



Steering, Brake & Suspension Specialists

#CP706 & #CP711 Installation Instructions

for 1928-59 GM Disc Brake Conversion Kits

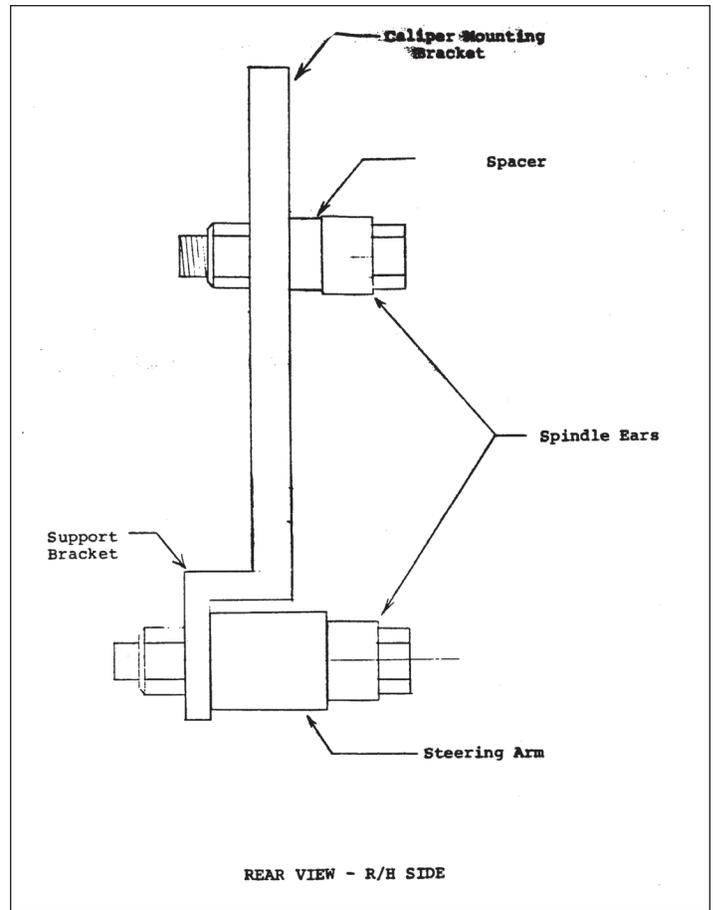
This kit is designed to use the following GM rotors and calipers:

Buick Apollo	1976-77
Buick Skylark	1973-76
Buick Regal	1977
Cadillac Seville	1975-77
Chevrolet Camaro	1970-77
Chevrolet Chevelle	1973-76
Chevrolet Monte Carlo	1973-77
Chevrolet Nova	1977
Oldsmobile Cutlass	1973-76
Oldsmobile Omega	1975-77
Pontiac Firebird	1970-77
Pontiac Grand Prix	1973-77
Chevrolet El Camino	1971-77
GMC Sprint	1971-77

This is only a partial listing of applicable GM models. Ask your local parts store if you're not sure. They are Raybestos #4059/#4060 (right and left respectively thru '76) and #4113/#4114 for '77.

- Remove bearings and inner seal from GM rotor. Remove GM inner bearing race and replace both the race and inner bearing assembly with that from a '71-'80 Pinto or '70-'78 Mustang. This is a widely used Ford inner wheel bearing that is readily available. It is also known as an A-13 inner bearing and consists of a L68149 cone and a L68110 race. Install a standard GM inner seal (National #8871).
- Install rotor on spindle making sure that inner bearing seats all the way onto bearing adapter.

NOTE: bearings and adapter are machined to a $\pm .0005$ " tolerance. If bearing does not slide onto adapter easily it may be due to tolerance "stack-up". This can be rectified by a small amount of fine emery "paper-work" on the bearing seating surface of the adapter.



Instructions:

- Remove early Chevy drums, brakes and backing plates from spindles. Make sure you retain the bearing nut and keyed washer.
- Thoroughly clean grease and dirt from spindle. Check for cracks or damage.
- Using one of the original bolts in the forward hole re-install the steering arm in its stock location on the spindle. Using the hardware supplied in the kit install the caliper mounting bracket on the rear of the spindles as shown in the figure. Insert the 1/4" thick round spacers between the bracket and the spindle. Check for adequate clearance between the bracket and spindle. Trim bracket if necessary.
- Examine the inner wheel bearing seating area on the spindle for nicks, etc. **VERY IMPORTANT: Emery cloth area as required for a smooth surface.**
- Slide bearing adapter on new smooth surface spindle and drive into place using a hammer and a piece of tubing or pipe of suitable dimensions (1 1/2" pipe works great). **DO NOT DAMAGE THE ADAPTER WHILE INSTALLING** (use a rag for padding between tool and adapter). Drive adapter on until it seats firmly against spindle inner bearing shoulder.

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(Continued)

- 8. Install GM outer wheel bearing followed by the 3/4" I.D. x 1/4" spacer (supplied in kit) and then the stock Chevy keyed bearing retaining washer and retaining nut. Adjust bearings a required and install cotter key and bearing dust cover.
- 9. Clean and inspect caliper for damage, leaks, etc. install caliper on mounting bracket WITH BLEEDER FITTING UP using stock GM mounting bolts. Make sure the bolts aren't bent or damaged before installing.
- 10. Fill the brake system with the correct fluid, bleed and inspect for leaks.
- 11. Check for any brake caliper /rotor/ wheel interference.
- 12. A proportioning valve may be required.*

A WORD TO THE WISE –

You now have a front braking system far superior to the original installation. Because of this it is strongly advised that the front end supporting and location system be adequate to absorb the increased braking loads. Since normal braking action may tend to spread the forward edges of the front tires apart it is essential that you check for bent tie rods at suitable intervals. This "spreading" of the front wheels results in a compressive type of loading on the tie rod and any "built in" bend may cause tie rod failure under severe braking.

**NOTE: IN ORDER TO PROVIDE CORRECT FRONT TO REAR BRAKING BALANCE WE SUGGEST USING A DUAL RESERVOIR DISC/DRUM TYPE MASTER CYLINDER COMPATIBLE WITH THE VEHICLE FROM WHICH THE FRONT BRAKES WERE OBTAINED.*

PLEASE NOTE: The installer needs to make sure that nothing can make contact with a brake hose, caliper, or other brake component at any point through the entire range of steering and suspension movement. The installer also needs make sure none of the steering or braking components can become bound or jammed at any time through the range of suspension or steering movement.

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GENERAL TORQUE SPECIFICATIONS:					
1/4"	grade 5	10lb/ft	1/4"	grade 8	14lb/ft
5/16"	grade 5	19lb/ft	5/16"	grade 8	29lb/ft
3/8"	grade 5	33lb/ft	3/8"	grade 8	47lb/ft
7/16"	grade 5	54lb/ft	7/16"	grade 8	78lb/ft
1/2"	grade 5	78lb/ft	1/2"	grade 8	119lb/ft
9/16"	grade 5	114lb/ft	9/16"	grade 8	169lb/ft
5/8"	grade 5	154lb/ft	5/8"	grade 8	230lb/ft

NOTE: With 18" and larger wheels we recommend 1/2" wheel studs. The larger the wheel diameter, the greater the force is on the wheel studs. Please inquire about replacement wheel stud kits available from CPP.