

Product Service Bulletin

Important Information To Better Serve Your Customers

This PSB Is Applicable To: U.S. & Canada

June 2, 2015

PSB #2015-10

TO: Goodyear Company Owned Stores, Independent Goodyear Dealers and Associate Dealers in the U.S. and Canada

SUBJECT: Guidelines for Tire Size Mixing, Tire Construction Mixing, Tire Tread Design Mixing, New Tire Installation, and Tire Rotation of Auto and Light Truck Tires (replaces PSB 2006-18)

To maintain the designed handling and traction capabilities of a vehicle it is critical to select and install tires of the correct size, construction, and tread design on the proper wheel position. The same attention to correct size, construction, tread design and wheel position must be considered when rotating and servicing tires.

Follow the vehicle manufacturer's recommendations for tire selection, application, and service. The vehicle manufacturer recommendations can usually be found in the vehicle owner's manual, on the tire information placard or vehicle certification label. Never choose a replacement tire of a smaller tire size with less load carrying capacity than the OE tire size at the specified vehicle placard pressure. In the absence of vehicle manufacturer recommendations follow the guidelines below to help assure the tire fitment provides optimum vehicle handling and traction.

New Tire Application Guidelines

- When replacing tires on a vehicle, it is recommended and preferred that all four tires be replaced at the same time for continued optimal vehicle performance.
- When radials are used with bias or bias belted tires on the same vehicle, the radials must always be placed on the rear axle.
- Never mix radial and bias ply tires on the same axle.
- A single new tire should be paired on the rear axle with the tire having the most tread of the other three.

When replacing only two tires of the same size and construction as those on the vehicle, fit the tires with the deepest tread depth on the rear axle. Generally, newer tires with deeper tread will provide better grip and evacuate water more effectively, which is important to help prevent hydroplaning. Placing greater traction on the rear axle is necessary to help prevent a possible oversteer situation and a loss of vehicle stability.

Rotation Guidelines

- Refer to our Tire Rotation Recommendations for Auto & Light Truck Tires Product Service Bulletin on Tire HQ.
- When rotating a full size spare, place the spare on the right rear wheel position.
- Never place a temporary spare into a rotation pattern.

Winter Tire Guidelines

- It is recommended that winter tires be applied to all four wheel positions.
- If winter tires are installed on the front axle of any vehicle, they must also be installed on the rear axle.
- If studded tires are installed, they must be applied to all four wheel positions.
- Never apply non-radial snow tires on the rear axle if radial tires are on the front axle unless the vehicle is equipped with duals on the rear axle.
- Always apply four winter tires including studded winter tires on police pursuit vehicles.

4WD and AWD Guidelines

Always check and follow the recommendation in the vehicle owner's manual, even small variances in outside diameter may cause drive-train damage or mechanical malfunction. If no instructions for tire mixing appear in the vehicle owner's manual follow these guidelines:

- Do not mix sizes.
- Do not mix radial and bias-ply constructions.
- Do not mix tread patterns such as all-season and all-terrain.

Guideline for Speed Rated Tires

- If tires with different speed-ratings are installed on a vehicle, they should be installed with like pairs on the same axle. The speed-capability will become that of the lowest speed rated tires.
- For winter tires installed on Law Enforcement or Emergency Vehicles refer to our Winter Tire Applications for Law Enforcement and Emergency Vehicles Product Service Bulletin on Tire HQ

Please cover this information with your sales and service staff to assure they have the knowledge to sell and service tires so that your customer's vehicles provide the good handling and traction needed for a safe driving experience.