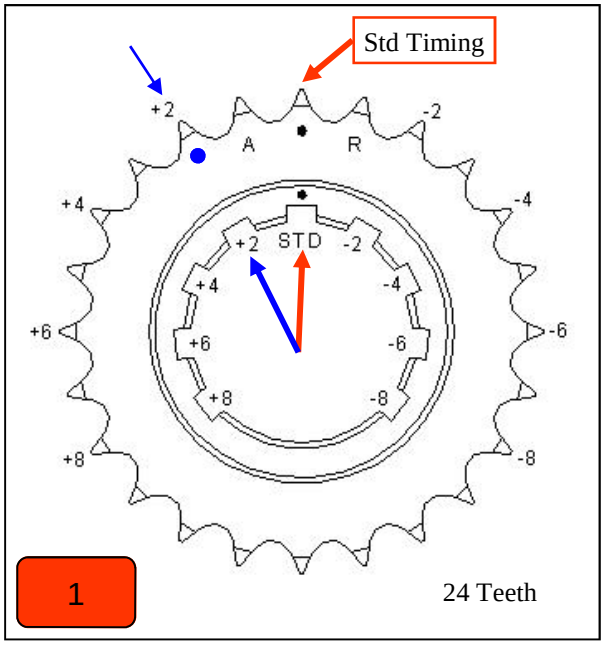
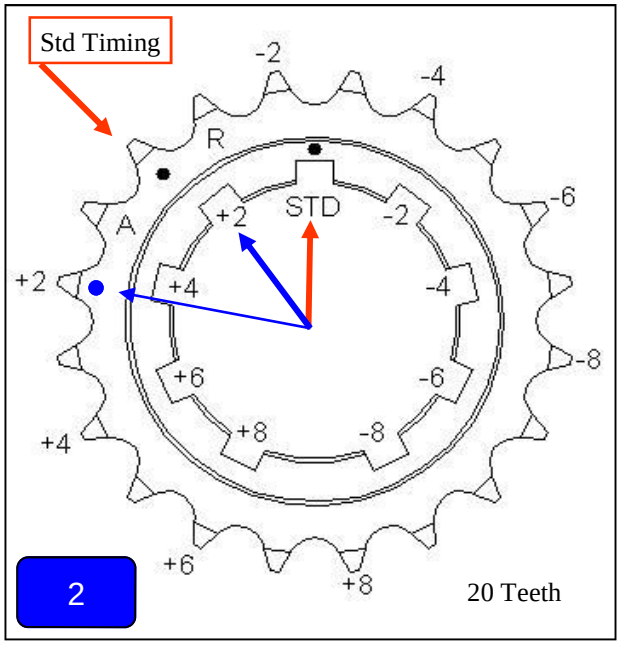
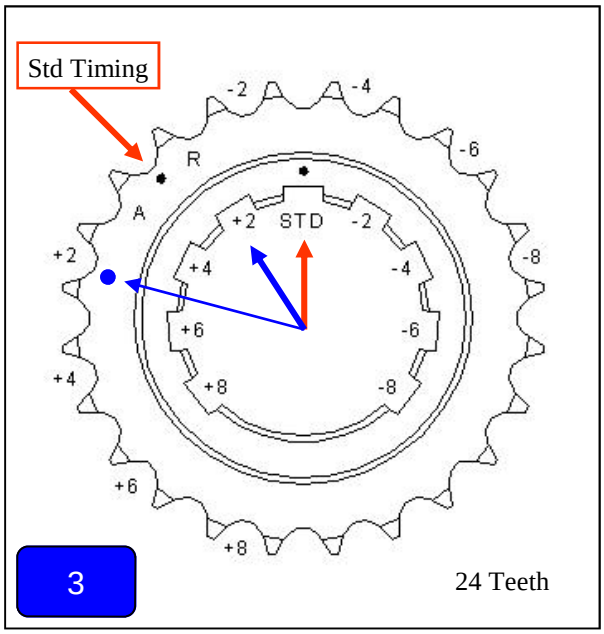
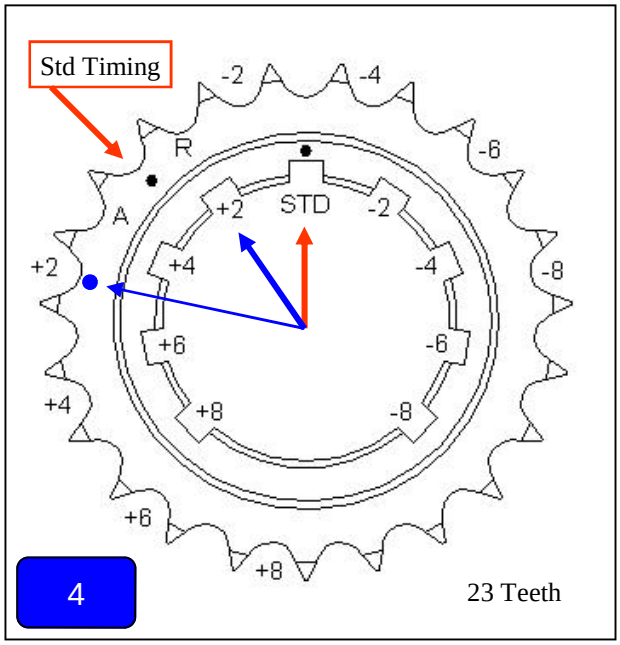


Straight up Crank Timing Example Box 1



Offset Crank Timing Example Box 2 3 4





Straight up Crank Timing & Offset Crank Timing
Refer to manufacturers manual for exact sprocket alignment.

The above pictures demonstrates some of the different styles manufacturers use for their respective sprocket alignment All Rollmaster crank sprockets are identified with a dot nominating the standard keyway and the appropriate tooth or root to time from for standard sprocket alignment. Cam sprockets are also marked on the appropriate cam tooth or root to align with the crank sprocket. To understand which timing tooth or root to use for advanced or retarded timing just duplicate the standard relationship according to the advance or retard keyway you wish to use for the timing set you are about to install. The examples shown indicate standard cam timing red arrows and + 2 degree advance blue arrows.

Box 1 indicates standard crank key red arrow is exactly under the timing tooth above it and the + 2 degree advance keyway is the to right Using the standard timing keyway and the black standard timing dot align through an imaginary centre line with the camshaft sprocket and its timing dot usually facing each other. If you were to use the + 2 advance keyway blue arrow then you would disregard the black standard timing dot and align using the blue timing dot with the camshaft sprocket. We are advancing the crank sprockets teeth to advance the camshafts valve timing, we are not advancing the crankshaft.

The same condition occurs for offset timed sprocket marks. I suggest marking the crank sprocket with a felt pen indicating the timing tooth or root you are timing from if advancing or retarding the valve timing according to the keyway used. At all times disregard the cranks standard timing tooth mark if using advance or retard keyways and duplicate the timing mark on the tooth or root according to the standard variance if offset. All Rollmaster crank keys are at 2 degree increments resulting in a one degree movement at the camshaft Adv or Rtd. Keyways are positioned at 2, 4, 6, 8 degrees Adv or Rtd.