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COBRA REAR DISC BRAKES Installation Instructions

GENERAL DESCRIPTION:

- Bracket **A** replaces the bearing retainer plate that held the bearing in the housing.
 - Bracket **B** bolts to the large bracket and is used to mount the caliper. Calipers mount aft of axle.
 - Supplied $\frac{1}{2}$ " spacers (thick washers) are used between the large and small bracket to provide lateral positioning of the caliper.
 - Utilize the supplied $\frac{1}{2}$ " bolts and nuts to mount the large and small caliper mounts to each other, with the stainless steel shims sandwiched between Bracket **A** and Bracket **B** to obtain correct caliper spacing.
1. Remove rear axles and all brake parts from the axle housing. Remove axle bearing and retainer from axle.
 2. **Mock-up of brackets and calipers** to the housing is suggested prior to pressing bearings to assure correct fit.
 3. Slide Bracket **A** onto axle with the grooved side facing bearing. **BRACKETS ARE SIDE-SPECIFIC!**
 4. Press new axle bearing onto axle until fully seated, then press on bearing retainer ring until fully seated. Install new seal in housing if needed. Install axle in housing and bolt the bracket to the housing with the 4 original T-head bolts.
 5. Install centering rings (only supplied with small bearing kit) onto axle stub. They are used to center the rotor on the axle.
 6. Install rotor and secure with 3 lug nuts temporarily for test fit of caliper (tight enough so rotor cannot move)
 7. Install caliper with brake pads onto bracket **B** with two bolts supplied in kit. You must use COBRA pads and not the regular Mustang or GT pads which are thicker than the COBRA pads or the caliper will not go over the rotor.
 8. Slide caliper over rotor, insert the thick stainless steel shims between the two brackets, and install the bolts.
 9. Caliper mounting cradle must not rub on side of rotor. Heads of $\frac{1}{2}$ " bolts can go to either side of bracket, whichever is preferred. Red Loctite is recommended on the $\frac{1}{2}$ " bolts.
 10. Mount the inner end of the hose (the end opposite caliper connection) securely to the axle housing. (see pic) One option is to use a muffler clamp around the axle housing and attach the hose bracket to one end of the clamp's u-bolt. The 1977-80 Versailles rear hoses have the integral bracket for securing the inner end, like in the picture and are available new. Note: Versailles banjo bolt will not fit Cobra calipers, and must be replaced with metric thread banjo bolt. (Hoses and hose mounting brackets are not supplied with this kit)
 11. Emergency brakes use 94-2004 Mustang e-brake cables. These are available new from MustangSteve for 65/66 Mustangs at very reasonable cost. Fit cable housing to caliper and car body brackets as shown, cutting to fit, leaving a bit of slack for movement. Overlap wires 8" with existing emergency brake cables and clamp with two cable clamps on each side. You can get more elaborate with the emergency brakes if you want, but this method is simple and time-tested. (Picture shows 65-66 Mustang, other years vary)



New cables

Clamps

09/09/2008



Existing cables

Two clamps ea. side secure emergency brake cables to existing cables

Attach end of caliper hose securely to axle. There are several ways to accomplish this.

Bracket and caliper shown mounted

ALL BRAKE WORK SHOULD BE DONE BY A MECHANIC WHO IS COMPETENT WITH THE MODIFICATION OF YOUR CAR'S BRAKE SYSTEM. MustangSteve IS NOT RESPONSIBLE FOR ANY EVENT THAT MIGHT OCCUR IN THE EVENT OF A BRAKE FAILURE. THESE BRAKES ARE CONSIDERED RACING ITEMS AND NOT COVERED BY ANY WARRANTY.

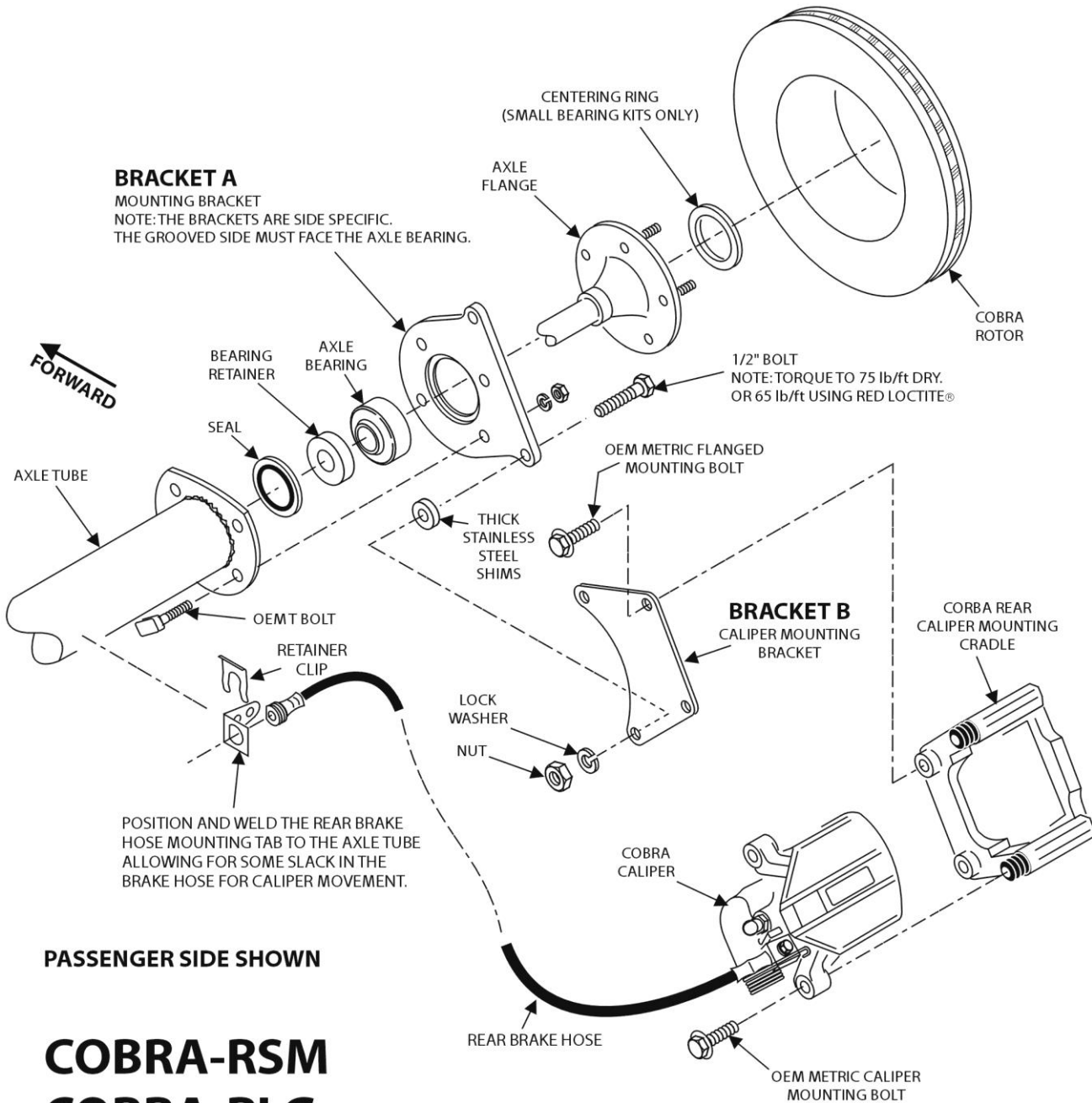
Mustang related questions can be posted on my FYIFORD FORUM for quick replies to ANY Mustang questions. Go to www.mustangsteve.com and click on the FYIFORD link.

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BRACKET A
 MOUNTING BRACKET
 NOTE: THE BRACKETS ARE SIDE SPECIFIC.
 THE GROOVED SIDE MUST FACE THE AXLE BEARING.

1/2" BOLT
 NOTE: TORQUETO 75 lb/ft DRY.
 OR 65 lb/ft USING RED LOCTITE®

POSITION AND WELD THE REAR BRAKE
 HOSE MOUNTING TAB TO THE AXLE TUBE
 ALLOWING FOR SOME SLACK IN THE
 BRAKE HOSE FOR CALIPER MOVEMENT.

PASSENGER SIDE SHOWN

COBRA-RSM COBRA-RLG

VERSION120316

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Mustang related questions can be posted on the FYIFORD FORUM for quick replies to ANY Mustang questions. Go to www.mustangsteve.com and click on the FYIFORD link.

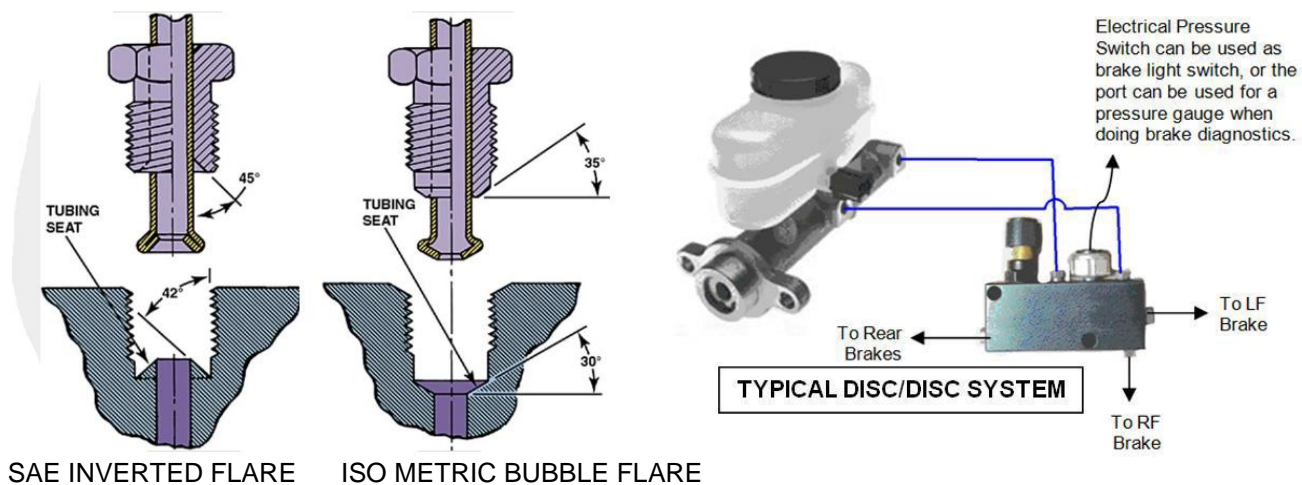
REFERENCE INFORMATION

If installing brand new brake pads or shoes, DO NOT immediately go out and do a panic stop to see how well they work!!!

This will destroy new pad and shoe material.

New brake pads must be broken in and used in normal driving for 200 or so miles before a super panic stop.

Increasingly hotter brake applications as you are driving will help to bed the new pads. Do not come to a complete stop when doing hot deceleration so the pads do not transfer material to the rotors. Keep driving to let the parts cool down between decelerations.



You may call, email or post questions on my Q&A Forum <http://fyi.boardhost.com/>

(972) 345-5466 Monday - Friday 9AM-5:30PM central time Email info@mustangsteve.com

RECOMMENDED MASTER CYLINDERS

Purchase NEW only. Rebuilt master cylinders do not last very long

Disc/Disc 2000 Mustang V6 1.00" bore
MustangSteve Part # PB-6.2

RECOMMENDED PROPORTIONING VALVES

Disc/Drum or Disc/Disc Adjustable valve with distribution block and electric brake light switch
MustangSteve Part # PV-100 Matte chrome finish
Light switch port can also be used for pressure gauge port to use in diagnostics

Master Cylinders and Proportioning Valves Available at
www.mustangsteve.com



PB-6.2



PV-100



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Parts required for COBRA FRONT DISC BRAKE RETROFIT

65-66 Mustang		
	Specify Parts From	Notes
Spindles	65-66 Mustang	V8 disc or drum
Hubs	65-69 Mustang	V8 drum brake only
Bearings	65-69 Mustang	#2 and #6 Bearing
Seals	65-69 Mustang	V8 drum brake
Caliper Brackets	MustangSteve # Cobra-FT	
Caliper Mounting Bolt kit	m12-7.5 x 35mm long (4 req'd)	included with Cobra-FT kit
Calipers	94-2004 COBRA	
Brake Pads	94-2004 COBRA	Pads are usually included when new calipers are purchased
Rotors	94-2004 13" COBRA	
Hoses	94-98 COBRA	Red 2003 calipers use unique coarse thread banjo bolts (metric threads) Bolts come with hoses in most cases.
Banjo bolts	94-2004 V6, GT, or COBRA	Red 2003 calipers require coarse thread bolt
7/16" thread 3/16" tube size brake tube flare nut (fits Cobra hose)	Available @ MustangSteve's	One required. Other hose uses standard 3/8" threads.
Frame mounts for hoses	Use original ones on car. May require relocating. Will require filing I.D. to fit hose hex fitting	Suggested location to remount is directly under center of upper control arm, on frame rail.
Steel lines	Replace with custom made 3/16" tubing diameter. SAE Inverted Flare req'd for end fittings	Buy two sticks of 3/16" brake line steel tubing 60" long and make your own lines. SAE Inverted flare tool is \$20 at Sears
67-73 Mustang		
	Using 67-69 spindle / using 70-73 spindle	
Spindles	67-69 Mustang / 70-73 Mustang	67 V8 disc or drum, 68-69 drum only / 70-73 drum only
Hubs	65-69 Mustang / 70-73 Mustang	65-69 V8 drum brake only / 70-73 drum brake only
Bearings	65-69 Mustang / 70-73 Mustang	65-69 #2 and #6 Bearing / 70-73 Mustang bearings
Seals	65-69 Mustang / 70-73 Mustang	65-69 V8 drum brake / 70-73 drum brake
Caliper Brackets	MustangSteve # Cobra-FT	
Caliper Mounting Bolt kit	m12-7.5 x 35mm long (4 req'd)	included with Cobra-RSM or RLG bracket set
Calipers	94-2004 COBRA	
Brake Pads	94-2004 COBRA	Pads are usually included when new calipers are purchased
Rotors	94-2004 13" COBRA	
Hoses	94-98 COBRA	
Banjo bolts	94-2004 V6, GT, or COBRA	(metric threads) Bolts come with hoses in most cases. Red 2003 calipers require coarse thread bolt
7/16" thread 3/16" tube size brake tube flare nut (fits Cobra hose)	Available @ MustangSteve's	One required. Other hose uses standard 3/8" threads.
Frame mounts for hoses	Use original ones on car. May require relocating. Will require filing I.D. to fit hose hex fitting	
Steel lines	Replace with custom made 3/16" tubing diameter. SAE Inverted Flare req'd for end fittings	Buy two sticks of 3/16" brake line steel tubing 60" long and make your own lines. SAE Inverted flare tool required.
Parts required for COBRA REAR DISC BRAKE RETROFIT		
Bearings	MUST replace axle bearings	Brackets fit between bearing and axle flange. DO NOT reinstall old bearings. Press fit will be compromised if you do
Seals	Axle seal replacement optional	Recommended to replace seals
Caliper Brackets for all 8" and small bearing 9"	MustangSteve # Cobra-RSM	3/8" bolt holes
Caliper Brackets for large bearing 9" (bearing diameter 3.150")	MustangSteve # Cobra-RLG	1/2" bolt holes - also fits Torino style & Versailles rear
Caliper Mounting Bolt kit	Caliper bolts included with brackets	Uses original backing plate T-head bolts to attach brackets to axle housing flange.
Calipers	94-2004 COBRA	
Brake Pads	94-2004 COBRA	GT or V6 pads appear same but are slightly thicker and will not fit over the cobra rotors.
Rotors	94-2004 COBRA 11.65"	
Hoses	77-80 Lincoln Versailles	Can also use 94-98 COBRA or generic
Banjo bolts	94-2004 V6, GT, or COBRA	Must use with either hose type (metric threads)
Emergency brake cables	94-2004 V6, GT, or COBRA	Must cut housing to fit, cable to overlap existing cable 6" and clamp with 2 1/8" cable clamps each side
		Version 131210