



M & M Sports Center, Inc.  
5824 US-131  
S. Boardman, MI 49680  
(231) 369-4300  
Fax (231) 369-4326  
email: [mandmsportscenter@gmail.com](mailto:mandmsportscenter@gmail.com)  
[www.formulax-1.com](http://www.formulax-1.com)

You have purchased one of the best overall top performance clutch setups.  
This kit includes  
Formula X-1 Helix  
Spring  
Spring spacer  
Retainer button  
Helix attaching screws qty 4  
Instructions

Because of the added engine braking, it is strongly recommended that the track be equipped with studs. Before installing the clutch kit, it is suggested that clutch alignment be checked and if needed, adjusted. From our past experience we have seen several of the Procross chassis where the crank shaft vs. the jackshaft are not in alignment, both horizontally and vertically. Any misalignment should be corrected for optimum belt life. It is important for proper balance to mark the clutch sheaves before disassembling the clutch as they are not marked from the factory.

Remove the secondary from the sled. Remove the retaining button.  
Disassemble the secondary as per the Arctic Service Manual. A time saving trick, while the secondary is compressed in the disassembly tool, instead of removing the four helix mounting screws, drill the four helix mounting screw heads off using an 11/32" drill bit. The screws are Loctited in place and can be very difficult to remove, so it is much easier to just drill the heads off. You will be able to extract the remaining screws by heating the screw and using pliers. We have supplied four high quality screws as replacements. Remove all spring spacers and retain them for reassembly. You will not reuse the shift limiting spacer, plastic ramps and screws.

Reuse the (usually two) spring washers, one in the fixed sheave, one on the helix. Install the supplied spring retainer spacer into the fixed sheave on top of the spring washer, then install the supplied spring, making sure the spring fits into the spacer cup. If this kit is going into a mountain sled, or one with a low gear ratio, do not install the spring washer in the helix. Next, install the helix. Do not use the shift limiting spacer as the rollers will bottom out in the cam at full shift. Install the supplied helix and reassemble the secondary using the spring compressor per the Arctic Cat Service Manual.

From the original retaining button, transfer the o-ring, steel washer(s) and plastic washer, to the supplied retainer button.

Reinstall the secondary per the Arctic Cat Service Manual using the supplied retainer button.