



Parking Brake Adjustment DIY

BMW 330

ChrisF

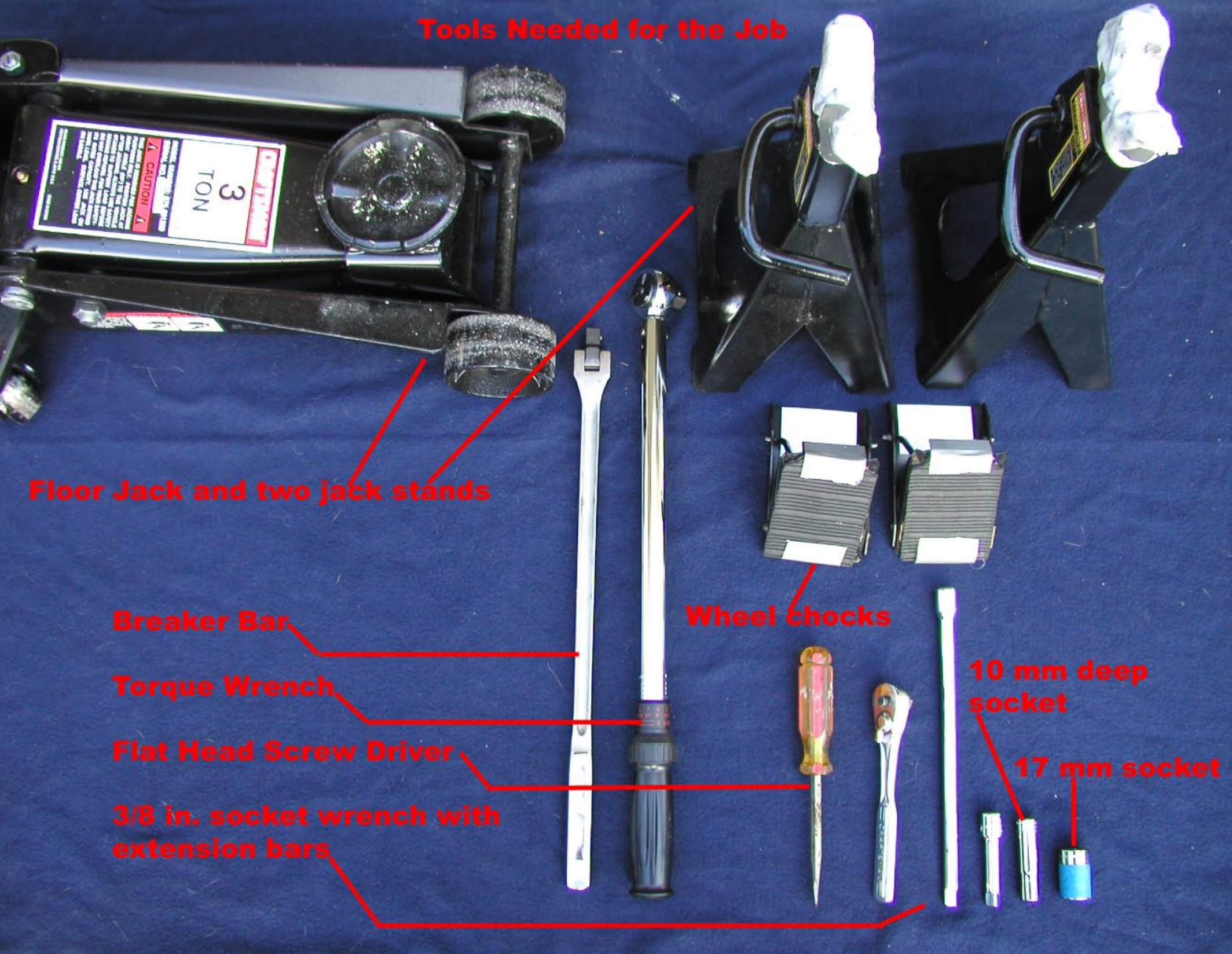


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Tools Needed for the Job



Floor Jack and two jack stands

Breaker Bar

Torque Wrench

Flat Head Screw Driver

3/8 in. socket wrench with extension bars

Wheel chocks

10 mm deep socket

17 mm socket



Remove the parking brake lever boot from the console.

There are two clips at the front and back of the boot that hold it in place.

Just pry it up from the back using your fingers.



Cable tension adjustment nuts


Turn the boot inside out, folding it forward over the hand brake lever to gain access to the cable tension adjustment nuts.

Use a 10mm deep socket wrench to loosen the brake cable nuts until the cables are completely slack





The nuts are loose enough when you can feel obvious slack in the cable when you pull on them



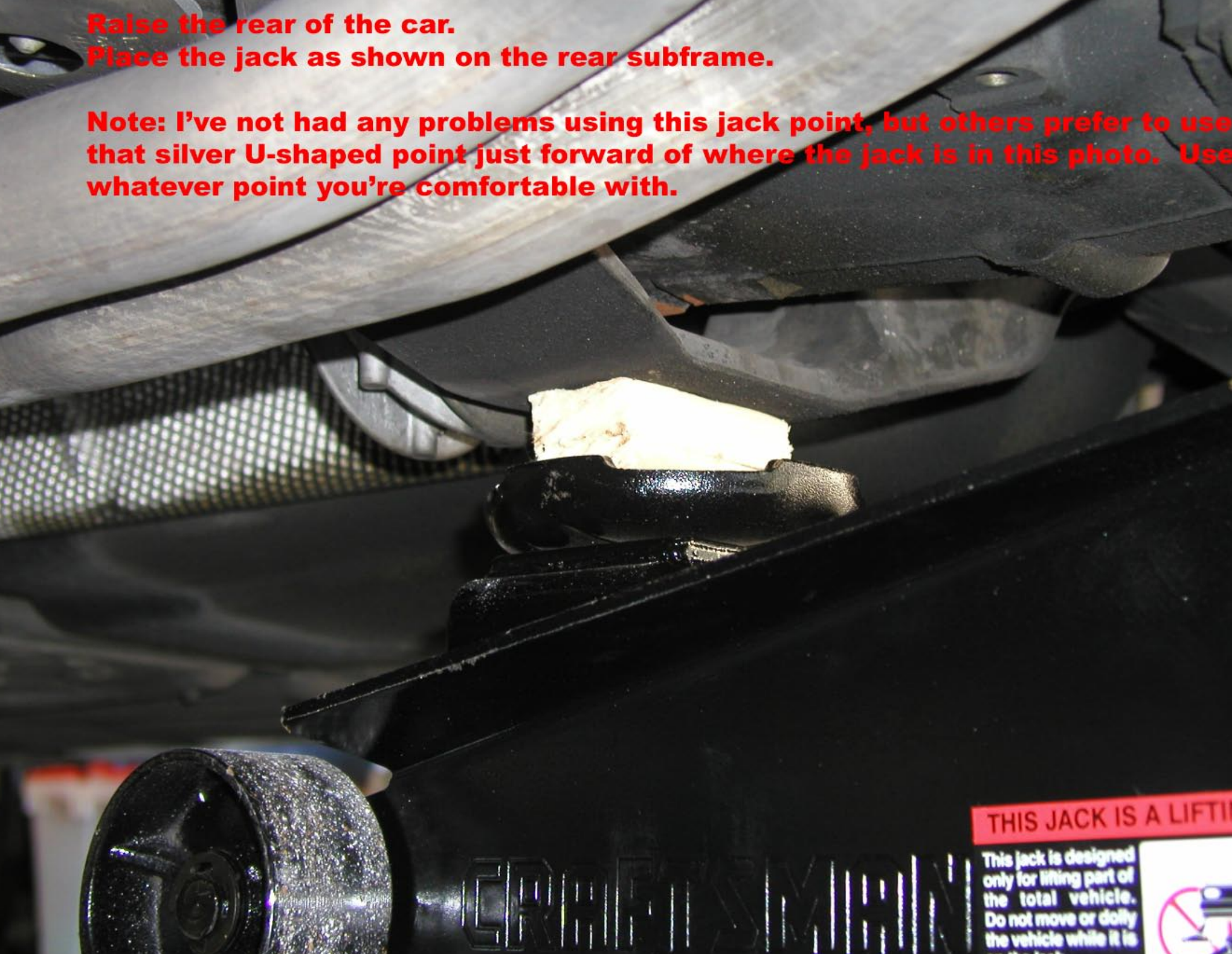
Use a 17mm socket and a breaker bar to loosen the lug nuts on both rear wheels.

Note: The Bently service manual describes a procedure in which only one lug nut is removed from both wheels and the brake shoe adjuster is accessed through the lug nut hole. I had zero luck with that approach and ended up removing both wheels instead, so that's what I've described here.

Raise the rear of the car.

Place the jack as shown on the rear subframe.

Note: I've not had any problems using this jack point, but others prefer to use that silver U-shaped point just forward of where the jack is in this photo. Use whatever point you're comfortable with.



THIS JACK IS A LIFTING

This jack is designed only for lifting part of the total vehicle. Do not move or dolly the vehicle while it is





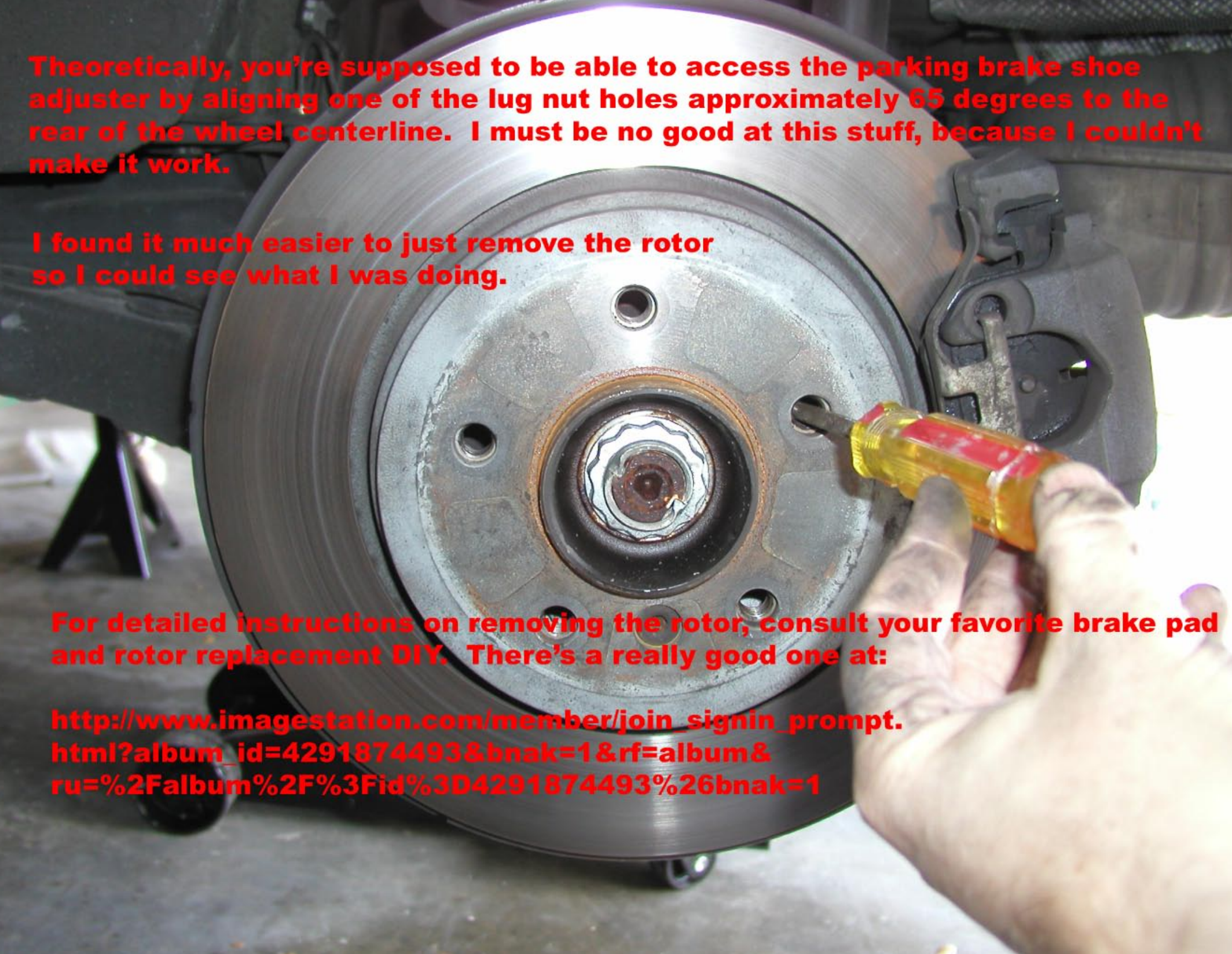
Place jack stands at the rear side jack points to support the car. You should leave the jack in place as well as a backup.

Theoretically, you're supposed to be able to access the parking brake shoe adjuster by aligning one of the lug nut holes approximately 65 degrees to the rear of the wheel centerline. I must be no good at this stuff, because I couldn't make it work.

I found it much easier to just remove the rotor so I could see what I was doing.

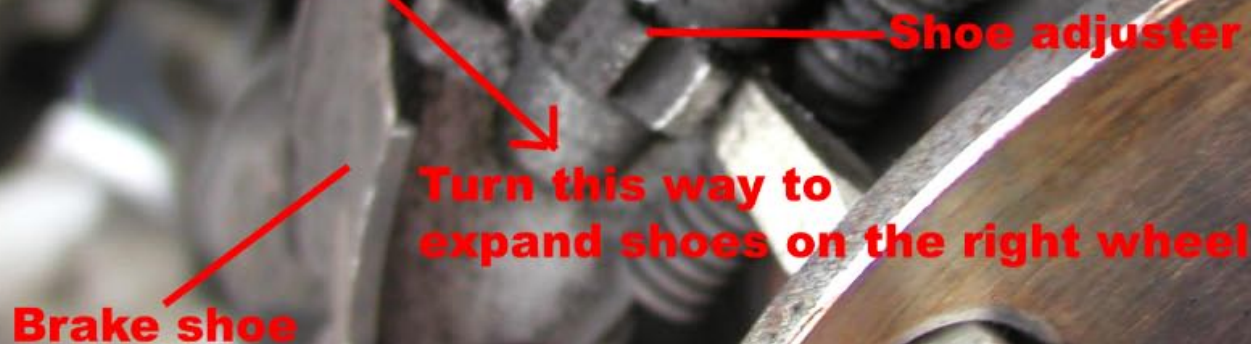
For detailed instructions on removing the rotor, consult your favorite brake pad and rotor replacement DIY. There's a really good one at:

http://www.imagestation.com/member/join_signin_prompt.html?album_id=4291874493&bnak=1&rf=album&ru=%2Falbum%2F%3Fid%3D4291874493%26bnak=1



Here's a shot with the rotor off so you can see what's being adjusted. Using a flat head screw driver, turn the shoe adjuster to expand the brake shoes until the wheel can no longer turn.

On the right rear wheel, turn the adjuster down and towards the front to expand the shoes. On the left rear wheel, turn in the the opposite direction (up and towards the rear) to expand the shoes.




If you do this with the rotor off, you'll need to put the rotor back on to check if you're able to turn the wheel. Once you get it close, you will find it difficult to remove/replace the rotor, so you'll have to make the final adjustments with the rotor in place.

When you get to the point where the wheel will not turn, back off the shoe adjuster by turning it 10 clicks in the opposite direction. Repeat this same procedure on the other wheel. Replace rotors and calipers if necessary (see brake pad/rotor DIY for detailed instructions).



Replace the rear wheels. The lug nuts should only be hand tightened at this point. We'll torque them to the proper specs once the car is on the ground.

A close-up photograph of a parking brake cable adjustment mechanism. A black metal cable with a braided outer sheath is connected to a metal bracket. The bracket is mounted on a metal plate with several screws. A silver-colored adjustment nut is visible on the cable. The mechanism is located in a confined space, possibly under a car seat or in a trunk, with some beige carpeting visible.

Working inside the car, pull the parking brake lever several times to seat the cable. Then pull the parking brake lever up two notches. Tighten the cable tension adjustment nuts until it is just possible to turn the rear wheels with slight resistance.

Release the lever and make sure the wheels turn freely.

Turn on the ignition and pull up the parking brake lever one notch. Make sure that the brake light comes on.

Pull the brake lever up one more notch and check that the rear wheels do not move and that the brake warning light stays lit.



**Reinstall the parking brake boot in the console.
It just snaps in to place.**



Lower the car and retorque the lug nuts to 88 ft-lbs.

That's it! The full stroke of the parking brake handle should now be no more than 7 or 8 clicks.