

# WILWOOD BRAKE INSTALLATION

## X-TREME HUMMER PERFORMANCE INSTRUCTIONS

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

### 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. 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.

### 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

**This brake kit is designed to work with 20" or larger wheels.  
Lines will not fit vehicles with ABS.**

1. Raise and support vehicle
2. Remove wheels
3. Remove OE Brake calipers, caliper bracket, and rotors, 2 hard lines from brake "T" to front calipers, 3 hard lines, brake "T" from rear calipers and axle flanges from differential.
4. Drill axle flanges with 7/16 drill bit.
5. Reinstall flanges with axle spacers.
6. Drain portal boxes and remove service covers.
7. Replace Wheel Studs with 9/16 x 2 1/4" [4A] studs provided. Install new studs with service cover removed.
8. Ensure that bolt holes are free of debris. Threads should be cleaned with a 5/16-18 tap. Ensure the depth of the hole is at least 0.525" inches.
9. Install portal box adaptors [7A] with an anaerobic sealer using 5/16 x 18 x 3/4" socket head cap screws [7B], **Loctite and torque to 30 ft.lbs. (Loctite 271 or equivalent)**

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### Steps (cont.) - See reference images on next page

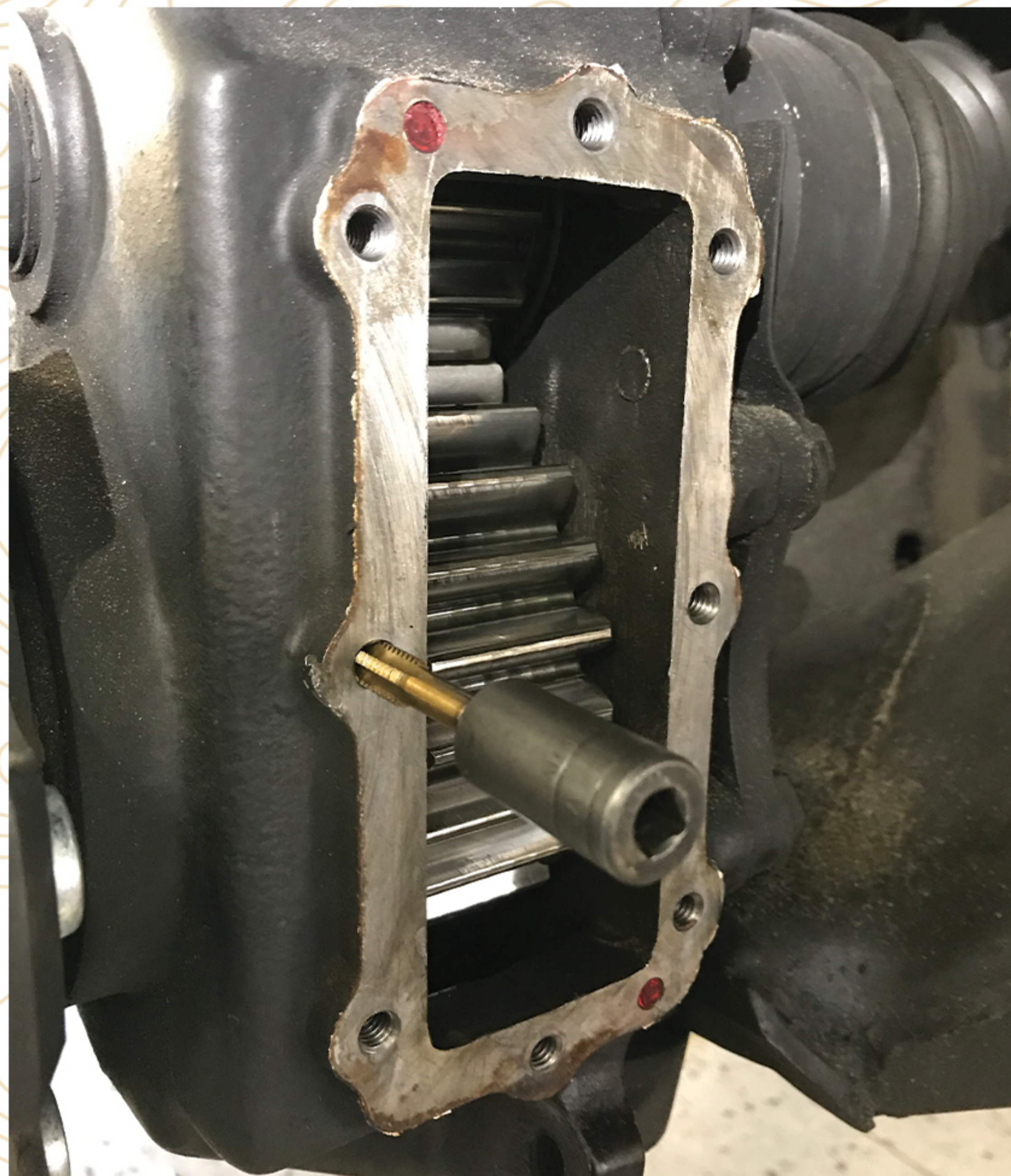
10. Assemble the rotor [8A] and rotor hat [8B] using 5/16x18x1" socket head cap screws [8C] with top lock nuts [8D], **Loctite and torque to 25 ft.lbs.**
11. Temporarily install caliper bracket [9A] and caliper [9B] to check and shim [11A], [9D] as necessary (be sure to antiseize caliper stud fine threads) Select appropriate shims for both the Caliper bracket and Caliper. Caliper bracket offset holes should face outwards.
- \*\* Take Note and be sure to use the same shims for final assembly. The goal is to center the rotor in the caliper and also set the radial height of the brake pad on the rotor. (Typically 2 shims between caliper bracket and portal bracket and 1 shim under the caliper is perfect)
12. With the caliper and bracket shimmed, properly install the caliper bracket using 5/8x11x2" hex head cap screw [9C] and appropriate shims [9D] selected above. **Loctite and torque to 120ft.lbs.**
13. Install 7/16 studs [10A] in the caliper bracket with Loctite. Lightly spread anti-sieze on brake pad guides.
14. Install the caliper bracket by antiseizing stud, install caliper to bracket follow with 7/16 washer(11A2), 7/16 shim washer [11A] and 7/16x20-12 point lock nut [11B] and torque to 47 ft.lbs. Install brake pads. Refill portal boxes.
15. Retain brake "T" for rear brakes and install in place of the union just forward on left side of vehicle.
16. Offer up new hard lines reusing the retaining strap from the front right line on crossmember near steering box.
17. Add "P" clamp on base of fan shroud to same line.
18. Install "P" clamps and angle tab(15A&B) for rear brake lines.
19. Using lines, locate and mark holes to mount brake hose/line tabs.
20. Drill and tap frame 5/16x18 install with 5/16x18x1/2 button head cap screw [17A] **Loctite**
21. Install 1/8"NPT #4AN 90 degree fittings in calipers using thread tape. Pointing AN up.
22. Install the stainless Brake hoses (long one goes on the left rear)
23. Install hoses using "P" clamps using diagrams
24. Bleed brakes, perform break-in procedure.

See next page for reference images. Enjoy the Upgrade!

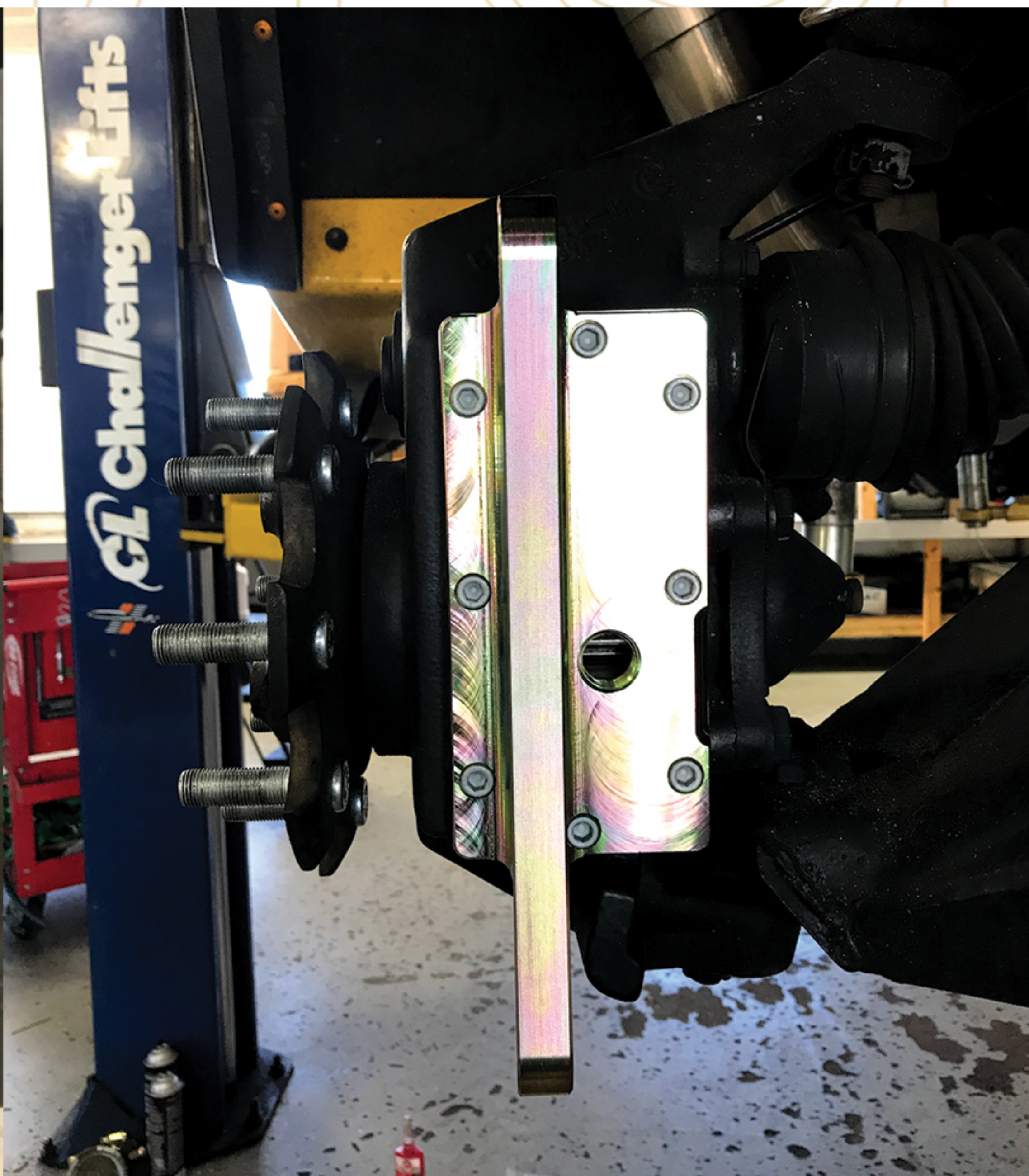
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### References



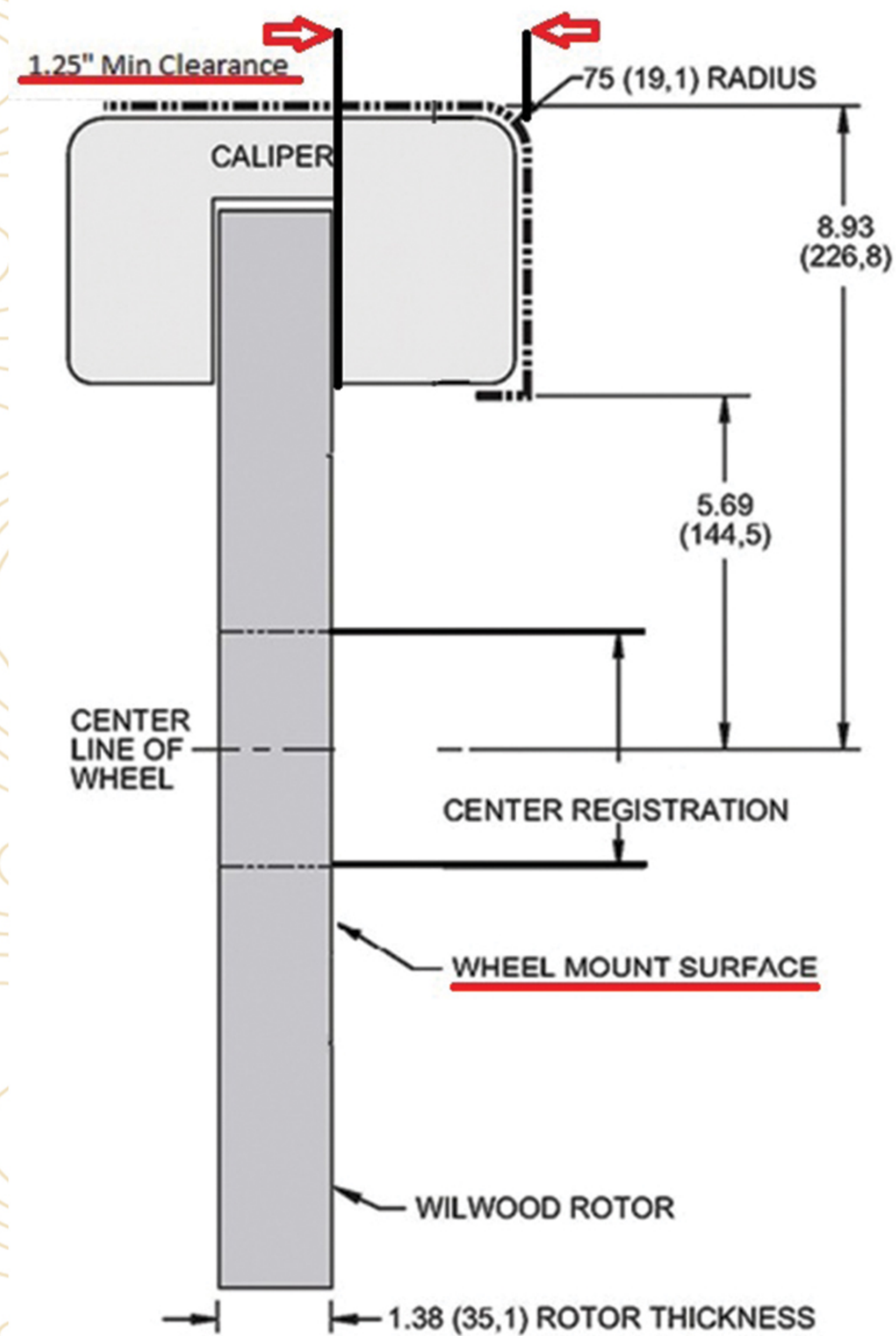
Step 8



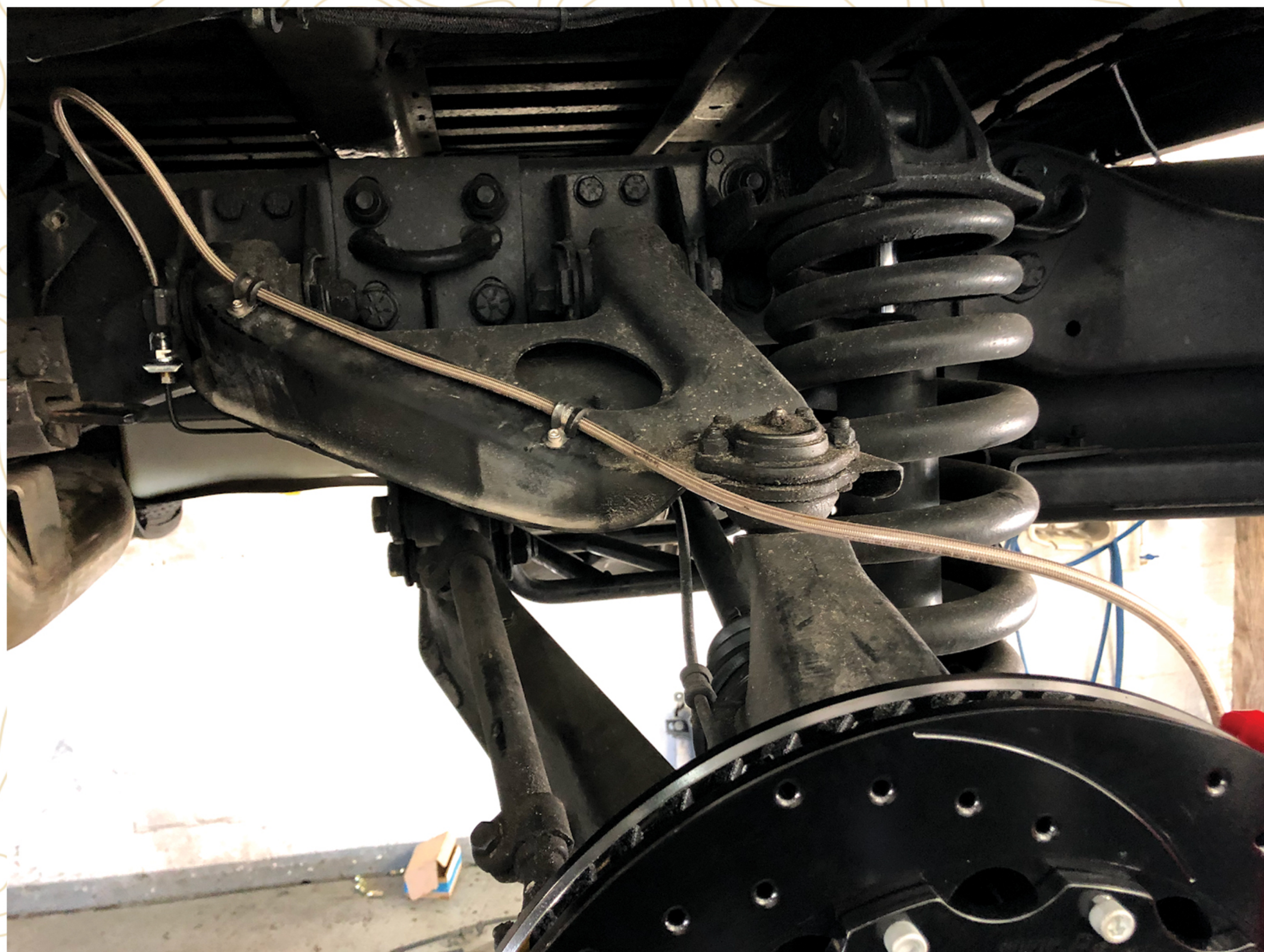
Step 9



Step 10



Step 11



Step 17