



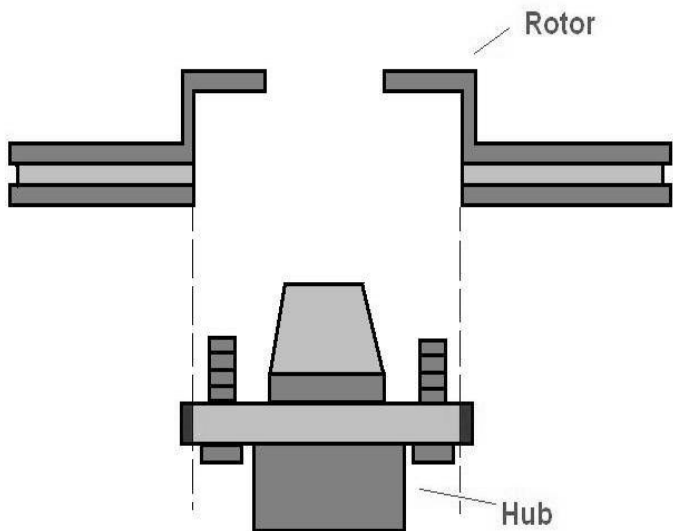
1961-67 Ford Econoline Front Disc Brake Conversion Installation Instructions

- 1.** Break front wheel nuts loose and chock rear wheels to secure vehicle in place.
- 2.** Jack up front end of car and support vehicle with appropriately-rated jackstands.
- 3.** Remove front wheels followed by the drum/hub assemblies.
- 4.** Turn-down the outer diameters of the drum/hub assemblies to fit inside the rotors. This operation can be done with an engine lathe or brake lathe. Do NOT use a grinder or sander! Outside dimension should be approx. 5.560".
- 5.** Chage the profile of the bases of the existing studs to fit the rotors. This can be accomplished by using a swage cutter, replacing the studs with Moser or ARP studs, or by drilling out the rotor stud holes to fit over the base of the rotor studs (5/8"+). Use whichever method works the best for your circumstances.
- 6.** Disconnect the flexible brake lines at frame by unscrewing hardline nuts and then removing the hose clips. Remove lower drum backing plate nuts and the upper backing plate bolts. Remove drum backing plates and all drum hardware as complete assemblies. Clean off spindle assemblies.
- 7.** Place the caliper mounting plates over the spindles with caliper bolt retaining-nut welds facing outward and caliper openings forward of the axle, the supplied spacers go between the brackets and spindles. Make sure no dirt is lodged between the spindles and mounting plates. Replace the OEM bolts with longer units and tighten to 42 ft-lbs.
- 8.** Clean and repack wheel bearings. Place the inner bearings into the hubs and then Install new grease seals (same as drum seal). Assemble machined hubs onto spindles, tighten outer nuts to spec and secure with keepers and new cotter pins. Install the dust caps.
- 9.** Place rotors onto hubs and run two or three lug nuts down finger tight to retain them in place. Wipe down the rotors with alcohol, lacquer thinner or other cleaner. Wash hands to prevent grease contamination of the rotors and/or brake pads.
- 10.** Test fit calipers onto mounting brackets. Lubricate caliper contact points of brackets. Slide assemblies into caliper brackets. Make sure bleed screws face upward- if not, reverse sides. Some calipers have a small nub that interferes with fitment – remove these nubs. If outer edge of calipers interferes with brackets, file calipers to remove burrs. Tighten caliper bolts to 35 foot-pounds. Check fitment and rotate rotors to check clearances.

- 11.** Test fit and install hoses with new copper crush washers. Some year models work best with 17" hoses, while 15" hoses seem better on others. If in doubt, use a piece of 3/8" fuel line to test run before buying hose. If you are using 17" hoses, remove the brackets crimped on them by cutting a relief slot in the brackets as shown in the second picture and then prying them off with a screwdriver or prybar.

You may need to file a slot in the hardline retainers for proper hose fitment. Some hardlines are 7/16"; if encountered, you will need to change the hardline nuts, order custom hoses, or use Weatherhead #7828 adapter fittings.

- 12.** Master cylinder and proportioning valve specs are quite varied. We recommend using a NAPA 1974 Maverick manual disc master cylinder for best compatibility. Plumb in an adjustable proportioning valve in the line going to the rear cylinders, or use a disc brake proportioning valve.
- 13.** Bench bleed disc master cylinder. Mount MC on car, then gravity bleed entire system to eliminate most of the air. Following that, pump bleed and test the system, otherwise your distribution block may jam from a pressure imbalance. Another method is to use a suction device at the caliper, both Griot's and Harbor Freight have affordable air-powered units that work very well.
- 14.** Replace wheels, install lug nuts, lower car and torque nuts to spec. Test drive carefully- no hard stops, a series of smooth stops will help bed in the pads properly.



Part	Application	NAPA	Wagner	Raybestos
Rotor	1991-94 Toyota Previa front rotor w/ rear drum option	48-86174	BD125058	96174
Caliper, LH	1990 Chevy Celebrity	N4746	L107084	RC4234
Caliper, RH	1990 Chevy Celebrity	N4745	L107085	RC4233
Brake Hose*	1979-82 Eldorado front	36959/36960	F98914/98914	BH36959/36960
Brake pads	1990 Chevy Celebrity	TS7136M	MX215	

Supplied components: (2) Caliper mounting brackets with spacers welded inboard, (2) hose locks, (2) metric banjo bolts, (2) cotter pins

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Scarebird Classic Brakes LLC reserves the right to change/delete components/applications without notice. Please do not hesitate to email us for latest specifications or technical inquiries.

Contact: sales@scarebird.com Thank you.