Alternative Cam Timing for 2002-2010 Ford 6.0 & 6.4L Diesel Engines

The AERA Technical Committee offers the following information regarding an alternative cam timing alternative for 2002-2010 Ford 6.0 & 6.4L diesel engines. It’s been reported the availability of the special tool 303-772 has not always been timely and often back-ordered.

If tooling is unavailable, an alternative method may be employed to properly locate camshaft and crankshaft timing gears for these engines. Reference the following diagrams and text to assist in engine assembly.
These camshaft gears feature a .236” (5.994 MM) drilled hole in the cam gear which is located directly 180° opposite the timing gear “marked tooth” (See Figure 2). That hole, aligns perfectly with a similarly sized hole that has been drilled in the cylinder block. Inserting a new Letter B sized drill bit into those holes will correctly position the crankshaft and camshaft timing gear marks as shown in Figure 3 below.

Figure 3. Letter B Drill Installed