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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**  
INSTALLATION INSTRUCTIONS  
FOR ARMS AND SPRINGS



**CAUTION!** When used to replace Cam Arms and Spring, use care when disassembling Cover - hold cover in place until all bolts are removed, then gradually ease cover off. See page 3 - Step #4 of this manual



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



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



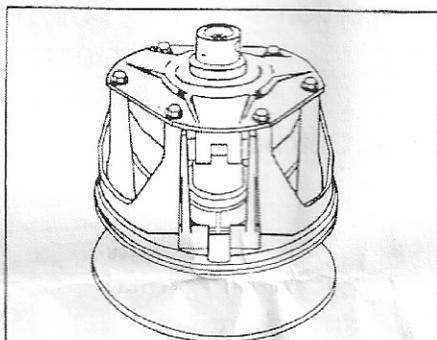
**DANGER! DON'T OPERATE ENGINE ABOVE 9000 R.P.M. NEVER OPERATE ENGINE WITHOUT BELT AND BELT GUARD IN PLACE. RACING APPLICATIONS AND/OR DISREGARD OF WARNINGS WILL RESULT IN TOTAL DISCLAIM OF WARRANTY OR ANY OTHER LIABILITY BY COMET.**



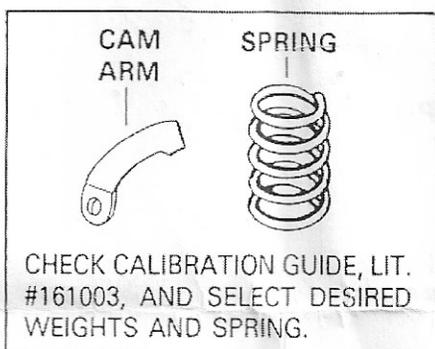
**LOC NUTS MUST NOT BE REAPPLIED FOR A THIRD TIME. ALWAYS REPLACE AFTER USE IN TWO INSTALLATIONS. ORDERING INFORMATION ON PAGE 2 OF THIS MANUAL.**

## IMPORTANT

BEFORE PROCEEDING WITH INSTALLATION INSTRUCTIONS, CHECK THE FOLLOWING:



INSPECT APPEARANCE OF 102C-108C-108 EXP-108 4-PRO IN GENERAL FOR SIGNS OF SHIPPING DAMAGE, ETC.



### CHECK BOLT KIT

CHECK BOLT KIT\* INCLUDED IN CLUTCH TO MAKE SURE YOU HAVE ALL THE HARDWARE.

-  — WASHER  
(6) 102C-108C-108 EXP  
(8) 108 4-PRO
-  — LOC NUT  
(3) 102C-108C-108 EXP  
(4) 108 4-PRO
-  — ARM PIVOT BOLT  
(3) 102C-108C-108 EXP  
(4) 108 4-PRO

\*TO REORDER BOLT KITS:

ORDER NO. 207869A (102C & 108C)

ORDER NO. 216349A (108 EXP -1993 & UP)

ORDER NO. 217855 (108 4-PRO)



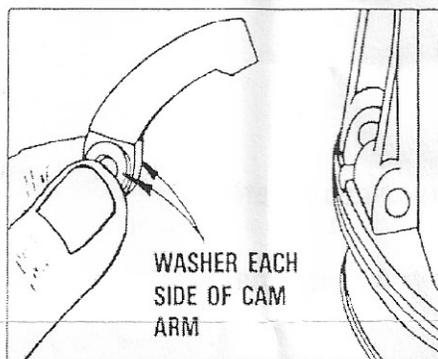
### CAUTION!

LOC NUTS MUST NOT BE REAPPLIED A THIRD TIME. ALWAYS REPLACE AFTER USE IN TWO INSTALLATIONS. ORDER LOC NUT SERVICE KIT NO. 207953A FOR 102C/108C, ORDER NO. 212670A FOR 108 EXP. KIT INCLUDES (3) LOC NUTS AS NEEDED PER ASSEMBLY.

## INSTALLATION OF CAM ARMS AND SPRING

### 102C — 108C MODELS

#### STEP #1

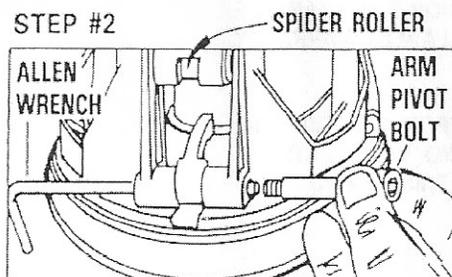


 Mark cover and moveable before removing cover. Reassemble in same orientation.

#### STEP #1:

Place an Arm Washer on each side of the Arm Pivot Hub. Using your left hand and index finger, hold washers and arm together. LEFT HAND IS USED BECAUSE THE ARM BOLT MUST BE INSERTED FROM RIGHT TO LEFT.

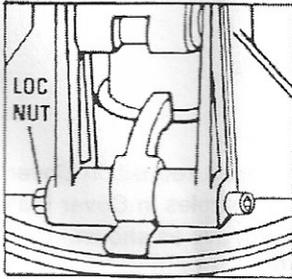
#### STEP #2



#### STEP #2:

Insert Arm in the Clutch Movable Sheave, making sure that the tip of the Arm is inside under the Spider Roller. Select an Arm Pivot Bolt and insert it from RIGHT to LEFT (an Allen Wrench may be used to make this easier to locate washer and arm).

STEP #3



STEP #3

Select a Loc Nut and screw onto bolt. Tighten Loc Nut, being careful not to bind Spider Buttons against Towers. (See note below.)

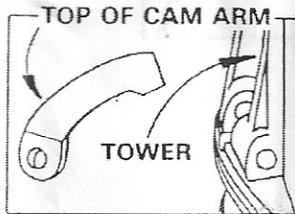


**BEFORE CONTINUING INSTALLATION...**

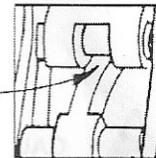
**IMPORTANT!** AFTER ALL CAM ARMS ARE INSTALLED PER INSTRUCTIONS... BE CERTAIN THAT THE MOVABLE SHEAVE ASSEMBLY MOVES FREELY THROUGH ITS FULL TRAVEL BEFORE INSTALLING THE SPRING. IN THE EVENT THE MOVABLE SHEAVE IS RESTRICTED - IT MAY BE NECESSARY TO LOOSEN THE LOC NUT SLIGHTLY (102C-108C ONLY).

**IMPORTANT! LUBRICATION INSTRUCTIONS**

THESE INSTRUCTIONS MUST BE FOLLOWED ON A NEW ASSEMBLY AND/OR WHEN REPLACING CAM ARMS:

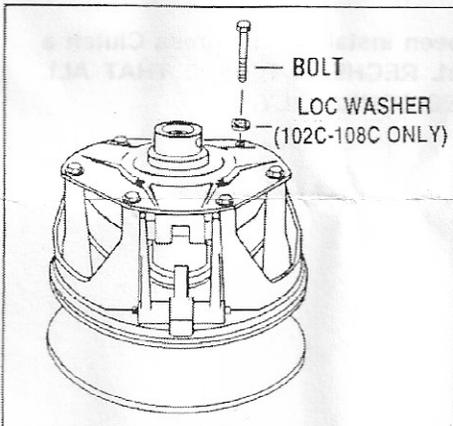


Lubricate Towers and top of Cam Arms (Roller Contact Area) with Comet GP730A (Dry Film Molybde or equivalent).



CAM ARMS - ROLLER CONTACT AREA

STEP #4



STEP #4:

Remove Bolts and Loc Washers (102C-108C ONLY).

Remove Cover Plate to install Spring.

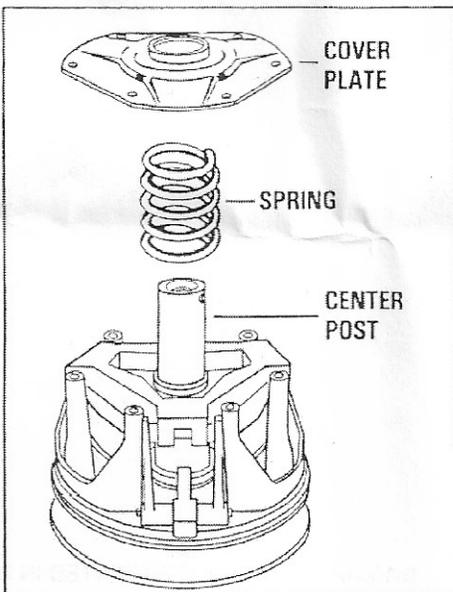


**CAUTION!** WHEN USING THESE INSTRUCTIONS TO REPLACE CAM ARMS AND SPRING...

SPRING IS UNDER TENSION

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

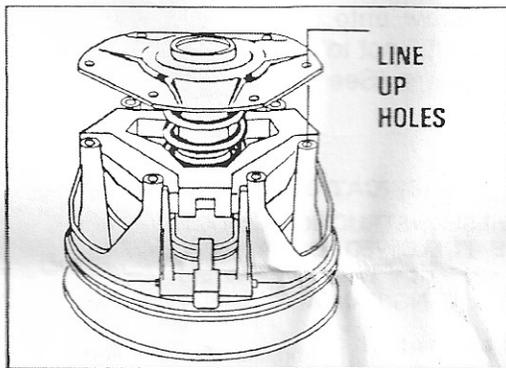
STEP #5



STEP #5:

Install Spring over Center Post of Fixed Sheave.

## STEP #6



### STEP #6:

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

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



**CAUTION!** After Arms and Springs have been installed, compress Clutch a few times to check freedom of movement. **RECHECK TO SEE THAT ALL ARMS AND SPRING HAVE BEEN INSTALLED CORRECTLY.**