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**IMPORTANT MESSAGE**



**SAFETY  
SYMBOL**

THIS SYMBOL OF SAFETY WILL ALERT YOU TO THE POSSIBILITY OF DANGER. CAREFULLY READ EACH MESSAGE THAT FOLLOWS THE SAFETY SYMBOL.

**COMET**  
**102C-108C-108EXP-108 4-PRO**  
**CLUTCH**  
**BASIC INSTRUCTIONS FOR**  
**DISASSEMBLY AND ASSEMBLY**



**CAUTION!** Use care when disassembling cover – hold cover in place until all bolts are removed, then gradually ease cover off.



**INSTALLATION TO BE PERFORMED BY AUTHORIZED COMET® DISTRIBUTORS OR DEALERS ONLY.**



**READ CAREFULLY: FAILURE TO COMPLY WITH THE PROCEDURES HEREIN WILL VOID WARRANTY.**



**DANGER! DON'T OPERATE ENGINE ABOVE 9000 R.P.M. NEVER OPERATE ENGINE WITHOUT BELT AND BELT GUARD IN PLACE. RACING APPLICATIONS AND/OR DISREGARD OF WARNINGS WILL RESULT IN TOTAL DISCLAIM OF WARRANTY OR ANY OTHER LIABILITY BY COMET® INDUSTRIES.**

## DISASSEMBLY

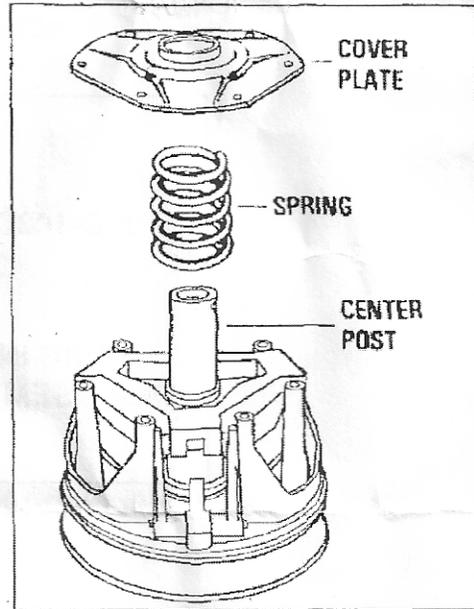
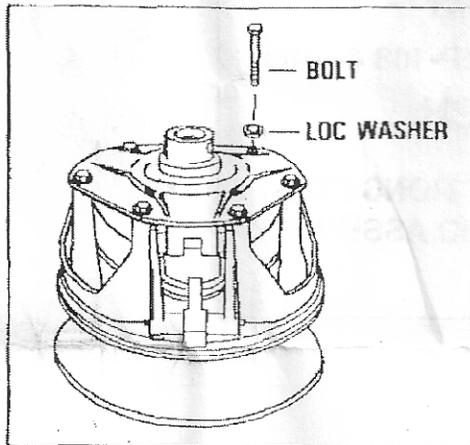
### STEP #1: DISASSEMBLE COVER PLATE AND SPRING

**NOTE:** Before disassembly, mark cover, spider and movable and reassemble in the same order as disassembled

1. Remove Bolts\* and Loc Washers\*.  
\*(6)-102C/108 EXP, (8)-108 4-PRO.
3. Remove Spring from Center Post of Fixed Sheave.

**⚠ CAUTION! SPRING IS UNDER TENSION!**

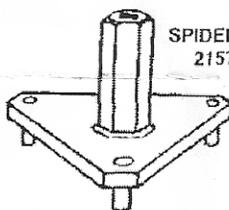
2. Hold Cover Plate in place until all Bolts are removed, and gradually ease Cover Plate Off



### STEP #2: SPIDER REMOVAL PROCEDURE

1. The Spider assembly is screwed onto the Clutch Post. Loctite used to help retain the Spider on Clutch Post as well as tightness resulting from normal operation of the Drive Clutch can make Spider removal a real chore. Always use the COMET "Spider Tool" to loosen and retighten the Spider assembly.

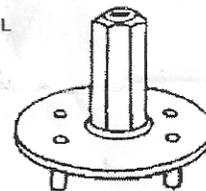
SPIDER TOOL COMPLETE  
213966A



TAPERED HALF  
SPIDER TOOL  
213965A



SPIDER TOOL  
217222A  
(108 4-PRO)

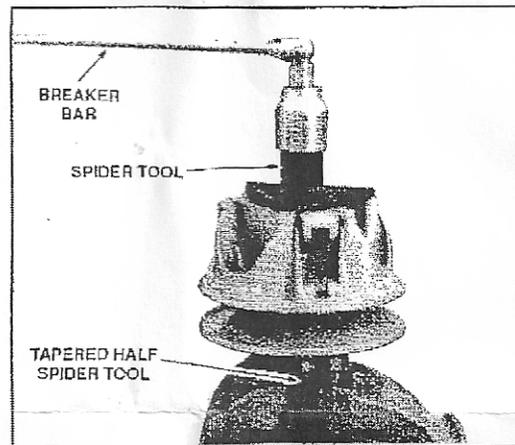
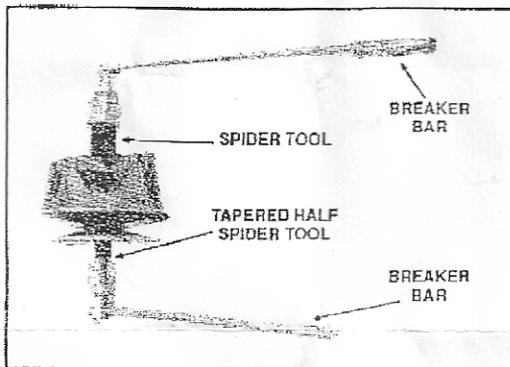


**⚠ CAUTION!** If these tools are not available, use extreme care in loosening the Spider from the Clutch Post. **DO NOT** use a hammer or pound with any tool as the risk of fracturing or stressing the Spider is too great. The Spider Tool has a tapered half, much like the Crank Shaft end on most snowmobiles. As the photos indicate, this

portion is simply attached to the clutch via the mounting bolt. Tighten this portion as you would the clutch to the crank shaft. As the photos further indicate you can then use either a vise to hold this portion, as well as the clutch, or use a large Breaker Bar with 1-1/4" Socket while the Spider is loosened. This tool can be used for all 102C's except 209002A and 209003A, and specifically for all 108C's. Spiders have right hand threads.

2. To gain relief from the holding power of the Loctite on Spider's threads, a small amount of heat may be applied to center of hub area of the Spider Casting.

**⚠ CAUTION:** Only a small amount of heat may be applied! Serious damage to the Casting, Post and Spider components will result if excessive heat is applied. Insert steel extensions into or over the Grunt Tool handles if added leverage is required for Spider's removal.



**STEP #1:** Check Spider fit in Movable Sheave Assembly.

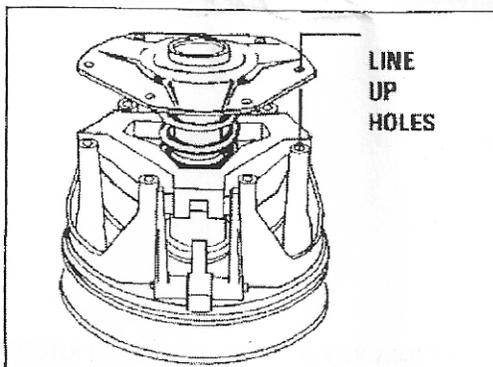
**STEP #2:** Clean Spider threads and Fixed Post threads. Set movable in place on Fixed Post.

**STEP #3:** Install desired number of Spacers #203150A - 102C or #216350A - 108C. Apply Loctite #206950A to Post threads. (Be sure BELT SPACERS #207398A - 102C or #213876A (108C - 1987) or #214393 (ALL 108's - 1988-97) are installed if applicable.)

**STEP #4:** Screw Spider into place and tighten with COMET "SPIDER TOOL" to 250 ft./lbs.

#### REASSEMBLE SPRING AND COVER PLATE

**NOTE:** Before reassembling Cover Plate, check Crosshole (if applicable) for burrs that may have been caused during Spider removal.



**STEP #5:**

Once Spring is installed, reposition Cover Plate over Spring . . . line up holes on Cover Plate with holes of Movable Sheave as shown.

**STEP #6:**

Push cover down far enough to install cover bolts. Installation of two bolts across from each other first aids in this task. Torque to 135 in./lbs

**⚠ CAUTION!** After installation, compress Clutch a few times to check freedom of movement.