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11009300 GM “A” & “F” Body Tall Spindles

2 Tall Spindles

Hardware:
Lower steering arm bolts
(4) 1/2NFx 2 1/2” flathead socket head bolts with Nylok nuts

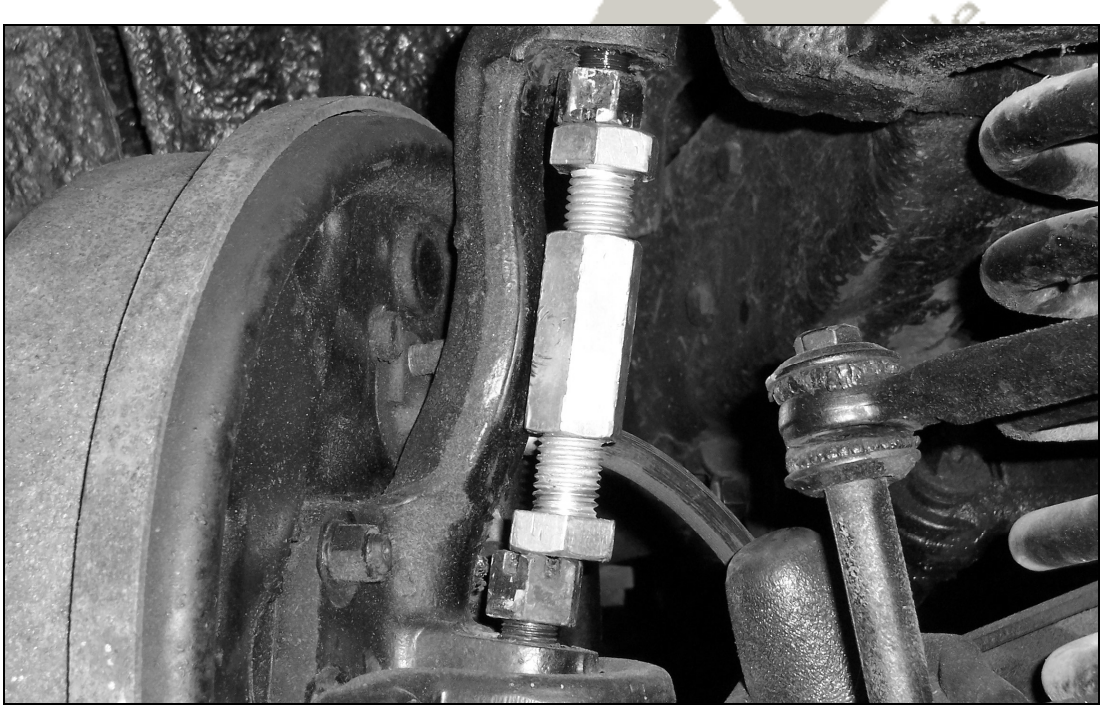
Lower caliper bracket bolts
(2) 1/2NFx 2” flathead socket head bolts with Nylok nuts (Wilwood and Baer Brake kits)
(2) 1/2NFx 2” Grade 8 hex head bolts (use with stock stamped ½” thick caliper brackets)

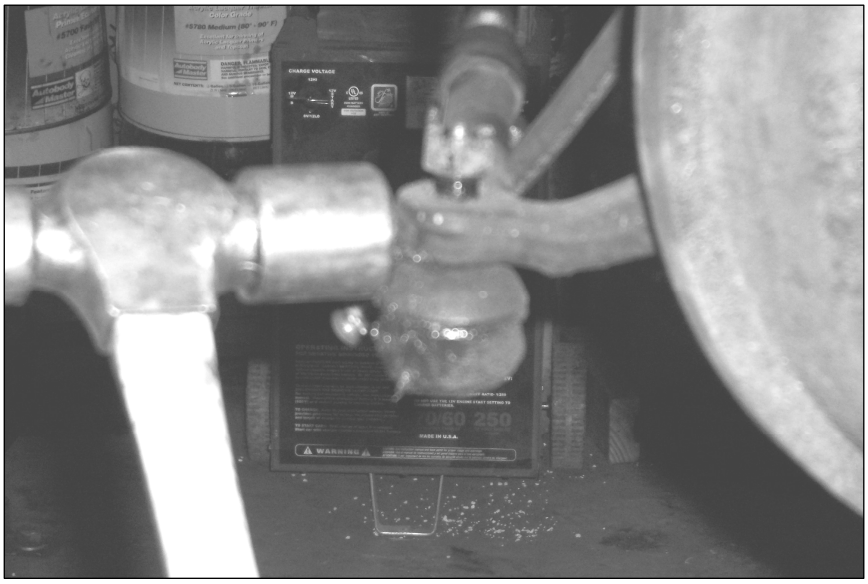
INSTRUCTIONS FOR Ridetech Tall SPINDLES

These spindles will fit ’67-69 Camaro, ’64-’72 Chevelle, and ’68-’74 Nova. They will provide a 2” drop, and are taller than stock to improve the car’s cornering ability. The raised upper ball joint induces negative camber gain, positioning the tires flat on the pavement when cornering. This camber action change also raises the roll center for less body roll, and transfer the car’s center of gravity inboard in the turn as well. You will see an appreciable improvement in handling. Standard size anti sway bars will work well with those improvements, without the need for monster sway bars that can cause a harsh ride.

The spindles are modeled after stock disc brake spindles and will accept any disc brake set up designed for those. If your car came with drum brakes, be sure to swap to the appropriate disc brake master cylinder and valving. We have test fitted ECI, Wilwood, Baer, Aerospace, and stock GM kits. The only modification we discovered to be necessary was a small trim on the bottom of the stamped ¼” steel caliper bracket that holds the caliper. It is an area that is not stressed and will not cause any loss of strength. There are variations among the various reproduction the shaft to be flipped in it’s bushings for brackets, so the trim will be seen only on some of those.

Disassembly of the ball joints from the spindles can be eased by making the simple tool shown in the photo below. A pair of 1 ½” long bolts are threaded into a matching hex coupler. The ball joint cotter pins are removed, and the hex nuts loosened a couple turns. Place the tool between the ball joint studs, and turn a bolt to expand the tool, gently popping the ball joint studs loose. If your ball joint boots are torn, as often happens when a pickle fork is used to separate the ball joints, NAPA has replacements. The best way to remove the outer tie rod pivot is to loosen the hex nut, and then rap the steering arm boss with a hammer. Tie rod ends pullers are also available if you want to be more gentle on the parts. Do NOT hammer on the tie rod stud itself! Be sure to leave the shock absorber in place to control the spring and prevent it jumping out.





If you remove the calipers but leave the hoses attached, supporting them to avoid stressing the hoses, you won't even need to rebleed the brakes!

Reattach the new spindle, being sure to get the castle nuts tight, and install new cotter pins. Attach the steering arms into the lower holes in the spindles using the 4 supplied 1/2NFx2 1/2" long flathead bolts and Nyloc nuts supplied. The 1/2NFx 2" long flat head bolts and nyloc nuts we supply are for use with Wilwood and Baer brake kit lower bracket bolts. The 1/2NFx2" hex head bolts are used with stock caliper brackets. Reassemble your disc brakes as well. Now would be a good time to clean and grease the bearings.

BEFORE you try moving the car, pump the brakes to reset the pads to the rotors. Rebleed if necessary. Have the alignment shop set the car with ½ degree negative camber, 2-3 degrees positive caster, and 1/8" toe in. We're sure you'll be amazed at the difference in handling!