

## FRONT SPINDLE – FITMENT & TECHNICAL NOTES

### Applicable Product:

Proforged 2" Drop Spindles PN: 221-10013

Proforged Stock Height Spindles PN: 221-10014

### Vehicle Coverage:

- 1964–1972 GM A-Body
- 1967–1969 GM F-Body
- 1968–1974 GM X-Body

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### 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.

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### 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.

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### Before You Begin

- Proforged PN 221-10013 is designed to lower the front ride height approximately 2 inches compared to factory spindles.
- Proforged PN 221-10014 retains the factory ride height.

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### Wheel Fitment

- Drop spindles are designed for use with 15" and larger wheels.
- Due to variances in wheel design, caliper and spindle clearance must be verified before installation.
- Wheel and tire clearance must be considered before disassembly. Some combinations will require additional clearance checks or minor modifications.
- Examine the brake hoses, steering components, suspension, and wheels for adequate clearance through the entire range of steering and suspension movement.

## KEY TECHNICAL NOTES

### Steering Arm Compatibility

- Factory steering arms are reused.
- Steering arm mounting requires 1/2" diameter fasteners.
- Some factory steering arms utilize 7/16" diameter mounting holes.
- Factory steering arms with 7/16" mounting holes must be enlarged to 1/2" diameter prior to installation.
- If needed, use a 1/2" drill bit to enlarge the steering arm mounting holes and use 1/2" mounting hardware (not included).
- Make sure the steering arm sits flush against the spindle mounting surface before final torque.

### Brake Compatibility

- Compatible with factory-style disc brake systems.
- Compatible with aftermarket brake systems designed for OEM disc brake spindle applications.
- Make sure there is sufficient caliper-to-wheel clearance before final assembly.

### Wheel & Tire Fitment

- Wheel and tire fitment varies based on the wheel's diameter, width, offset, backspacing, brake system configuration, and the vehicle's final ride height.
- Not all wheel and tire combinations can be tested or validated.
- Verify the clearance between the wheel, spindle, suspension components, brake components, and body before final assembly.
- Rotate the wheel through its full steering lock and suspension travel to confirm clearance.

## QUICK TORQUE REFERENCE

| COMPONENT                   | TORQUE VALUE                               | INSTALL NOTES                                                         |
|-----------------------------|--------------------------------------------|-----------------------------------------------------------------------|
| Upper Ball Joint Nut        | 50 lb-ft                                   | Torque, then advance nut to nearest slot and secure with a cotter pin |
| Lower Ball Joint Nut        | 65 lb-ft                                   | Torque, then advance nut to nearest slot and secure with a cotter pin |
| Tie Rod End Nut             | 35 lb-ft                                   | Torque, then advance nut to nearest slot and secure with a cotter pin |
| Steering Arm Mounting Bolts | 85 lb-ft                                   | Reuse or source 1/2" diameter OEM hardware                            |
| Brake Caliper Fasteners     | 120 lb-ft                                  | Use OEM hardware                                                      |
| Wheel Bearing Spindle Nut   | See OEM Service Manual                     | Follow OEM wheel bearing adjustment and preload procedures            |
| Wheel Lug Nuts              | Refer to wheel manufacturer specifications | Final torque performed on the ground                                  |

## 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://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.

