

SERVICE BULLETIN



M-1192A

July 17, 2006

SWAPPING AND ALIGNING FIXED DUAL DISCS

Purpose

It has recently been determined that swapping and aligning the front brake discs on motorcycles having fixed dual disc brakes can significantly reduce brake squeal.

Therefore, effective June 26, 2006, the front brake discs will be swapped and aligned on all production motorcycles having fixed dual disc brakes. The running change moves the former left side brake disc stamped P/N 44156-00 LEFT to the right side of the hub, and the former right side brake disc stamped P/N 44136-00 RIGHT to the left side of the hub. The vent holes are then aligned before the discs are fastened to the hub.

Also, in the interest of promoting customer satisfaction, Harley-Davidson will swap and align the front brake discs on affected motorcycles under warranty, but **only** when responding to customer complaints of excessive brake squeal. See REQUIRED DEALER ACTION.

Motorcycles Affected

All 2000-2006 model motorcycles, as well as those 2007 models built before June 26, 2006, having fixed dual disc brakes that exhibit excessive front brake squeal.

Required Dealer Action

NOTE

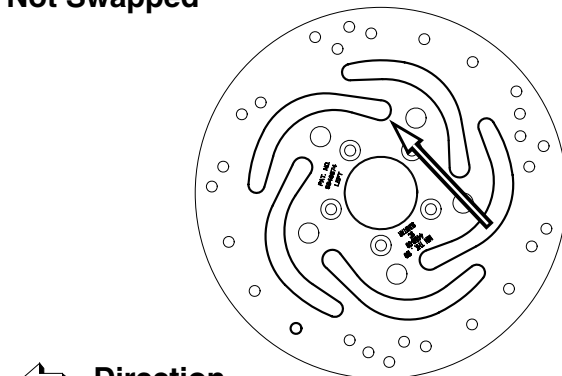
Obtain the applicable service manual for all removal and installation instructions.

1. Take note of the brake disc stampings. If left side brake disc is stamped P/N 44156-00 LEFT and right side brake disc is stamped P/N 44136-00 RIGHT, then swap the brake discs as follows:

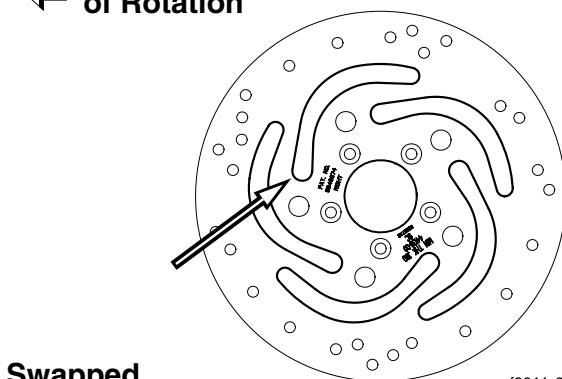
NOTE

Another way to determine whether the brake discs have been swapped is to look at any of the five slots. Note that one end of the slot is bulb shaped and is more fully round than the other. On wheels where the brake discs have **NOT** been swapped, the bulb shape is on the trailing end of the slot when referencing the direction of wheel rotation. On wheels where the brake discs have been swapped, the bulb shape is on the leading end of the slot. See Figure 1 and Table 1.

Not Swapped



Direction of Rotation



f2644x2x

Figure 1. Note Bulb Shaped End of Slot (Left Side Brake Disc Shown)

Table 1. Front Brake Discs

Not Swapped Early Style	Swapped Late Style
Left side brake disc stamped P/N 44156-00 LEFT	Left side brake disc stamped P/N 44136-00 RIGHT
Right side brake disc stamped P/N 44136-00 RIGHT	Right side brake disc stamped P/N 44156-00 LEFT
Referencing direction of wheel rotation, bulb shaped end of slot is:	
TRAILING	LEADING

IMPORTANT NOTE

In the interest of preserving customer safety and satisfaction, always check for outstanding recalls whenever any motorcycle is brought into your dealership for either maintenance or service.

ROUTING	SERVICE MANAGER	SALES MANAGER	PARTS MANAGER	LEAD TECHNICIAN	TECHNICIAN NO.1	TECHNICIAN NO. 2	TECHNICIAN NO. 3	TECHNICIAN NO. 4	RETURN THIS TO
INITIAL HERE									

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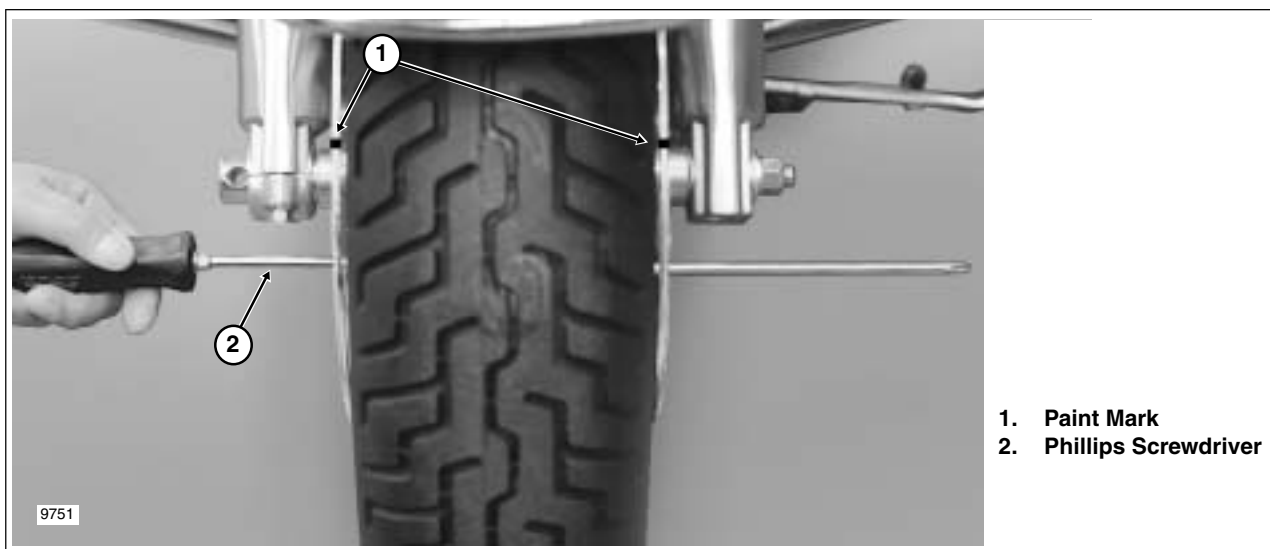


Figure 2. Perform Alignment Check

- Remove the front wheel. Remove both brake discs from hub.
- Place the inboard sides of the brake discs together. Be sure the stampings (minimum thickness, part number and location) on both brake discs are on the outboard side.
- Rotate discs as necessary until all vent holes are in alignment. Holding brake discs aligned, use a magic marker or paint pen to make a line across the edge of both brake discs.

NOTE

Even if the brake disc locations are swapped, the rider will not experience a reduction in brake noise unless the brake discs are aligned.

- Keeping the paint marks aligned, install brake discs to hub using **new** screws. Be sure that the former left side brake disc stamped P/N 44156-00 LEFT is installed on the right side of the hub (valve stem side), and the former right side brake disc stamped P/N 44136-00 RIGHT is installed on the left side of the hub.
- Verify that the paint marks on the edges of the brake discs are still aligned. A long Phillips screwdriver or straight piece of drill rod can be inserted straight through the vent holes of both the left and right brake discs when correctly installed. See Figure 2.

NOTE

If brake noise exists on a motorcycle where the brake discs have already been swapped, whether at the production or dealer level, swapping the brake disc locations a second time will have no beneficial effect. Please remember that Harley-Davidson uses the best brake pad friction material available and that it is completely normal to experience some brake noise.

- If damage or wear requires replacement of a brake disc, or if performing any service that requires removal of a brake disc, see step 1 to determine if the brake discs have already been swapped. If the brake disc locations have **not** been swapped, then proceed as follows:

- Right side: always using **new** screws, move the left side brake disc to the right side of the hub and install a **new** brake disc (P/N 44136-00) on the left side. Be sure that brake discs are properly aligned.
- Left side: always using **new** screws, move the right side brake disc to the left side of the hub and install a **new** brake disc (P/N 44156-00) on the right side. Be sure that brake discs are properly aligned.

NOTE

Wheel hubs are directional due to bearing installation and should not be reversed. Always be sure that the valve stem is on the right side of the hub after installation.

Credit Procedure

Complete a separate warranty claim for each vehicle serviced. Reference Service Bulletin M-1192A in the "Comments" or "Notes" section and be sure to include the VIN of the vehicle on which the service was performed. Fill in the rest of the claim as follows:

Claim Type*	MC
Event Problem Part Number	44156-00
Part Description	Left Brake Disc
Quantity	Leave Blank
Additional Part Number/Quantity/Description	3655A (10) TORX Screws
Labor Code	2437
Time	0.4 hr.
Condition Code	9110
Customer Concern Code	8103
* VIN requires verification of date of purchase to determine if vehicle is under warranty.	

Upon receipt of the properly completed claim, you will receive the labor credit shown above.