

To: Sport Kit Customer  
From: Brembo Engineering  
Date: June 16, 2004  
Re: Identifying the Rotational Direction of a Disc

### Which direction should the disc rotate?

It is a popular misconception that only the slots or drillings in a *Sport* disc determine the direction of rotation. In truth, for an internally vented rotor, the geometry of the vanes also dictates the direction of rotation. There are three vane types in use:

- Straight
- Pillar vane (comprised of many small posts)
- Curved vane

The first two vane types are non-directional, and can be used on either side of the vehicle. The curved vane disc, however, is directional. A curved vane disc must be installed with the vanes running back from the inside to outside diameters in the direction of rotation. Please see figure 1. Orienting the disc in this manner creates a centrifugal pump. The rotation of the disc causes air to be pumped from the center of the disc, through the vanes, and out through the outside diameter of the disc. This greatly enhances the disc's ability to dissipate heat.

All of Brembo's slotted and drilled *Sport* discs are directional, regardless of the vane geometry. The discs should be installed such that the end of the slot or the hole nearest the outer edge of the rotor contacts the pad first. Please see figure 2.

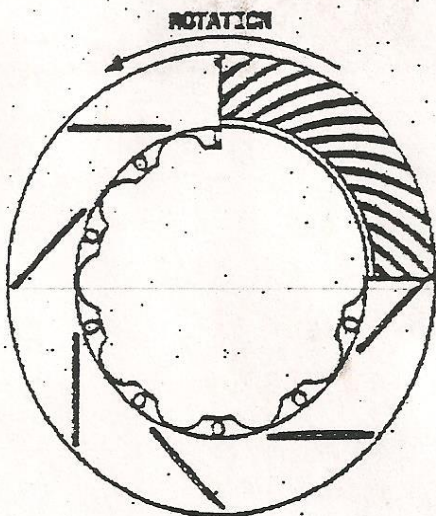


Figure 1

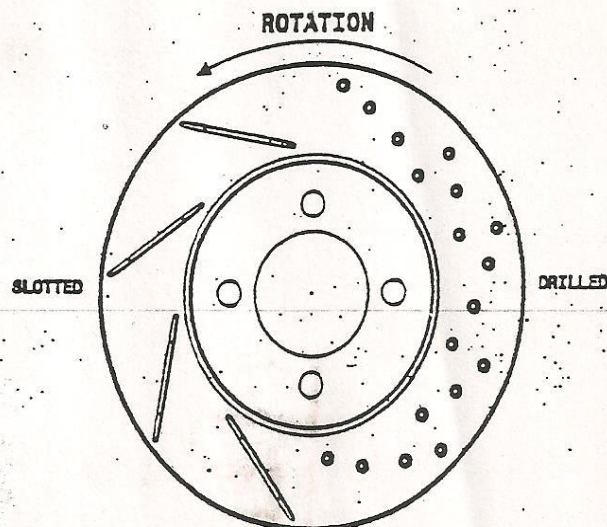


Figure 2