

# ASSEMBLY INSTRUCTIONS

FOR

## 1963-1970 CHEVROLET C10 TRUCK\*

\*For additional vehicle compatibility, visit [www.wilwood.com](http://www.wilwood.com)

### WILWOOD FRONT 2.50" DROP PROSPINDLE KIT

BASE PART NUMBER

**831-14201**

**DISC BRAKES SHOULD ONLY BE INSTALLED BY SOMEONE EXPERIENCED AND COMPETENT IN THE INSTALLATION AND MAINTENANCE OF DISC BRAKES**  
**READ ALL WARNINGS**

**WARNING**

IT IS THE RESPONSIBILITY OF THE PERSON INSTALLING ANY BRAKE COMPONENT OR KIT TO DETERMINE THE SUITABILITY OF THE COMPONENT OR KIT FOR THAT PARTICULAR APPLICATION. IF YOU ARE NOT SURE HOW TO SAFELY USE THIS BRAKE COMPONENT OR KIT, YOU SHOULD NOT INSTALL OR USE IT. DO NOT ASSUME ANYTHING. IMPROPERLY INSTALLED OR MAINTAINED BRAKES ARE DANGEROUS. IF YOU ARE NOT SURE, GET HELP OR RETURN THE PRODUCT. YOU MAY OBTAIN ADDITIONAL INFORMATION AND TECHNICAL SUPPORT BY CALLING WILWOOD AT (805) 388-1188, OR VISIT OUR WEB SITE AT [WWW.WILWOOD.COM](http://WWW.WILWOOD.COM). USE OF WILWOOD TECHNICAL SUPPORT DOES NOT GUARANTEE PROPER INSTALLATION. **YOU**, OR THE PERSON WHO DOES THE INSTALLATION MUST KNOW HOW TO PROPERLY USE THIS PRODUCT. IT IS NOT POSSIBLE OVER THE PHONE TO UNDERSTAND OR FORESEE ALL THE ISSUES THAT MIGHT ARISE IN YOUR INSTALLATION.

RACING EQUIPMENT AND BRAKES MUST BE MAINTAINED AND SHOULD BE CHECKED REGULARLY FOR FATIGUE, DAMAGE, AND WEAR.



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**WARNING**

**DO NOT OPERATE ANY VEHICLE ON UNTESTED BRAKES!**  
**SEE MINIMUM TEST PROCEDURE WITHIN**

ALWAYS UTILIZE SAFETY RESTRAINT SYSTEMS AND ALL OTHER AVAILABLE SAFETY EQUIPMENT WHILE OPERATING THE VEHICLE

**IMPORTANT • READ THE DISCLAIMER OF WARRANTY INCLUDED IN THE KIT**

NOTE: Some cleaners may stain or remove the finish on brake system components. Test the cleaner on a hidden portion of the component before general use.

## Important Notice - Read This First

Before any tear-down or disassembly begins, review the following information:

- The spindle in this kit requires later model 1973-1987 C10 upper and lower ball joints, not included.
- Due to OEM production differences and other variations from vehicle to vehicle, the fastener hardware and other components in this kit may not be suitable for a specific application or vehicle.
- It is the responsibility of the purchaser and installer of this kit to verify suitability / fitment of all components and ensure all fasteners and hardware achieve complete and proper engagement. Improper or inadequate engagement can lead to component failure.

## Photographic Tip

**Important** and highly recommended: Take photos of brake system before disassembly and during the disassembly process. In the event, trouble-shooting photos can be life savers. Many vehicles have undocumented variations, photos will make it much simpler for Wilwood to assist you if you have a problem.

## Exploded Assembly Diagram

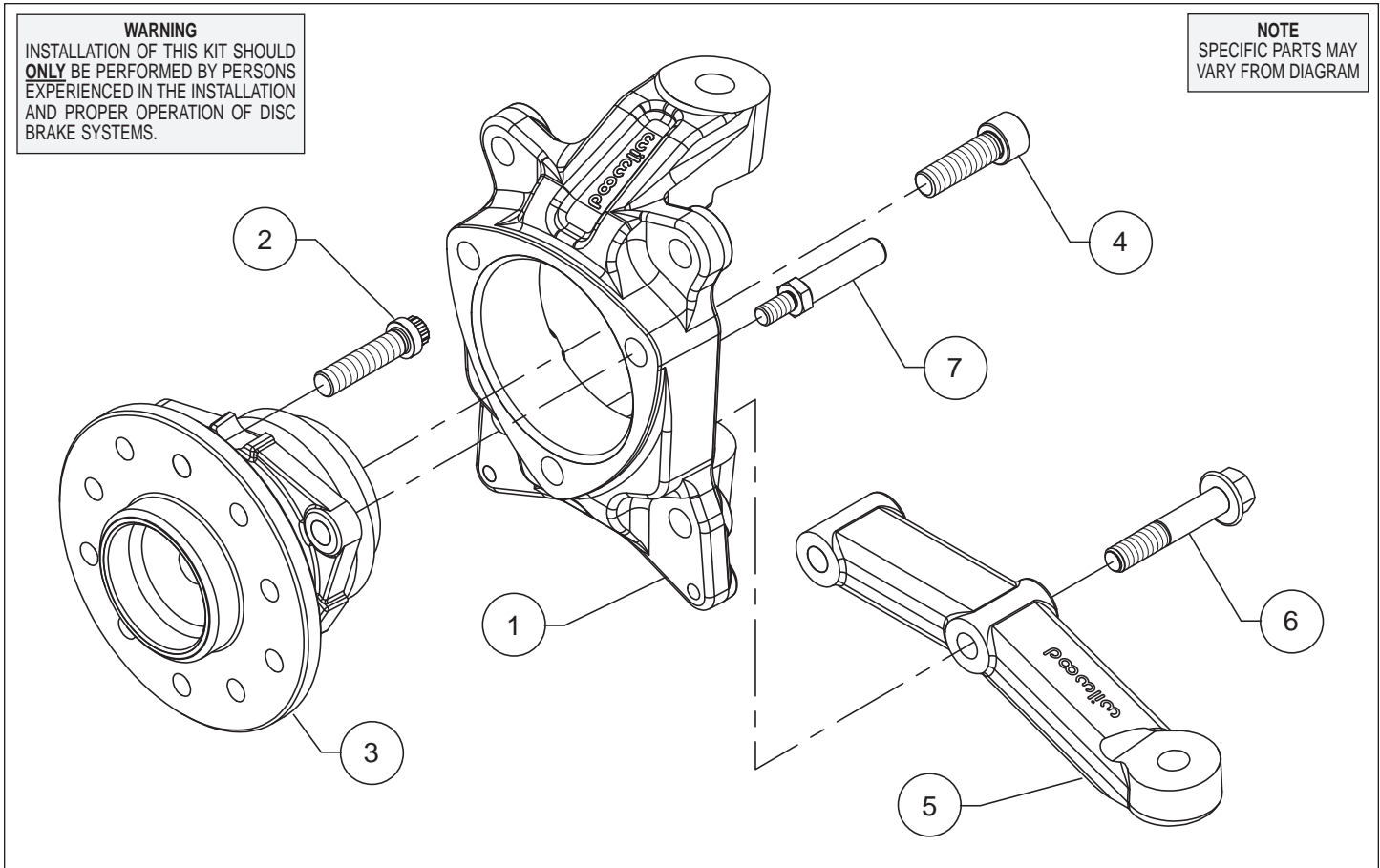


Figure 1. Typical Installation Configuration

## Parts List

<u>ITEM NO.</u>	<u>PART NO.</u>	<u>DESCRIPTION</u>	<u>QTY</u>
1	810-14122	Spindle, 2.50 Drop	2
2	230-6959	Bolt, 1/2-20 x 2.00 Long, 12 Point	10
3	270-15104	Hub Assembly	2
4	230-14197	Bolt, M14-1.5 x 45mm Long, Socket Head	6
5	819-14123/24	Steering Arm, Right/Left	2
6	230-14196	Bolt, 1/2-13 x 2.75 Long, Hex Head	4
7	230-14167	Stud, Steering Stop, 3/8-16 x 3.00 Long, Hex	2

### NOTES:

Part Number 230-14198 Bolt Kit, steering arm to spindle, includes part numbers 230-14167 and 230-14196

Part Number 230-14199 Bolt Kit, hub to spindle, includes part number 230-14197

Part Number 230-14200 Bolt Kit, wheel studs, includes part number 230-6959

## General Information and Disassembly Instructions

- Installation of this kit should **ONLY** be performed by persons experienced in the installation and proper operation of disc brake systems. Before assembling this Wilwood ProSpindle kit, double check the following to ensure a trouble free installation.
- Inspect the contents of this kit against the parts list to ensure that all components and hardware are included.
- Make sure this is the correct kit to fit the exact make and model year of your vehicle. This kit is designed for direct bolt-on installation to 1963-1970 Chevrolet C10 Trucks.
- **NOTE:** The spindle in this kit requires later model 1973-1987 C10 upper and lower ball joints, not included.
- Verify the new hub stud pattern (5 x 4.75 or 5 x 5.00) matches the lug pattern of the vehicles wheels.

### Disassembly

- Disassemble the original equipment front brakes:  
Raise the front wheels off the ground and support the front suspension according to the vehicle manufacturer's instructions.  
Remove the front wheels and completely disassembly the stock brake system down to the bare spindles, then remove the spindles.

### Assembly Instructions (numbers in parenthesis refer to the parts list and Figure 1 on the preceding pages):

- Apply red *Loctite*<sup>®</sup> 271 to the wheel stud (2) threads and install into the hub (3), Figure 1, and Photo 1. Torque to 77 ft-lb.  
**NOTE:** There are two five lug patterns in the hub (5 x 4.75 and 5 x 5.00). Ensure the correct hub stud pattern is being used to fit the wheel application.



Photo 1



Photo 2

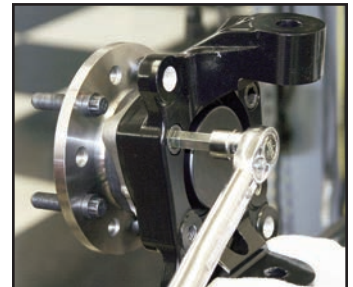


Photo 3

- Install the hub assembly into the spindle (1), Photo 2. Secure using bolts (4), Photo 3. Torque bolts to 100 ft-lbs.

## Assembly Instructions

- Attach the steering arm (5) to the back side of the spindle (1) using bolts (6), Figure 1 and Photo 4. Torque bolts to 90 ft-lbs.
- Install the Wilwood ProSpindle assembly into place between the upper and lower ball joints, Photo 5. **NOTE:** *The spindle in this kit requires later model 1973-1987 C10 upper and lower ball joints, not included.* Torque ball joints nuts to Original Equipment Manufacturer (OEM) specifications. Install new cotter pin, not supplied.
- Install the steering stop bolt (7), Figure 1 and Photo 6. Torque to 25 ft-lbs.
- Attach tie rod end to the new steering arm (5), Photo 7. Torque the tie rod end nut to OEM specifications. Install new cotter pin, not supplied.
- Install the applicable Wilwood brake kit that was purchased separately per the instructions included with that kit.
- After brake kit installation, have a qualified technician perform a front end alignment on the vehicle.

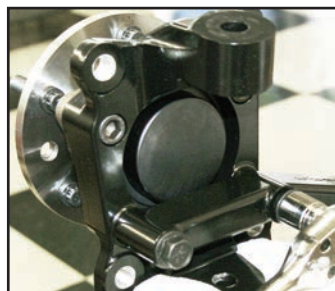


Photo 4



Photo 5



Photo 6



Photo 7

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## Associated Components

<u>PART NO.</u>	<u>DESCRIPTION</u>
260-8555	Wilwood 1.00" Bore Aluminum Tandem Master Cylinder
260-8556	Wilwood 1.12" Bore Aluminum Tandem Master Cylinder
260-13706	Wilwood Residual Pressure Valve (2 lb for disc brakes)
260-13707	Wilwood Residual Pressure Valve (10 lb for drum brakes)
260-8419	Wilwood Proportioning Valve
260-11179	Wilwood Combination Proportioning Valve with Brake Light Switch
290-0632	Wilwood Racing Brake Fluid (Hi-Temp° 570) (12 oz)
290-6209	Wilwood Racing Brake Fluid (EXP 600 Plus) (16.9 oz)
290-11084	Wilwood "FIVE" DOT 5 Silicone Brake Fluid (12 oz) • NOT Recommended for Racing
220-7056	Stainless Steel Braided Flexline Kit, Universal, 14 Inch, Domestic, 3/8-24 IF
220-7699	Stainless Steel Braided Flexline Kit, Universal, 16 Inch, Domestic, 3/8-24 IF
220-8307	Stainless Steel Braided Flexline Kit, Universal, 18 Inch, Domestic, 3/8-24 IF
220-8338	Stainless Steel Braided Flexline Kit, Universal, 14 Inch, Metric 10mm x 1.0
220-6856	Stainless Steel Braided Flexline Kit, Universal, 18 Inch, Metric 10mm x 1.0