

AR224 Billet Timing Chain Cover



This billet cover will fit under a Mopar Performance aluminum water pump housing without the need for any spacers. A factory cast iron water pump housing will need some minor grinding in order to clear this cover. Meziere water pumps usually fit without any modification. ATI, Fluidampr, OEM and BHJ dampers all fit this cover without any modifications.

The TDC pointer is adjustable. Double check TDC on your engine since aftermarket parts such as harmonic dampers can vary slightly from factory specifications. The screws used for the cover use a Torx T-25 driver. Front cover o-rings are standard Parker 2-041 and 2-044 sizes and can be ordered from any industrial supplier.

The front seal needs to be installed so it is flush with the lip on the outside of the cover similar to how a factory small block seal is installed. Follow the factory service manual instructions for installing the front seal. Mopar part number 3830109 can be used when the seal needs to be replaced.



A cover with a slotted opening is provided so the engine builder can easily set camshaft end play. Mount a dial indicator as shown in the picture with the plunger resting on the camshaft nose or the timing gear. Pry the camshaft back and forth and measure the endplay.

The optional AR281 cam button is designed to control the end play of a roller camshaft in any Mopar big block or 426 Hemi engine. The AR281 cam button has an outer diameter of 0.749 and is designed to be a tap fit into a Cloyes or Pro Gear timing gear. The button assembly consists of a nose and a base with a three part Timken bearing assembly in the middle. Overall height is .645 in.



The endplay specification is typically 0.005 to 0.010 inches for most camshafts. The AR281 button is designed to have 0.010 inches of endplay when used with a 0.032 thick timing chain gasket. Timing chain gaskets are available from Superformance Products in thicknesses ranging from 0.022 to 0.062.

The AR281 button can also be machined down for additional clearance if required. The nose portion of the button is heat treated so grinding would be the preferred method to remove material.