

Front Spindle – Fitment & Technical Notes

Applicable Product: Proforged 2" Drop Spindles

Part Number: 221-10011

Vehicle Coverage:

- 1982–2003 GM S10/S15/Sonoma Pickup 2WD
- 1983–1997 GM Blazer/Jimmy 2WD
- 1978–1988 GM G-Body Cars

Technical Reference Only

- This document does not provide step-by-step installation instructions.
- All component removal and installation must follow applicable factory service manual procedures, except where specific deviations or fitment notes are identified in this document.
- Unless otherwise noted, Proforged components are designed to be installed with OEM service procedures.

Purpose & Scope

This document:

- Provides technical reference information for Proforged front spindle components.
- Highlights known fitment considerations, OEM deviations, and specification references.
- Is intended to supplement factory service information, not replace it.

Before You Begin

- This spindle is designed to lower the front ride height approximately 2 inches compared to factory spindles.
- Wheel and tire fitment requirements:
 - ➔ 15" minimum and 18" maximum wheel diameter is recommended with a maximum backspace of 4.5".
 - ➔ Other wheel sizes may fit, but require careful measurements and verification.
- Wheel and tire clearance must be considered before disassembly. Some combinations will require additional clearance checks or minor modifications.
- 1978 GM G Body cars will require outer wheel bearings and brake rotor assemblies for 1979 G Body or later.
- Factory brake dust shields will require modification to provide adequate clearance.
- For vehicles equipped with anti-lock braking systems (ABS), it is important to document the routing of the ABS wires and the placement of any brackets before disconnecting them.

QUICK TORQUE REFERENCE

COMPONENT	TORQUE VALUE	INSTALL NOTES
Upper Ball Joint Nut	61 lb-ft	Torque, then advance nut to nearest slot and secure with a cotter pin
Lower Ball Joint Nut	79 lb-ft	Torque, then advance nut to nearest slot and secure with a cotter pin
Tie Rod End Nut	39 lb-ft	Torque, then advance nut to nearest slot and secure with a cotter pin
Brake Caliper Guide Bolts	85 lb-ft	Use OEM hardware
ABS Line Bracket Fastener	18 lb-ft	Attaches to upper control arm
Brake Dust Shield Fasteners	12 lb-ft	Uses OEM hardware
Tie Rod Adjusting Sleeve Clamp Bolts	16 lb-ft	Temporary toe adjustment only
Wheel Lug Nuts	100 lb-ft	Final torque performed on the ground

Key Technical Notes

ABS Line Routing, if applicable:

- The ABS line bracket mounts to the upper control arm.
- Reuse the factory hardware.
- Verify the clearance through full steering lock and suspension travel.
- Avoid ABS wire twist, stretch, or preload.

Brake Dust Shield Clearance

- The factory brake dust shields require modification to provide adequate clearance to the lower control arm.
- Insufficient parts clearance will result in contact during suspension compression.
- During the dust shield installation, it is recommended to test-fit the dust shield on the spindle, then mark the point of interference to the lower control arm.
 - ➔ At this mark, make an indentation with a ball peen hammer or other means to create a concave clearance area around the lower control arm.
 - ➔ Test-fit and verify for adequate clearance during final assembly. Continue to modify as needed.

Wheel & Tire Fitment

- Wheel and tire fitment varies based on the wheel's diameter, width, offset, and backspacing.
- Not all wheel and tire combinations can be tested or validated.
- Verify the clearance between the wheel, spindle, suspension components, and body before final assembly.
- Rotate the wheel through its full steering lock and suspension travel to confirm clearance.
- Minor grinding of the lower control arm can be done to accommodate your selected wheels.

Specifications & Reference Data

This product:

- Is designed to achieve a lowered front ride height relative to OEM spindles.
- Retains the factory brake components.
- Uses the factory ball joint tapers and tie rod attachment points.

Important Notes & Disclaimers

- The installation of suspension and steering components requires basic mechanical knowledge of automobiles.
- An alignment is required after the drop spindle is installed.
- Periodically examine all fasteners and verify torque values after installation.
- Vehicle condition and prior modifications can affect parts fitment and final installation results.

PROFORGED MILLION-MILE LIMITED WARRANTY

Warranty Coverage: Proforged warrants its steering and chassis components to the original purchaser to be free from defects in material and workmanship for 1,000,000 miles, provided the product is registered at [proforged.com/warranty-registration](https://www.proforged.com/warranty-registration) within 90 days of purchase.

Exclusions: This warranty will not apply if the product has been installed on a vehicle used primarily for racing, competition, or off-road purposes, subjected to misuse, neglect, abuse, accident, improper installation, altered, modified, or repaired with non-genuine Proforged components, damaged by unrelated vehicle issues or external causes beyond normal road use, or affected only by cosmetic blemishes or normal wear not impacting function.

Remedy: If a registered product fails due to a defect in material or workmanship under normal use, Proforged will replace it with the same or an equivalent product. Coverage applies to product replacement only. Refunds, labor charges, or other associated costs are not included.

Limitation of Liability: Proforged shall determine whether a product is defective or qualifies under this warranty. Liability is limited to replacement (or refund in rare cases). Proforged shall not be liable for indirect, incidental, consequential, special, exemplary, or punitive damages, loss of use, inconvenience, commercial loss, or loss of time. In no event will liability exceed the purchase price of the defective product. All warranty obligations, terms, and conditions are subject to amendment, change, or discontinuation at Proforged's discretion at any time without notice.

State Laws & Other Rights: Some states (or jurisdictions) do not allow exclusion or limitation of incidental or consequential damages or implied warranties, so those exclusions or limitations may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary by state.

