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Thread: Cayenne/Touareg Front Brake Installation (low-cost BBK)

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Join Date: Oct 27 2009
AZ Member #: 49851
My Garage: 2003 A4 Avant
1.8tQ0A3, '72 Nova
Location: The Cheese
State

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Cayenne/Touareg Front Brake Installation (low-cost BBK)

Not that this hasn't been covered in some detail elsewhere, but there are a few things that I ran into that weren't covered (or perhaps I overlooked them). Since I went the 330mm route, that is the only fitment I can comment on and what this DIY is based on.

The Basics

The Porsche Cayenne and the VW Touareg share platforms and have 4 or 6 piston Brembo front [calipers](#). Calipers from the Cayenne come in pretty red and have a Brembo sticker on them...the Touareg [calipers](#) do not. The Touareg [calipers](#) are substantially cheaper because of this. Amazing what a coat of paint and sticker can do. Astoundingly, many VAG vehicles share the same caliper bolt pattern- the B6 being one of them.

Calipers

The calipers come in two flavors- those to fit 330mm rotors and those to fit 350mm rotors. Be sure you select accordingly. 4 piston [calipers](#) are only for 330mm rotors, 6 piston come in both 330 and 350mm. All 6 piston calipers have staggered piston sizes, so you'll have to flip the bleeders/crossover pipe since the calipers mount on the front side of the rotor on the Cayenne/Touareg. 4 piston [calipers](#) (should) have the same size pistons, enabling mounting on either side of the vehicle.

Caveats- The caliper mounting holes are 16mm, not 14mm like the B6 knuckle. You have two options- shim the caliper mounting holes or drill the knuckle. Given that the knuckle is aluminum and I didn't feel the mounting holes would support a loss of 2mm, I shimmed the calipers. The calipers will have to be held to the knuckle via a bolt and a nut since the caliper will be mounted on the inboard side of the knuckle (vs. the outboard side for the stock carrier mount).

Rotors

While there are a variety of custom rotors available, based on my searching there are few OEM applications that will work:

330mm: [W203](#) (2000 - 2007) Mercedes Benz C230 Sport (must be the sport version, the non-sport does not have the larger rotors). The only downside is that these rotors came cross-drilled from the factory and therefore all replacement rotors will be the same.

- Part numbers- Centric: 121.35086, EBC: 725, Raybestos: 980521
- Caveats- center hub diameter must be increased by 1mm, lug bolt holes must be drilled out to 14mm, rotor offset not perfect- live with it or change caliper/knuckle thickness to center caliper on rotor
- Other possibilities- one of the links below indicates the Volvo S60R/V70R rotor works with a bolt pattern re-drill and doesn't require the modification to the center bore. Part numbers: C-TEK Standard Rotor 121.39035
Power Slot Slotted Brake Rotor 126.39035SL
Power Slot Slotted Brake Rotor 126.39035SR
SportStop XDrilled & Slotted Rotor 127.39035L
SportStop XDrilled & Slotted Rotor 127.39035R
SportStop XDrilled Brake Rotor 128.39035L
SportStop XDrilled Brake Rotor 128.39035R

350mm: [Mercedes Benz ML55](#)

- Part numbers- no idea since I went with 330mm
- Caveats- no idea since I went with 330mm

Brake Lines

Any of the major big brake manufacturers or B7 RS4 lines will work, order from them or have some custom made at your local hydraulic shop. The caliper side fitting is different from the stock line, not to mention it will need to be longer. Stop Tech sells the B7 RS4 lines alone, part number: 950-33005. ECS also sells some.

Hardware

You'll need some quality hardware to hold the calipers to the knuckles. JHM Motorsports sells some for \$65, or you can source your own as I did. Here's a list of McMaster part numbers:

- 90854A267 Metric Zinc Yellow plated Steel Hex Head Cap Screw, Class 10.9, M14 Size, 50mm L, 2mm Pitch, Fully Thread, Packs of 5 (you may want to step up to a 55mm bolt to ensure enough thread engagement with washers, order 1)
- 93475A300 Metric DIN 125 18-8 Stainless Steel Flat Washer, M14 Screw Size, 28mm OD, 2.3mm-2.7mm Thick, Packs of 25 (order 1)
- 92148A221 Metric 18-8 Stainless Steel Split Lock Washer, M14 Screw Size, 24.1mm OD, 2.85mm min Thick, Packs of 25 (order 1)

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- 92497A550 Metric Zinc-Yellow plated Class 10 Steel Hex Nut, M14 Size, 2mm Pitch, 22mm Width, 11mm Height, Packs of 10 (order 1)
- only if you're shimming the caliper: 6679K18 Metric Steel-Backed PTFE-Coated Bronze Bearing, for 14 mm Shaft Diameter, 12 mm Length (order 4)

Obviously you can source hardware in a myriad of places, I'd recommend 10.9 or higher. You may want to use Loctite on the bolts as well.

Wheel Fitment

My 330mm setup barely clears my OEM 17" Avant Sport wheels, JHM claims fitment on most 17s (I believe it). I tried my old 16" winter wheels, no chance of that.

Links

<http://www.audzine.com/forum/showth...de-what-rotors>
<http://forums.audiworld.com/showthread.php?p=18110929>
<http://forums.quattroworld.com/a4b6/msqs/35723.phtml>
<http://forums.vwvortex.com/showthrea...iper-Questions>
<http://jhmotorsports.com/shop/catalo...9d72e81b111a40>

Sources for Parts

My intent in providing part numbers is so you can use teh internets to find the best deal. For the calipers, I recommend using any of the existing junkyard search engines, such as car-part.com.

My Setup/Notes/Pix

I found a set of 2011 V6 Touareg calipers with 43 miles on them complete with pads and hardware for \$300. I managed to find the Centric rotors for \$120, hardware was \$50 and I had a set of SS lines made for \$40. The install was straight forward, modifying the rotor wasn't hard. Getting the caliper centered over the rotor was a bit of trial and error, I elected to grind down the caliper mounting ears since there was more material to work with on the caliper than on the knuckle.

After install and bedding, the stopping power is unreal...even with the stock Touareg pads in place (they look to be semi-metallic). No complains and not bad for around \$500....

Now for pix:

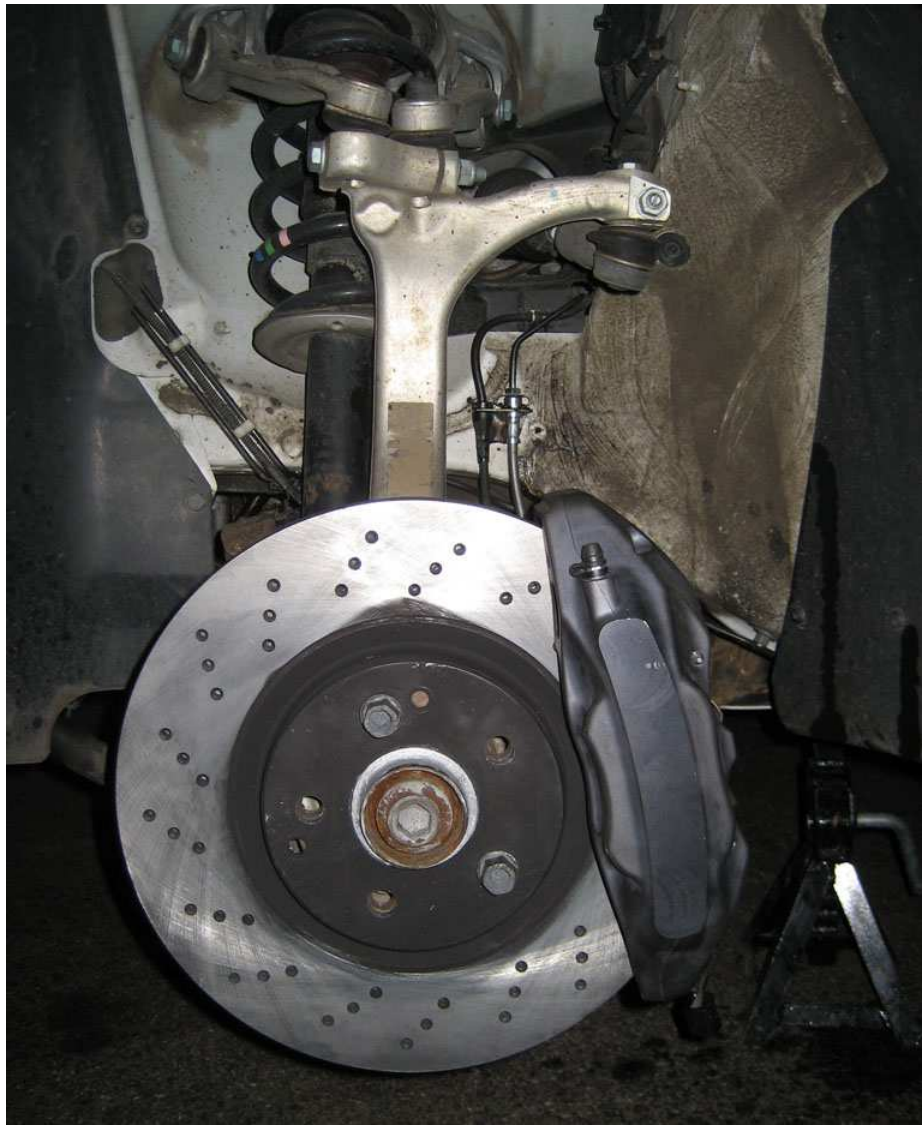
Before:






After:





C230 Sport rotors vs. stock 1.8T:

 [Click this bar to view the full image.](#)



Calipers + hardware (Coke can for size reference...):



Caliper to rotor clearance, before modifications:



 Click this bar to view the full image.



#1

Last edited by drjonez; 07-02-2012 at 09:13 AM.

'03 A4 Avant 1.8tQ0A3GT28R

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