



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

### What Is Warranted and Who Is Eligible for Warranty Coverage?

Pirelli Tire Inc. (Pirelli), 506-1111 Boul. Dr. Frederik-Philips, St-Laurent, QC H4M 2X6, 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 or distributor, 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 will expire when the tire reaches the end of its original usable tread life (tread worn to 2/32" (1.6 mm) remaining tread depth), or six (6) years from date of purchase (whichever comes first) unless and to the extent otherwise expressly stated herein. The "date of purchase" refers to the date on your sales invoice. If the date of purchase is not clear on the sales invoice, the date of manufacture will be used to determine eligibility.

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.

Tires purchased from certain authorized dealers and distributors may be subject to terms and conditions of purchase and warranty that differ from the terms of this Limited Warranty. You should ask your authorized dealer or distributor for further information. Unless otherwise not allowed in your jurisdiction, this Limited Warranty does not cover conditions submitted for warranty coverage under authorized dealer or distributor-specific warranty terms.

### 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" (1.6mm) 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. 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. The 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" (1.6mm) 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 Coverage for Select Replacement Tire Lines**

The Limited Warranty, offered by Pirelli, includes a 60-day trial period for select Pirelli Replacement Tires installed as a set of four (4) (front and rear) within 60 days of your original purchase date or the first 2/32" (1.6 mm) 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. The following Replacement Tire Lines qualify for this coverage:

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*

P Zero™ All Season *Plus* ELECT™  
P Zero™ All Season *Plus 3*  
P Zero™ All Season *Plus 3* ELECT™  
Scorpion™ Verde™ All Season *Plus*  
Scorpion™ Verde™ All Season *Plus II*  
Scorpion™ All Season *Plus 3*  
Scorpion™ Zero™ All Season *Plus*  
Scorpion™ Zero™ All Season *Plus 3*  
Scorpion™ Zero™ All Season *Plus 3* ELECT™  
Scorpion™ All Terrain *Plus*  
Scorpion™ All Terrain *Plus* ELECT™  
Cinturato™ WeatherActive™  
Scorpion™ WeatherActive™  
Scorpion™ XTM All-Terrain

### **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 kilometers 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 kilometers 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 vehicle’s odometer kilometers at time of installation.
- 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. (8,000 to 11,000 kilometers).
- 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 indicators (2/32” (1.6mm) of tread depth) at which time they are considered to be 100% worn out. There cannot be more than a 2/32” (1.6mm) 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.
- Electric vehicles can affect tire wear due to weight and torque dynamics. Pirelli ELECT™ tires are designed to address specific mileage demands for Electric Vehicles.
  - To optimize the mileage coverage on your Electric Vehicle, please use ELECT™ tires.
  - The Mileage Coverage listed below for non-ELECT™ tires will be honored up to 80% when such tires are used on Electric Vehicles.

### Treadwear Coverage

Tire Line	Mileage	Kilometers
Cinturato P1™ <i>Plus</i>	35,000	
P4™ Four Seasons T	85,000	135,000
P4™ Four Seasons H	65,000	105,000
P4™ Four Seasons T <i>Plus</i>	90,000	145,000
P4™ Four Seasons H <i>Plus</i>	70,000	110,000
P4™ Four Seasons V <i>Plus</i>	65,000	105,000
P4™ Persist All Season <i>Plus</i>	85,000	135,000
P6™ Four Seasons <i>Plus</i>	45,000	75,000
Cinturato P7™ All Season <i>Plus</i>	70,000	110,000
Cinturato P7™ All Season <i>Plus</i> II	70,000	110,000
P7™ All Season <i>Plus</i> 3	70,000	110,000
P ZERO NERO™ All Season	45,000	75,000
P ZERO™ All Season <i>Plus</i>	50,000	80,000
P ZERO™ All Season <i>Plus</i> ELECT™	50,000	80,000
P ZERO™ All Season <i>Plus</i> 3	50,000	80,000
P ZERO™ All Season <i>Plus</i> 3 ELECT™	50,000	80,000
SCORPION™ ATR	50,000	80,000
SCORPION™ STR	65,000	105,000
SCORPION Verde™ All Season <i>Plus</i>	65,000	105,000
SCORPION Verde™ All Season <i>Plus</i> II	65,000	105,000
SCORPION™ All Season <i>Plus</i> 3	70,000	110,000
SCORPION ZERO™ All Season <i>Plus</i>	50,000	80,000
SCORPION ZERO™ All Season <i>Plus</i> 3	50,000	80,000
SCORPION ZERO™ All Season <i>Plus</i> 3 ELECT™	50,000	80,000
SCORPION™ All Terrain <i>Plus</i>	50,000	80,000
SCORPION™ All Terrain <i>Plus</i> ELECT™	50,000	80,000
Cinturato™ WeatherActive™	60,000	100,000

Scorpion™ WeatherActive™	60,000	100,000
Scorpion™ XTM All-Terrain	55,000	90,000

### **Road Hazard Coverage for Run Flat and RunForward™ tires**

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

If a Pirelli Run Flat or RunForward™ tire becomes unserviceable due to road hazard damage within the first year from the date of purchase, or within the first 2/32" (1.6 mm) 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" (1.6mm) of usable 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" (1.6mm) 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 Catalogue).
- 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 Run Flat and RunForward™ 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(s) 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 and replacement to an authorized Pirelli dealer. Some authorized Pirelli dealers, including Costco and Canadian Tire will only process warranty claims on tires purchased through their companies. 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) or [www.pirelli.com/tires/en-ca/car/homepage](http://www.pirelli.com/tires/en-ca/car/homepage) for Canada.

### **REMEDY LIMITATIONS**

**THIS CLAUSE IS NOT APPLICABLE TO CONSUMERS RESIDING IN QUÉBEC: 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**

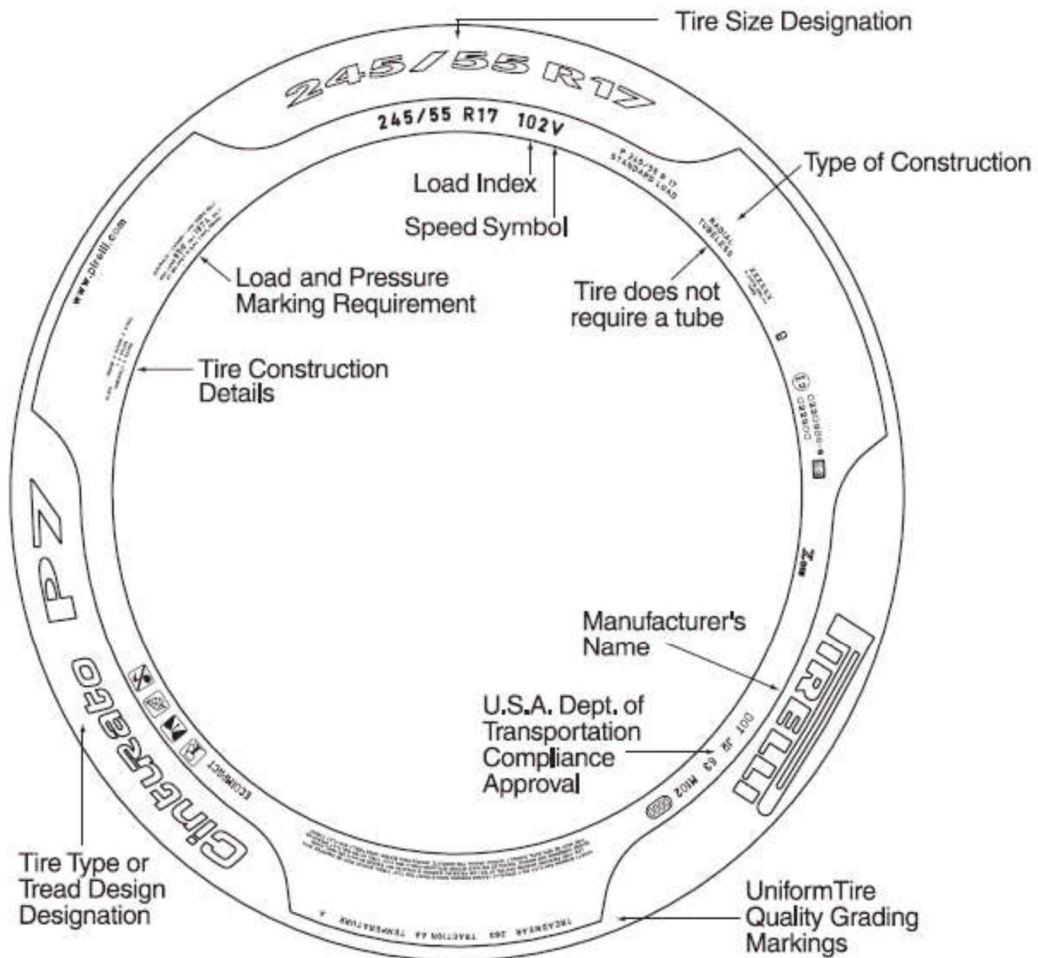
Please request that your authorized Pirelli dealer register your Replacement Tires or go to [www.us.pirelli.com](http://www.us.pirelli.com) or [www.pirelli.com/tires/en-ca/car/homepage](http://www.pirelli.com/tires/en-ca/car/homepage) for Canada to register your Pirelli tires online. In case of a Pirelli 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.

All trademarks are owned by Pirelli Tyre S.p.A., Pirelli & C. S.p.A or Pirelli Tire LLC.  
If further assistance or information is needed regarding Pirelli tires, please contact:

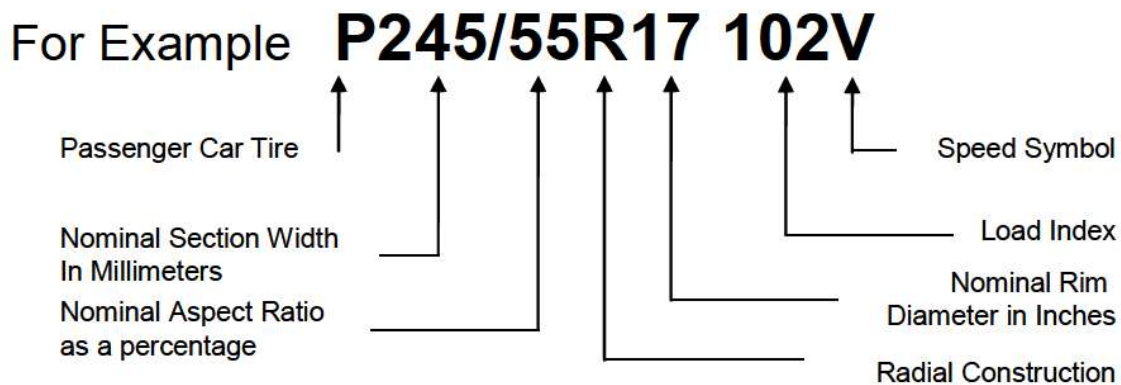
Pirelli Tire LLC  
Consumer Affairs Group  
100 Pirelli Drive  
Rome, GA 30161  
Monday through Friday  
8:00 AM to 6:00 PM Eastern Standard Time  
[consumer.affairs@pirelli.com](mailto:consumer.affairs@pirelli.com)

# 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	105	112	118	124	130	149	168	186	>186
KM/H	160	170	180	190	200	210	240	270	300	>300

\*For tires having a maximum speed capability above 149 mph (240km/h), a “ZR” may appear in the size designation; above 186 mph (300 km/h), 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. 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, heat build-up and internal structural damage. Under inflation can also cause 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.

### **3. 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.

### **4. DOT Street Legal Competition Tires**

P Zero Trofeo, P Zero Trofeo (R/RS), 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.

### **5. 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.

## 6. Run Flat and RunForward™ Tires

Always refer to the vehicle owner’s manual with respect to specific safety and operating information relating to the vehicle. Damaged Run Flat or RunForward™ tires or Run Flat or RunForward™ tires that have experienced a loss of pressure should immediately be replaced with another Run Flat or RunForward™ 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.

## 7. 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.

The “Seal Inside” technology is identified with the below marking on the tire sidewall:



## 8. 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.

The Pirelli Noise Canceling System technology is identified with the below marking on the tire sidewall:



## 9. 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 that 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 disposed properly. Please always refer to the local disposal requirements.

The Pirelli Sensorized Tires are identified with the below marking on the tire sidewall:



## 10. 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.

The Pirelli Elect Tires are identified with the below marking on the tire sidewall:



## 11. 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.

## **12. Tire Inspection**

At 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" (1.6 mm) 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 service life of a tire is a function of use, service, storage conditions, and how, together, these factors affect tire components. For each individual tire, many factors such as temperature/weather, storage conditions, and service/use conditions (e.g., load, speed, inflation pressure, maintenance, and road hazard damage, etc.) to which a tire is subjected throughout its life may affect service life. Since the factors that may impact service life vary widely, accurately predicting the service life of any specific tire based on chronological age alone is not possible. There is no scientific or technical data that establishes or identifies a specific tire 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. Ensure that your tires, including the spare tire, continue to be regularly inspected and properly maintained, with increased frequency after five (5) years of use to determine if they can continue in service. Be observant of any prescribed legal minimum tread depth and other rules of tire use in the jurisdiction where you use your tires and do not employ the tires in breach of such rules. Regardless of the tire's condition or remaining tread depth, it is recommended that tires, including spare tires, be removed from service ten (10) years from the date of manufacture and replaced with new tires. Date of manufacture is determined based on DOT code on tire sidewall and can be confirmed by a tire service professional. Regardless of tire age or length of service, replace tires that have reached their minimum wear out depth or are otherwise unserviceable. Some vehicle manufacturers have specific recommendations regarding tire replacement that may differ from those made by Pirelli. In those instances, you should follow the recommendations made by the vehicle manufacturer.

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 a day, a week, or even months later, which can lead to an accident and serious personal injury or death.**

### **13. 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.

### **14. Tire Repair**

Punctures located in the tread area of Pirelli tires may be repaired if the diameter does not exceed 1/4" (6mm), and the tire has not been damaged further by the puncturing object or by running underinflated. Repairs are limited to the tread only – do not make repairs where the

injury damage extends into the shoulder/belt edge area OR where the injury extends at an angle into the shoulder area. If there is any question that the injury extends into the shoulder/belt edge area, then the tire must be taken out of service. The below graphic available on the USTMA “Puncture Repair Procedures for Passenger and Light Truck Tires” wall chart provides the reference for the puncture repair area:



Tire punctures consistent with these guidelines can be repaired by a qualified tire professional following the US Tire Manufacturers Association or The Tire and Rubber Association of Canada’s recommended repair procedures. 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 – a plug by itself or a patch by itself is an unacceptable repair. Repairs cannot overlap. A rubber stem, or plug, must be applied to fill the puncture injury and a patch must be applied to seal the inner liner. Repairs must be performed by removing the tire from the rim/wheel assembly to perform a complete inspection to assess all damage that may be present. Plug-type repairs made on a tire that remains mounted on a wheel are improper and can result in an accident. 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. An improperly repaired tire may cause further damage to the tire by either leaking air or allowing air, moisture, and contaminants to enter the structure of the tire. An improperly repaired tire can fail suddenly, such as by tread/belt separation, at a later date and result in an accident.

NEVER repair a tire with less than 2/32nds of an inch of tread remaining. At this tread depth, the tire is worn out and must be replaced.

NEVER repair a tire that has an existing, improper repair, the tire must be scrapped.

NEVER perform an outside-in tire repair or on-the-wheel repair.

NEVER perform a repair to a tire with a puncture larger than 1.4 inch (6mm).

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

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

The use of tire sealants in Pirelli Sensorized tires to repair, even temporarily, a puncture. The use of sealant can affect the sensor functionality.

## 15. 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.**

## 16. 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.

## 17. 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.

## 18. Tire Dismounting and Mounting

Tire fitting should only be performed by professionals who have the equipment and training to execute 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” or “Outside” or “Inside” 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. Use a safety cage (restraining device) and extension hose that has a clip-on chuck when seating a tire on a rim. Certain runflat tires, high performance, and other specific technology tires may require more than 40 psi to seat the beads. In these cases, please contact Pirelli Consumer Affairs for further guidelines and procedures prior to inflating above the 40 psi limit. Otherwise, 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.

### **19. 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’s tolerances. You should have your alignment checked annually or whenever you notice any irregular tire 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) or [www.pirelli.com/tires/en-ca/car/homepage](http://www.pirelli.com/tires/en-ca/car/homepage) for Canada.

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