

REICHARD'S PERFORMANCE CENTER

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#4616 THUNDERCAT TUNING KIT INSTALLATION INSTRUCTIONS

1. Remove the primary clutch then remove the six bolts from the outer cap. Remove the original spring and weights.
2. Inspect the primary clutch weights, pins, rollers, and bushings for wear. Clean and replace any worn parts. Remove any shine from the clutch sheaves with a medium grade sandpaper then thoroughly clean the belt surfaces with lacquer thinner. Lube all moving parts with Comet Lube except the moveable sheave bushing and cap bushing.
3. Reassemble the primary clutch installing the new supplied gold primary spring and weights. The gold colored spring is the best setup for trail/lakes & radar runs. CAUTION: Do NOT over tighten weight bolts!! This will cause the clutch to bind. Each weight bolt nut should be just snugged up against the post.
4. Remove and disassemble the secondary clutch.
5. Clean and check all parts for wear, especially the nylon slider buttons and sheave bushings. If they show any wear replace them. Remove any shine from the clutch sheaves with a medium grade sandpaper then thoroughly clean the belt surfaces with lacquer thinner.
6. Adjust the belt shims in the center of the clutch so that the belt is 1/16" to 1/8" above the top of the sheaves.
7. Set the spring position to position #4.

Note: Proper shift RPM range is 8100-8250 The secondary clutch can be adjusted tighter or looser as necessary to achieve this RPM. The tighter the prewind the higher the RPM the sled will run at. This clutch kit has been tuned with a factory Arctic belt. Any other brand may cause a performance loss.

Gearing recommendations: Trail riding: Use stock gearing
Lakes: Use stock gearing
660-750 Drags: Use 23-40 gears

23 Tooth Gear RPC Part# 5186
40 Tooth Gear RPC Part# 5187

Jetting recommendations: Hard trail riding: Use stock jetting
Lakes/Drags: 420 main jets

Thanks and HANG ON!!