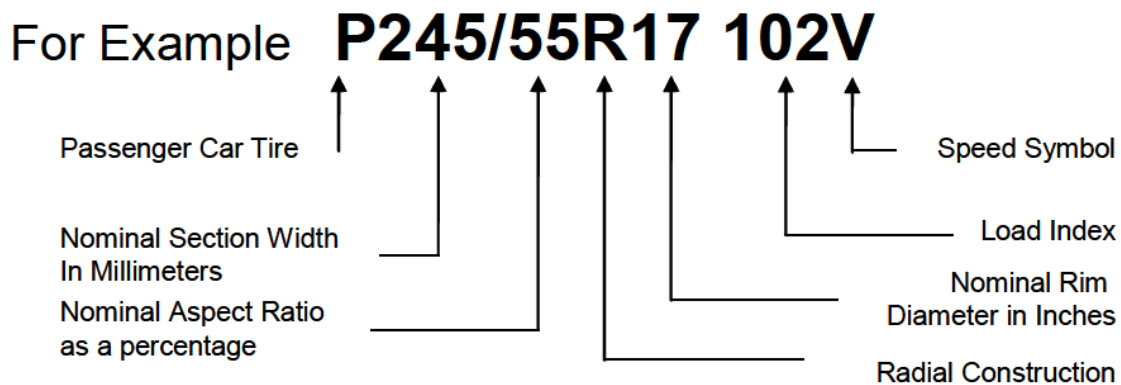
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# TIRE CARE AND SERVICE

## 1. Tire Sidewall Markings



**Tire Size:** A combination of alphabetic and numeric characters that indicate the nominal dimensions of a tire:





**Load Index Number**, a numeric code which indicates the maximum load carrying capacity of a tire at the maximum cold inflation pressure.

**Speed Symbol**, an alphabetical code which indicates the maximum speed at which the tire can carry a load corresponding to its Load Index when properly inflated. These two items together are known as the "Service Description".

### Speed Symbol Chart

SPEED SYMBOLS	Q	R	S	T	U	H	V	W	Y	(Y)
MPH	99	106	112	118	124	130	149	168	186	>186

\*For tires having a maximum speed capability above 149 mph, a "ZR" may appear in the size designation; above 186 mph, a "ZR" must appear in the size designation, and a Service Description, including the "Y" speed symbol, must be included in brackets.

### Other Markings:

P - As part of the tire size designation (e.g., P205/65R15), is used to indicate tires intended for service on passenger cars.

LT - As part of the tire size designation (e.g. LT235/75R15), is used to indicate the tires are intended for service on light truck vehicles.

XL - As part of the size designation (e.g. P235/75R16 XL), is used to indicate the tire can carry more load as the maximum inflation pressure and load are greater than a standard load version. (Also could be called REINFORCED).

HL - As part of the tire size designation (e.g., HL215/55R17), is used to indicate tires that provide an increased load capacity in comparison with extra load tires at the same reference inflation pressure.

M&S, M+S, M/S - Letters used to indicate a tire suitable for Mud and Snow and/or All Season usage.



- 3 peak mountain snowflake pictograph used to indicate a tire suitable for use in severe snow conditions.

## 2. Tire Categories:

**ALL SEASON TIRES:** Tires that are designed to perform in a variety of road conditions in All Seasons of the year. An All Season tire will carry "M+S", "M&S", or "M/S" designation on the sidewall.

**SUMMER TIRES:** Summer tires offer superior handling, grip and cornering ability compared to standard tires under certain conditions.

**WINTER TIRES (Snow Tires):** A winter tire is a tire with a tread design and compound made specifically for snow and ice conditions and is identified by a 3 peak mountain snowflake pictograph on the sidewalls and must meet specific snow performance test requirements.

The information provided above is an overview of tire types. Tread patterns and rubber compounds vary among the seasonal tire types and provide varying performance characteristics and limitations. Summer performance tires are different than winter and All Season types.

### 3. Pressure Recommendations

Recommended tire inflation pressures for your vehicle can be found either on your vehicle's tire placard or in your owner's manual. Correct pressures are related to load, speed and vehicle handling and are vital for even braking, maximum traction and good tire life. Under no circumstances should your tires' cold inflation pressure be less than that indicated on your vehicle's tire placard or in your owner's manual or higher than the maximum cold inflation pressure molded on to the tire's sidewall. Under inflation causes excessive flexing, deterioration of the tire and rapid wear of the tread edges. Over inflation results in an uncomfortable ride, a reduced area of tire contact with the road surface (i.e., smaller tire footprint), higher susceptibility to impact damage and rapid wear on the tread center.

Whether inflated by air or nitrogen, regular inflation pressure maintenance remains critical and necessary. Use of nitrogen alone is not a replacement for regular inflation pressure maintenance.

**WARNING: Driving on tires with improper inflation pressure is dangerous. These situations can cause a tire failure, including tread/belt separation, even at a later date, which could lead to an accident and serious personal injury or death.**

Inflation pressure must be checked at least once a month and before long trips, and should be checked only when the tire is cold or before it has been driven. Driving even a short distance causes tires to heat up and the air pressure to increase. Never reduce or "bleed" air from hot tires since your tires will then be underinflated when they cool down. Always use a reliable pressure gauge.

### 4. UHP Summer Tires

The special tread compounds formulated for Ultra High Performance (UHP) summer tires are optimized for maximum dry and wet performance in warm temperatures. The compounds in these tires will have decreased performance, such as lateral and braking traction, at temperatures below 45° F (7°C) or when driving on snow or ice. In addition, they can lose flexibility and may develop random surface cracks at very cold temperatures; therefore extra care should be used in handling tires. All Season or winter tires should be installed for use at temperatures below 45° F (7°C), UHP summer tires are not recommended for lower temperature conditions.

### 5. DOT Street Legal Competition Tires

P Zero Trofeo, P Zero Trofeo R, P Zero Corsa and P Zero Corsa System tire lines use special tire construction and compounds to achieve their distinctive performance in dry conditions. As a result of that, their performance in cold temperatures, heavy rain or standing water will be decreased. Use extreme caution and drive slowly on wet roads. Additionally, the minimum tread depth will be reached earlier than with standard road tires, resulting in reduced tread life.

## **6. Winter Tires**

In low temperature conditions, Pirelli recommends the fitment of 4 winter tires of the same line. Please check your vehicle owner's manual concerning winter tire size recommendation. If the winter tires have a lower speed rating than the original equipment tires, vehicle handling may be affected, and the vehicle maximum speed must be reduced to the winter tire speed rating.

If using studded winter tires, Pirelli recommends that studded tires be installed on all four positions.

**Please note that studded tires are not legal in all jurisdictions. Please check the applicable legal requirements before installing studded tires.**

Please note, for both winter tire and studded tire usage, if such tires are applied to the front axle, they **must** also be applied to the rear axle.

## **7. Run Flat Tires**

Always refer to the vehicle owner's manual with respect to specific safety and operating information relating to the vehicle. Damaged Run Flat tires or Run Flat tires that have experienced a loss of pressure should immediately be replaced with another Run Flat tire of identical size and Service Description (Load Index and Speed Symbol).

Run Flat tires have been developed based on the specifications of the vehicles on which they are mounted. Accordingly, Run Flat tires should only be mounted on vehicles specifically manufactured to accommodate Run Flat tires.

Run Flat tires must be mounted in conjunction with a functional Tire Pressure Monitoring System (TPMS).

The mounting of tires and installation of the Tire Pressure Monitoring System (TPMS) should be carried out by an authorized Pirelli dealer.

## **8. Pirelli "Seal Inside" Technology**

Select Pirelli tires incorporate "Seal Inside" technology, a construction designed to reduce the loss of air from a tire in most circumstances when the tire tread is punctured by an object. The "Seal Inside" technology is not designed or intended to be a permanent repair. Should the "Seal Inside" technology be activated, immediately drive your vehicle to an authorized Pirelli dealer for an inspection to determine if repair or replacement is needed.

## **9. Pirelli Noise Canceling System**

Select Pirelli tires are constructed with Pirelli Noise Canceling System (PNCS). This is a technology that reduces the tire cavity noise caused by the vibration of the tire structure when rolling on the road surface, which is one of the major factors generating noise inside the vehicle.

## 10. **Pirelli Sensorized Tires**

The sensorized tire provides specific data to a selected vehicle manufacturer's onboard computer system designed to work with Pirelli sensorized tires. It is important the care is used during mounting and demounting to avoid damage to the sensor.

If sensorized tires are stored off the vehicle during seasonal changes, the fitted unit must be stored in a stack, inflated at a maximum pressure of 1.5 bar (21.75 psi) to preserve the sensor battery life.

**Warning: It is essential to inflate sensorized tires to placard pressure before returning tires to service.**

Pirelli sensorized tires should be returned to authorized dealers at end of life so that the sensor and the tire can be recycled properly.

## 11. **Elect**

The Elect marking on a Pirelli tire sidewall identifies tires developed to meet the specific technical requirements of electric and plug-in hybrid vehicles.

## 12. **Tire Replacement**

The tires fitted to your vehicle as Original Equipment were tested and approved by the vehicle manufacturer and the tire manufacturer and take into account all aspects of the vehicle's operation. Changes in the tire size, type or construction should not be made without seeking advice from the vehicle or tire manufacturer or an authorized Pirelli dealer since unapproved tires on your vehicle could adversely affect steering, handling, braking and traction. The tire information (tire size, load index and speed rating) as found on the vehicle placard or in the owner's manual should always be followed when replacing tires. It is important that TPMS functionality be confirmed each time a tire is replaced if applicable. Sensorized tires **must** be replaced with Pirelli equivalent sensorized tires that communicate with the select vehicle onboard computer system to properly provide the designed functionality by the vehicle Manufacturers. It is strongly recommended that Pirelli tires be mounted in sets of four with the same tread type. Pirelli tires should not be mixed with other tire brands. It is necessary to follow this procedure because different tire constructions have different handling characteristics. Tires on the same axle must be the same manufacturer, brand, tire size, load index, speed rating and Pirelli part number. When changing only two tires on a vehicle which is homogeneously fitted (four tires of the same tire size), fit the new tires on the rear axle. This applies to all vehicles regardless of their drive axle (Front or Rear Drive).

On all wheel drive or four wheel drive vehicles the tires must always be replaced in sets of four. When replacing tires, you should always follow the vehicle manufacturer's recommendations. Passenger and light truck tires are not interchangeable, due to differences in their pressures and load carrying capacity.

P-Metric and Euro-Metric Interchangeability: Euro-Metric (Example: 225/45R17) tires have a load index which is equal to or greater than that of the same size P-Metric (Example: P225/45R17) tire. Therefore, they have the same or higher load carrying capacity at the

maximum rated inflation pressure. Always check with your tire dealer or Pirelli Tire Consumer Affairs to check interchangeability to maintain proper vehicle dynamics.

Please be aware that it is important, before fitting the suggested tires, to confirm that the fitment is allowed by the technical specifications of the vehicle, the vehicle manufacturer and the relevant homologations. Pirelli does not express any view as to the compatibility of the wheel/tire combination with the technical specifications for the chassis and vehicle.

**TO MAINTAIN VEHICLE DYNAMICS AND LOAD CARRYING CAPACITY, REPLACEMENT TIRES MUST ALWAYS HAVE A LOAD INDEX AND SPEED SYMBOL EQUAL TO OR GREATER THAN THOSE FITTED AS ORIGINAL EQUIPMENT.**

When installing plus size fitments, you should consult with the dealer regarding any suspension or braking system modifications which may be recommended for the vehicle.

Tires taken out of service should be recycled properly through an authorized dealer or tire recycling service provider.

### **13. Tire Inspection**

As a minimum, tires should be examined and air pressure checked monthly and always prior to long trips. They should also be examined if you strike any unusual object on the road. Tires showing bulges, cracks, cuts, penetrations or uneven wear must be dismantled and examined by an authorized Pirelli dealer to determine proper action – this includes but not limited to tires with Run Flat, and Seal Inside technology. Pirelli tires have treadwear indicators in the tread grooves, which clearly show when the tread has worn to 2/32” remaining. At this point, your tires must be replaced because they do not meet the federal minimum tread depth and they may be dangerous if left in service.

Tires should be removed from service for numerous reasons, including tread worn down to minimum depth, damage or abuse (including, without limitation, punctures, cuts, impacts, cracks, bulges, under inflation, overloading, etc.). For these reasons, tires, including spares, should be inspected at least once a month and before long trips. Inspection should occur regardless of whether the vehicle is equipped with a tire pressure monitoring system. In addition to these visual conditions, consumers should take note of and address any change in performance such as increased air loss, noise or vibration or other factors.

The mere passage of time (age) does not cause tires to deteriorate, but rather exposure to outside forces. The service life of a tire is a function of service and storage conditions. For each individual tire, this service life is determined by many factors such as temperature/weather, storage conditions, and service conditions (e.g., load, speed, inflation pressure, maintenance, and road hazard damage, etc.) to which a tire is subjected throughout its life. Since service and storage conditions vary widely, accurately predicting the service life of any specific tire based on chronological age is not possible. There is no scientific or technical data that establishes or identifies a minimum or maximum service life, but the longer a tire has been in service, the greater the chance that it will need to be replaced due to service-related conditions.

Only use a mild soap solution to clean tires and rinse the soap off with low pressure tap water, use of high-pressure sprayers may cause damage. Never apply cleaners or other products to enhance sidewall or tire appearance to avoid removal of substances which are intended to protect the tire and reduce rubber degradation associated with the impact of ozone and other environmental conditions. The removal of these substances may degrade the rubber and can lead to sidewall cracking. To remove the protective film from a Pirelli tire with white letters, first flood the area with a stream of water from a hose. After a minute or two the film will soften and it can be removed with soft nylon brush if needed.

**WARNING: Driving on a damaged tire is dangerous, as the tire can suddenly fail, which can lead to an accident and serious personal injury or death.**

#### **14. Tire Rotation**

Pirelli recommends that you follow the tire rotation procedure as defined in your vehicle owner's manual. If there is no procedure specified, Pirelli recommends tire rotation every 5,000 to 7,000 miles (8,000 to 11,000 kilometers) to optimize your tire wear.

#### **15. Tire Repair**

Punctures, nail holes or cuts located in the tread area of Pirelli tires may be repaired if the diameter does not exceed 1/4" (6mm). The repair material used must seal the inner liner and fill the injury to be considered a permanent repair. Pirelli Seal Inside technology is not a permanent repair. U.S. Tire Manufacturers Association, The Tire and Rubber Association of Canada and industry approved repair methods include a combination of a plug and a patch; chemical or hot vulcanizing patches, and head type plugs; all which are applied from inside the tire. A self-vulcanizing plug repair may be used only in conjunction with a patch repair, but not by itself. Plugs may cause further damage to the tire, are not always airtight and may fail. If a tire puncture exceeds 1/4" (6mm) or is located in the shoulder or sidewall deflection areas, the tire must be replaced. Never resort to tubes in tubeless tires or sleeves or large thick patches, which can upset the balance and may result in a sudden failure at highway speeds and high operating temperatures.

**WARNING: Driving on an improperly repaired tire is dangerous, as the tire can suddenly fail, which can lead to an accident and serious personal injury or death.**

#### **PIRELLI PROHIBITS THE FOLLOWING FOR SAFETY REASONS:**

- 1) Repair of V, W, Y or Z Speed Rated tires.
- 2) The use of tire sealants in Pirelli Sensorized tires to repair, even temporarily, a puncture. The use of sealant can affect the sensor functionality.

#### **16. Storage**

Should you need to store tires they should be stored indoors in a cool, dry place. Tire storage areas should be cool (45° F ~ 75° F or 7°C ~ 25°C), dry, non-dusty, and moderately well ventilated. To protect your tires from damage related to heat, water, ozone and direct sunlight, it is suggested you place them in opaque, waterproof containers (e.g., plastic trash bags). It is vital that the tires do not come in contact with sources of heat and/or ozone i.e. radiators,

electric generators/motors, hot pipes, etc., and tires should never be allowed to stand or come into contact with water, grease, fuels, brake fluid or any other chemicals.

If tires are stored on a vehicle during an extended period of non-use, it is important to maintain proper tire pressure, and move the vehicle so that different positions on the tires are in contact with the ground over time rather than the same position consistently being in contact with the ground.

If sensorized tires are stored off the vehicle during seasonal changes, the fitted unit must be stored in a stack, inflated at a maximum pressure of 1.5 bar (21.75 psi) to preserve the sensor battery life.

**Warning: It is essential to inflate sensorized tires to placard pressure before returning tires to service.**

If you need to transport your tires, please follow the above guidelines.

**WARNING: Driving on an improperly stored tire is dangerous, as the tire can suddenly fail, which can lead to an accident and serious personal injury or death.**

## **17. Tubes in Tubeless Tires**

Under no circumstances are tubes to be used in Pirelli tires marked "Tubeless". This includes tires that have been repaired. If the tire's pressure retention ability has been affected, so as to necessitate a tube being installed, the tire must be replaced.

## **18. Tire Valves**

Whenever new tires are installed on your wheels, new tire valves of the correct type must be installed. It is important that TPMS functionality be confirmed at the time a new tire is installed. During your routine tire inspection, verify that all your valves have proper valve caps. Replace as necessary, since the valve cap is also a seal against pressure loss.

## **19. Tire Dismounting and Mounting**

Tire fitting should be left to professionals who have the equipment and training to perform the task properly and safely using U.S. Tire Manufacturers Association and The Tire and Rubber Association of Canada procedures or the vehicle manufacturer's recommendations. To maximize the performance of your tires, they must be installed following the tire sidewall markings with respect to direction of rotation (directional arrow) or the proper side facing outside (Outside/Inside). If there is no arrow or "Outer" or "Inner" designation inscribed on the sidewall, mount the tire with the full (12 or 13 digit) Department Of Transportation (DOT), tire identification information facing out. Your wheels should be in good, clean condition. Wheels should be inspected for distortion, dents, cracks, rust and foreign matter, and be replaced as necessary. NEVER EXCEED 40 PSI WHEN SEATING BEADS. Both beads and wheels must be clean, undamaged and well lubricated prior to bead seating. Sensorized tires require special care in mounting and demounting to avoid damage to or detachment of the sensor.

## **20. Tire/Wheel Alignment and Balancing**

Tire/Wheel alignment specifications are issued by your vehicle manufacturer and your vehicle must be kept within the vehicle manufacturer tolerances. You should have your alignment checked annually or whenever you notice any irregular wear or vibrations. Tire/Wheel alignment is important for safety, maximum performance and mileage from your tires.

Tire/Wheel assemblies should be balanced each time a tire is mounted to a wheel. For more information or service regarding Pirelli tires, please contact your nearest authorized Pirelli dealer. To locate an authorized Pirelli dealer in your area, refer to the Dealer Locator section on the Pirelli web site at [www.us.pirelli.com](http://www.us.pirelli.com).

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