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MRA

Magneto Onboard Retard

NOTE: If pre-installed on a new magneto, this paper provided for reference only.

This product will make starting easier on fixed-timing (non-moving) magnetos, by aiding in preventing kick-backs and backfires. Use p/n MRA-R if cam turns clockwise, or MRA-G if counter-clockwise rotation. Points p/n's are P5M-R or P5M-L respectively.

Install:

Remove original points, replace with modified set, install eccentric shaft. With cam follower set atop cam lobe, turn shaft; note that the points gap changes. Stop when gap is largest, set points .019 inch (0.5 mm). Install new gasket and cap. O-ring(s) need to be fitted to: a) seal to cap; b) hold follower block from floating up. Since dimensions vary, you will need to determine what o-ring(s) to use to: a) seal to cap; b) hold follower block from floating up. Use one small, or, 1 large, or, 2 small, or, 1 large with small on top; this is min. to max. thickness order. Install cap and thick gasket with o-ring(s) in place (shift cap so shaft does not rub). By pushing down on cap with a few pounds pressure, you should see o-ring and gasket contact at approx. the same time. If not, change o-ring stack. While holding cap down, tighten screws hand-tight. Screws will need an additional 1/8 turn more tightening.

Next, install lever with set screw against flat, magnet facing down, and adjust height so that tip of magnet contacts side of cap screw. Magnet will help keep lever in advanced position. Operate lever; if o-rings are too tight, they may squish out of place, and lever will spring back rather than "stick" to the cap screw. Tighten set screw, make sure it is well-seated, square to flat. We recommend removing lever when removing cap. Re-time your magneto in the advance position, timing may have shifted.

Operate:

For full retard, flip lever all the way to side of cap. This will yield 10 degrees of mag retard, giving you 20 degrees of flywheel retard.