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## CMY-13R1-PCT

## High Precision Cam Chain Tensioner Yamaha R1 (2009-2014)

### PARTS LIST

- Cam Chain Tensioner 1

**NOTE:** You will need a replacement timing cover gasket and cam chain tensioner gasket from your local Yamaha dealer.

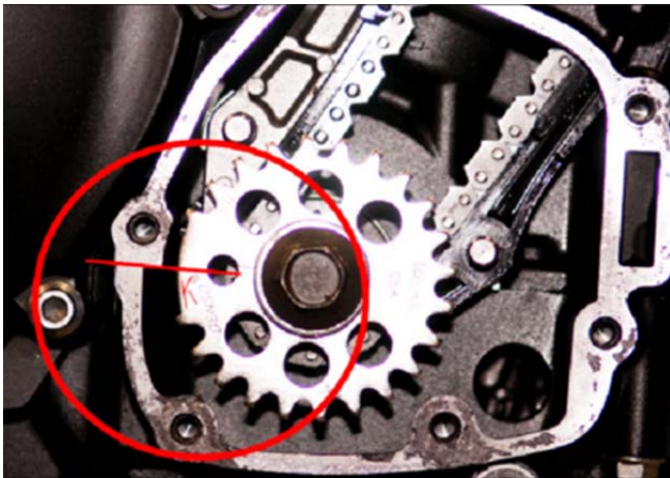
<<<<INSTALLATION OF THIS PRODUCT SHOULD BE PERFORMED BY A **QUALIFIED TECHNICIAN** >>>>  
<<<<<<PLEASE READ INSTRUCTIONS CAREFULLY BEFORE BEGINNING INSTALLATION >>>>>>

**NOTE:** Best installation is achieved when the motor is removed from the chassis. Installation may be done while the motor remains in the chassis.

**THIS IS A CRITICAL MECHANICAL PART** that should be installed by a qualified technician. For more specific mechanical or removal instructions you may refer to the Yamaha Service Manual.

**DO NOT TURN THE MOTOR WITHOUT A TENSIONER INSTALLED.**

- 1) Remove the timing cover, aka pickup rotor cover, on the right side of the bike.
- 2) Rotate the timing sprocket, aka pickup rotor, in engine's normal rotation (clockwise) so the indexing line on the sprocket (marked with a K) is horizontally in line with the gap in the mating surface. **PHOTO 1**



**PHOTO 1**

- 3) Remove the stock cam chain tensioner by first using a screw driver to place light pressure to the rear chain guide, being careful to not scratch any case surfaces **PHOTO 2**. Keep bolts for re-installation.



**PHOTO 2**

- 4) Install the Graves Cam Chain Tensioner with a recommended new cam chain tensioner gasket. Tighten the mounting bolts to 7.2ft-lbs/10Nm.
- 5) While holding enough pressure on the crank shaft without rotating the motor forward, adjust the cam chain tensioner bolt until you have less than 3 degrees of forward to back crank movement without cam shaft movement (you feel tension on the chain spinning the engine.)
- 6) Clean the gasket surface of the crankcase and pickup rotor cover. Re-install the timing cover with a recommended new OEM gasket or YEC kit gasket. Torque the mounting bolts to 8.7ft-lbs/12Nm.
- 7) When starting the bike, listen for any new or loud noises. If there are any, the cam chain tensioner may not be properly adjusted. Shut off the engine immediately and follow the instructions again.

The purchaser releases Graves Motorsports, Inc from all liabilities pertaining to the installation and use of purchased parts. Purchaser recognizes that any alteration and/or modifications to the vehicle may increase the risk of injury or accident. **This product is intended for Closed Course Competition Use Only** and may render the vehicle illegal for use on public roads.