

Heli-Max™



Rotor Span: 27.5 in [700mm]

Height: 9.3 in [236 mm]

Length: 24 in [610mm]

Weight: 18.4 oz [521g] no battery,
25 oz [708g] w/flight battery (GPMP0520)

Motor: 420 Brushless out-runner motor

Radio: Futaba® 6EX 6-channel 2.4GHz FASST transmitter
Futaba R606FS 6-channel 2.4GHz FASST receiver

Servos: Futaba S3114 micro HT servo

Gyro: Heli-Max™ Heading Lock HM 4000 Gyro w/remote dual gain

AXE 400 R/F

INSTRUCTION MANUAL

IMPORTANT PRECAUTIONS

WARNING!! Read the entire instruction sheet included with your battery and charger. Failure to follow all instructions could cause permanent damage to the battery, charger or its surroundings, and cause bodily harm!

- Never charge in excess of 4.20V per cell.
- If the battery should become damaged, discard the battery. Do not attempt to use a damaged battery.
- Do not leave the charger unattended while charging. Disconnect the battery and remove input power from the charger immediately if either becomes hot! However, it is normal for the charger to get warm.
- Disconnect the battery from the charger and carefully move the battery to a fireproof location if the battery begins to swell or smoke!
- Never charge at currents greater than 1C.
- Always charge in a fireproof location.
- Never trickle charge.
- Never allow the battery temperature to exceed 150° F [65° C].
- Never disassemble or modify pack wiring in any way or puncture cells.
- Never discharge below 2.5V per cell.
- Do not allow water, moisture or foreign objects into the charger.
- Do not block the air intake holes, which could cause the charger to overheat.
- Do not place the charger or any battery on a flammable surface or near a combustible material while in use.
- Do not charge on a carpet, cluttered workbench, paper, plastic, vinyl, leather, wood, or inside an R/C model.
- Never charge inside a full sized vehicle.
- Always disconnect the battery from the charger and the power supply from the charger when not in use.
- Do not attempt to charge a battery if it is swollen or hot.
- ALWAYS KEEP OUT OF REACH OF CHILDREN.

READ THROUGH THIS MANUAL BEFORE STARTING CONSTRUCTION.
IT CONTAINS IMPORTANT INSTRUCTIONS AND WARNINGS
CONCERNING THE ASSEMBLY AND USE OF THIS MODEL.

Heli-Max™

Champaign, Illinois
(217) 398-8970
heli hotline@hobbico.com

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INTRODUCTION

Thank you for purchasing the Heli-Max AXE™ 400 3D RTF Helicopter. We are certain you will get many hours of enjoyment out of this model. If you should have any questions or concerns please feel free to contact us at:

helihotline@hobbico.com.

For the latest technical updates or manual corrections to the AXE 400 3D RTF visit the Heli-Max web site at **www.helimax-rc.com**. Open the "Helicopters" link, and then select the AXE 400 3D RTF. If there is new technical information or changes to this model a "tech notice" box will appear in the upper left corner of the page.

AMA

We urge you to join the AMA (Academy of Model Aeronautics) and a local R/C club. The AMA is the governing body of model aviation and membership is required to fly at AMA clubs. Though joining the AMA provides many benefits, one of the primary reasons to join is liability protection. Coverage is not limited to flying at contests or on the club field. It even applies to flying at public demonstrations and air shows. Failure to comply with the Safety Code (excerpts printed in the back of the manual) may endanger insurance coverage. Additionally, training programs and instructors are available at AMA club sites to help you get started the right way. There are over

2,500 AMA chartered clubs across the country. Contact the AMA at the address or toll-free phone number below.



Academy of Model Aeronautics

5151 East Memorial Drive
Muncie, IN 47302
Tele: (800) 435-9262
Fax (765) 741-0057
Or via the Internet at:
www.modelaircraft.org

IMPORTANT!!! Two of the most important things you can do to preserve the radio controlled aircraft hobby are to avoid flying near full-scale aircraft and avoid flying near or over groups of people.

SAFETY PRECAUTIONS

Failure to follow these safety precautions may result in severe injury to yourself and others.

- Keep your face and body as well as all spectators away from the plane of rotation of the rotors whenever the battery is connected.
- Keep these items away from the rotors: loose clothing, shirt sleeves, ties, scarfs, long hair or loose objects such as pencils or screwdrivers that may fall out of shirt or jacket pockets into the rotors.
- The spinning blades of a model helicopter can cause serious injury. When choosing a flying site for your AXE 400 3D RTF, stay clear of buildings, trees and power lines. AVOID flying in or near crowded areas. DO NOT fly close to people, children or pets. Maintain a safe pilot-to-helicopter distance while flying.

1. Your AXE 400 3D RTF should not be considered a toy, but rather a sophisticated, working model that functions very much like a full-size helicopter. Because of its performance capabilities, the AXE 400 3D RTF, if not assembled and operated correctly, could possibly cause injury to yourself or spectators and damage to property.

2. You must assemble the model according to the instructions. Do not alter or modify the model, as doing so may result in an unsafe or unflyable model. In a few cases the instructions may differ slightly from the photos. In those instances the written instructions should be considered as correct.

3. You must correctly install all R/C and other components so that the model operates correctly on the ground and in the air.

4. You must check the operation of the model before every flight to insure that all equipment is operating and that the model has remained structurally sound. Be sure to check linkages or other connectors often and replace them if they show any signs of wear or fatigue.

5. If you are not an experienced pilot or have not flown this type of model before, we recommend that you get the assistance of an experienced pilot in your R/C club for your first flights. If you're not a member of a club, your local hobby shop has information about clubs in your area whose membership includes experienced pilots.

We, as the manufacturer, provide you with a top quality, thoroughly tested helicopter and instructions, but ultimately the quality and flyability of your finished model depends on how you build it; therefore, we cannot in any way guarantee the performance of your completed model, and no representations are expressed or implied as to the performance or safety of your completed model.

Remember: Take your time and follow the instructions to build a safe and enjoyable model.

ITEMS REQUIRED

The following items must be purchased separately:

- (8) AA Alkaline cells (SANP3500 AA 4-pack x2)

FLIGHT BATTERY

Hovering, Basic Aerobatics and 3D

- GPMP0406 11.1V 2000mAh Battery LiPo Flight Battery
- GPMP0617 Great Planes ElectriFly LiPo 11.1V 2100mAh 20C Power

Hovering, Basic Aerobatics, Mild 3D and Aggressive 3D

- GPMP0520 Great Planes LiPo 11.1V 2200mAh 25C T-Rex MX450 Heli
- FPWP0327 FlightPower LiPo 11.1V 2170mAh 25C EVO25 3S Balance

Also required is an appropriate battery charger for your flight battery.

KIT INSPECTION

Before starting assembly, take an inventory of the AXE 400 3D RTF to make sure it is complete, and inspect the parts to make sure they are of acceptable quality. If any parts are missing or are not of acceptable quality, or if you need assistance with assembly, contact Product Support. When reporting defective or missing parts, use the part names exactly as they are written in the **Kit Contents** list.

Heli-Max Product Support:
3002 N. Apollo Drive, Suite 1
Champaign, IL 61822
Telephone: (217) 398-8970, ext. 5
Fax: (217) 398-7721
E-mail: helihotline@hobbico.com

WARRANTY

Heli-Max™ guarantees this kit to be free from defects in both material and workmanship at the date of purchase. This warranty does not cover any component parts damaged by use or modification. **In no case shall Heli-Max's liability exceed the original cost of the purchased kit.** Further, Heli-Max reserves the right to change or modify this warranty without notice.

In that Heli-Max has no control over the final assembly or material used for final assembly, no liability shall be assumed nor accepted for any damage resulting from the use by the user of the final user-assembled product. By the act of using the user-assembled product, the user accepts all resulting liability.

If the buyer is not prepared to accept the liability associated with the use of this product, the buyer is advised to return this kit immediately in new and unused condition to the place of purchase.

To make a warranty claim, send the defective part or item to Hobby Services at this address.

**Hobby Services
3002 N. Apollo Dr., Suite 1
Champaign, IL 61822
USA**

Include a letter stating your name, return shipping address, as much contact information as possible (daytime telephone number, fax number, e-mail address), a detailed description of the problem and a photocopy of the purchase receipt. Upon receipt of the package the problem will be evaluated as quickly as possible.

KIT CONTENTS



1. Transmitter

2. Helicopter

OPERATIONAL WARNINGS

CAUTION! A separate Battery Eliminator Circuit (BEC) must be used if you decide to change the stock (Futaba® S3114) servos to some other type of analog or digital servos. We highly recommend the Castle Creations CC BEC 10A Switching Regulator (CSEM0005).

DANGER! Please allow a 10 minute cool down period after each flight so the Electronic Speed Control (ESC) can cool down. Failure to do so may cause loss of control due to the ESC overheating and shutting down.

DANGER! Please inspect the wooden main rotor blades before each flight for damage. If any damage is found or if the blades have been crashed, please replace the blades before flying the model again.

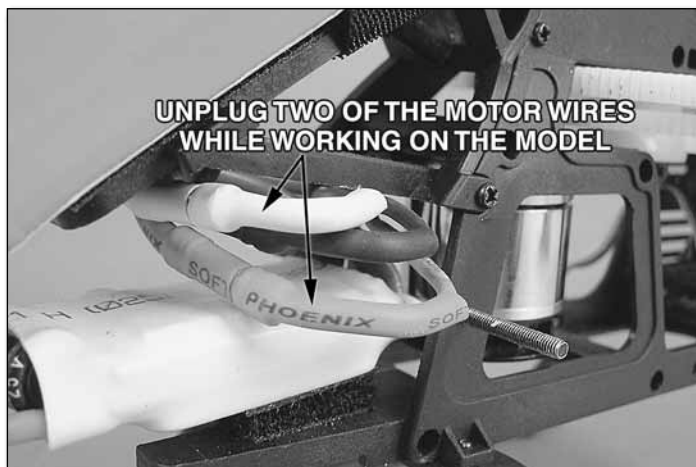
CAUTION! If the rotor head speed ever drops suddenly in flight please land the model immediately and remove the body. Inspect the battery temperature and ensure that it has not exceeded 140°F and ensure that the ESC has not overheated. The ESC does have a thermal protection built in

which will reduce the power output to safe levels when the safe operating temperatures have been exceeded. If this has occurred please allow the model 10 minutes to cool down.

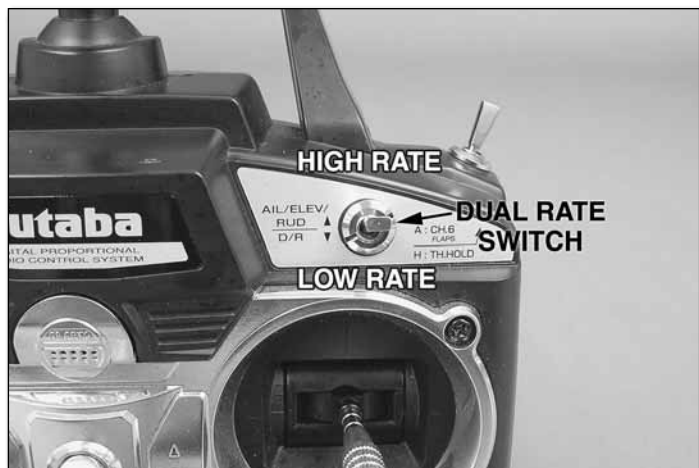
WARNING! The ESC does have a soft cut function that will reduce the power output to protect the flight battery. Toward the end of a flight, if you notice a slight power reduction, land the model immediately and re-charge the battery. The flight time of the AXE 400 3D RTF can be as long as 10 minutes but this will vary depending on your flying style.

CAUTION! After a crash you must inspect all plastic parts on the helicopter for damage before flying the model again.

ELECTRIC MOTOR WARNING

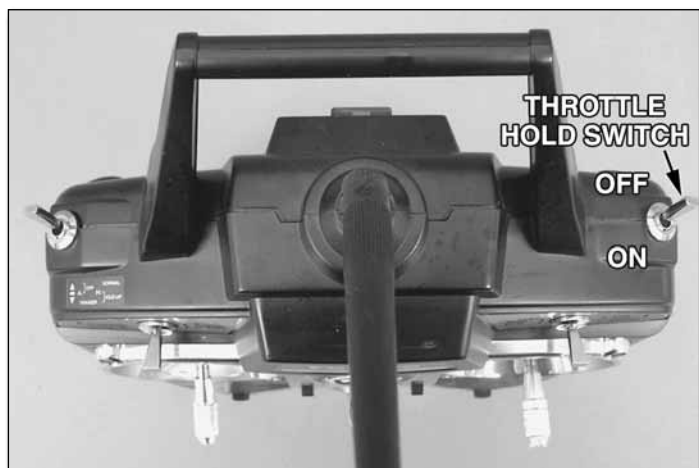


Electric-powered models are very dangerous due to the high power they are capable of generating instantly. Please remove the pinion gear or unplug two of the motor wires while working on the model.



The Dual Rate Switch changes the control rate of the helicopter. The High Rate provides the maximum control which is necessary for 3D flight and aerobatics. The low rate reduces control throw which makes the model easier to fly. The low rate is recommended for your first flight. Once you have become accustomed to the AXE 400 3D RTF please feel free to use high rate if you prefer.

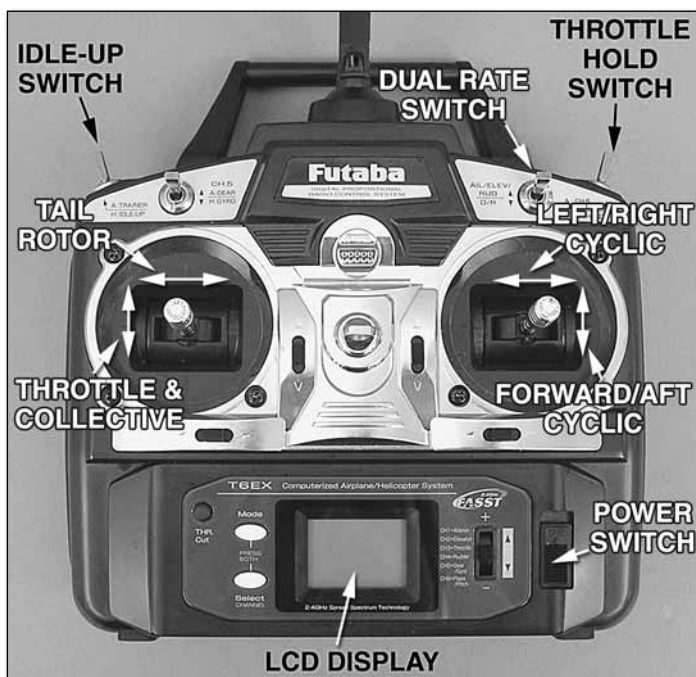
TRANSMITTER FUNCTION SWITCHES



The Throttle Hold Switch is used to disable the power output of the motor but has no effect on the other controls. The Throttle Hold Function was originally intended for autorotation landings (off power descent to landing; this maneuver is extremely difficult and it is recommended that you do not attempt it unless you have no other choice).

In addition to autorotation the throttle hold function can be used as a safety switch while handling the model since it disables the motor. Turn the transmitter on and set the Throttle Hold Switch to the on position. Now you can safely connect the flight battery without having to worry about inadvertently moving the throttle stick. Once you place the model on the ground, verify that the idle up switch is off and the throttle stick has been moved to its lowest position. Then, simply turn the throttle hold off. The model is now ready to fly.

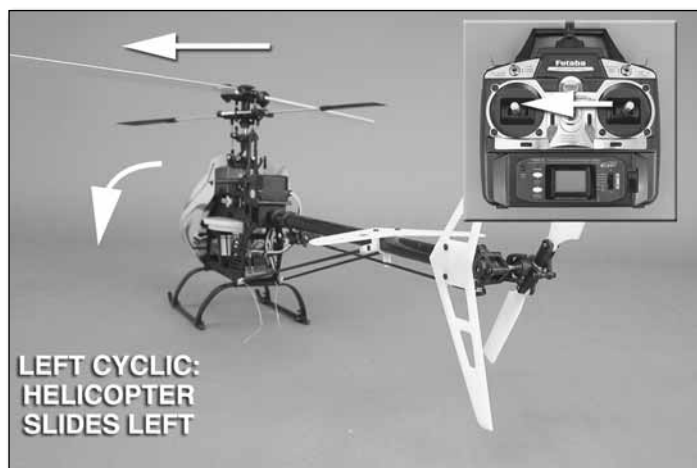
Another use for the throttle hold function is to disable the motor before a crash without having to drop the collective stick (possibly forcing the model into the ground). Disabling the motor before a crash will prevent a lot of damage.





The Idle-Up function is disabled within the transmitter for safety. If you are beginning aerobatics or are an experienced pilot and feel you have a need for the Idle Up function, then please follow the instructions on page 11 to enable this function.

LEFT CYCLIC



Moving the cyclic stick left will cause the helicopter to tilt left and start moving in that direction.

AFT CYCLIC



Moving the cyclic stick backwards (towards you) will cause the helicopter to tilt backwards and start moving that direction.

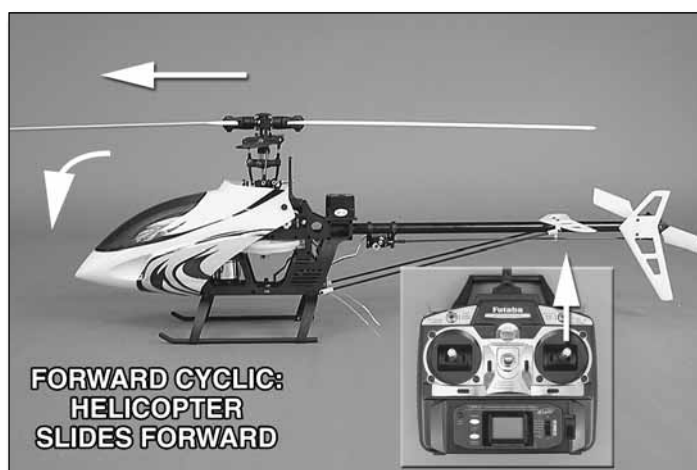
CONTROLS

RIGHT CYCLIC



Moving the cyclic stick right will cause the helicopter to tilt right and start moving that direction.

FORWARD CYCLIC



Moving the cyclic stick forward (away from you) will cause the helicopter to tilt forward and start moving that direction.

INCREASING THROTTLE & COLLECTIVE PITCH - CLIMB



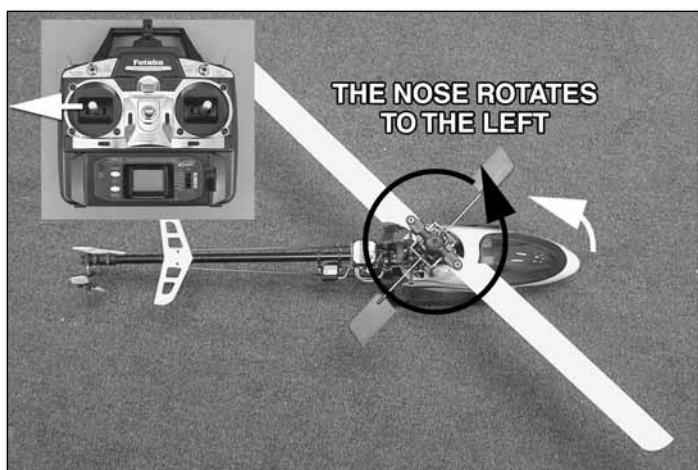
Moving the collective stick forward (away from you) will cause the helicopter to climb higher.

DECREASING THROTTLE & COLLECTIVE PITCH - DESCEND



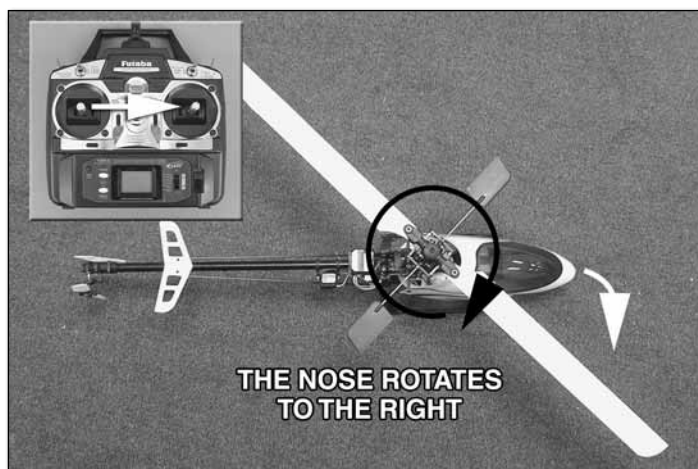
Moving the collective stick backwards (towards you) will cause the helicopter to descend.

TAIL ROTOR LEFT



Moving the tail rotor stick left will cause the helicopter nose to move left (counterclockwise).

TAIL ROTOR RIGHT



Moving the tail rotor stick right will cause the helicopter nose to move right (clockwise).

GET THE MODEL READY TO FLY

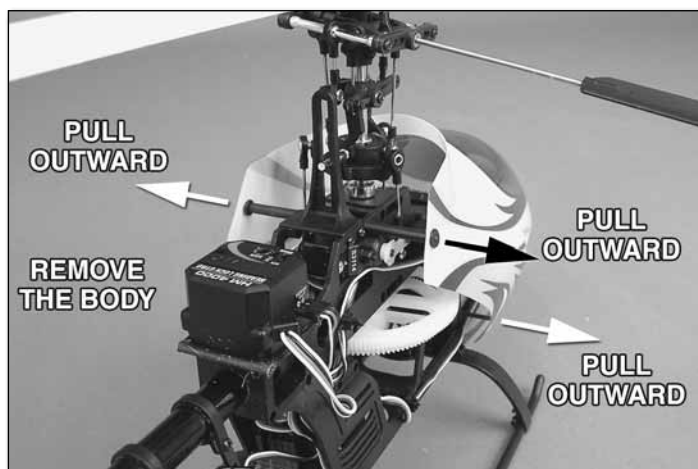
INSTALL BATTERIES IN THE TRANSMITTER

Remove the battery cover from the back of the transmitter and install eight "AA" batteries into the transmitter. Double-check the polarity of each battery before replacing the battery cover.

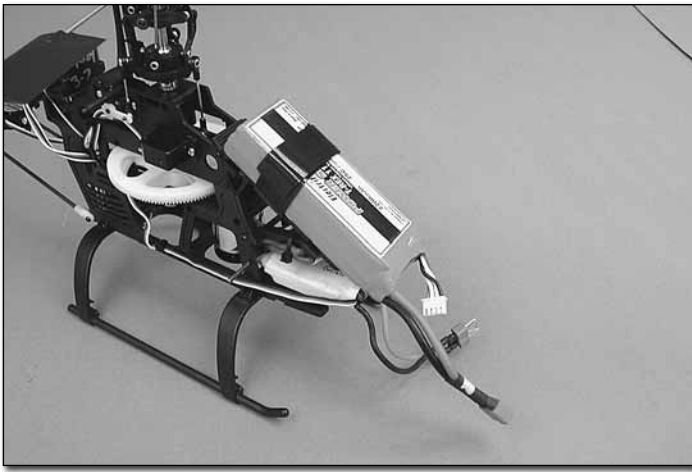
CHARGE THE FLIGHT BATTERY

Please follow the instructions provided with your battery and charger. Charge your flight battery.

INSTALL THE FLIGHT BATTERY



Remove the body by pulling outward on the upper body, removing the grommets from the body mounts. Rotate the body downward and pull outward on the two lower body mounts while simultaneously pulling the body forward.



In the following step do not connect the flight battery to the ESC until you are instructed to do so. With the power lead facing downward, place the flight battery onto the battery tray and attach using the battery strap as shown.

FIND A SUITABLE LOCATION TO FLY

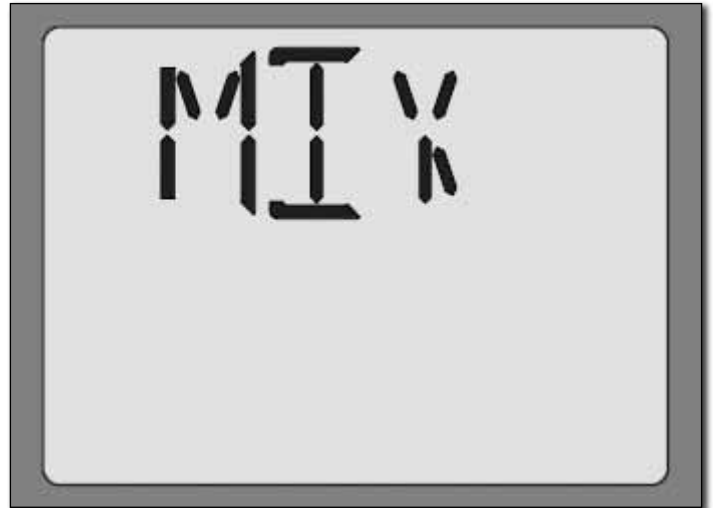
During your first flights it is important to have light winds and an assistant to keep an eye on things around you. Also, if you are flying from grass, make sure it has been cut low as this will allow the helicopter to slide around without catching. Make sure there are no obstacles in your flying area to distract you during flight.

TURN THE TRANSMITTER ON



Verify that the Throttle Hold and Idle Up functions are off and slide the power switch up to turn the transmitter on.

MIX WARNING



If the transmitter is turned on with the Throttle Hold or Idle Up function switched on, the screen will show "MIX" and a warning will sound. Please turn the Throttle Hold and Idle Up functions off to continue.

CHECK THE TRANSMITTER VOLTAGE



Once the transmitter has been turned on check the voltage display on the transmitter. If the voltage is 9.6V or less you must replace the old alkaline batteries with new ones before flying again.

CONNECTING THE FLIGHT BATTERY



Before connecting the flight battery verify that the Idle Up Switch and Throttle Hold switches are off and verify that the throttle stick is in the lowest position.

Warning! Once the flight battery has been connected the helicopter will have full power available. Please take proper measures to ensure that the throttle stick is not moved and that the Idle Up switch is not turned on while handling the model.

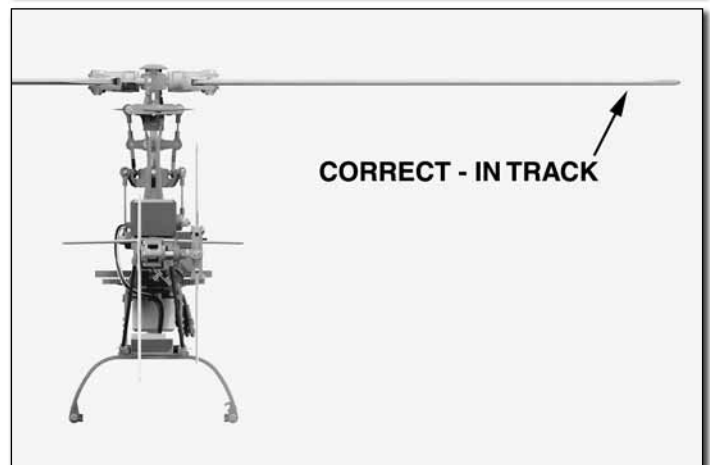
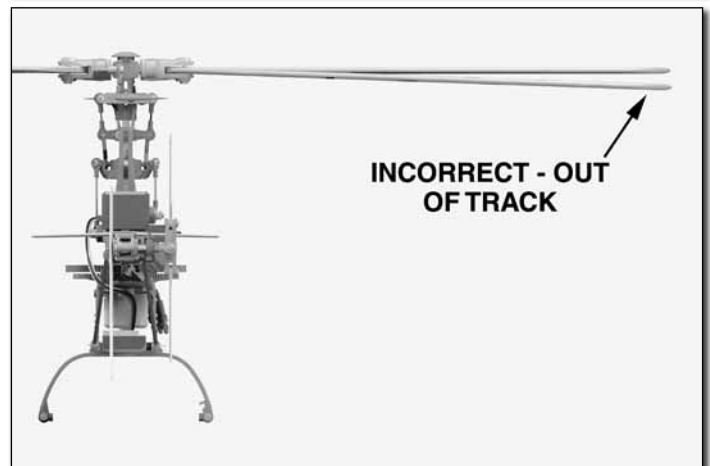
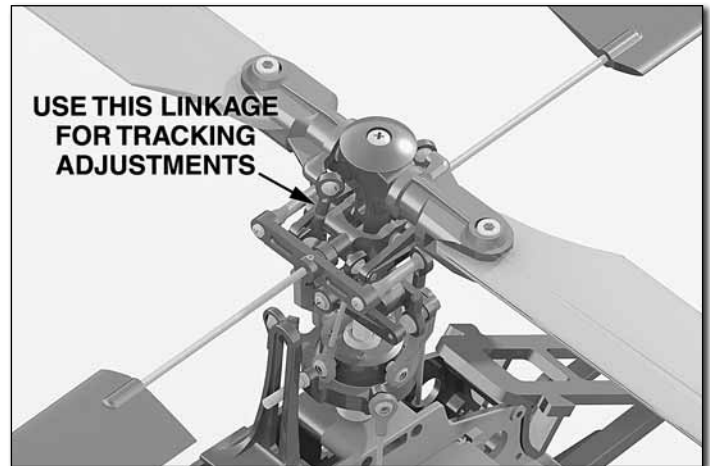


With the helicopter sitting still on a flat surface, connect the flight battery to the ESC. The helicopter must remain still for the gyro to initialize properly. This process takes approximately 5 seconds. The ESC will beep, indicating that it is now armed and ready for flight. If this beep is not heard then disconnect the flight battery from the ESC and ensure that the Idle Up switch is turned off and the throttle stick is in the lowest position.

Once the ESC and gyro have initialized, carry the model at least 30ft from where you intend to stand during flight. Place the model on the flat, smooth ground.

TRACKING THE MAIN BLADES

WARNING! Always wear safety glasses when operating this model or Tracking the Main Blades.



The first step before flying the helicopter is to verify that the main rotor blades are "In Track". This task is much easier if you have an observer view the blades. This allows you to concentrate on controlling the model.

With the helicopter on the ground at least 30 ft away from you, slowly increase the throttle to bring the main rotor up to speed and observe whether the rotational planes of

the blades are the same. If they are not, adjust one of the linkages to bring the blades into the same plane.

TAKEOFF

During your first flight it is important to have light winds and an assistant to keep an eye on things around you. Also, if you are flying from grass, make sure it's cut low as this will allow the helicopter to slide around without catching. Also make sure there are no obstacles in your flying area to distract you.

Slowly add power and observe the model. If you feel it needs trimming, do so before lift off. You will find that model helicopters never allow you to return the sticks to center. Simply hold the sticks as needed to keep a steady hover. Please don't fight the trim too much as it is a normal thing to experience. Winds have a large effect on model helicopters. Please wait for calmer days and slowly work into windy days.

You will notice the cyclic controls lag slightly behind your inputs. This is perfectly normal and something you become accustomed to. It is normal to drift around some in a hover, until you get used to flying the model. The cyclic controls on the AXE 400 3D RTF are fairly sensitive so only small movements are necessary.

HOVERING

Once the helicopter is in the air simply try to keep the helicopter in one spot. This will take some practice and wind has a big effect on the stability of the helicopter. Be patient and slowly progress. Trying to rush the learning process can be costly.

LANDING

Level the helicopter into a steady hover and slowly decrease power until the helicopter settles onto the ground.

BASIC MANEUVERS

Once you are comfortable with hovering at different orientations and landing, it's time to move on to more advanced maneuvers.

Slow Pirouettes: Add a small amount of tail rotor (left or right) and try rotating the helicopter slightly sideways and see if you can hold it there. If you become uncomfortable bring the tail back towards you. Once you are comfortable, try moving the helicopter to the side and turning back.

Then fly back to the other side in straight lines. You can try rotating the helicopter around 360°, which is called a pirouette. The helicopter can drift during this maneuver so make certain you have plenty of room when you first start practicing.

Nose-In Hovering: After pirouettes it's time to move onto nose-in hovering. The best bet is to wait for a calm day. Take off and climb to 15 feet, practice half pirouettes from tail-in

to nose-in hovering, and try to lengthen the delay between transitions. This will allow you to practice nose-in and still give you a chance to get out of trouble. As you improve you'll remain nose-in for longer periods of time.

Forward Flight: Now it's time to work into basic forward flight. Just take the basic hovering maneuvers listed above and slowly fly out farther and faster and always bring the helicopter back after one pass. Practice controlled slow flight in close as well. The more time you spend practicing here, the easier things will be later on.

AEROBATICS

So you are getting comfortable in fast forward flight? Well, now it's time to slowly progress into aerobatics. Once you are in forward flight start using the idle up switch* which raises the rotor RPM for aerobatics and allows the AXE 400 3D RTF to fly inverted (*please refer to page 11 to activate this function). Also, in wind it may be difficult to descend to land without the idle up on.

Chandelles: Your first step is chandelles. Fly straight across in front of you and pull up to a 45° angle. Now at the top, when the helicopter slows down to a stop, apply left or right tail rotor to bring the nose around 180° and continue back down the 45° angle. As you progress with the maneuver you can pull a greater angle than 45°, but 90° would be considered a stall turn.

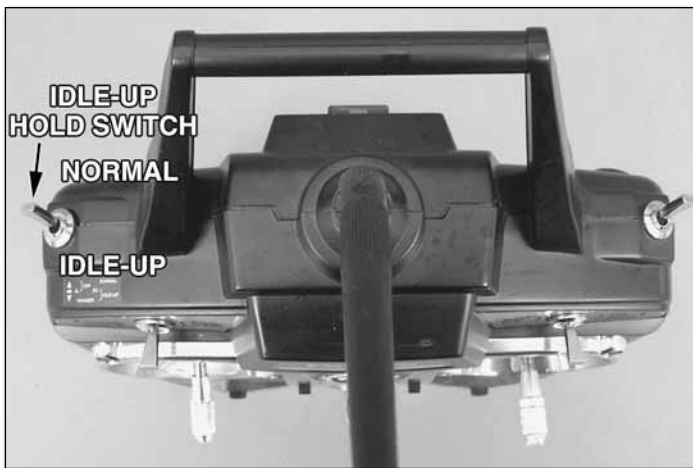
Loops: Once you become comfortable with the chandelles and stall turns it's time to move onto the loop. The key to the loop is to enter with plenty of speed. Start pulling aft cyclic to enter the loop and as the model transitions to inverted at the top of the loop pull back on the throttle (towards negative (-) collective). This will help maintain altitude. As the model returns back to vertical add some positive (+) collective to maintain the speed. One of the most common mistakes made on loops is using too much negative (-) collective at the top.

Flips: Be certain to start with plenty of altitude. From an upright hover slowly add in full forward cyclic. As the model approaches vertical, bring the collective stick back to center. Now, as the model continues to inverted, you will need to start adding in negative (-) collective (or pull the collective stick back towards yourself). As the model transitions back to vertical, again bring the collective stick back to the middle and start adding in positive (+) collective as the model returns back to upright. It's simply a matter of timing. The most important thing is, do not throw the sticks around. This can cause the head speed to drop and may cause the tail to drift.

Inverted Hovering: Keep in mind flying a helicopter inverted is very difficult but can be learned. One of the main problems is 3 out of 4 of the controls are reversed (forward/aft cyclic, collective and tail rotor). You have to mentally reverse these while flying. It will take some practice. Take the loop you learned above and just hold the inverted portion for short

periods of time. As you become accustomed to the reversed controls, you will extend the time inverted. It is very difficult and will take some practice. Also, make sure you have plenty of altitude for recovery if needed.

ACTIVATING THE IDLE UP FUNCTION



WARNING! If you inadvertently select the Idle-Up function the throttle will instantly power up to at least 85% power and this may damage the helicopter or possibly cause injury to yourself or others. For safety leave this function disabled until you require it. Switch to the Idle Up function once you are up and hovering in the normal flight condition and be sure to switch back to the Normal flight condition before landing.

Please keep in mind that the pitch curve used for "Normal" flight mode is -1 degree to +10 degrees. Once the Idle Up function is enabled the Idle Up Pitch Curve will be -10 degrees to +10 degrees. The additional 9° of negative pitch will cause the helicopter to be extremely sensitive to negative pitch inputs. Care must be taken in order to avoid slamming the model into the ground when flying in Idle Up mode.

If you are beginning aerobatics or are an experienced pilot and feel you have a need for the Idle Up function, then please follow the instructions within the transmitter manual (Page 24) and enable the "I-TH" function. The Idle Up throttle and pitch curves are already set up for you so only the function needs to be enabled.

GOOD LUCK AND GREAT FLYING!

QUICK REFERENCE TO TRANSMITTER FUNCTIONS

Please refer to the included manufacturer's instruction manual for complete details for each function. The initial set up of the transmitter suits a beginner modeler. If you feel something needs to be changed, please use the items listed below as a general guide.

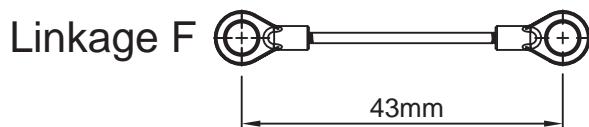
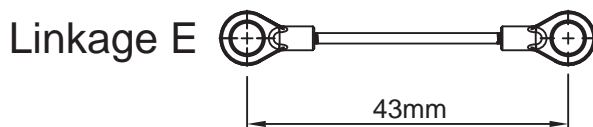
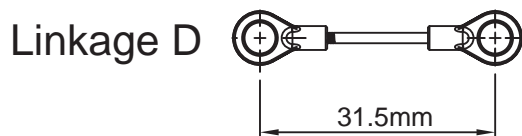
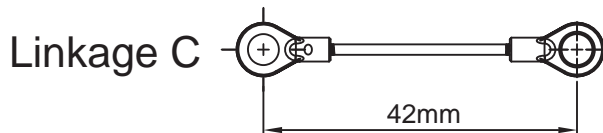
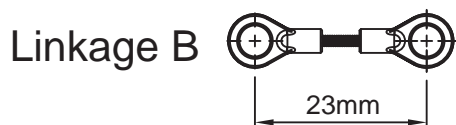
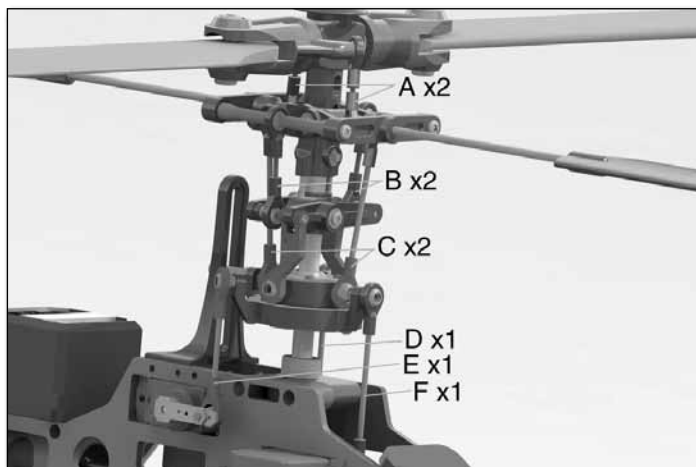
[D/R] – Dual Rate. Adjustment range from 30% to 100%. You may adjust these to suit your preferences. Default Settings – 100% for High Rate and 70% for Low Rate. Lower percentage equals less control throw.

[D/R - EXPO] – Exponential Rate. Adjustment range from 30% to 100%. You may adjust these to suit you. Lower percentages will create a softer feeling around center stick. Default Settings -50% for High Rate and -35% for Low Rate.

[GYRO] – Adjusts the amount of corrective gain the gyro uses to make corrections. Higher percentages may hold the tail better. If you notice the tail drifting in flight, then raise the gain percentage. If you notice the tail oscillating quickly reduce the gain. A gain of 45% was found to be the best starting point.

[SWSH] – Adjust the cyclic and collective control rate. Please use the dual rate function to adjust the left/right cyclic and forward/aft cyclic rate. If you feel the model could use some additional collective pitch please feel free to raise the [P] function up to 10%. The starting value is +35% and the maximum value that should be used is +45%.

LINKAGE ROD LENGTHS



Tail Rotor Pushrod 286mm

ORDERING PARTS

Replacement parts for the Heli-Max AXE 400 3D RTF are available using the order numbers in the Parts List on page 18. The fastest, most economical service can be provided by your hobby dealer.

To locate a hobby dealer, visit the Hobbico web site at **www.hobbico.com**. Choose "Where to Buy" at the bottom of the menu on the left side of the page. Follow the instructions provided on the page to locate a U.S., Canadian or International dealer.

Parts may also be ordered directly from Hobby Services by calling (217) 398-0007, or via facsimile at (217) 398-7721, but full retail prices and shipping and handling charges will apply. Illinois and Nevada residents will also be charged sales tax. If ordering via fax, include a Visa® or MasterCard® number and expiration date for payment.

Mail parts orders and payments by personal check to:

Hobby Services
3002 N. Apollo Drive, Suite 1
Champaign, IL 61822

Be certain to specify the order number exactly as listed in the Parts List. Payment by credit card or personal check only; no C.O.D.

If additional assistance is required for any reason contact Product Support by e-mail at **heli hotline@hobbico.com**, or by telephone at (217) 398-8970.

AXE 400 3D PARTS LIST

| # | Stock #..... | Description..... | Includes |
|----|----------------|---------------------------------------|----------|
| 1 | HMxE7931 | Landing Skid..... | 2 |
| 2 | HMxE7932 | Landing Skid Support..... | 2 |
| 3 | HMxE7324 | Main Frame Screw Set | 44 |
| 4 | HMxE7382 | Canopy Red | 1 |
| 5 | HMxE7383 | Canopy Grommets..... | 2 |
| 6 | HMxE8024 | Tail Gear Drive | 1 |
| 7 | HMxE7325 | Main Shaft Bolt & Nut Set..... | 2 |
| 8 | HMxE8025 | One-Way Bearing Shaft..... | 1 |
| 9 | GPMP0406 | 11.1V 2000mAh LiPo Battery | 1 |
| 10 | HMxE7933 | Battery Tray..... | 1 |
| 11 | HMxE4130 | Battery Tie | 2 |
| 12 | HMxE8026 | Main Rotor Gear w/One-Way Bearing ... | 1 |
| 13 | HMxE8520 | Main Shaft Collar | 1 |
| 14 | HMxE8825 | Bearings Main Shaft | 2 |
| 15 | HMxE7934 | Main Frame..... | 1 |
| 16 | HMxG8005 | Main Motor 3500 KV | 1 |
| 17 | HMxE7935 | Canopy Supports..... | 2 |
| 18 | HMxE7326 | Motor Mount Screws..... | 2 |
| 19 | HMxE8028 | 13T Pinion Gear | 1 |
| 20 | FUTM0414 | Servos | 4 |
| 21 | HMxE7936 | Servo Mounts | 8 |
| 22 | HMxE8521 | Control Linkage Set..... | 1 |

| | | |
|----|---|----|
| 23 | HMxE8501 Swashplate | 1 |
| 24 | HMxE8512 Mixing Arms..... | 16 |
| 25 | HMxE8502 Washout Base | 1 |
| 26 | HMxE8503 Main Shaft | 1 |
| 27 | HMxE8504 Seesaw Bushing Set | 2 |
| 28 | HMxE8505 Spindle Bolt Set..... | 1 |
| 29 | HMxE8506 Blade Grip Bolt Set..... | 1 |
| 30 | HMxE8507 Main Blade Grips | 1 |
| 31 | HMxE8508 Dampening Shims | 1 |
| 32 | HMxE8827 Bearings Main Grips..... | 6 |
| 33 | HMxE8509 Head Dampeners | 4 |
| 34 | HMxE8510 Feathering Spindle | 1 |
| 35 | HMxE8511 Head Block | 1 |
| 36 | HMxE8512 Mixing Arms..... | 2 |
| 37 | HMxE8513 Seesaw..... | 1 |
| 38 | HMxE8514 Flybar Control Set..... | 1 |
| 39 | HMxE8515 Flybar..... | 1 |
| 40 | HMxE8516 Flybar Paddles..... | 2 |
| 41 | HMxE8517 Control Ball Set..... | 26 |
| 42 | HMxE8519 Washout Control Arms | 2 |
| 43 | HMxE8518 Swashplate Stay | 1 |
| 44 | HMxE8027 Tail Belt Drive Gear..... | 1 |
| 45 | HMxE8336 Tail Boom Support | 2 |
| 46 | HMxE8637 Tail Rotor Linkage..... | 1 |
| 47 | HMxE8638 Tail Servo Mounts | 2 |
| 48 | HMxE8639 Tail Boom..... | 1 |
| 49 | HMxE8640 Horizontal Fin Mount | 1 |
| 50 | HMxE8641 Horizontal Fin | 1 |
| 51 | HMxE8642 Vertical Fin..... | 1 |
| 52 | HMxE8643 Tail Rotor Gear Case | 1 |
| 53 | HMxE8644 Tail Belt Pulley | 1 |
| 54 | HMxE8645 Tail Rotor Shaft Assembly..... | 1 |
| 55 | HMxE8646 Tail Rotor Control Arm | 1 |
| 56 | HMxE8647 Tail Pitch Slider Control Set | 1 |
| 57 | HMxE8648 Tail Rotor Hub..... | 1 |
| 58 | HMxE8649 Tail Rotor Grips..... | 1 |
| 59 | HMxE8426 Tail Rotor Blades | 2 |
| 60 | HMxE8323 Main Rotor Blades | 2 |
| 61 | HMxM2009 ... Brushless ESC | 1 |
| 62 | HMxE8650 Tail Rotor Drive Belt..... | 1 |
| | HMxE7384 Canopy Green RXR..... | 1 |
| | HMxE7385 Canopy White | 1 |
| | HMxE8029 Main Rotor Gear without One-Way Bearing..... | 1 |

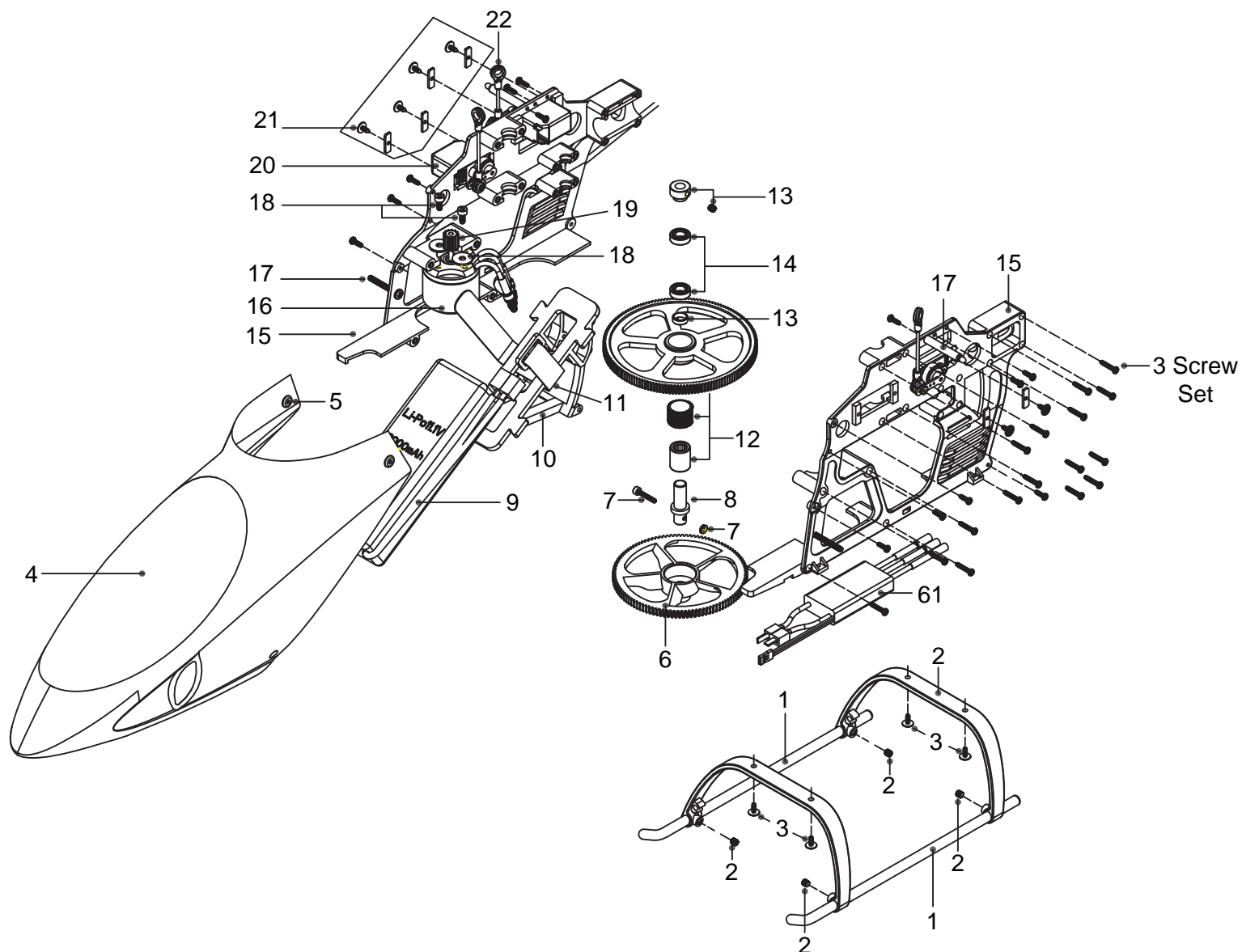
OPTIONAL PARTS

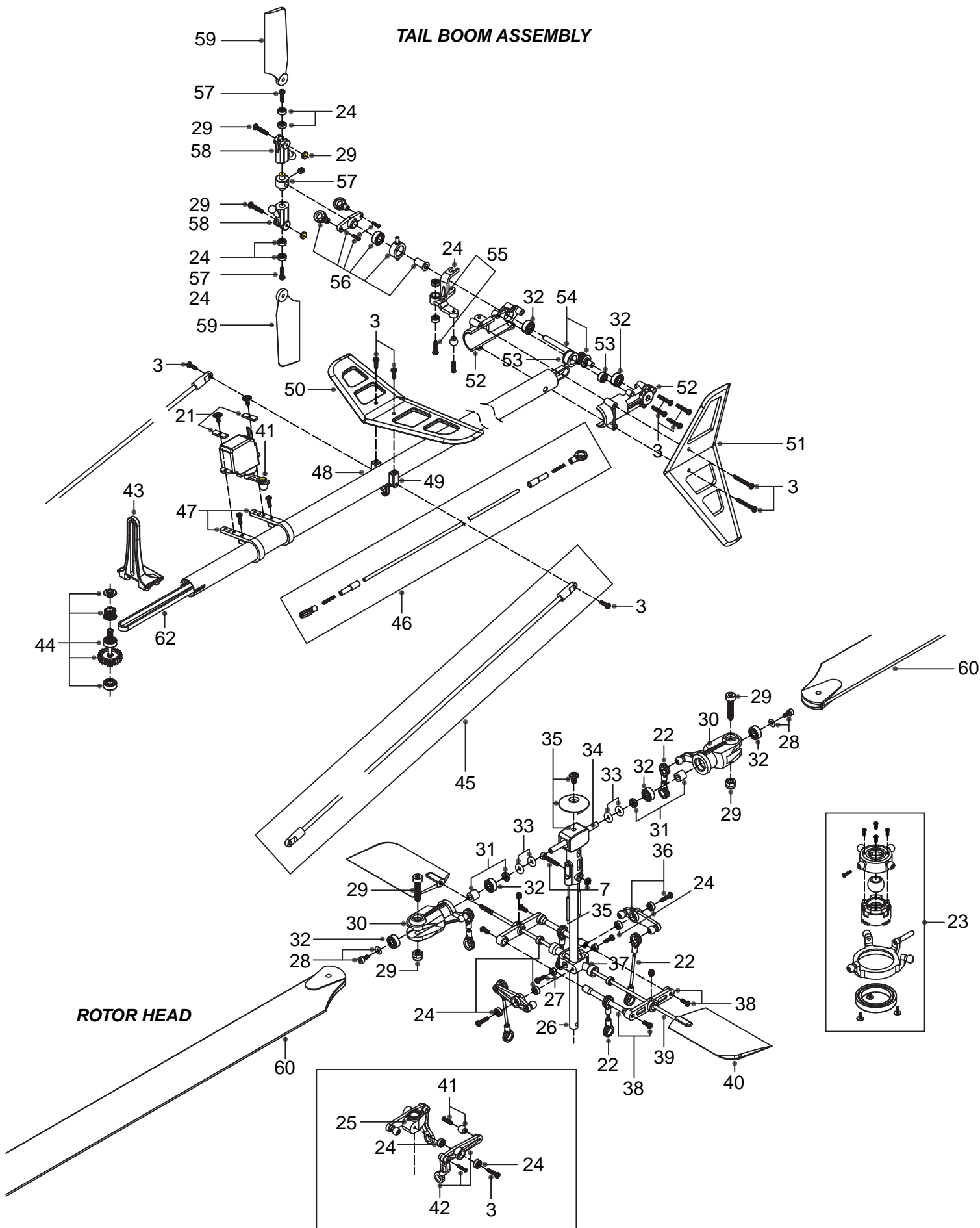
Stock #..... Description


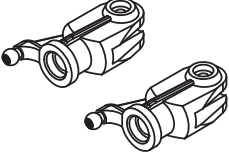

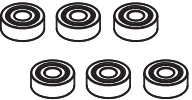
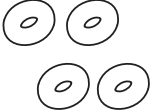
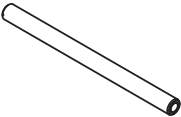
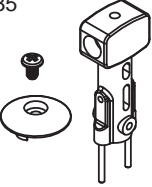
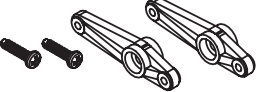
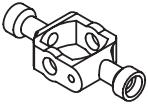
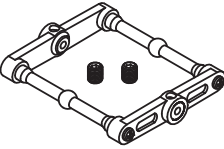
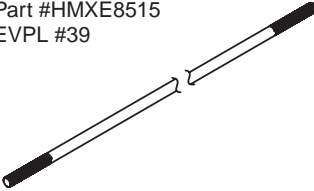
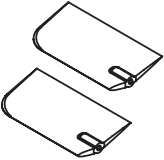
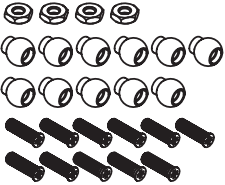
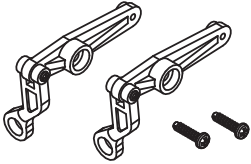
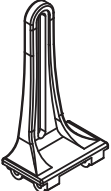

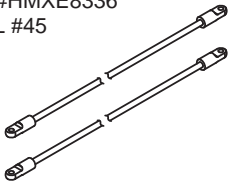

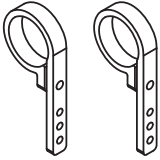
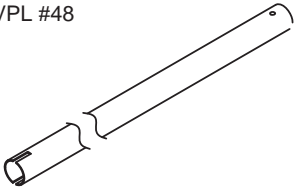
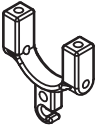

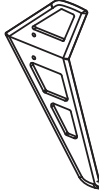
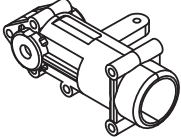

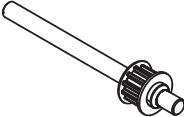

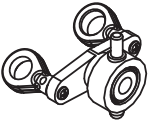
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| HMxE7483 CNC Head Block AXE 400 |
| HMxE7482 CNC Main Blade Grips (2) AXE 400 |
| HMxE7487 CNC Seesaw AXE 400 |
| HMxE7484 CNC Flybar Carrier AXE 400 |
| HMxE7485 CNC Washout Arms (2) AXE 400 |
| HMxE7486 CNC Washout Base AXE 400 |
| HMxE7488 CNC Swashplate AXE 400 |
| HMxE7489 CNC Tail Case AXE 400 |
| HMxE7490 CNC Tail Drive Belt Pulley AXE 400 |
| HMxE7491 CNC Counter Drive Belt Pulley AXE 400 |
| HMxE7492 CNC Tail Blade Grips (2) AXE 400 |
| HMxE7494 CNC Tail Servo Mount (2) AXE 400 |
| HMxE7495 CNC Boom Support Ends (4) AXE 400 |
| HMxE7496 CNC Boom and Fin Clamp AXE 400 |
| HMxE7497 CNC Head Button AXE 400 |
| HMxE7498 Carbon Fiber Vertical Fin AXE 400 |
| HMxE7499 Carbon Fiber Horizontal Fin AXE 400 |

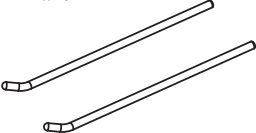
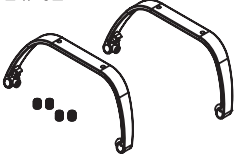
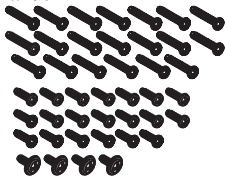
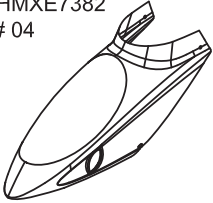


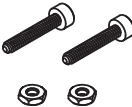

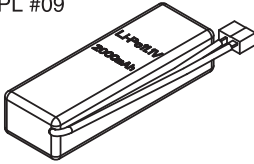
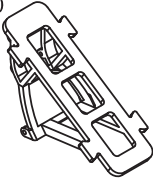
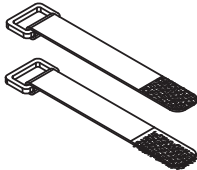



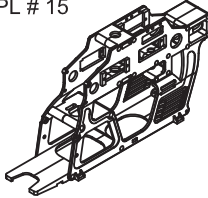

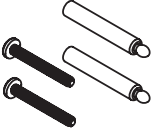
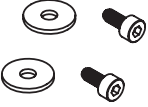

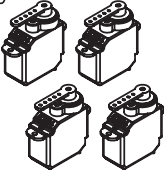

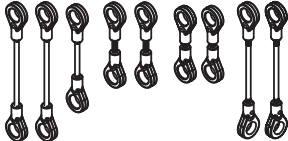



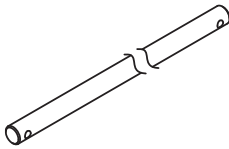


EXPLODED VIEWS


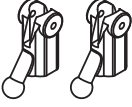
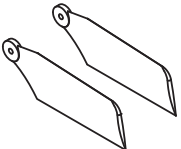
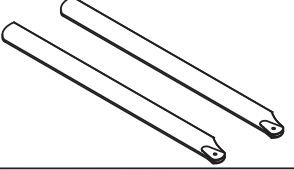
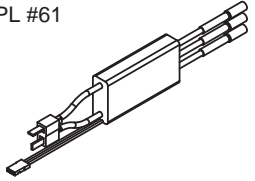
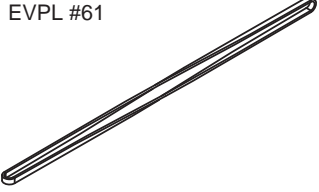

MAIN FRAME





| | | | |
|--|--|--|--|
| <p>Blade Grip Bolt Set Part #HMXE8506 EVPL #29</p> <p>1Set</p>  | <p>Main Blade Grip Set Part #HMXE8507 EVPL #30</p> <p>1Set</p>  | <p>Dampening Shim Set Part #HMXE8508 EVPL #31</p> <p>1Set</p>  | <p>Bearings Main Grips/Tail Shaft Part #HMXE8827 EVPL #31</p> <p>6Pcs</p>  |
| <p>Head Dampeners Part #HMXE8509 EVPL #33</p> <p>4Pcs</p>  | <p>Feathering Spindle Part #HMXE8510 EVPL #34</p> <p>1Pc</p>  | <p>Head Block Part #HMXE8511 EVPL #35</p> <p>1Set</p>  | <p>Mixing Arms Part #HMXE8512 EVPL #36</p> <p>2Pcs</p>  |
| <p>Seesaw Part #HMXE8513 EVPL #37</p> <p>1Pc</p>  | <p>Flybar Control Set Part #HMXE8514 EVPL #38</p> <p>1Set</p>  | <p>Flybar Part #HMXE8515 EVPL #39</p> <p>1Pc</p>  | <p>Flybar Paddles Part #HMXE8516 EVPL #40</p> <p>2Pcs</p>  |
| <p>Control Ball Set Part #HMXE8517 EVPL #41</p> <p>1Set</p>  | <p>Washout Control Arm Set Part #HMXE8519 EVPL #42</p> <p>1Set</p>  | <p>Swashplate Stay Part #HMXE8518 EVPL #43</p> <p>1Pc</p>  | <p>Tail Rotor Belt Drive Gear Part #HMXE8027 EVPL #44</p> <p>1Set</p>  |
| <p>Tail Boom Support Part #HMXE8336 EVPL #45</p> <p>1Set</p>  | <p>Tail Rotor Pushrod Part #HMXE8637 EVPL #46</p> <p>1Set</p>  | <p>Tail Servo Mount Part #HMXE8638 EVPL #47</p> <p>2Pcs</p>  | <p>Tail Boom Part #HMXE8639 EVPL #48</p> <p>1Pc</p>  |
| <p>Horizontal Fin Brace Part #HMXE8640 EVPL #49</p> <p>1Pc</p>  | <p>Horizontal Fin Part #HMXE8641 EVPL #50</p> <p>1Pc</p>  | <p>Vertical Fin Part #HMXE8642 EVPL #51</p> <p>1Pc</p>  | <p>Tail Rotor Gear Case Part #HMXE8643 EVPL #52</p> <p>1Set</p>  |
| <p>Tail Belt Pulley Part #HMXE8644 EVPL #53</p> <p>1Set</p>  | <p>Tail Rotor Shaft Assembly Part #HMXE8645 EVPL #54</p> <p>1Set</p>  | <p>Tail Rotor Control Arm Set Part #HMXE8646 EVPL #55</p> <p>1Set</p>  | <p>Tail Pitch Slider Control Set Part #HMXE8647 EVPL #56</p> <p>1Set</p>  |

| | | | |
|---|---|--|--|
| Landing Skid 2PCS Part # HMXE7931 EVPL # 01  | Landing Skid Support 2PCS Part # HMXE7932 EVPL # 02  | Main Frame Screw Set 1SET Part # HMXE7324 EVPL # 03  | Canopy 1PC Part # HMXE7382 EVPL # 04  |
| Canopy Grommets 2PCS Part # HMXE7383 EVPL # 05  | Tail Drive Gear 1PC Part # HMXE8024 EVPL # 06  | Main Shaft Bolt & Nut Set 1SET Part # HMXE7325 EVPL # 07  | One-way Bearing Shaft 1PC Part # HMXE8025 EVPL # 08  |
| 11.1V 2000mAh Battery LiPo 1PC Part # GPMP0406 EVPL # 09  | Battery Tray 1PC Part # HMXE7933 EVPL # 10  | Battery Tie 2PCS Part # HMXE4130 EVPL # 11  | Main Rotor Gear Set With One-way Bearing 1SET Part # HMXE8026 EVPL # 12  |
| Main Shaft Collar Set 1SET Part # HMXE8520 EVPL # 13  | Bearings Main Shaft 2PCS Part # HMXE8825 EVPL # 14  | Main Frame 1SET Part # HMXE7934 EVPL # 15  | Main Motor 1PC Part # HMXG8005 EVPL # 16  |
| Canopy Support 2PCS Part # HMXE7935 EVPL # 17  | Motor Mount Screw Set 1SET Part # HMXE7326 EVPL # 18  | 13T Pinion Gear 1PC Part # HMXE8028 EVPL # 19  | Servo 4PCS Part # FUTM0414 EVPL # 20  |
| Servo Mounts 8PCS Part # HMXE7936 EVPL # 21  | Control Linkage Set 1SET Part # HMXE8521 EVPL # 22  | Swashplate 1SET Part # HMXE8501 EVPL # 23  | Bearings Mixing Arm/Pitch Slider 16PCS Part # HMXE8826 EVPL # 24  |
| Washout Base 1SET Part # HMXE8502 EVPL # 25  | Main Shaft 1PC Part # HMXE8503 EVPL # 26  | Seesaw Bushing Set 2PCS Part # HMXE8504 EVPL # 27  | Blade Grip Spindle Bolt Set 1SET Part # HMXE8505 EVPL # 28  |

| | | | |
|---|--|--|--|
| Tail Rotor Hub Part #HMXE8648 EVPL #57  | Tail Rotor Grips Part #HMXE8649 EVPL #58  | Tail Rotor Blades Part #HMXE8426 EVPL #59  | Main Rotor Blades Part #HMXM8323 EVPL #60  |
| ESC Part #HMXM2009 EVPL #61  | Tail Rotor Drive Belt Part #HMXM2009 EVPL #61  | Main Rotor Gear Without One-Way Bearing Part #HMXM8029 EVPL #12  | |

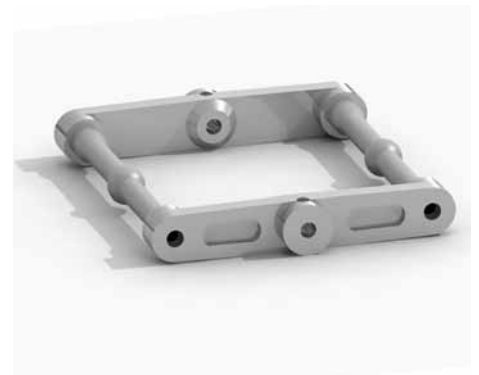
OPTIONAL PARTS



CNC Main Blade Grips (2 Pcs)
Part # **HMXE7482**



CNC Head Block (1 Pc)
Part # **HMXE7483**



CNC Flybar Carrier (1 Pc)
Part # **HMXE7484**



CNC Washout Arms (2 Pcs)
Part # **HMXE7485**



CNC Washout Base (1 Pc)
Part # **HMXE7486**



CNC Seesaw (1 Pc)
Part # **HMXE7487**



CNC Swashplate (1 Pc)
Part # **HMXE7488**



CNC Tail Case (1 Pc)
Part # **HMXE7489**



CNC Tail Drive Belt Pulley (1 Pc)
Part # **HMXE7490**



CNC Counter Drive Belt Pulley (1 Pc)
Part # **HMXE7491**



CNC Tail Blade Grips (2 Pcs)
Part # **HMXE7492**



CNC Mixer Arms (2 Pcs)
Part # **HMXE7493**



CNC Tail Servo Mount (2 Pcs)
Part # **HMXE7494**



CNC Boom Support Ends (2 Pcs)
Part # **HMXE7495**



CNC Boom and Fin Clamp (1 Pc)
Part # **HMXE7496**



Carbon Fiber Vertical Fin (1 Pc)
Part # **HMXE7498**



Carbon Fiber Horizontal Fin (1 Pc)
Part # **HMXE7499**

This model belongs to:

Name

Address

City, State Zip

Phone number

AMA number