

# STRAIGHTLINE PERFORMANCE

2009-18 Ski-doo 600 E-Tech 0-3000ft  
121-216

**Parts included in Clutch Kit:**

1 Primary Spring: Gray (121-149)  
3 Ramps SP412 (121-125)  
1 Adjustable Pin Kit-Medium(121-139)  
1 Helix-SPI-20  
1 Secondary Spring (121-157)

**Setting:**

Ramp Position # 3  
Pin Weight: 17.5 Stock pipe, 22.5g with SPI Pipe  
Operating RPM – 8100-8300 stk. 8300-  
8400 W/SPI Pipe

The new QRS secondary clutch kit install.

1. Remove the chain case cover and un-bolt the top gear.
2. On the clutch side unbolt and remove the half moon keeper holding the jackshaft bearing into the chassis bearing support.
3. Place a screw driver or similar device in the bolt hole of the jackshaft from the chain case side and tap the entire jackshaft out. Have someone hold and lightly pull from the clutch side to completely remove the clutch and shaft assembly.
4. Use the Straightline helix and spring compressor to compress the helix. You may have to use light heat and an impact driver to remove the 4 stock bolts from the helix. After removing the helix install the plastic washer in the stock helix into the new SPI helix, and then install the spring. Be sure to lock tight the bolts back into the helix.
5. Re-install the clutch and jackshaft into the chassis; be sure not to loose the spacer behind the top sprocket. Bolt top gear back on and install bearing keeper support.
6. Remove primary clutch and install new spring and adjustable pin kit to proper specifications.
7. RPM's under acceleration will be 7900-8000 peak rpm's will be 8100-8300. It is not uncommon under **extremely** long pulls to see slightly higher rpm's.

This is a trail kit and designed to for all around use. If sled is under-revving at wide-open throttle, remove setscrews to achieve the next lower setting. If this sled over-revving install 1 gram at a time till desired rpm is achieved.



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