

# Predator Metal Tail Gearbox Instructions

#CN1005

Pic. 1



Pic. 2



Pic. 3



Pic. 4

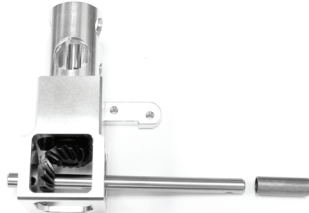


- 1) Slide the grey gear onto the output shaft (pic. 2). Make sure that it is the side where the groove is further inside as shown in the picture (pic. 1). Secure the gear with a M3X3 set screw. Use threadlock during this process.
- 2) Slide the transmission shaft into the body of the transmission box as shown (Pic. 4) flat spot side first (Pic 3).

Pic. 5



Pic. 6



Pic. 7

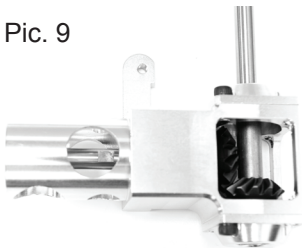


Pic. 8

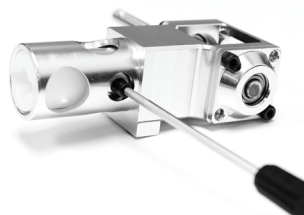


- 3) Insert the black gear (Pic.5) onto the end of the transmission shaft before seating the shaft and gear flush in the gearbox. Secure the gear with a M3X3 set screw making sure that it fits into the safety groove. Use threadlock for this process.
- 4) Slide the assembled output shaft into the transmission box and the brass spacer onto the output shaft (pic. 6).
- 5) Mount the left hand side cover with only two M2.5X6 cap screws as shown (Pic. 7) across from each other for even placement of the cover. Do not fully tighten the screws at this time.
- 6) Mount the right hand side cover with two M2.5X6 cap screws across from each other (Pic. 8). Do not fully tighten the screws at this time.
- 7) If the brass spacer is too long, use a file to remove a slight bit of material to get the proper fit.

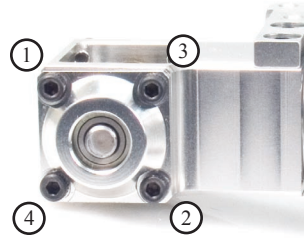
Pic. 9



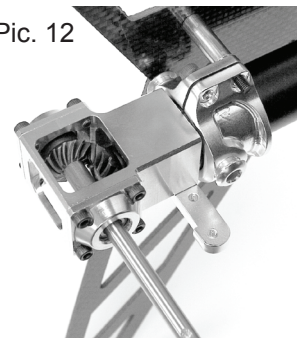
Pic. 10



Pic. 11



Pic. 12



- 8) Slide the torque tube coupler onto the transmission shaft. Rotate the output shaft while holding the plastic coupler until you see the flat spot through one of the securing holes.
- 9) Threadlock and tightly secure the plastic coupler with three M4X5 set screws as shown (Pic. 10). Using the M4x5 additional set screws insure a secure fit.
- 10) Check proper alignment by rotating the output shaft. Threadlock and tighten the remaining M2.5x6 screws of the side plates in the order shown (Pic. 11) to eliminate the possibility of misaligned plates.

Note: At this point refer to your predator manual for additional mounting components required for the vertical fin.

- 11) Mount and secure the tail gear box on the boom with the aluminum clamp by aligning their mounting holes (Pic. 12).
- 12) **IMPORTANT: Do NOT cross-thread the two large aluminum security bolts.** Threadlock and tighten the two large aluminum security screws with a M5 allen wrench as shown (Pic. 12).
- 13) Use the remaining two mounting posts and M3x30 cap screws to secure the vertical fin.

## Replacement Parts diagram

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## Replacement parts list

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CN1005-1	Tail gear housing (metal t-box)
CN1005-2	Tail gearbox clamp (metal t-box)
CN1005-3	Tail boom mounting screws (metal t-box)
CN1005-4	Vertical fin spacers (metal t-box)
CN1005-5	Output bearing plates (metal t-box)
HI3154	Torque tube female coupler
HW6070A	Tail input shaft (metal t-box)
HW6073A	Tail output shaft (metal t-box)
HW6074A	Tail output shaft spacer (metal t-box)
HW6075A	Tail gear set
CNM2.5x6CS	M2.5x6 Socket head cap screws
CNM3x3SS	M3x3 Socket head set screws
CNM3x30CS	M3x30 Socket head cap screws
CNM4x5SS	M4x5 Socket head set screws

## Warranty Information

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Your new Predator metal tail gear box warranted to the original purchaser against manufacturer defects in material and workmanship for one year from the date of purchase. During this period, Century Helicopter Products will repair or replace, at our discretion, any component that is found to be factory defective at no cost to the purchaser. This warranty is limited to the original purchaser and is not transferable. This warranty does not apply to any unit which has been improperly installed, mishandled, abused, or damaged in a crash, or to any unit which has been repaired or altered by any unauthorized agencies. Under no circumstances will the buyer be entitled to consequential or incidental damages. This limited warranty gives you specific legal rights. You also have other rights which may vary from state.

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Century Helicopter Products  
1740-C Junction Ave. San Jose, CA 95112  
[www.centuryheli.com](http://www.centuryheli.com)