Predator 60/70 SE & Max 90 Instruction Manual



SPECIFICATIONS

		<u>60/70</u>	<u>60/70 SE</u>	<u>Max 90</u>
\Rightarrow	MAIN BLADES	690mm	690mm	720mm
\Rightarrow	MAIN ROTOR SPAN	60.6 in	60.6 in	62.9 in
\Rightarrow	TAIL ROTOR SPAN	10.5 in	10.5 in	11.2 in
\Rightarrow	OVERALL LENGTH	54.5 in	54.5 in	55.7 in
\Rightarrow	HEIGHT	17.2 in	17.2 in	18.2 in
\Rightarrow	ENGINE	60 ~ 70	60 ~ 70	80 ~ 90

Century Helicopter Products

Designed and Developed in USA

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Building Instructions for the Predator series eCCPM helicopter kits.

Introduction

Congratulations on your purchase of Century Helicopter Product's newest RC helicopter model. The Predator eCCPM is the most anticipated and long awaited Century model helicopter. The attention is well deserved as the Predator will be unmatched in affordability, quality and performance. Compared to other 60 class models, pilots will be elated to find the Predator is built to please. This kit will exceed your expectations for precision control at an affordable price.

It is recommended that the Predator be equipped with high quality radio equipment that has 8 to 9 channels and a minimum of 5 points on the throttle and pitch curves. Servos used should be quality coreless, ball bearing and having a minimum torque rating of 70 oz/in. The gyro and its servo should be quality with a servo speed of 0.11sec/60° or faster.

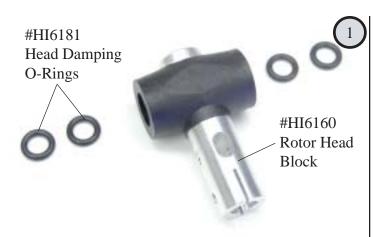
Warning

This radio controlled model is not a toy! It is a precision machine requiring proper assembly and setup to avoid accidents. It is the responsibility of the owner to operate this product in a safe manner as it can inflict serious injury otherwise. It is recommended that if you are doubt of your abilities, seek assistance from experienced radio control modelers and associations. As manufacturer, we assume no liability for the use of this product.

Pre-assembly Information

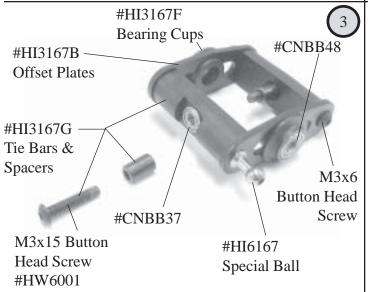
Upon opening the kit, all the major component parts are bagged by relationship to the different sections of the helicopter. Various assemblies have been pre-assembled only requiring the final assembly and installation onto the particular part, screws and nuts required for each step are packaged in the same bag as the parts. Be careful when opening each bag as not to lose any hardware. Care has been taken in filling and packing of each bag however mistakes do happen, if there is a parts shortage or missing hardware please contact us at:

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Press in the damping o-rings into the rotor head block. Lubricate with light oil. Bond the threaded stud into the head button using permanent locktight then apply more permanent locktight and bond into the top of the rotor head block.



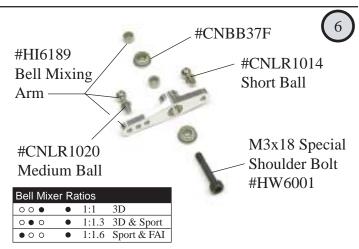


Assemble the seesaw part around the rotor head block. Bond the bearing cups to the metal offset plates.

Make sure that the steel ball is mounted on the left when on the rotor head.



The washout guide should be positioned against the rotor head block, with the pins aligned parallel to the feathering spindle.



Press the M3x7 Flanged bearings into the seesaw capturing one steel spacer in between. Attach to the blade grip with the special shoulder bolt.



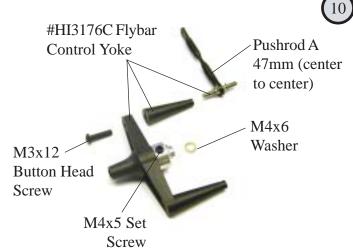
Insert one ball bearing into each end of the main blade grip. Slide the M14 Thrust Washer against the inside bearing.



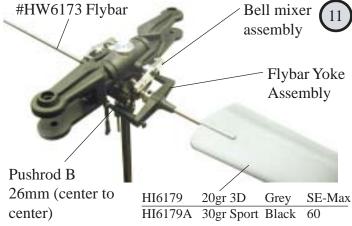
Attach the seesaw assembly with one M3x18 special socket screw threaded into the blade grip. Be careful not to overtighten the screw.



Slide three shims onto the feathering spindle, followed by the blade grip assembly. Pitch arm is on leading edge. Grease and install the thrust bearing and secure with the M5x10 socket screw and washer using threadlock.



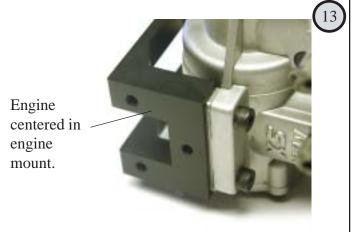
Assemble each flybar control arm half before it is installed by threading the double studded ball into the end of the tapered end of the control arm.



Assemble the flybar, paddles and flybar yoke around the rotor head and secure with the M4x5 set screws attached from the top of the arms using threadlock. Adjust pushrod and attach to from the seesaw to the medium ball on the adjustable side of the bell mixer.



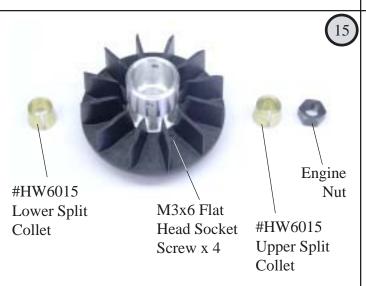
Before installing the engine, check the gear ratio to determine the correct number of shims to install between the mounting lugs on the engine and the engine mount.



Install the engine into the mount using the correct number of shims and ensure that the engine is centered in the mount. Use locktight on the M4 socket screws.



If a governor is planned to be installed, install the magnets into the holes already molded into the bottom of the cooling fan.



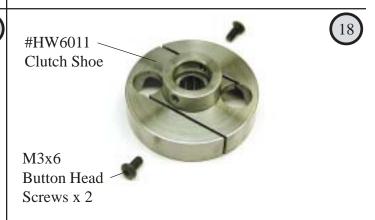
The fan and hub are pre-assembled in the kit. The engine collets will fit both O.S. Max and Y.S. crankshafts.



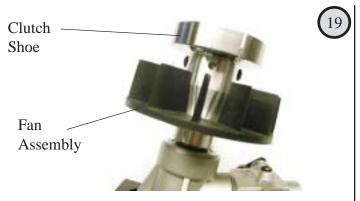
Ensure that the split in the collet is positioned away from slot for the Woodruff key. The lower collet is a tight fit to the crankshaft. Use the engine nut to start the collet onto the crankshaft, apply oil to collet.



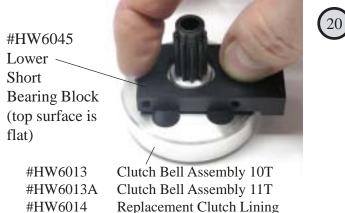
Position the fan assembly, apply oil to the collet and insert the upper split collar and the original engine nut. Clean the engine threads and apply locktight to the engine nut and tighten in place.



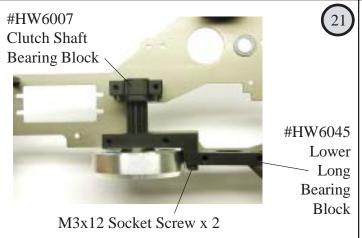
Apply light grease to the Torrington bearing in the center of the clutch shoe. Be sure that no grease contacts the clutchbell.



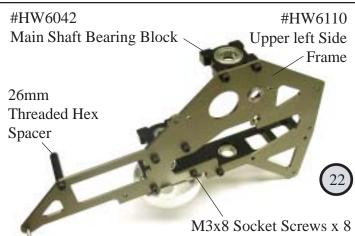
Attach the clutch shoe with the M3 button socket bolts using threadlock.



Clean the clutchbell and inside of the bearing with alcohol. Apply a small amount of permanent locktight around the top 15mm edge of the aluminum clutchbell where it will contact the bearing. Ensure the bearing is against the clutchbell. Press evenly and firmly as this is a very tight fit.



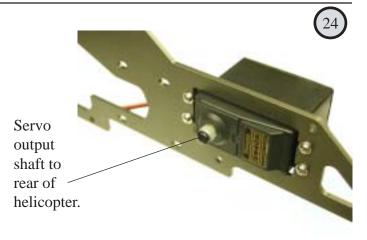
Clean the top of the clutchbell gear and inside of the upper bearing with alcohol. Apply a small amount of permanent locktight around the top edge of the clutch gear where it will contact the bearing. Press the clutch shaft bearing block in place. Attach the long bearing block with M3x12 socket screws <u>but do not tighten at this time</u>.



Attach the clutchbell and bearing block assembly, main shaft bearing block and front hex threaded spacer with M3x8 socket screws to the left upper side frame. Do not use locktight at this time. Notice the countersunk hole below the bearing is on the outside.



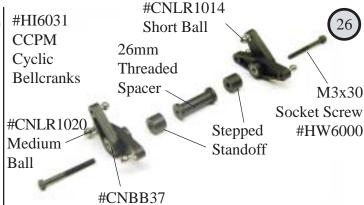
Prepare the rear ccpm servo, attach the rubber servo tabs and the eyelets from the top of the servo.



Install the rear ccpm servo into the inside of the right side of the upper side frames. Be careful, look for the countersunk hole below the bearing is on the outside.



Install the rear ccpm lever into the upper frames flush with the bearing on the left side, having the mount extend out the right side frame. Assemble the upper frames <u>but do not use</u> locktight at this time.



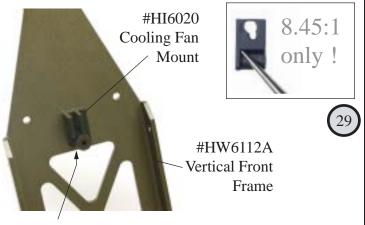
The stepped standoff is positioned with the step against the ball bearing in the ccpm bellcrank. Correct orientation has the two symmetric steel ball facing outwards and the obtuse angle towards the swashplate.



Apply locktight to the threads on the inside standoff, insert between the frames and attach the ccpm cyclic bellcranks being careful to observe the correct direction. For 140 Degree ccpm setup, move bellcranks to forward holes.



Press the rear ccpm lever onto the mount that sticks out of the right side of the upper frames with the steel ball downwards. Secure with the M3 button head screw.

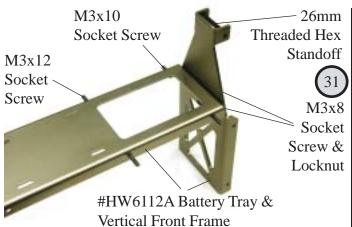


M3x8 Self Tap Screw (from behind)

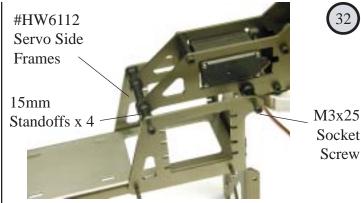
Attach the front cooling fan mount to the vertical front frame inserting the M3 screw from the flat side of the frame. Note: 8.45:1 gear ratio requires the shroud mount hole to be modified.



Ensure that the correct standoffs are used in the correct locations. The 26mm threaded hex standoffs are not shown.



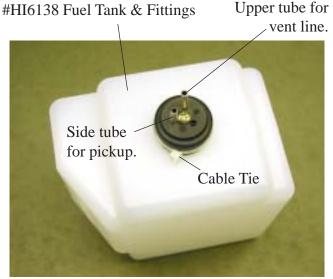
Attach two M3x12 Socket screws <u>from the inside</u> of the battery tray at the forward holes and two M3x10 Socket screws to the rear holes. Attach the vertical frame (note flanges are rearward) to the battery tray with M3x8 screws.



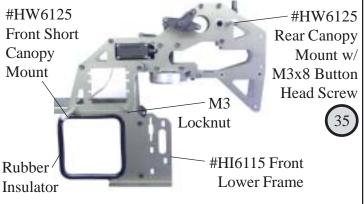
Attach the servo frames, battery tray and upper frames together using M3x25 Socket screws. <u>Do not use locktight at this time</u>. These will be secured after the engine alignment is complete.



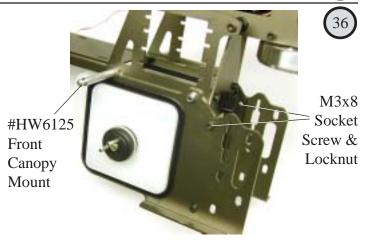
Assemble the fuel tank fittings. <u>Gently bend</u> the vent line and test until it reaches the top of the fuel tank. Order is larger outside cap, rubber stopper, smaller inside cap. Test the pickup line so it can move freely in the fuel tank.



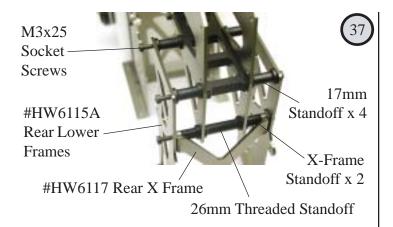
After the fuel tank fittings are inserted, tighten the M2.5x18 self tap screw and attach the cable tie around the outside of the stopper.



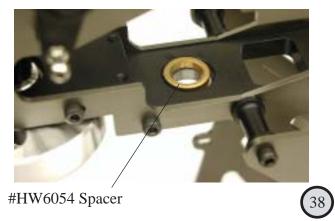
Install the rubber insulators to the frames. Install the <u>left side</u> <u>front lower frame</u> over the M3 threaded studs on the battery tray. Attach the shorter canopy standoff to the front stud and a locknut to the rear stud. Attach the longer, rear canopy standoff to the upper frames using M3x10 Button head screw from the inside of the frames.



Install fuel tank (only fits one way) and attach the other front lower side frame. Similarly secure it to the vertical frame with M3x8 socket screws and locknuts.



Attach the X Frame to the lower side frames first using M3x8 Socket screws and locknuts at the lower hole on a flat surface. Attach to the upper frames with M3x25 Socket screws, apply threadlock to the holes on the upper side frames.



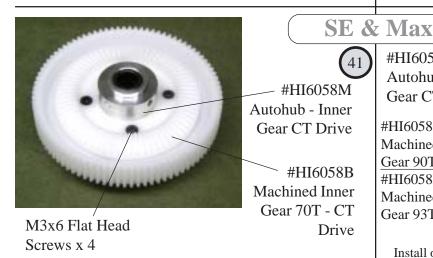
Before the main gear assembly can be inserted, make sure that the M10x14x3.5 spacer is positioned on top of the lower main shaft bearing. It will simply self align in the block. Remember, do not locktight any bolts on the clutchbell or starting shaft bearing blocks until the engine is installed.



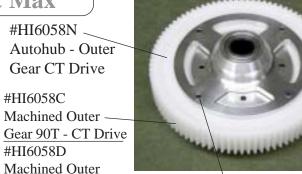
Thread the slipper cap onto the sleeve until the holes align together. Insert two M4x4 set screws at 180 degrees apart and tighten gently. Later when the main shaft pin is attached, these can be removed and locktighted in place.



Slide the autohub for the slipper drive from the bottom of the main gear. Attach with M3 button head screws and tightening evenly. Insert the slipper cap assembly, capturing the o-ring under the cap against the autohub.



Install inner gear autohub from the bottom side the inner (tail) gear using threadlock. Attach with M3 flat head screws and tightening evenly. Note the autohub is pre-assembled.



Gear 93T - CT Drive

M3x6 Flat Head Screws x 4

Install outer gear autohub from the bottom side the outer main gear using threadlock. Attach with M3 flat head screws and tightening evenly. Overtigtening these screws could touch the upper side frames.

9





Main gear or constant drive type.

#HW6001 Main Shaft M3 Pin

assembly, slipper

After the main shaft pin is started, press it in and start threading the M4 set screws. Continue adjusting until the pin is centered in the autohub assembly. Remove one at a time and apply locktight. These do not need to torqued down.





Insert the main gear assembly from the side and slide the

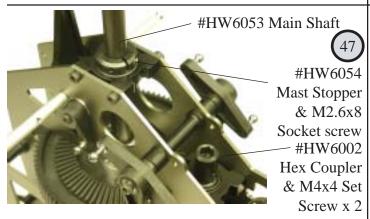
main shaft through the upper main shaft bearing block. Align

the M4 threaded hole with 3mm hole on the main shaft and

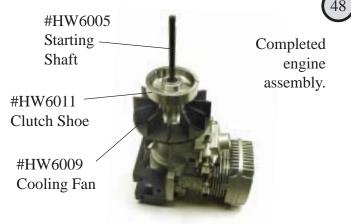
Inspect the bottom collar, make sure the step in the collar is towards the ball bearing. Press firmly on the main shaft until the top threaded hole aligns with the holes in the bottom collar. Apply locktight to the M3 Flat head screws.



Install the main shaft thrust bearing (SE & Max only) and 0.25mm shim against the lower bearing followed by the bottom collar. Make sure the step in the collar is away from the thrust bearing. Apply locktight to the two M3 Flat head screws.



To set the upper mast stopper, press down firmly on the main shaft and tighten the M2.6 Socket screw using locktight. Install the starting shaft, pull up on the shaft and apply locktight to the top of the shaft and position one of the set screws on the flat spot.



Check once more that everything is ready on the engine. Make sure that the carburetor has been seated properly and the securing screw is tight.

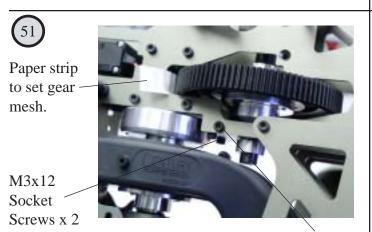


Match the cooling fan shroud together and secure with M2.6 screws. <u>Do not install the frontmost screw at this time</u>.

#HW6017
M4x10 Socket
Screws &
M4x12 Flat
washers x 6

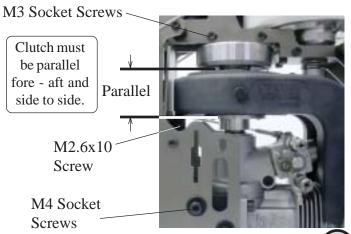
M3x8 Self Tap
Screw x 2

Slide the engine assembly in place and install the M4 Socket bolts and washers. Do not locktight these and leave these loose until the clutch is aligned to the clutchbell. Some fore - aft adjustment is possible. Install the M3 screws for the shroud and leave loose for adjustment later.

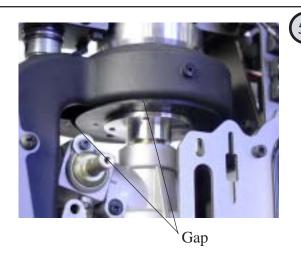


Remove and locktight M3x8 Socket screw.

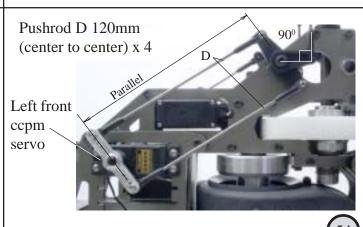
Cut a strip of paper 1/2" (12mm) wide to set the gear mesh between the clutch bell and the main gear. The paper should run through the gears without tearing. After the M4 engine screws are tight, the M3x12 screws are tighted last.



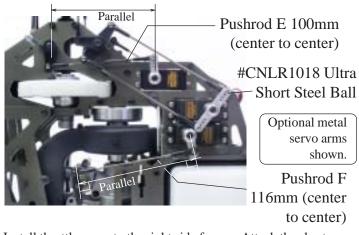
Sighting the bottom of the clutch bell, <u>adjust until the clutch is parallel to the clutchbell in both the left/right and front/back directions</u>. Fore-Aft is adjusted by the M3 screws at the top of the servo tray. Once satisfied, carefully remove and locktight all the M3 and M4 bolts. Insert the M2.6 screw to capture the front of the cooling shroud.



By loosening the M3x8 and M2.6 self tap screws that hold the cooling fan shroud to the frames, the shroud can be adjusted until it does not to touch the cooling fan.



Install both left and right front ccpm servos to the servo frames. Secure using the servo tabs held by pliers from behind. Install the short steel ball to the underside of the servo arm at a 20mm radius with M2 hex nut on top. Ensure the 90 degree angle on bellcrank to swashplate pushrod at midstick.



Install throttle servo to the right side frames. Attach the short ball with M2 thread to the carburetor lever arm with M2 nut and the short steel ball to the top side of the servo arm at 13.5mm. Ensure the 90 degree angle from the pushrod to the servo and carburetor arm for linear setup at midstick.



#HI6146 Swashplate

#CNLR1014 Short

Steel Ball x 5

Micro Washer

M3x5x3 Steel Spacer x 2

x 2

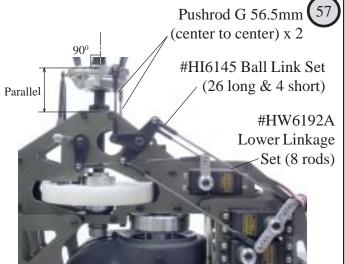
Assembly

The washout unit comes assembled. Slide onto the main shaft and ensure that the screw is on the left side of the main shaft.

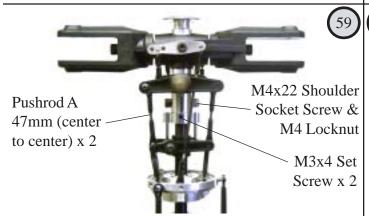
#CNLR1019 Long

#CNBB37 x

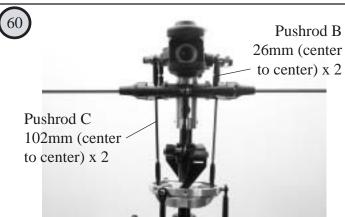
Steel Ball x 2



Install the swashplate on the main shaft and connect to the rear and front ccpm pushrods. Trim the radio to level the swashplate, set to 90 degrees to the main shaft.



Slide the washout guide and align the washout pins with the washout guide. Attach the rotor head with M4 socket head cap screw and M4 locknut. Insert the M3 set screws and position the guide with the screws aligned to the slot in the head block.



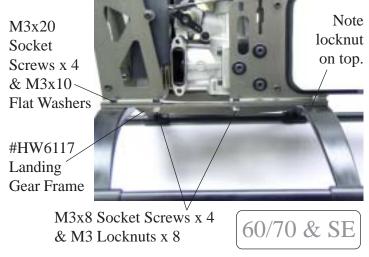
Attach pushrod C from the long ball on the inside race of the swashplate to the single ball (non adjustable) on the bellhiller mixing arms. These pushrod lengths are starting points, adjustment is necessary for the particular style of flying.



The main rotor grips will accept rotor blades that have a root thickness that is from 12mm to 18mm and have a 5mm hole. Carbon Rotortech and wooden Aerotech blades are designed for 5mm blades bolts.



Assemble the landing skids onto the struts, note the correct direction is to have the struts sweep forward. Position the rear strut at approximately 37mm from the end and secure the skid with the M3 set screw. Leave the front loose for now.



Attach the landing gear frame to the mechanics with M3x8 socket screws and locknuts. Attach the landing gear with M3x20 socket screws, M3x10 flat washers (against struts) and locknuts, sliding the front skids into final position. Secure the M3 set screws.



Attach the landing gear frame to the mechanics with M3x8 socket screws and locknuts. Attach the landing gear with M3x20 socket screws, M3x10 flat washers (against struts), M3x9x4 spacers and M3 locknuts, sliding the front skids into final position. Mark, scuff and bond the skids to the structs with JB Weld.



The front tail transmission is assembled. Open and apply locktight to the back edge of the bevel gear for added security.

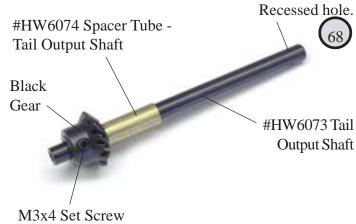


#HW6062 Tailboom 795mm 60/70 & SE #HW6062A Tailboom 825mm Max 90 #HW6063 Torque Drive Shaft 60/70 & SE #HW6063A Torque Drive Shaft Max 90

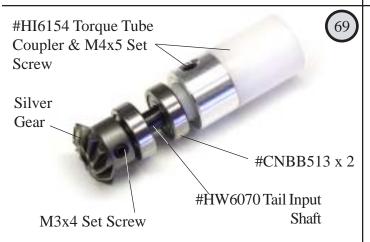
Insert the 26mm hex spacers into the transmission half.



Looking down on the two tail gears notice that the black gear has teeth that are in the opposite direction to the silver gear. Make sure the black gear is mounted to the tail output shaft.



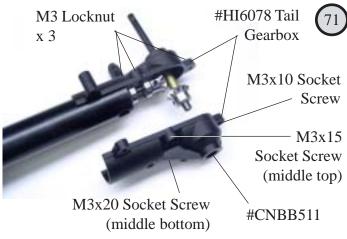
Align the <u>hole in the black gear</u> over the hole in the end of tail output shaft and secure with the M3 set screw using locktight. Slide the spacer tube against the gear.



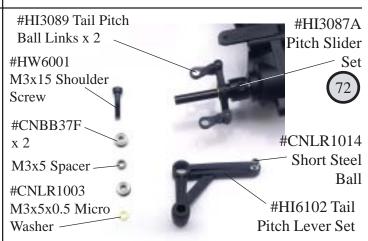
Align the <u>hole in the silver gear</u> over the hole in the end of the tail input shaft and secure with the M3 set screw. Slide two M5x13 bearings and install temporarily into one half of the gearbox (positioning the bearings) and secure the torque coupler with M4 set screw over the flat spot using threadlock.



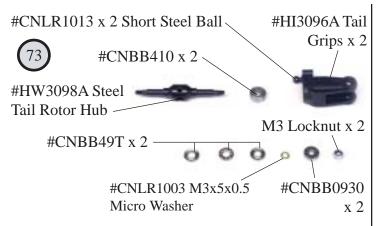
Press one M5x13 bearing into the right hand side (with mount for tail pitch lever) of the tail gearbox. Position the tail output shaft and input shaft into the gearbox half. Adjust torque fitting if necessary. Pack gears with quality grease.



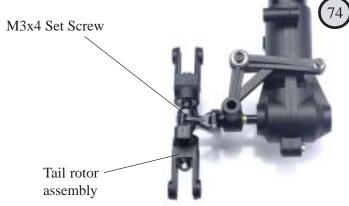
Insert the torque drive shaft using a little oil on the o-rings as it is pressed into the tailboom (press towards the bearing) and align the tailboom end to the molded key in the tail gearbox. Close the gearbox with the M3 socket screws and locknuts.



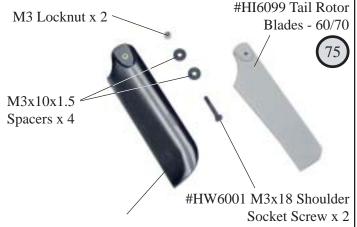
Slide the tail pitch slider set onto the tail output shaft and insert the M3 shoulder screw from the bottom of the pitch lever with the micro washer between the lever and the mount on the gearbox and tighten in place.



Press the M4 bearing into the end, slide the M3 thrust bearing (in correct order), micro washer, M3 bearing and locknut from inside the grip. Use locktight on the locknut.



Insert tail rotor grip assembly onto the tail output shaft, aligning the set screw over the indent in the shaft using locktight. Attach the tail pitch ball links to the balls, the steel ball is on the leading edge of the blades.

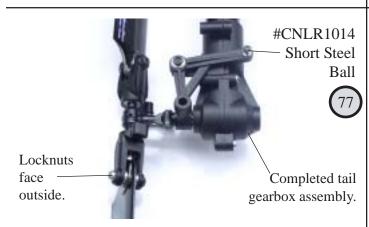


#CN260956 Rotortech 95mm Tail Blades - SE #CN261056 Rotortech 105mm Tail Blades - Max 90

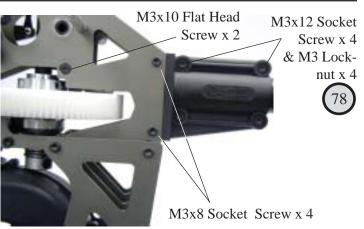
Tail rotor blades are installed with the leading edge rotating upwards into the downwash of the main blades. Looking at the left side of the Predator, the blades turn clockwise with the steel ball on the leading edge.



The carbon tail blades will not fit the tail rotor grips without trimming the ends. Attach the two blades together and grind 3-4mm off the end of the blades as shown.



Install the tail rotor blades to the tail rotor grips with the M3 shoulder socket cap screws, M3 spacers on both sides the the blades and secured with M3 locknuts, fitted into the molded recess on the tail blade grips.



Insert the front of the tail boom into the front tail transmission half and close the transmission. Secure with M3 socket screws locknuts. Attach the tail boom assembly to the mechanics with M3x8 screws first then the Flat head screws. Attach first, then remove and locktight all the screws.



Insert the M2 threaded rod 10mm into the grey ball link. Slide the end cap over the carbon tube and make a mark, remove and sand the carbon up to this mark for better adhesion. Using JB Weld or Epoxy bond in place. Only complete one end at this time. Thread the ball link into the end cap until it stops using threadlock.



The Aluminum support struts are ready for installation.



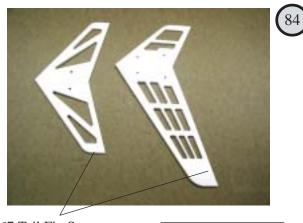
Insert and mark each end of the carbon struts where the strut fittings will overlap. Remove and sand down each carbon end until they slide easily into the fittings. Scratch inside the fittings also. Using JB Weld or Epoxy, bond the fittings in place. Make sure each strut has the fittings 90° degrees to each other.



Install the rudder servo into the tail rudder servo mounts using M2.5 self tapping screws inserted through the top of the servo grommets into the vertical mounts.



Wrap the tail mount liners around the tail boom and trim if necessary. Install the rudder servo mount assembly onto the tail boom, over the liners and secure using the M2.5 socket screws. Leave these loose until after the tail pushrod has been attached. Attach the rudder servo horn, positioning the steel ball at 12-14mm from the servo center.



#HI6067 Tail Fin Set -Horizontal & Vertical

60/70 only.

Install the decals for the fins at this time.



Insert the M3 socket screws through the top of the plastic fin and through the top tail fin mount (straight ends). <u>Notice that the bottom fin mount is angled for comparison.</u>

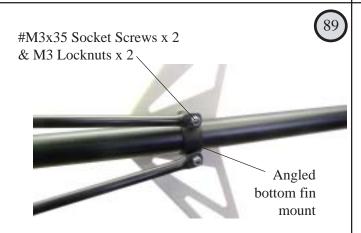
Insert the M3 socket screws through the front holes in the plastic vertical fin and through the vertical fin mount.



Insert the M3 socket screws through the top of the carbon fin and through the top tail fin mount (straight ends).

Notice that the bottom fin mount is angled for comparison.

Slide the bottom fin mount (taller side of angled ends towards mechanics) over the M3 screws and insert the carbon tail struts and secure with M3 locknuts.



Slide the bottom fin mount (taller side of angled ends towards the mechanics) over the M3 screws and insert the aluminum tail struts and secure with M3 locknuts.

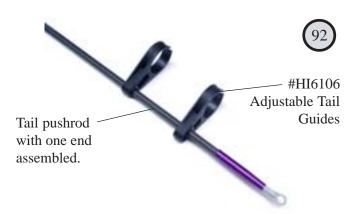


M3x12 Socket Screws x 2 & M3 Locknuts x 2

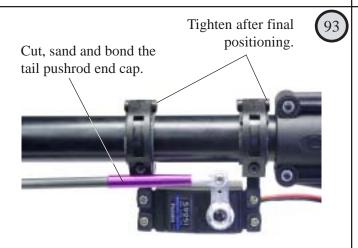
Attach the struts (aluminum or carbon) to the main mechanics using M3 socket screws, M3x9x3 plastic spacer on the outside and secure with M3 locknuts on the inside of the frames.



Assemble the support bridge with M3 hardware. Press each side onto the support strut and secure with the cable tie wraps provided.



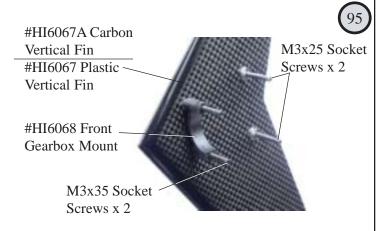
Slide the two tail pushrod clamps over the unfinished end of the tail pushrod and attach to the tail boom. Press the ball link onto the steel ball on the tail pitch bellcrank. Position the one guide infront of the horizontal fin and one half way between the fin and the mechanics bringing the pushrod to the right side of the helicopter.



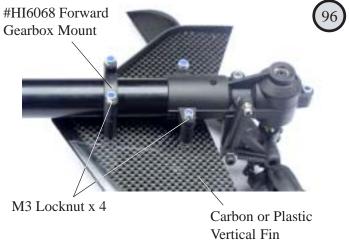
Assemble the other pushrod end cap and ball link to mark and cut the tail pushrod to match the steel ball on the servo. Bond the end cap in place and fine tune the position by moving the rudder servo mount and then tighten in place.



Remove the pushrod from the servo and slide through the entire range of movement. Continue adjusting the guides until the pushrod moves very smooth and then secure the tail guides with the cable ties.



Insert the M3 socket screw through the vertical fin and through the first gearbox mount.



Engage the rear M3 socket screws through the mounts on the tail gear box and attach the forward gear box mount capturing the tail boom and secure in place with M3 locknuts.

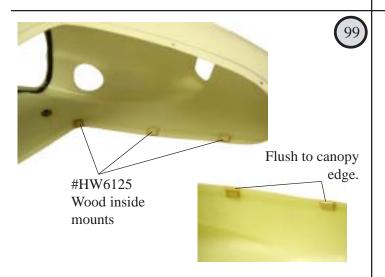


Leave the protective coating in place until after it is drilled for mounting screws. Rough cut the windshield leaving 3mm [1/8"] then carefully cut out the windshield following the line molded into the winshield.



Drill 8-9 holes.

Position the windshield and tape in place. Mark and drill pilot holes around the windshield edge, centered through the matching recess of the canopy.



Bond the wood inside mounts into the inside of the canopy with Epoxy. Center each block over the holes with the top edge flush to the canopy edge. Once cured, drill the final hole size for the screws.



Clean the canopy. Trim the decals from the sheet and apply to the side of the canopy before the lower grommet is installed. Cut through the decal and install the lower grommet through the canopy.

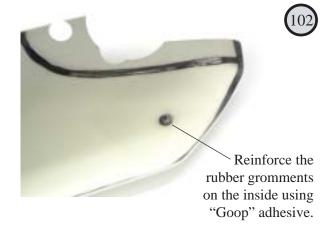
Attach the windshield with the M3 self tapping screws being careful not to overtighten them.



M3x6 Self Tap Screws x 10



60/70	SE & Max 90	Decal Locations
1.	8.	Lower cheek of canopy.
2.	7.	Middle, below windshield.
3.	6.	From edge below rear grommet
4.	10.	Horizontal Fin (top & bottom on 60/70).
5.	9.	Vertical Fin (above & below on 60/70).



After the canopy is finished, the wooden blocks can be painted white to match the canopy. The rubber grommets should be reinforced using "Goop" adhesive or similar.

Predator 60, SE & Max Replacement Parts

HI6020 HI6031 HI6032	COOLING FAN SHROUD SET	HW6042	MAIN SHAFT BEARING BLOCK w/BEARING
	CCDM CVCLIC DELL CDANICO		
HI6032	CCPM CYCLIC BELLCRANKS	HW6045	LOWER BEARING BLOCK ASSEMBLY w/BB
1110002	CCPM CYCLIC BELLCRANKS CCPM ELEVATOR LEVER SET	HW6053	MAIN SHAFT
HI6056	MAIN GEAR - 90T	HW6054	MAST STOPPER w/BOTTOM COLLAR
HI6058B	MACHINED TAIL GEAR - 70T CT DRIVE	HW3057	TAIL TRANSMISSION BEVEL GEAR
HI6058C	MACHINED MAIN GEAR - 90T CT DRIVE	HW6059	TAIL TRANSMISSION DRIVE SHAFT
HI6058D	MACHINED MAIN GEAR - 93T CT DRIVE	HW6062	TAIL BOOM - 60/70
HI6058F	CONSTANT TAIL DRIVE ASSEMBLY - 90T	HW6062A	TAIL BOOM - MAX 90
HI6058G	CONSTANT TAIL DRIVE ASSEMBLY - 93T	HW6063	TAIL DRIVE SHAFT SET - 60/70
HI6058J	SLIPPER SLEEVE	HW6063A	TAIL DRIVE SHAFT SET - MAX 90
HI6058K	SLIPPER CAP	HW6065	TAIL PITCH CONTROL ROD SET - CARBON
HI6058L	SLIPPER O-RINGS (2)	HW6070	
HI6058M	INNER TAIL GEAR AUTO HUB - CT DRIVE	HW6073	TAIL GEARBOX OUTPUT SHAFT
HI6058N	OUTER MAIN GEAR AUTO HUB W/T.B CT DRIVE	HW6074	SPACER TUBE - TAIL OUTPUT SHAFT
HI6058P	SLIPPER AUTOROTATION HUB W/T.B.		TAIL GEAR SET
HI6060	FRONT TAIL TRANSMISSION (L&R)		STEEL TAIL ROTOR HUB
HI6067	TAIL FIN SET - PLASTIC		UPPER SIDE FRAME - L&R
HI6067A	TAIL FIN SET - CARBON		SERVO SIDE FRAMES (2)
HI6068	TAIL FIN MOUNT SET		VERTICAL FRAME & BATTERY TRAY
HI6078	TAIL GEARBOX (L&R) TAIL BOOM SERVO MOUNT SET		FRONT LOWER FRAMES - L&R
HI6080	TAIL BOOM SERVO MOUNT SET		REAR LOWER FRAME - L&R
HI6082	TAIL STRUT SUPPORT BRIDGE SET		LANDING GEAR FRAME & REAR X FRAME
	TAIL PITCH SLIDER SET		LANDING SKIDS - ALUMINUM
HI3089	TAIL PITCH BALL LINKS		LANDING SKIDS - CARBON
HI3096A	TAIL BLADE GRIP SET		CANOPY MOUNTS & GROMMET SET
HI6099	TAIL ROTOR BLADES - PLASTIC (2)		FRONT FRAME STANDOFF SET
HI6102	TAIL PITCH LEVER SET		REAR FRAME STANDOFF SET
HI6106	TAIL PUSHROD GUIDES - ADJUSTABLE SLOT		CCPM SWASHPLATE 120-140 DEGREE
HI6122	LANDING STRUTS - PLASTIC		
HI6122A	LANDING STRUTS - CARBON	HW6173	
HI6130	FIBERGLASS CANOPY ONLY		FEATHERING SHAFT
	PREDATOR & MAX DECAL		UPPER LINKAGE SET (6 RODS)
HI6131	INCTRUCTION MANUAL CO OF 8 MAY		LOWER LINKAGE SET (8 RODS)
HI6132	INSTRUCTION MANUAL - 60, SE & MAX		TAIL BOOM SUPPORT STRUTS (2)
HI6133	WINDSHIELD ONLY	HW6202A	TAIL BOOM SUPPORT STRUTS - CARBON
HI6138	FUEL TANK W/FUEL FITTINGS & ISOLATORS	01100101	
HI6145	BALL LINK SET (26 LONG, 4 SHORT)		HEAD BUTTON - SILVER
HI3152A	RADIUS LINK W/PIN (2)	CN2341	
HI3152C	WASHOUT SET - 10MM		ROTORTECH 700mm 3D CARBON BLADES
HI6153	WASHOUT GUIDE		ROTORTECH 720mm 3D CARBON BLADES
HI6154	TORQUE TUBE DRIVE COUPLER		ROTORTECH TAIL BLADES 95mm
HI6160	ROTOR HEAD YOKE	CN261056	ROTORTECH TAIL BLADES 105mm
HI6167	SPECIAL BALL SET		
HI3167B	SEESAW OFFSET PLATES (2)	CNBB37	Bearing - seesaw, washout, cyclic & bell mixers
HI3167F	BEARING CUPS & SPACERS (2) - M8	CNBB37F	
HI3167G	SEESAW TIE BAR & SPACERS (2)	CNBB0930	3 3 1 V /
HI3176C	SYMMETRICAL FLYBAR YOKE SET	CNBB48	Bearing - flybar
HI6179	FLYBAR PADDLES - 20 GRAM 3D	CNBB49T	
HI6179A	FLYBAR PADDLES - 30 GRAM SPORT	CNBB410	
HI6181	HEAD DAMPING O-RINGS (6)	CNBB511	Bearing - start shaft, tail trans & output
HI6184	MAIN ROTOR BLADE GRIPS (2)	CNBB513	Bearing - tail trans, tail input & output
HI6189	METAL BELL MIXER ARM SET	CNBB610	Bearing - tail pitch plate
HI3205	SERVO MOUNTING TABS (10)	CNBB812F	Bearing - elevator lever
		CNBB8157	-
HW6000	HARDWARE PACK	CNBB816	
HW6001	HEAD BOLT & WASHER SET		BT Bearing - main shaft thrust
HW6002	HEX ADAPTER	CNBB1019	· ·
HW6005	STARTER SHAFT	5	
HW6007	START SHAFT BEARING BLOCK w/BB	CNLR1000	0S BALL LINK 2MM Rudder Pushrod (10)
HW6011	CLUTCH SHOE	CNLR101	
HW6012	COOLING FAN HUB	CNLR101	* *
HW6013	CLUTCH BELL ASSEMBLY - 10T	CNLR101	* *
	CLUTCH BELL ASSEMBLY - 11T	CNLR1019	` '
H\\\\6014	CLUICHTINING	CNII D100	O MEDILIM STEEL BALL M3 (2)
HW6014 HW6015	CLUTCH LINING SPLIT COLLET SET - OS/YS	CNLR102	0 MEDIUM STEEL BALL M3 (2)