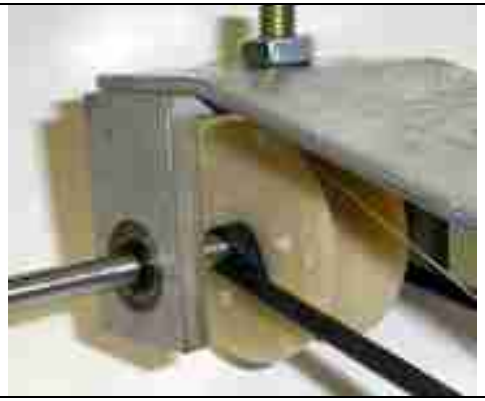
Flutter-Wing Decoy Mechanism: Tips – Goose or Duck Decoys™ ©

Tensioning the drive band on the Flutter-Wing Decoys

1. First make sure the band, after being tied behind the bend in the mechanism plate, is not stretched or under tension. Only taught.
2. The tension is created by the band rolling over the drive shaft as shown in the pictures below.
   If there is lot of tension before rolling the pulley over, then the band is too tight and this creates the need for more effort to operate.
3. Then tie off the string outside the decoy on the O ring, with the O ring touching the decoy. Secure the exterior operations string.
3. Adjust as needed. Re-do as needed. The band material may stretch & weather may affect the operation.
   Quick, easy fast-wing movement is the goal.
   Replace the band when needed or the elasticity is gone. Typically annually. Rubber compounds do not last in the heat or weather.

Band is taught but not stretched after being tied behind the back fold, on the plate. White string is used so the black band would be visible. (Can use any non-stretch string with flexibility, that wraps the pulley)	**To Tension:** **Turn the wings or the shaft to rotate about ¾ to 1 turn…as shown.** Side profile view of drive band shows correct position for operation. Adjust as needed for best operation.	Profile of drive mechanism as it will be seen from inside the decoy. Band is rolled over the drive shaft. Band is rolled over the drive shaft and then string is tied off outside the decoy.
Correct before tensioning.	Correct tension view 1.	Correct tension view 2. String goes North
		 ↑ String goes out the decoy head, **over the top of the pulley!** **View when bolted in the decoy**, of correct tension of band on the drive shaft as seen.
The drive band should be taught (not drooping), and should not be stretched before it is tensioned.	Make sure the string knot on the pulley is very tight, so it will not come loose.	Make sure the string is tight on the 0 Ring, outside the decoy. You can leave some excess string, incase you need to re-knot.
To replace the drive band: Remove mechanism if need and tie new drive band, and then slip over the back metal fold. Knot goes to the back behind the metal fold. Make sure it is taught, not stretched. Re-do as needed to get it right.	Insert mechanism into decoy, and then roll the shaft as above for tension. Keep the tension/shaft position and secure the string on the outside of the decoy on O ring. O ring should touch the decoy.	**Operate the mechanism** by pulling out about 3 inches, and then go in and out 6 inches, quickly. Allow the string to return slowly when done. Do not pull out and just let go. Especially all the way out, and just let go! String will spool.