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CPC QUICK SHIFT/QUICK ADJUST CAM ARMS

Patent #5,795,255 under license agreement with John P. Hooper

Thank you for purchasing the highest quality and the highest technological advanced cam arm in the industry. These cam arms are specifically designed to fit 2004 and newer Arctic Cat drive clutches using the set screw design where the cam arm is locked into the pivot bolt with a set screw. You can now adjust the weight of these cam arms by simply adding or subtracting set screws. The accessibility of this adjustment can be made without the removal of the cam arms or by removing your drive belt. Each set of CPC Quick Shift/Quick Adjust cam arms can be loaded up with set screws to increase the weight up to 8+ grams. Please follow the instructions below to get the most performance out of this product.

Set screws come in the following sizes and weights.

1/4 X 1/4	.75 grams	1/4 X 3/8	1.34 grams
1/4 X 1/2	1.98 grams	1/4 X 5/8	2.50 grams
1/4 X 3/4	3.10 grams	1/4 X 1 inch	4.15 grams

- #1. When first installing cam arm to pivot bolt, apply a drop of Loctite 620 green retaining compound (not included) inside of cam arm and onto the small 8-32 set screw, then tighten securely. If you need to remove the cam arm, apply a little heat with a torch to soften Loctite.
- #2. Installing more set screws will decrease RPM's.
- #3. Removing set screws will increase RPM's.
- #4. Engagement RPM's is best achieved by installing a different tension drive spring.
- #5. Installing set screws at the tip of the cam arm (toe loading) will give improved shift out at high vehicle speed (generically speaking over 75 mph). Note: All in IT series cam arms, the set screws bottom out 1/2 inch from the tip. Tip loading can only be accomplished by inserting set screw into the tip of the cam arm before it is installed into the drive clutch. All TM series can be tip loaded by screwing them to the end.
- #6. If no set screw is installed at the tip of the cam arm (clip tip), then improved low speed performance will be achieved at the expense of decreased performance at high vehicle speed (just the opposite of #5)
- #7. Best clutching is achieved by knowing where your power peak is and by adding as much weight as you can without a loss of RPM's at full shift out.
- #8. If you have difficulty installing the set screws, you should try cleaning the treads with a gun cleaning brush and solvent, then clean with compressed air. Never use a tap or it will break off in cam arm because cam arm is heat treated.
- #9. For additional information, a Clutch Tuning Handbook can be purchased for \$19.95 from Cutler's Performance Center Inc. (CPC) by calling (801)224-5005 9:30 to 6:00 MST.

Safety:

- #1. Never run the motor without the clutch guard or hood open.
- #2. Make sure that each cam arm has the same length and number of set screws in order to keep the cam arms balanced.
- #3. Always use set screws with lock-tight compound on thread. If the set screws loose this compound then we require you to replace the set screws with new ones by ordering Part # CP-000-SSKT.
- #4. Always bottom out each set screw to prevent it from coming out. The lock-tight compound on the threads of each set screw is used as a precaution for safety reasons.
- #5. Safety is your responsibility. We encourage sound judgment when operating any equipment. Do not go faster than riding conditions permit. We recommend only expert riders use our products.