

ADJUSTMENT OF THE VAC-U-TORQ CLUTCH BRAKE

READ CAREFULLY !

THE UNIT SHOULD <u>NEVER</u> BE ADJUSTED UNLESS THE UNIT FAILS TO CYCLE. ADJUSTMENT BEFORE THIS HAPPENS WILL RESULT IN TOO NARROW A GAP BETWEEN THE DISC AND FRICTION MATERIAL. MAKING AN ADJUSTMENT WHEN NOT NEEDED WILL RESULT IN OVERHEATING AND DESTRUCTION OF THE CLUTCH BRAKE.

IF THE UNIT WILL NOT INDEX AND AT THE SAME TIME THE VACUUM GAUGE DROPS BELOW 10" HG, THEN AN ADJUSTMENT MAY BE MADE. THE FIRST TIME YOU TRY AN ADJUSTMENT WE SUGGEST THAT YOU CALL AND LET US HELP YOU OVER THE PHONE.

THE IDEA OF AN ADJUSTMENT IS TO BRING EITHER THE CLUTCH DISC, BRAKE DISC, OR BOTH CLOSER TO THE FRICTION MATERIAL. OVER TIME, IT IS THE FRICTION MATERIAL THAT WEARS DOWN SO MUCH THAT THE GAP BETWEEN THE DISC AND IT'S CORRESPONDING FRICTION RING BECOMES SO GREAT THAT INSUFFICIENT VACUUM BUILD UP RESULTS. WHEN THIS HAPPENS, THE DISC WILL NOT "PULL IN" AND CONTACT THE FRICTION MATERIAL. THIS IS WHY THE CLUTCH OR BRAKE WILL NOT ENGAGE. THE VACUUM READING DROP IS DUE TO THE LEAK AROUND THE EDGE OF THIS "UN-ENGAGED" DISC.

WHEN NEW, THE GAP BETWEEN THE DISCS AND FRICTION MATERIAL IS 0.001"-0.005". FAILURE WILL OCCUR AT A GAP OF APPROXIMATELY 0.012". BY REMOVING 0.003"-0.005" OF SHIM THE GAP IS REDUCED TO UNDER 0.010" WHICH IS SUFFICIENT FOR GOOD OPERATION. REMOVING TOO MUCH SHIM OR REMOVING SHIM ON A CLUTCH BRAKE THAT DOES NOT NEED ADJUSTMENT, WILL BRING THE DISCS TOO CLOSE TO THE FRICTION RINGS AND WILL CAUSE OVERHEATING AND COMPLETE DESTRUCTION OF THE DISCS.

REMEMBER:

ADJUST ONLY ONE SIDE AT A TIME

NEVER REUSE A SNAP RING

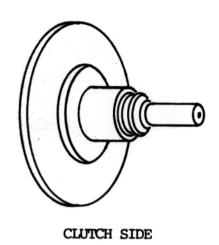
BE SURE BELLEVILLE WASHERS ARE INSTALLED PROPERLY

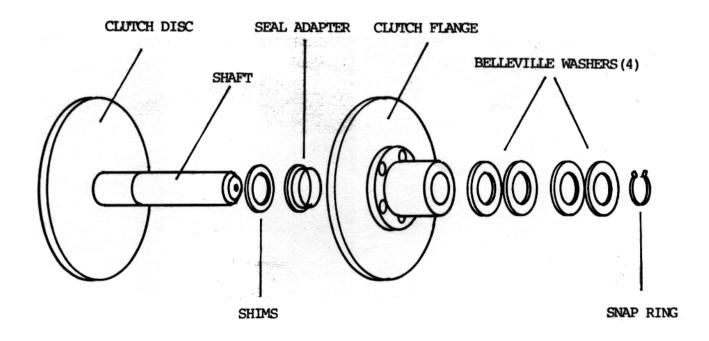
AFTER ADJUSTMENT THE SHAFT AND THE CLUTCH FLYWHEEL

SHOULD ROTATE FREELY



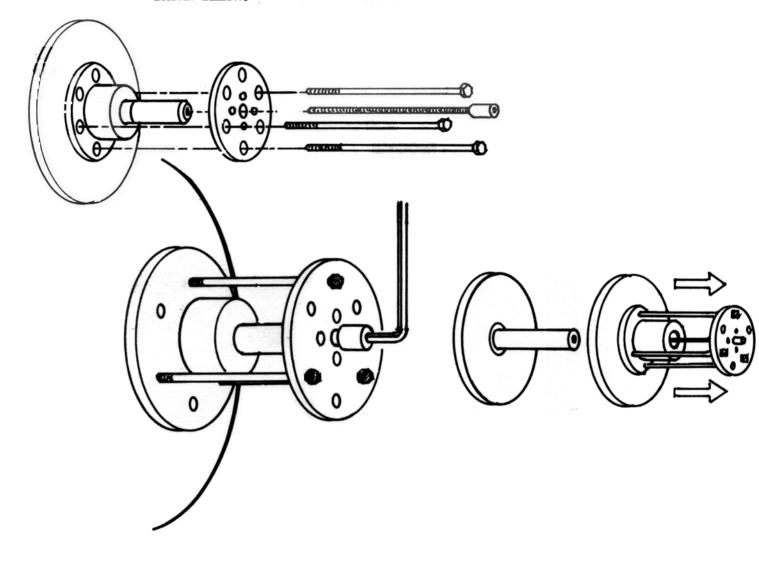
ADJUSTMENT OF CLUTCH





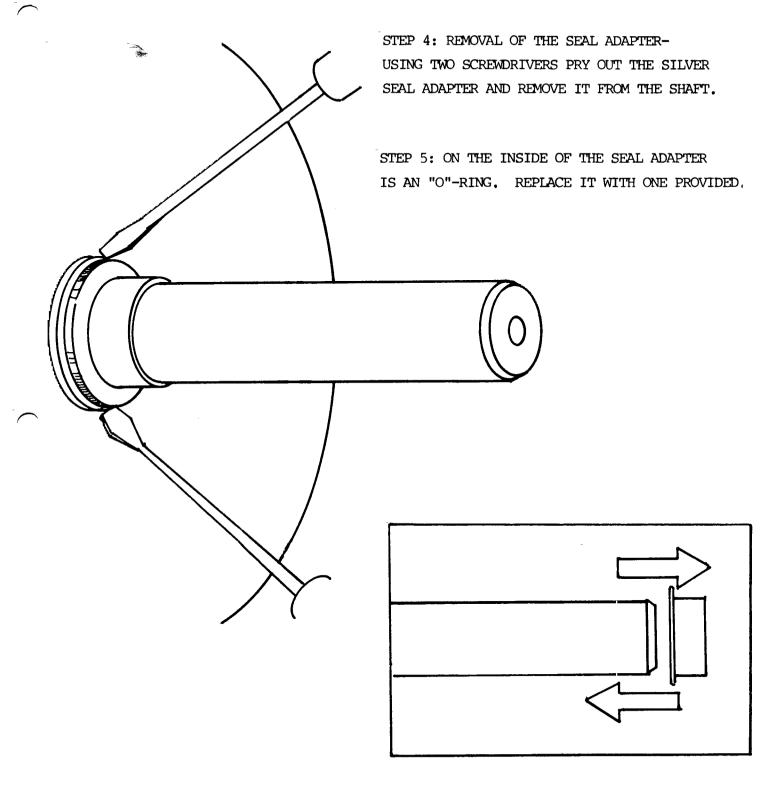
STEP 1: REMOVAL OF SNAP RING- WITH A HAMMER AND SCREWDRIVER POUND THE SNAP RING OUT OF ITS GROOVE. REMOVE. STEP 2: REMOVE THE (4) BELLEVILLE WASHERS.

STEP 3: REMOVAL OF THE CLUTCH FLANGE- USING THE TOOL PROVIDED SCREW THE (3) BOLTS TIGHT INTO THE HOLES IN THE INPUT HUB AS SHOWN BELOW.

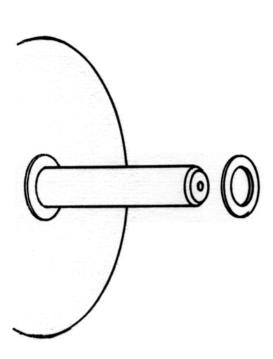


BY ROTATING THE CENTER BOLT CLOCKWISE THE CLUTCH FLANGE SHOULD NOW SLIDE OFF THE SHAFT. REMOVE IT AND DO NOT DROP IT.







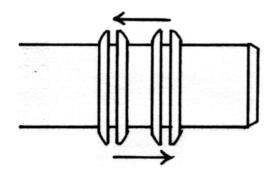


STEP 6: ONCE THE SEAL ADAPTER IS REMOVED THE SHIMS WILL BE EXPOSED. SLIDE OUT THE FIRST SHIM. DO NOT REMOVE MORE THAN ONE. THIS IS A 0.003" ADJUSTMENT.

STEP 7: REPLACE THE SEAL ADAPTER. IT MUST GO ON THE SHAFT AS SHOWN ON THE BOTTOM OF PAGE -3-.

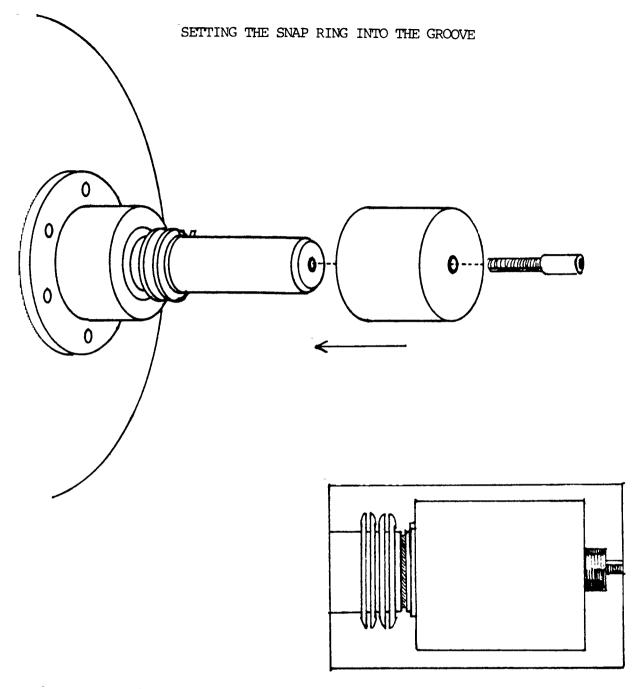
STEP 8: SLIDE THE CLUTCH FLANGE ONTO THE SHAFT AS FAR AS IT WILL GO

STEP 9: SLIDE THE (4) BELLEVILLE WASHERS ONTO THE SHAFT IN THE CONFIGURATION SHOWN BELOW.



STEP 10: SLIDE A <u>NEW</u> SNAP RING ONTO THE SHAFT AS FAR AS IT WILL GO BY HAND. SNAP RINGS ARE PROVIDED. NEVER USE AN OLD ONE.

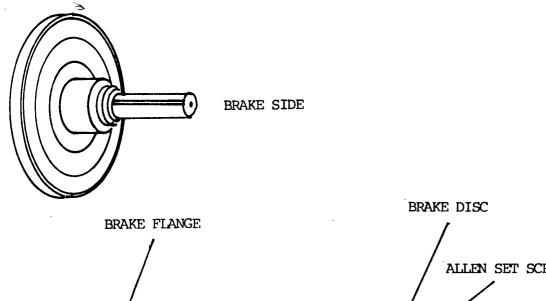


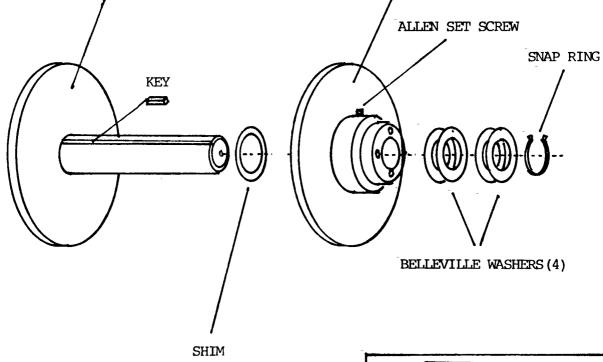


STEP 11: USING THE SNAP RING TOOL PROVIDED, SLIDE IT ONTO THE SHAFT AGAINST THE SNAP RING. TIGHTEN THE ALLEN BOLT CLOCKWISE SLOWLY UNTIL YOU HEAR A "SNAP". STOP. THIS SOUND IS THE SNAP RING SEATING INTO THE SNAP RING GROOVE. THE CLUTCH HAS NOW BEEN ADJUSTED 0.003". IF THIS HAD BEEN THE BRAKE SIDE NOW WOULD BE THE TIME TO TIGHTEN THE ALLEN SET SCREW.



ADJUSTMENT OF THE BRAKE





STEP 1: WITH A HAMMER AND A SCREWDRIVER

POUND THE SNAP RING OUT OF

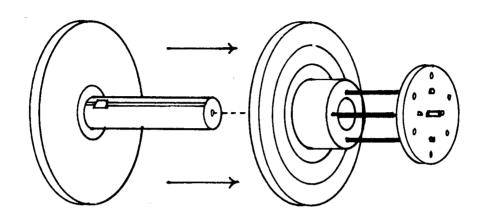
ITS GROOVE. REMOVE.

STEP 2: REMOVE THE (4) BELLEVILLE WASHERS.

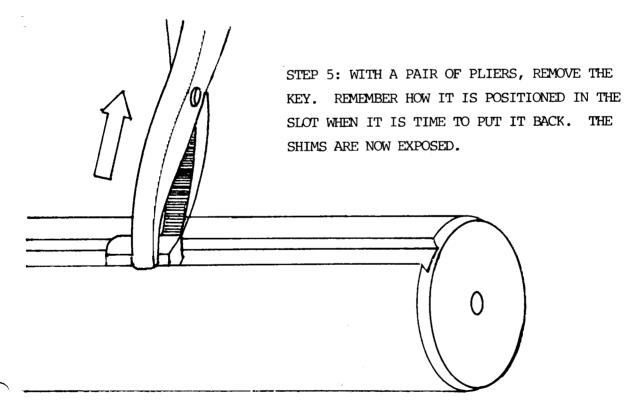




STEP 4: REMOVAL OF THE DISC- USING THE TOOL PROVIDED TIGHTEN THE (4) BOLTS PROVIDED INTO THE HOLES IN THE DISC AS SHOWN BELOW.



ROTATING THE CENTER BOLT CLOCKWISE, THE DISC SHOULD SLIDE OFF THE SHAFT. REMOVE.

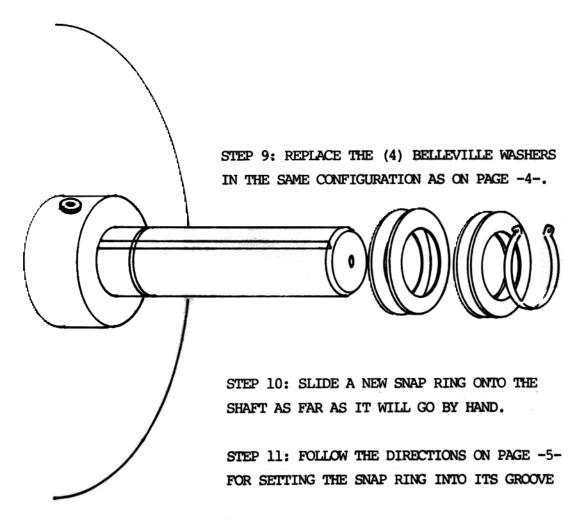




STEP 6: SLIDE OUT THE FIRST SHIM AND REMOVE. DO NOT REMOVE MORE THAN ONE. THIS IS A 0.003" ADJUSTMENT.

STEP 7: REPLACE THE KEY THE SAME WAY IT CAME OUT.

STEP 8: SLIDE THE BRAKE DISC ONTO THE SHAFT OVER THE KEY
AS FAR AS IT WILL GO BY HAND. DO NOT TIGHTEN THE ALLEN SET
SCREW YET !!!



STEP 12: TIGHTEN THE ALLEN SET SCREW NOW !!