

ADJUSTABLE TIMING GEAR INSTALLATION GUIDE

This timing gear has been re-drilled at plus and minus 1, 2 and 3 degree intervals. This is 1, 2 and 3 degrees at the camshaft which is doubled at the crankshaft and that is where the reading is always taken from so you have the option of adjusting your cam timing from 6 degrees retarded to 6 degrees advanced, a sweep of 12 degrees in 2 degree increments.

Installation is simple.

1. Be sure to set your engine at TDC by the timing marks on the cam gear.
2. Take off the timing cover, loosen the cam gear bolt, take the tension off your belt tensioner and slide your cam gear off. If you pinch the timing belt at the tensioner and are careful not to move the belt, you may get away without re-timing the engine but it's always safer to re-time any time you take the belt off.
3. When you have the belt off, it's generally a good idea to check its condition and the condition of the tensioner and replace one or both if necessary.
4. If you have a B21/23 you'll have a tin backing plate on the timing gear. Leave that on the cam. It will make it easier to find TDC with everything back in place. If you have a B230, you will use the coinciding notch on the gear to approximate TDC because you may not have a tin backing plate. The gear settings are marked in felt pen. Choose the setting you wish to use and place it on the cam. Provided nothing has moved, the belt will slide back on. The cam will adjust slightly once the belt tensioner is released. Remember, you do not move the cam at any time, you just move the gear.
5. Choosing what amount of advance or retard you wish to run is entirely up to you and the configuration of your engine. We've made it simple. Turning the gear clockwise on the cam will retard the cam and turning it counterclockwise will advance the cam. This goes against conventional thought but *remember you are not turning the cam, just the gear*. The gears are drilled this way intentionally to make the thought process easier. Leave the camshaft in its original TDC position. Move the gear to reach the desired setting Remember... **Clockwise retards. Counterclockwise advances.**