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Hyundais gas-powered SUV lineup offers models in five sizes, and its the OG Santa Fe that serves as the penultimate. This generation debuted for the 2019 model year and has received continuous updates throughout its life, including the addition of this top-tier Calligraphy trim. Here's what's new for 2023. Key Features Fully-stocked Calligraphy trim Seating for 5 Turbocharged power Specifications Model: Santa Fe Engine: 2.5L Smartstream I4 ICE Power Output: 281 HP Horsepower: 191 HP @6100 RPM Torque: 181 lb.-ft. @ 4000 RPM Range: 451 miles Transmission: 8-speed automatic Driveline: Front-Wheel Drive Starting Price (MSRP): $28,750 MSRP (As Tested): $45,545 Towing Capacity: 2,000 lbs. Fuel Economy: 25/28/26 MPG Make: Array Segment: Array Pros Heavily ladened with features Attractively priced Winning fuel economy Cons Powertrain lacks refinement Looking and feeling its age Lacking wireless phone projection The Santa Fe Remains A Compact SUV Segment Heavy-Hitter Drive Time Productions LLC The five-passenger, midsize SUV segment comprises some heavy hitters: Ford Edge, Chevy Blazer, Honda Passport, Toyota 4Runner, and the sales leader the Jeep Grand Cherokee. The Santa Fe used to offer seating for seven until the flagship Palisade came along at which point Hyundai briefly renamed it the Santa Fe XL before axing it all together and then calling the smaller, two-row Santa Fe Sport the Santa Fe. Confused? All you need to know is that Hyundai sold over 117,000 Santa Fes last year making it a whos who in the class. Beyond this standard Santa Fe with its two four-cylinder engine offerings are hybrid and plug-in hybrid models further expanding appeal. Front-wheel or all-wheel drive is also offered among the non-electrified Santa Fes. Pricing starts at just under $30,000 for a two-wheel drive 2023 Santa Fe SE and tops $47,000 for a Plug-in Hybrid Limited. Drive Time Productions LLC But the model Im focusing on this week is the Santa Fe Calligraphy, an upscale edition Hyundai added in 2021. That was also the same year the Santa Fes most powerful engine, the 2.0-liter turbo, was upgraded to a 2.5-liter turbo, now producing a healthy 281 horsepower and 311 pound-feet of torque. Running on regular gas, expect 24 MPG in mixed driving with a 451-mile driving range. The two highest trims on the 2023 Santa Fe, the Limited and Calligraphy, run exclusively with this engine mated to an eight-speed dual-clutch automatic transmission. An additional $1,700 adds all-wheel drive leading to an as-tested MSRP of $45,545 with the only option being a set of carpeted floor mats. The Calligraphy distinguishes itself with these model-exclusive features: Dark chrome grille Twenty-inch wheels Premium Nappa leather with quilted door panels Eco-suede headliner Head-up display Perforated leather-wrapped steering wheel Configurable ambient lighting The only significant upgrade across all trim levels for the 2023 Santa Fe is over-the-air map updates. Drive Time Productions LLC Though the Calligraphys content level is exceptionally high, particularly at this price point, there are some less-than-glorious moments. This powertrain, which is also utilized in the Sonata and Santa Cruz, can feel overeager and its fuel-saving Stop & Go feature is one of the most jarring on the market which is why Ive disabled it something I almost never do. For instance, the 2.5T packs a punch but also lacks the refinement of the Palisades naturally-aspirated V-6. The dual-clutch transmission can be programmed to deliver shifting performance commensurate with the drive mode: Comfort, Smart, Sport, and Snow. And inside that center-console mounted Drive Mode Select knob is the 4WD Lock mode for maximum traction below 37 MPH. Under normal driving conditions, the torque split is biased 100% to the front wheels but can shift to a 50:50 distribution on demand. The Continental CrossContact LX Sport tires are designed to perform on the highway however and not so much in the snow. Its 8.2 inches of ground clearance isnt all that impressive either so even though Hyundai bills the Santa Fe as The adventurous family SUV Id be careful of pushing it too far out of its comfort zone. Otherwise, the Santa Fes ride quality, steering feel, and cabin quietness are all middling neither exceptional nor lacking. Drive Time Productions LLC If you want wireless phone projection in order to use Apple CarPlay and Android Auto without a USB cable youd need to choose the base Santa Fe Se, with its smaller 8.0-inch Display Audio system. So, at Hyundai things are backward in that this vastly more sophisticated 10.25-inch touchscreen doesnt support a cable-free experience. Looking beyond that oddity, this infotainment system is top-notch with easy, free-flowing menus, dynamic voice recognition, built-in navigation, and cool features such as Sounds of Nature relaxation programs. Its also the conduit for Harman Kardons impressive 12-speaker surround sound system with Clari-Fi Music Restoration Technology which adroitly cleans up compressed music. And you know I love an off-screen button for quick access to the surround view monitor. The level of advanced safety technology is very high including the blind spot view monitors that appear on each side of the driver display when signaling. But the Santa Fes front cabin feels a little narrow and its switchgear-heavy central tunnel is a sign of aging. Drive Time Productions LLC Kids and adults alike will find plenty of traveling space in the rear replete with dual USB ports, window sunshades, and slide and recline seats. The hands-free tailgate doesnt require a kick, which I like - just get close enough to it, and it will alert you that its about to open. Once inside, there are two, large underfloor storage areas and switches on the sides that remotely drop the rear seats to create a truly flat load floor. Luggage room seems to be sized just right for a five-seater. Drive Time Productions LLC Where this Santa Fe earns its overachieving reputation is in the breadth of its high-end amenities. Beyond the expected goodies of a range-topper such as heated and ventilated front seats with drivers side memory and a wireless phone charger are gems such as Remote Smart Parking Assist that allows the vehicle to be driven into and out of tight spaces via controls on the key fob, Digital Key that can replace the fob with a smartphone, navigation-based smart cruise control, a panoramic sunroof, and heated rear seats. The beige interior reminds me a little of baby poop, so Id choose the other available color: black. Drive Time Productions LLC Whats next for Santa Fe? It looks like a complete redesign is in the offing for 2024 which would be perfect timing because this model doesnt resonate with the sharper, more modern styling of Hyundais latest models. That being said, if its a compact to midsize SUV youre after and priorities lie more with lots of luxury features and smart packaging rather than the drive itself, the Santa Fe even at the end of its current generation is still very worthy of consideration. Properly torquing the lug nuts on your 2019 Hyundai Santa Fe is crucial for ensuring the safety and performance of your vehicle. The lug nuts hold the wheels securely in place, and if they are not tightened to the correct torque specification, it can lead to a variety of problems, including wheel vibrations, uneven tire wear, and even the possibility of the wheel coming off while driving. Therefore, it is essential to follow the manufacturers recommended torque specifications when installing or tightening the lug nuts.Understanding Torque SpecificationsTorque is a measure of the force applied to rotate an object around an axis. In the case of lug nuts, torque is the amount of twisting force applied to tighten them onto the wheel hub. Lug nut torque specifications are typically provided in pound-feet (lb-ft) or Newton-meters (Nm). It is important to use a torque wrench to ensure accurate and consistent torque application. 2019 Hyundai Santa Fe Lug Nut Torque ChartTo help you properly torque the lug nuts on your 2019 Hyundai Santa Fe, here is a detailed chart with the recommended torque specifications: Wheel SizeLug Nut Torque (lb-ft)Lug Nut Torque (Nm)16-inch80-90108-12217-inch80-90108-12218-inch80-90108-12219-inch80-90108-122Steps to Properly Torque Lug NutsTo ensure you are torquing the lug nuts correctly on your 2019 Hyundai Santa Fe, follow these steps: Start by parking your vehicle on a level surface and engaging the parking brake.Using a lug wrench or a breaker bar, loosen each lug nut on the wheel you are working on, but do not remove them completely.Locate the torque specification for your specific wheel size in the chart provided above.Set your torque wrench to the recommended torque value.Begin tightening the lug nuts in a star pattern, alternating between opposite lug nuts. This helps ensure even pressure distribution.Continue tightening until you reach the specified torque value.Repeat the process for each wheel on your 2019 Hyundai Santa Fe.After torquing all the lug nuts, double-check the torque by going through the lug nuts again in the same star pattern.Final ThoughtsProperly torquing the lug nuts on your 2019 Hyundai Santa Fe is a simple yet important maintenance task that should not be overlooked. By following the recommended torque specifications and using a torque wrench, you can ensure the safety and longevity of your vehicles wheels. Remember to always consult your vehicles owners manual or contact a professional if you have any doubts or questions regarding lug nut torque or any other maintenance procedures. 27.03.2025 25.02.2024 01.07.2024 Repair Topics > Lug nut torque specs > Hyundai > Hyundai Lug Nut Torque SpecificationsACCENT ALL 13-INCH / GS/GL/L 1995 2018 80 ft-lbs AZERA 17-INCH / LIMITED 2006 2016 80 ft-lbs ELANTRA ALL ALL / P175/65R14 1992 2018 80 ft-lbs ENTOURAGE 16-INCH / GLS 2007 2008 80 ft-lbs EQUUS 19BASE / SEDAN 2011 2016 90 ft-lbs EXCEL ALL / P155/80R13 1986 1994 80 ft-lbs GENESIS ALL 18BASE / 4.6 2009 2016 80 ft-lbs IONIQ 16BASE / BASE 2016 2018 80 ft-lbs KONA FWD / AWD 2018 2019 95 ft-lbs SANTA FE ALL 2WD / ALL 2001 2018 80 ft-lbs SCOUPE 13-INCH / COUPE 1991 1995 80 ft-lbs SONATA 14-INCH / BSE/GL/GLS 1989 2018 80 ft-lbs TIBURON 14-INCH / BASE 1997 2008 80 ft-lbs TUCSON ALL 2WD / GLS/LX 2005 2018 80 ft-lbs VELOSTER 18OPT / S 2012 2017 80 ft-lbs VERACRUZ 18-INCH / ALL 2007 2012 80 ft-lbs XG300 ALL / SEDAN 2001 2001 80 ft-lbs XG350 ALL ALL / SEDAN 2002 2005 80 ft-lbs Posted on January 9, 2019 by Rick MuscoplatCategoriesTagsHyundai Lug Nut Torque Specifications 2019 Ricks Free Auto Repair Advice Share copy and redistribute the material in any medium or format for any purpose, even commercially. Adapt remix, transform, and build upon the material for any purpose, even commercially. The licensor cannot revoke these freedoms as long as you follow the license terms. Attribution You must give appropriate credit , provide a link to the license, and indicate if changes were made . You may do so in any reasonable manner, but not in any way that suggests the licensor endorses you or your use. ShareAlike If you remix, transform, or build upon the material, you must distribute your contributions under the same license as the original. No additional restrictions You may not apply legal terms or technological measures that legally restrict others from doing anything the license permits. You do not have to comply with the license for elements of the material in the public domain or where your use is permitted by an applicable exception or limitation . No warranties are given. The license may not give you all of the permissions necessary for your intended use. For example, other rights such as publicity, privacy, or moral rights may limit how you use the material. Hyundai Santa Fe, a household name when it comes to reliability and comfort, is more than just a carits an experience. But, like with all vehicles, maintenance and knowledge about specifics are key. One of the overlooked aspects often is the lug nut size and the torque specs, which can be essential for your safety on the road. Whether youre replacing a tire or simply need to check, this guide will help you find the right lug nut size for your Hyundai Santa Fe across various trims, engines, and generations.Hyundai Santa Fe Generations and Their Lug Nut SizesGeneration/YearTrim/EngineLug Nut Size2001-2006BaseM12 x 1.52007-20122.4LM12 x 1.52.0TM12 x 1.52013-2018Sport 2.0L TurboM12 x 1.5Sport 2.4LM12 x 1.52019-SE, SEL, Limited, HybridM12 x 1.5 This table is a general guide; always consult the manual or a specialist for exact specifications.2020 Hyundai Santa FeTrimLug Nut SizeSEM12 x 1.5SELM12 x 1.5LimitedM12 x 1.5CalligraphyM12 x 1.52021 Hyundai Santa FeTrimLug Nut SizeSEM12 x 1.5SELM12 x 1.5LimitedM12 x 1.5CalligraphyM12 x 1.52022 Hyundai Santa FeTrimLug Nut SizeSEM12 x 1.5SELM12 x 1.5LimitedM12 x 1.5CalligraphyM12 x 1.52023 Hyundai Santa FeTrimLug Nut SizeSEM12 x 1.5SELM12 x 1.5LimitedM12 x 1.5CalligraphyM12 x 1.52024 Hyundai Santa FeTrimLug Nut SizeSEM12 x 1.5SELM12 x 1.5LimitedM12 x 1.5CalligraphyM12 x 1.5Lug Nut Torque Specs: The Nitty-GrittyThe correct torque ensures that the lug nut is neither too tight nor too loose, both of which can be hazardous.Generation/YearTrim/EngineTorque Spec2001-2006Base80-90 ft-lbs2007-20122.4L85-95 ft-lbs2.0T85-95 ft-lbs2013-2018Sport 2.0L Turbo90-100 ft-lbsSport 2.4L90-100 ft-lbs2019-SE, SEL, Limited, Hybrid90-100 ft-lbsAlways use a torque wrench and tighten in a star pattern.Wheel Nut Torque Chart: Year-by-Year, Trim-by-Trim2019 Hyundai Santa Fe Wheel Nut Torque SpecificationsTrimWheel Nut TorqueSE85 ft-lbsSEL85 ft-lbsLimited90 ft-lbsUltimate90 ft-lbs2020 Hyundai Santa Fe Wheel Nut Torque SpecificationsTrimWheel Nut TorqueSE86 ft-lbsSEL86 ft-lbsLimited91 ft-lbsSEL Plus91 ft-lbs2021 Hyundai Santa Fe Wheel Nut Torque SpecificationsTrimWheel Nut TorqueSE87 ft-lbsSEL87 ft-lbsLimited92 ft-lbsCalligraphy92 ft-lbsSEL Plus93 ft-lbs2022 Hyundai Santa Fe Wheel Nut Torque SpecificationsTrimWheel Nut TorqueSE87 ft-lbsSEL87 ft-lbsLimited92 ft-lbsCalligraphy92 ft-lbsSEL Plus93 ft-lbs2023 Hyundai Santa Fe Wheel Nut Torque SpecificationsTrimWheel Nut TorqueSE87 ft-lbsSEL87 ft-lbsLimited92 ft-lbsCalligraphy92 ft-lbsSEL Plus93 ft-lbs2024 Hyundai Santa Fe Wheel Nut Torque SpecificationsTrimWheel Nut TorqueSE87 ft-lbsSEL87 ft-lbsLimited92 ft-lbsCalligraphy92 ft-lbsSEL Plus93 ft-lbsWhy Does Lug Nut Size and Torque Matter?Safety: Incorrect lug nut size or torque can result in the wheel coming off while driving.Vehicle Integrity: It ensures optimal performance and reduces undue stress on other components.Cost-Efficiency: Proper maintenance saves you repair costs in the long run.Tips for Lug Nut MaintenanceRegular Check: Inspect your lug nuts every time you rotate your tires.Use A Torque Wrench: Dont rely on impact wrenches alone; finish with a manual check.Know the Specs: Different trims/engines may have slight variations, so always be sure. In conclusion, your Hyundai Santa Fe deserves the best care. Knowing the right lug nut size and torque spec is a part of that care. Stay safe on the roads and ensure your Santa Fe performs at its peak!Understanding the Basics: Why Lug Nuts MatterYou might be wondering: among all the myriad components and systems in a vehicle, why the emphasis on lug nuts? Heres a bit of clarity:Central Role: Lug nuts hold the wheel to the car. Sounds simple, right? But its a crucial job. Imagine the ramifications if even one lug nut is out of place.Vibrations & Strains: As your Hyundai Santa Fe travels, the wheels undergo a lot of vibration and strain. Correctly torqued lug nuts ensure that these dont lead to loosening or, worse, a wheel detachment.Braking Safety: When you apply brakes, especially in emergency situations, theres a lot of force at play. Properly tightened lug nuts ensure that this force doesnt dislodge the wheels.The Evolution of Hyundai Santa Fe Lug NutsHyundai, being an evolving brand, ensures that even the tiniest details like lug nuts adapt over time for enhanced performance, safety, and compatibility.Material Upgrades: Over the years, the materials used for lug nuts have been optimized for strength, corrosion resistance, and weight.Design Changes: Hyundai has shifted from simple designs to ones that are theft-resistant or have enhanced grip.Standardization: As seen in the table above, there has been a move towards standardized sizes, especially in recent models, simplifying maintenance and replacements.FAQsCan I replace the lug nuts with aftermarket ones?While you can, ensure they match the specifications. Using the wrong size or type can be risky.How often should I check the torque?Its a good practice to check after every 10,000 miles or if youve recently had tire/wheel-related service.I lost a lug nut; can I drive?Its risky. Replace it as soon as possible and avoid high-speed driving. Here is a list of lug nut torque specs and sizes for a Hyundai Santa Fe. Reference the model year in the table to see what lug nut torque and size is applicable for your car. Hyundai Santa FeYearLug Nut TorqueLug Nut Size202479 - 94 lbf.ft202379 - 94 lbf.ft202279 - 94 lbf.ft202179 - 94 lbf.ft202079 - 94 lbf.ft201979 - 94 lbf.ft201879 - 94 lbf.ft201765 - 79 lbf.ft201665 - 79 lbf.ft201565 - 79 lbf.ft201465 - 79 lbf.ft201365 - 79 lbf.ft201265 - 79 lbf.ft201165 - 79 lbf.ft201065 - 80 lbf.ft200965 - 80 lbf.ft200865 - 80 lbf.ft200765 - 80 lbf.ft200665 - 80 lbf.ft200565 - 80 lbf.ft200465 - 80 lbf.ft200365 - 80 lbf.ft200265 - 80 lbf.ft200165 - 80 lbf.ft Our Wheel Size app is now available in App Store and Play Store! Wheel Fitment for any car, your search history, latest news about professional tire tests all in one app for: iOS and Android Automotive configurationThis article needs additional citations for verification. Please help improve this article by adding citations to reliable sources. Unsourced material may be challenged and removed.Find sources:"Front-engine, four-wheel-drive layout"news newspapers books scholar JSTOR (October 2021) (Learn how and when to remove this message)F4 layoutIn automotive design, an F4, or front-engine, four-wheel drive (4WD) layout places the internal combustion engine at the front of the vehicle and drives all four roadwheels. This layout is typically chosen for better control on many surfaces, and is an important part of rally racing, as well as off-road driving. In terms of racing purposes, whether it be on-road or off-road, can be described as follows,A team that pursues the Weak LS4WD architecture will minimize the development cost of the front-wheel drive system at the expense of having a larger rear powertrain. The Weak architecture produces a vehicle with a large powersplit between the front and rear powertrains, while the Strong architecture recommends a vehicle with more similar power and torque requirements for the front and rear.[1]Most four-wheel-drive layouts are front-engined and are derivatives of earlier front-engine, rear-wheel drive, or front-engine, front-wheel drive designs. The first origins of it were introduced in the 1820s from steam coach builders Burstall & Hill. This was then re-created by many other manufactures, such as "British engineer Joseph Diplock patented a four-wheel-drive system for a traction engine, while in Vienna, Austria, Ferdinand Porsche developed an electric vehicle that also had all wheels driven, with an electric motor at each corner, as early as 1899". This layout is designed for off-road vehicles to have the most traction in strenuous situations without losing too much cargo space at the same time.[2] However, the 1903 Spyker 60 HP was the first car built with an F4 drive layout.[3]This layout is also the drive train of choice for off-road pickup trucks and SUVs. It allows these vehicles to get the most traction without sacrificing cargo or passenger room. Part-time four-wheel drive vehicles frequently have a transfer case and no center differential, meaning, in many cases, the 4WD mode does not allow any difference in front and rear axle speeds. For normal road driving, these vehicles are shifted into 2WD mode, to prevent damage to the transfer case. Full-time four-wheel drive systems, on the other hand, cannot do without some kind of center differential.[4] The purpose of four-wheel drive is to maintain optimal traction when manually selected. A vehicle has four-wheel drive when the front and rear driveshafts can be locked together to move at the same speed and send the same amount of torque to all four wheels.[5]Several four-wheel-drive vehicles have been built without a drive shaft between the front combustion engine and rear wheels; instead the rear wheels receive power and torque from a rear electric motor. This setup has been mainly used by hybrid electric vehicles, although some conventional vehicles had also adopted the system.[6]1943 Willys JeepA Troller T4 jeep20082009 Jeep LibertyCenter transfer case sending power from the transmission to the rear axle (right) and front axle (left)The HMMWV is a 4WD/AWD that powers all wheels evenly (continuously) via a manually lockable center differential, with Torsen differentials for both front and rear.First-generation Dodge Power WagonLand Rover Series INissan Skyline GT-R V Spec II (BNR34)Mitsubishi Lancer Evolution X MRSubaru WRX STIFerrari FF; with a front mid-engine, four-wheel-drive layoutAudi QuattroToyota Celica GT-Four (ST205)^ Owen, Elliot Douglas (June 2018). The Benefits of Four-Wheel Drive for a High-Performance FSAE Electric Racecar (PDF) (Thesis). Massachusetts Institute of Technology. OCLC1080309406. Retrieved 2 October 2021.^ "The Origins of Four-Wheel Drive". Hemmings Motor News. December 2019. Retrieved 5 May 2021.^ Malcolm McKay (March 2008). "Four-wheel drive The Knowledge". Octane magazine. Archived from the original on 3 May 2009. Retrieved 24 May 2009.^ "How 4WD, FWD, RWD and AWD all Work?". Car Decent. 16 February 2023. Retrieved 1 April 2023.^ Markovich, Tony (17 July 2020). "AWD vs. 4WD: Know the Differences". The Drive. Retrieved 5 May 2021.^ "Which Hybrids Have All-Wheel Drive?". AutoTrader.ca. 26 August 2020. Retrieved 23 April 2022.Retrieved from " Hyundai Vehicle Models Santa Fe 2019-present Complete Hyundai Vehicle Models Santa Fe 2019-present torque specifications guide. Includes factory-specified torque values, torque sequences, and technical specifications for all components including body, brakes, drivetrain, electrical, emissions sensors, fuel, exhaust, HVAC, and suspension. Essential information for proper assembly and maintenance. Torque specifications for 2.0L Engine Torque specifications for 2.0L-TURBO Engine Torque specifications for 2.2L-DIESEL Engine Torque specifications for 2.4L Engine Torque specifications for A6f Transmission Torque specifications for A8f Transmission Torque specifications for Body Torque specifications for Brakes Torque specifications for Drivetrain Torque specifications for Electrical Torque specifications for Emissions_sensors Torque specifications for Exhaust Torque specifications for Fuel Torque specifications for Hvac Torque specifications for Suspension Common issues, diagnostic steps, and prevention guidelines Bolt stretching, stripped threads, uneven torque patterns Rattling or vibration noisesVisible movement in componentsUneven panel gaps Clean threads and mounting surfacesReplace damaged fastenersApply proper torque in sequenceUse thread locker if specified Unable to achieve proper torqueFastener spins freelyVisible thread damage Use thread repair kit if appropriateInstall thread insert (HeliCoil)Replace component if threaded hole is damagedUpgrade to higher grade fastener if recommended Cracked or deformed partsBroken fastenersCompressed gaskets or seals Replace damaged componentsUse new fastenersFollow proper torque sequenceVerify correct torque specifications Visual inspection, torque verification, thread assessment Inspect the affected area for any visible signs of damage or wear Check for cracks or deformationLook for signs of excessive wearVerify proper fastener installation Verify the torque applied to the fasteners Check the torque wrench calibrationVerify the torque specificationCompare the applied torque to the specification Assess the condition of the threads Check for signs of thread damageVerify the thread type and sizeCheck for proper thread engagement Best practices, maintenance tips, tool care Always follow the recommended torque specificationUse the correct type and size of fastenersVerify the torque wrench calibration regularly Regularly inspect the affected area for signs of wear or damageReplace damaged or worn-out components promptlyKeep the work area clean and organized Regularly clean and maintain the torque wrenchStore the torque wrench in a dry and secure locationVerify the torque wrench calibration before each use Find answers to common questions about torque specifications Temperature, humidity, and seasonal effects on torque specifications Includes: High Heat, Cold Weather, Thermal Cycling Temperature can significantly impact torque values and fastener behavior Increased material brittlenessHigher torque required due to thread contractionReduced thread lubricant effectiveness Allow components to warm to room temperature when possibleConsider using winter-grade thread lubricantsCheck torque values more frequently during winter months Thermal expansion of componentsDecreased friction in threadsAccelerated lubricant breakdown Check torque when components are at normal operating temperatureUse temperature-resistant thread lockersConsider re-torquing after heat cycles Covers: Rust Prevention, Salt Exposure, Moisture Control Moisture and corrosion can affect fastener integrity and torque values Accelerated corrosion formationReduced friction coefficientPotential thread seizing Use corrosion-resistant fastenersApply appropriate anti-seize compoundsMaintain proper protective coatings Rapid corrosion developmentThread damageSeized fasteners Regular underbody washingUse of sacrificial anodes where appropriateApplication of protective coatings Spring, Summer, Fall, and Winter maintenance schedules Inspect for winter damageClean and protect exposed fastenersCheck torque on critical components Monitor heat-affected componentsCheck expansion-related looseningInspect cooling system mounts Prepare for winter conditionsApply corrosion protectionVerify all fasteners are properly torqued More frequent inspection of critical fastenersCheck for salt damageMonitor suspension component torque Tools, service procedures, and technical bulletins Technical procedure overview specific to Hyundai santa-fe suspension components Tighten the lower strut bolt to 108 Nm (80 ft-lb).Tighten the lower ball joint nut to 60 Nm (44 ft-lb).Tighten the stabilizer bar link nuts to 69 Nm (51 ft-lb).Tighten the rear trailing arm bolts to 121 Nm (89 ft-lb).Tighten the rear shock absorber bolts to 108 Nm (80 ft-lb). View full procedure Technical procedure overview specific to Hyundai santa-fe engine components Tighten the cylinder head bolts to 108 Nm (80 ft-lb).Tighten the camshaft bolts to 60 Nm (44 ft-lb).Tighten the intake manifold bolts to 108 Nm (80 ft-lb).Tighten the exhaust manifold bolts to 69 Nm (51 ft-lb).Tighten the oil pan bolts to 27 Nm (20 ft-lb). View full procedure Technical procedure overview specific to Hyundai santa-fe brake components Tighten the caliper bolts to 121 Nm (89 ft-lb).Tighten the rotor bolts to 108 Nm (80 ft-lb).Tighten the brake pad retaining bolts to 27 Nm (20 ft-lb).Tighten the brake line fittings to 20 Nm (15 ft-lb). View full procedure Technical Service Bulletins This bulletin provides revised torque specifications for the rear subframe bolts on 2019-Present Hyundai santa-fe vehicles. The original torque specification of 121 Nm (89 ft-lb) has been revised to 140 Nm (103 ft-lb). Resolution: Re-torque the rear subframe bolts to 140 Nm (103 ft-lb) as soon as possible. Important information about using this content Always refer to your vehicle's service manual and take appropriate safety precautions when performing any maintenance or repairs. The information provided on this website is for general informational purposes only. While we strive to maintain accuracy in our content, all specifications, procedures, and technical information should be verified against your vehicle's official service manual or with the manufacturer directly. The content on this website is provided "as is" without any representations or warranties, express or implied. We make no representations or warranties regarding the accuracy, completeness, or availability of the information. We shall not be liable for any direct, indirect, special, or consequential damages arising from the use of information on this website. All specifications, including torque values, fluid capacities, and maintenance procedures, should be verified against your vehicle's factory service manual. Vehicle specifications and procedures may vary by model year, trim level, and region. Always follow the manufacturer's recommended procedures and safety precautions. Working on vehicles can be dangerous. Always take proper safety precautions and use appropriate safety equipment. If you're unsure about any procedure, consult a qualified professional mechanic. All content, including text, images, and specifications, is protected by copyright and other intellectual property laws. Any unauthorized use or reproduction is prohibited. Expert automotive knowledge and experience Automotive Technical Specialist ASE Master Certified Technician with over a decade of hands-on experience in automotive repair and diagnostics. Specialized in advanced diagnostic techniques using modern scan tools and oscilloscopes. Expert in both traditional mechanical repairs and modern vehicle systems. Created over 500 detailed repair guides and technical documents. Conducted technical training sessions and contributed to repair databases. Certifications & Research ASE Master Technician Certification Advanced Diagnostic Specialist Hybrid/Electric Vehicle Systems Performance Tuning Expert Actively researches emerging technologies and contributes to automotive forums. The REFERENCE torque spec for the lug nuts on a 2000-2024 Hyundai Santa Fe will be 107 127 Nm (just for REFERENCE, please inquire with a tire expert). Lug nuts are designed to fasten your wheels with a clamping force. When correctly torqued, they will make a strong mechanical connection to the threads on the vehicle hub. If you want to improve your vehicles performance, you can replace the OEM Santa Fe lug nuts with higher-grade ones.Higher-grade lug nuts provide higher strength, better wear resistance, and higher temperature resistance capacity. This means they can stay in excellent condition even in hard driving. Conical Hyundai Santa Fe lug nuts are most commonly found on aftermarket wheels. However, ball wheel nuts are also widely used. So, if you replace the stock wheels, new Hyundai Santa Fe lug nuts will be necessary.The lug pattern on a 2000-2025 Hyundai Santa Fe is 5114.3mm, so there are 20 pcs lug nuts to fasten the wheels. Sometimes, aftermarket lug nuts can add a personalized style to the car. Usually, they come in a wide variety of colors and styles. You can invest in a new Santa Fe lug nut kit for entirely aesthetic purposes. If youve purchased a set of aftermarket rims, youll possibly need to replace the stock lug nuts to match the new wheel insert holes.The socket size of a Hyundai Santa Fe lug nut is 13/16 (22mm). Most wheel lug nuts are hex-shaped. Whether you use a lug wrench, torque wrench, impact socket, or regular socket, youll need the correct size to remove or tighten the wheel nuts. Once the head of the lug nut is damaged it will be very difficult to remove it.Whats better, BONOSS provides dual hex wheel sockets. This double-hex socket has dual 19mm (3/4 in.) and 21mm (13/16 in.) hex socket sizes. These dual-hex sockets provide two different hex adapters, allowing you to get into the right tight spots. In addition, a BONOSS forged 50BV30 Santa Fe lug nuts kit includes 4 pcs Heptagon wheel locks. It is a good idea to use new BONOSS forged 50BV30 Hyundai lug nuts to decorate and protect your finest wheels.If you find rusty wheel nuts, the best solution is to replace them with new high-quality Santa Fe lug nuts. Most Santa Fe lug nuts are made of metal, which means that they should last a lifetime. Due to wear and tear over time, a lug nut may have to be changed out. The Santa Fe lug nuts are among the most important parts that secure the wheels. Getting the lug nuts replaced before it is damaged ensures safety.For those who intend to improve their performance and appearance with a small budget, BONOSS forged 50BV30 steel Hyundai Santa Fe lug nuts are a perfect option. The ISO Grade 12 wheel nuts are considered to be the top-quality nuts in the auto industry. Such BONOSS forged 50BV30 steel Hyundai Santa Fe lug nuts have a proof load of 105,700N. Arguably, a stronger retention power on the wheel is necessary to properly secure the wheels and tires in place. If you use aftermarket wheel nuts, make sure they are strong enough.Unlike most wheel nuts people find in the market, BONOSS forged 50BV30 Hyundai Santa Fe lug nuts are exceptionally strong, making them very durable. Particularly, BONOSS forged 50BV30 steel Hyundai Santa Fe lug nuts give neutral salt spray resistances exceeding 500 hours. The surfaces are exquisite Mirror-black which maximally beautifies your wheel while protecting the lug nuts from rusting. This means these BONOSS forged 50BV30 Hyundai Santa Fe lug nuts are good to resist various types of damage such as scratches, gouges, wear, and other flaws.Check BONOSS Forged Hyundai Wheel Lug Nuts Here! CarExpert Choice winner: Best Affordable Large SUVBehind the bold styling of the Hyundai Santa Fe is a practical, well-tuned crossover SUV featuring a spacious interior and a long list of standard equipment.2025 Hyundai Santa Fe price and specsHybrid versions of the Hyundai Santa Fe now cost $4000 more than petrol-powered versions, thanks to a $1500 price hike.2025 Hyundai Santa Fe Hybrid gets price hike, petrol variants unchangedThe Hyundai Santa Fe is now pricier than before, but the increase affects only variants with the turbocharged hybrid powertrain.Don't want a Tesla Model Y? Try these insteadIf you're for whatever reason turned off by the idea of buying a Tesla Model Y, here are some electric (and hybrid) alternatives to consider.Top five large SUVs of 2024Our expert review team has been busy driving dozens of new large SUVs this year. Here are the models that topped our ratings.Jeep Avenger slapped with three-star safety rating, four stars for new MG ZSSix out of eight vehicles in ANCAP's latest round of safety assessment received five-star ratings, but the Jeep Avenger and MG ZS missed out.2025 Hyundai Santa Fe gets more rugged with XRT upgradesHyundai has introduced a pair of dealer-fitted XRT packages claimed to make its Santa Fe more capable off-road.What seven-seat SUV under $60k should you buy?Have a growing family? The CarExpert team shares what they think the best seven-seat SUV under $60,000 currently is in Australia.Hyundai Santa Fe recalledHyundai's new Santa Fe has received its first recall, due to a wiring harness issue that could see its rear airbags deploy inadvertently.The large SUVs with the greatest towing capacity in AustraliaTowing is a staple of the Australian lifestyle, and large SUVs are the go-to hauling tool for many weekend warriors.Hyundai in no rush to take on Mitsubishi with PHEVsHyundai Australia won't be hopping back on the PHEV bandwagon anytime soon, despite the Tucson and Santa Fe offering plug-in power overseas.The large SUVs with the most boot space in AustraliaLarge SUVs are the go-to vehicle for car buyers wanting to load up the boot and hit the road. So which has the most luggage space?Hyundai EOFY deals bring savings across cars, SUVs and vansHyundai is offering a range of EOFY deals across much of its range, including discounted drive-away pricing and free accessories.Hyundai Santa Fe: Petrol power coming for those who don't want a hybridHyundai's new Santa Fe won't be hybrid-only for long, with a new petrol engine coming to replace the old V6 and offering all-wheel drive.The large SUVs with the best fuel economyThe fuel economy of large SUVs tends to suffer because of their size, but some are more efficient than you'd expect.2024 Hyundai Santa Fe price and specsThe boxy new Hyundai Santa Fe is in showrooms this month, with a hybrid-only lineup opening at $55,500 before on-road costs. Model Trim Years Torque ACCENT 13-INCH / GS/GL/L 1995 - 2018 80 ft.-lbs. AZERA 17-INCH / LIMITED 2006 - 2016 80 ft.-lbs. ELANTRA P175/65R14 1992 - 2018 80 ft.-lbs. ENTOURAGE 16-INCH / GLS 2007 - 2008 80 ft.-lbs. EQUUS 19"BASE / SEDAN 2011 - 2016 90 ft.-lbs. EXCEL P155/80R13 1986 - 1994 80 ft.-lbs. GENESIS 18"BASE / 4.6 2009 - 2016 80 ft.-lbs. IONIQ 16"BASE / BASE 2016 - 2018 80 ft.-lbs. KONA FWD / AWD 2018 - 2019 95 ft.-lbs. SANTA FE 2WD 2001 - 2018 80 ft.-lbs. SCOUPE 13-INCH / COUPE 1991 - 1995 80 ft.-lbs. SONATA 14-INCH / BSE/GL/GLS 1989 - 2018 80 ft.-lbs. TIBURON 14-INCH / BASE 1997 - 2008 80 ft.-lbs. TUCSON ALL 2WD / GLS/LX 2005 - 2018 80 ft.-lbs. VELOSTER 18"OPT / S 2012 - 2017 80 ft.-lbs. VERACRUZ 18-INCH 2007 - 2012 80 ft.-lbs. XG300 SEDAN 2001 - 2001 80 ft.-lbs. XG350 SEDAN 2002 - 2005 80 ft.-lbs. Hyundai Lug Nuts: Don't Get Stuck on the Side of the Road Keeping your Hyundai's wheels properly tightened is of the upmost importance for safe driving. Over-torqued or under-torqued lug nuts can lead to a variety of problems, including: Finding Your Hyundai's Recommended Torque The recommended torque specification for your Hyundai's lug nuts can be found in two places: Common Hyundai Lug Nut Torque Specs While torque specs can vary depending on the model, here's a general guideline for Hyundai lug nuts: Most Hyundai Cars: 80 lb-ft (110 Nm) Other Important Safety Tips If you're unsure about your Hyundai's specific lug nut torque or don't feel comfortable tightening them yourself, consult a trusted mechanic. Enjoy sharper detail, more accurate color, lifelike lighting, believable backgrounds, and more with our new model update. Your generated images will be more polished thanever.See What's NewExplore how consumers want to see climate stories told today, and what that means for yourvisuals.Download Our Latest VisualGPS ReportData-backed trends. Generative AI demos. Answers to your usage rights questions. 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Our original video podcast covers it allnow ondemand.Watch Now Tightening Torque Table of Standard Parts BOLT (Nominal diameter) NUT (Nominal diameter) BOLT/NUT Normal screw Torque Nm (kg.m, lb-ft) Nominal diameter. (mm) Pitch [mm (in.)] 4T 8T 10T M5 0.8 (0.031) 2.0 - 3.0 (0.2 - 0.3, 1.4 - 2.2) 4.9 - 6.9 (0.5 - 0.7, 3.6 - 5.1) 7.8 - 10.8 (0.8 - 1.1, 5.8 - 8.0) M6 1 (0.039) 2.9 - 4.9 (0.3 - 0.5, 2.2 - 3.6) 8.8 - 12.7 (0.9 - 1.3, 6.5 - 9.4) 13.7 - 18.6 (1.4 - 1.9, 10