

10 – CARTRIDGE-BEARING BOTTOM BRACKETS

ABOUT THIS CHAPTER

Cartridge-bearing bottom brackets differ from adjustable-cup bottom brackets in the design of the bearings. The adjustable-cup bottom bracket design has cones, ball bearings, and cups that can all be separated from each other, and may potentially be individually replaced. In the case of cartridge bearings, there are ball bearings, but they are encased in a permanent assembly consisting of an inner and an outer bearing race. It is possible that this cartridge-bearing assembly can be separated from the rest of the bottom bracket, or that the cartridge bearings are also permanently integrated with the bottom-bracket spindle and a cylinder that encloses the entire structure.

A universal result of the cartridge-bearing design is that there is no adjustment of bearings. Additionally, the most common designs do not permit any service of the bearings, including cleaning, greasing, or replacing the parts. Therefore, when the bottom bracket develops symptoms of tight or loose bearings, the only repair is to replace the complete assembly. The cartridge-bearing bottom brackets that have cartridge bearings that can be separated from the spindle can sometimes be cleaned and greased, or the cartridge-bearing assemblies can be individually replaced.

There are two ways that cartridge-bearing bottom brackets are installed into the bottom-bracket shell. These are cartridge-bearing bottom brackets that thread into conventional threaded bottom-bracket shells, and there are cartridge-bearing bottom brackets that must be pressed into unique bottom-bracket shells that have no threads. The threaded type is most common, but there are a variety of threaded styles that require different service techniques and tools. The less-common types that press into the bottom-bracket shell also

vary in design. Additionally, these press-in varieties are becoming outdated, and there are limitations to parts and tool availability.

Cartridge-bearing bottom brackets are available with a variety of spindle types. Some cartridge-bearing bottom brackets have a classic square-taper spindle and can be used as a replacement for an adjustable-cup bottom bracket with the same spindle design. There are also cartridge-bearing bottom brackets that have cylindrical spindle ends with a splined engagement to the crank arms. These splined-spindle bottom brackets are made in three common configurations at the time of this writing, but there are also other spline configurations that are less common.

Sections

After the **GENERAL INFORMATION** section, the sections in this chapter are organized by the method of attachment of the bottom bracket to the bottom-bracket shell.

The second section in this chapter, **THREAD-IN BOTTOM BRACKETS**, covers the cartridge-bearing bottom brackets that thread into the frame. This section is further divided by the degree to which the bottom-bracket spindle is integrated into the assembly. The thread-in bottom brackets that have a spindle that is integrated with any other part of the assembly are covered in one procedure (see figure 10.1), and then the thread-in bottom brackets that have a separate spindle (can be completely separated from the bearing) are covered in another procedure.

Within each group of thread-in cartridge bottom brackets, variations in procedure for different brands and models are noted by specific comments, rather than by creating a unique procedure for each brand and model.

The last section in this chapter, **PRESS-IN BOTTOM BRACKETS**, covers those cartridge-bearing bottom



10.1 A typical two-part cartridge-bearing bottom bracket, consisting of a cup and a main assembly. There is a three-part variety which has a main assembly and two separate cups.

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