Advanced Technical Information

Bulletin #: 1506 Part ID: 4407

Center-locking Wheel Nut Tightening

Vehicles Affected

Model	Model Year	Model Type	VIN Range	Vehicle Specific Equipment
911 Series	2004-on	918/997/991	n/a	Center-locking Wheels

Revision History

Revision	Release Date	Changes
1 - Replaces bulletin dated 11-20-15	11-6-18	Application as of 2004-on

Service Information (Instructions to technician)

The center-locking wheel design was originally developed for racetrack use. This allowed the wheels and tires to be quickly replaced during a race. Today however, the center-locking wheel and hub designs for street vehicles differs significantly from that of pure race cars. Therefore, the following guidelines and precautions must always be adhered to while removing or installing the wheels of a street vehicle with the center-locking design.

- The wheel must always be unladen or off the ground while the center locking nut is tightened. This allows the wheel to self-center properly on the hub.
- The parking brake must never be used to hold the rear wheels during tightening. The parking brake mechanism is not designed to withstand the high forces applied while the central wheel nut is being tightened and may be damaged. The damage may not be immediately apparent. This is especially true with the motor driven electronic parking brake actuators.
- Impact tools are never to be used to loosen, remove or tighten the center locking nut. The nut and hub may be damaged and the damage may not be immediately apparent.
- Only calibrated, high quality standard torque wrenches with sufficient capacity and leverage are to be used to tighten the center-locking nut. The use of torque multipliers is no longer sanctioned for use on any Porsche vehicle.
- The final specified torque must be achieved while the wrench is in smooth continuous motion; not while tugging and pulling.
- The appropriate lubricant must be applied as specified on the contact surfaces of the central nut and wheel.
- If the center locking nut, hub or wheel is new. The nut must be tightened to the final specified torque value, loosened and then tightened again three (3) times.
- The wheel and the brake rotor hub must be clean and free of all debris.

Search Items (Tags, keywords, etc that can be used to search for this document)

Center-locking wheel, torque, tigthening, wheel lock nuts, tires



Advanced Technical Information

Bulletin #: 1506

Part ID: 4407

4

Important Notice: Technical Bulletins issued by Porsche Cars North America, Inc. are intended only for use by professional automotive technicians who have attended Porsche service training courses. They are written to inform those technicians of conditions that may occur on some Porsche vehicles, or to provide information that could assist in the proper servicing of a vehicle. Porsche special tools may be necessary in order to perform certain operations identified in these bulletins. Use of tools and procedures other than those Porsche recommends in these bulletins may be detrimental to the safe operation of your vehicle, and may endanger the people working on it. Properly trained Porsche technicians have the equipment, tools, safety instructions, and know-how to do the job properly and safely. Part humbers listed in these bulletins are for reference only. The work procedures updated electronically in the Porsche technicians have the safet generation of the safet generation of followed.



November 6, 2018 Page 2 of 2