

Weight: 2.65 oz [75g] no battery

Flying Weight: 4.26 oz [121g] with supplied flight battery

INSTRUCTION MANUAL

IMPORTANT PRECAUTIONS

- Only use the included charger with the included battery or replacement part (GPMP0407).
- Do not attempt to use this charger with NiCd or NiMH battery packs.
- · 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.



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INTRODUCTION

Thank you for purchasing the Heli-Max AXE™ CX Micro 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 CX Micro visit the Heli-Max web site at:

www.helimax-rc.com

Open the "Helicopters" link, and then select the AXE CX Micro. 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.

CAUTION: Be aware that the AXE CX Micro operates on the same frequency band as larger R/C models. If flying your AXE CX Micro within five miles of an R/C site, there is a real possibility that you could be operating your model on the same frequency (channel) as another R/C pilot. If this happens, a crash will result—with the person flying the more expensive model suffering the greater loss (and having greater potential for property damage or injury). The best thing to do is to join an R/C club and fly at the site where frequency control measures will be in effect. If you insist on flying elsewhere, always be aware of your proximity to R/C flying sites.

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.

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

IDENTIFY YOUR MODEL

No matter if you fly at an AMA sanctioned R/C club site or if you fly somewhere on your own, you should always have your name, address, telephone number and AMA number on or inside your model. It is **required** at all AMA R/C club flying sites and AMA sanctioned flying events. Fill out the identification tag on the back cover page and place it on or inside your model.

AMA SAFETY CODE (excerpts)

Read and abide by the following excerpts from the Academy of Model Aeronautics Safety Code. For the complete Safety Code refer to Model Aviation magazine, the AMA web site or the Code that came with your AMA license.

GENERAL

- 1) I will not fly my model aircraft in sanctioned events, air shows, or model flying demonstrations until it has been proven to be airworthy by having been previously successfully flight tested.
- 2) I will not fly my model aircraft higher than approximately 400 feet within 3 miles of an airport without notifying the airport operator. I will give right-of-way and avoid flying in the proximity of full-scale aircraft. Where necessary, an observer shall be utilized to supervise flying to avoid having models fly in the proximity of full-scale aircraft.
- 3) Where established, I will abide by the safety rules for the flying site I use, and I will not willfully and deliberately fly my models in a careless, reckless and/or dangerous manner.

- 5) I will not fly my model unless it is identified with my name and address or AMA number, on or in the model. **Note:** This does not apply to models while being flown indoors.
- 7) I will not operate models with pyrotechnics (any device that explodes, burns, or propels a projectile of any kind).

RADIO CONTROL

- 1) I will have completed a successful radio equipment ground check before the first flight of a new or repaired model.
- 2) I will not fly my model aircraft in the presence of spectators until I become a qualified flier, unless assisted by an experienced helper.
- 3) At all flying sites a straight or curved line(s) must be established in front of which all flying takes place with the other side for spectators. Only personnel involved with flying the aircraft are allowed at or in the front of the flight line. Intentional flying behind the flight line is prohibited.
- 4) I will operate my model using only radio control frequencies currently allowed by the Federal Communications Commission.
- 5) I will not knowingly operate my model within three miles of any pre-existing flying site except in accordance with the frequency sharing agreement listed (in the complete AMA Safety Code).
- 9) Under no circumstances may a pilot or other person touch a powered model in flight; nor should any part of the model other than the landing gear, intentionally touch the ground, except while landing.

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 CX Micro, 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 CX Micro 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 CX Micro, 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.

ADDITIONAL ITEMS REQUIRED

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

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.

ORDERING REPLACEMENT PARTS

Replacement parts for the Heli-Max AXE CX Micro are available using the order numbers in the **Replacement Parts List** on page 9. The fastest, most economical service can be provided by your hobby dealer.

KIT INSPECTION

Before starting assembly, take an inventory of the AXE CX Micro 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

KIT CONTENTS



- 1. Helicopter
- 2. Battery

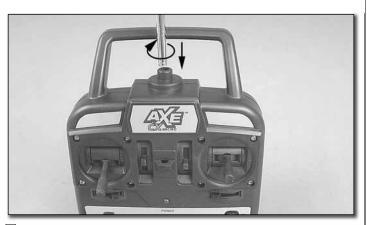
- 3. Charger
- 4. Transmitter

ASSEMBLY INSTRUCTIONS

INSTALL BATTERIES IN THE TRANSMITTER



☐ Remove the battery cover from the back of the transmitter, remove the battery box and install eight (8) "AA" batteries into the battery box. Double-check the polarity of each battery before placing the battery box back into the transmitter and replacing the battery cover.



☐ Insert the transmitter antenna into the top of the transmitter and turn it clockwise until it is tight.



☐ Turn on the transmitter using the power switch as shown above and verify that the LED indicator glows solid red. Turn

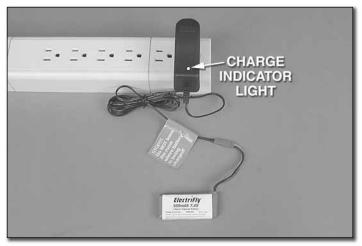
the transmitter off for now. If the LED indicator did not light then remove the battery box and verify that the polarity of the batteries are correct.

GET THE MODEL READY TO FLY

CHARGING THE FLIGHT BATTERY

WARNING!! ALWAYS ensure that the charge indicator light is green before connecting the flight battery to the charger.

ALWAYS unplug the battery from the charger when the charge process is complete. If the battery is left connected, the charger will discharge the battery, possibly damaging the battery or charger.



☐ Ensure that the flight battery is not connected to the charger and plug the charger into an AC outlet. The indicator light on the charger should illuminate solid green, indicating that the charger is ready. If the indicator light is any color other than green, then please ensure that the charger is connected to an active AC outlet.

☐ Plug the battery into the charger and the indicator light will turn red. Once the charge process is complete the indicator light will turn green again. The charging process may take up to four (4) hours.

The flight pack used to power the AXE CX Micro contains protective circuitry. If you experience any difficulties while charging or using the battery, please allow the battery to rest for two hours as this will allow the protection circuit to reset. This reset process is expected after a crash has occurred. If this issue re-occurs during normal use, please contact technical support for further assistance.

ELECTRIC MOTOR WARNING

Electric motors are very dangerous. Do not work on the model while the flight battery is plugged in as interference may cause the main rotor blades to spin, possibly causing injury to yourself.

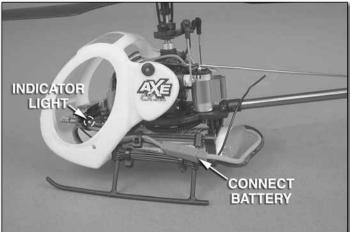
INSTALL THE BATTERY



Slide the battery into the AXE CX Micro as shown in the photo above.

TURNING THE MODEL ON





Always turn the transmitter on first and then extend the transmitter antenna. With the AXE CX Micro sitting still, plug

the battery into the ESC. The AXE CX Micro will need to sit still for 10 seconds so the gyro can initialize and determine center. Once the gyro has initialized the indicator light will glow solid green, indicating that the model is ready to fly. If the AXE CX Micro is moved during this initialization, the gyro will not operate properly and the indicator light will continue to flash. If the indicator light continues to flash upon connecting the battery it may be an indication that the battery needs charging.

Always step 15 feet away from the AXE CX Micro before operating the throttle. Do not hold onto the model and run it up. Safety first.

A safe start is built into the AXE CX Micro that prevents the motor from activating unless the collective stick has been lowered to its lowest position. If the motor won't run and turn the main blades, please make sure the collective stick is all the way down and leave it there for a couple of seconds. Then try moving the stick up slowly.

RANGE CHECK

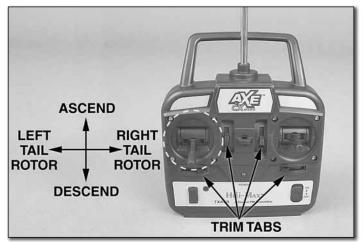
Ground check the operational range of your radio before the first flight of the day. For safety reasons, unplug the main motor so power cannot be applied to the main rotor blades. With the transmitter antenna collapsed and the receiver and transmitter on, you should be able to walk at least 50 feet away from the model and still have control. Have an assistant stand by your model and while you work the controls, tell you what the servos are doing. If the controls do not respond correctly, do not fly! Find and correct the problem first. Look for loose servo connections or broken wires, corroded wires on old servo connectors, poor solder joints in your battery pack or a defective cell or a damaged receiver crystal from a previous crash.

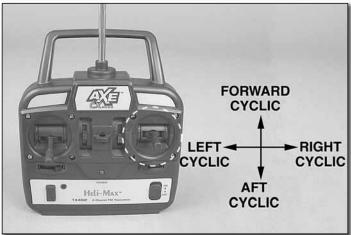
BALANCE THE MAIN BLADES

The AXE CX Micro main rotor blades are already balanced and ready to fly.

CONTROLS

TRANSMITTER CONTROLS





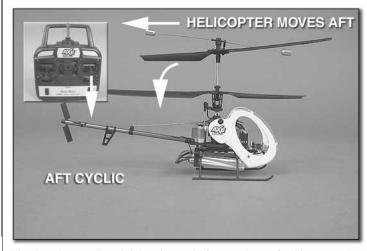
All controls described as follows are with the tail pointing directly toward you. This is the best way to start since it keeps the control inputs oriented the same. Once you start getting comfortable you can work on side hovering and nose-in.



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



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



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



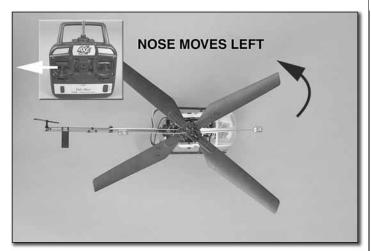
Moving the cyclic stick forward (away from you) will cause the helicopter to tilt forward and start moving that direction.



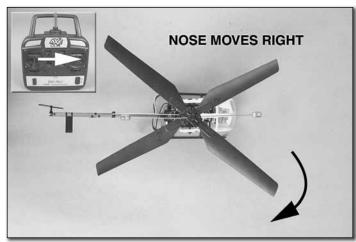
Moving the collective stick up (away from you) will cause the helicopter to climb higher.



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



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



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

FLYING

The Heli-Max AXE CX Micro is an extremely lightweight model helicopter. Taking that into consideration, you should only fly the AXE CX Micro indoors or in calm wind.

TAKEOFF

Slowly add power and observe the model. If you feel it needs trimming do so before lift off. You will quickly find that model helicopters never allow you to return the sticks to center. You just need to position the stick as needed to maintain a steady hover.

You will notice the cyclic controls lag behind your inputs. This is perfectly normal and something you get the feel for with time. It's normal to drift around a little in a hover until you get used to flying the model. The cyclic controls on the AXE CX Micro are fairly sensitive so only small movements are necessary.

HOVERING

Once the helicopter is up in the air, simply try to hold the helicopter in one spot. This can take some practice and wind or air currents have a big effect on the stability of the helicopter as well. Be patient and slowly work forward as trying to rush the learning process can be costly.

LANDING

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

BASIC MANEUVERS

Once you get 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 feel uncomfortable then bring the tail back toward you. Once you start getting comfortable try moving the helicopter to the side and turning back and fly back to the other side in straight lines. Once you get that down you can try rotating the helicopter around 360 degrees which is called a pirouette. The helicopter can drift during these so make sure you have plenty of room when you first start practicing.

Nose-in Hovering – After pirouettes it's time to move on to nose-in hovering. Take off and climb to 10 feet. Practice half pirouettes from tail in to nose-in hovering and try to lengthen the delay in between. This will give you a little 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.

GOOD LUCK AND GREAT FLYING!

ORDERING PARTS

Replacement parts for the Heli-Max AXE CX Micro are available using the order numbers in the **Replacement Parts List** that follows. 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

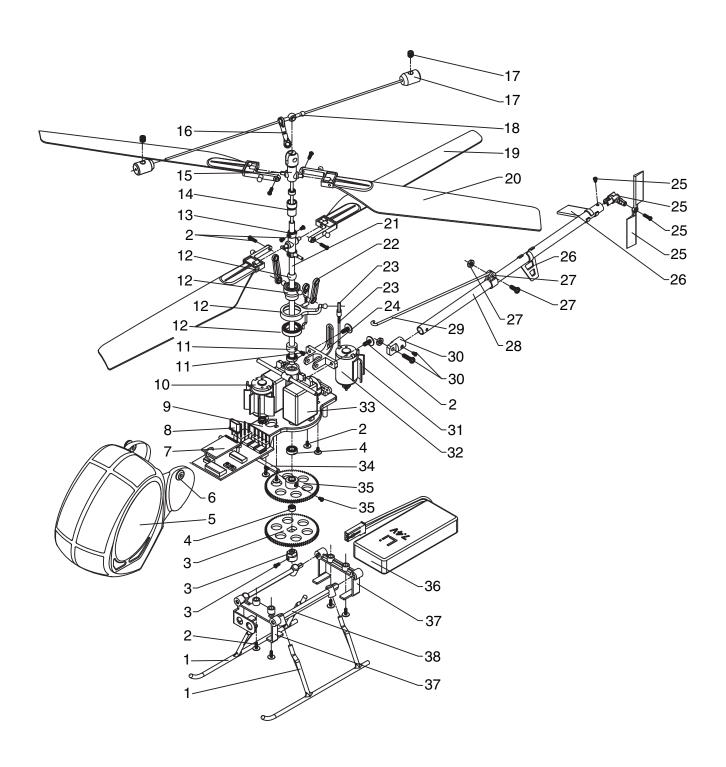
Be certain to specify the order number exactly as listed in the **Replacement Parts List**. Payment by credit card or personal check only; no C.O.D.

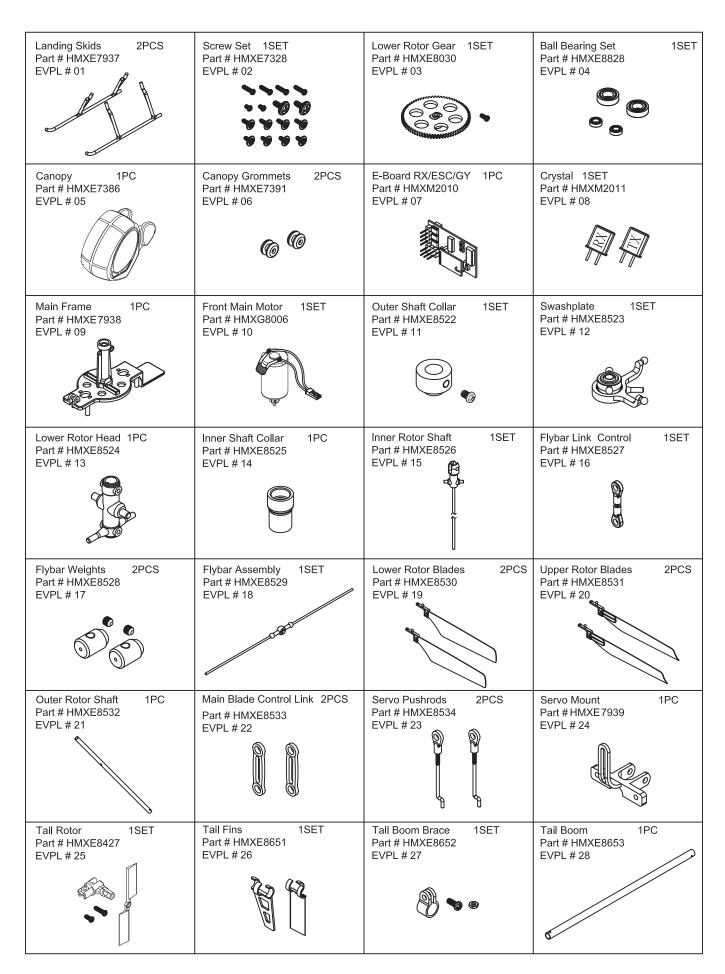
If additional assistance is required for any reason contact Product Support by e-mail at **helihotline@hobbico.com**, or by telephone at (217) 398-8970.

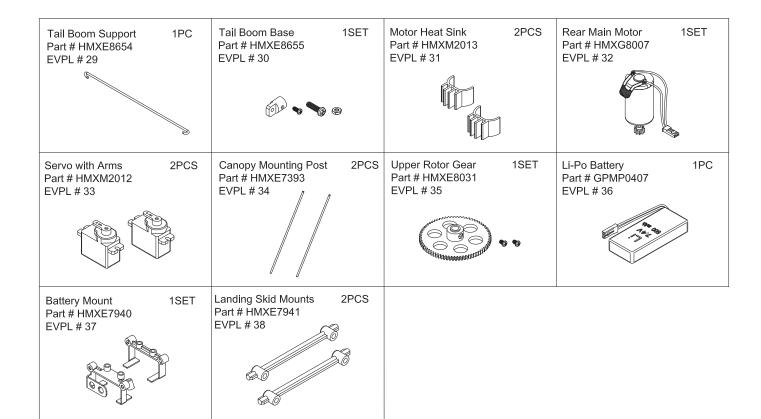
AXE CX MICRO REPLACEMENT PARTS LIST

#	Stock #	. Description	Includes
1	HMXE7937	. Landing Skids	2
2	HMXE7328	. Screw Set	1 set
3		. Lower Rotor Gear	
4		. Ball Bearing Set	
5	HMXE7386	. Canopy White	1
6		. Canopy Grommets	
7		. E-Board Rx/ESC/Gyro	
8		. X-Tal CH 36	
9		. Main Frame	
10		. Front Main Motor	
11		. Outer Shaft Collar	
12		. Swashplate	
13	HMXE8524	. Lower Rotor Head	1
14	HMXE8525	. Inner Shaft Collar	1
15		. Inner Rotor Shaft	
16	HMXE8527	. Flybar Link Control	1 set
17	HMXE8528	. Flybar Weights	2
18		. Flybar Assembly	
19		. Lower Rotor Blades	
20		. Upper Rotor Blades	
21	HMXE8532	. Outer Rotor Shaft	1
22		. Main Blade Control Link	
23		. Servo Pushrods	
24		. Servo Mount	
25	HMXE8427	. Tail Rotor	1 set
26	HMXE8651	. Tail Fins	1 set
27	HMXE8652	. Tail Boom Brace	1 set
28		. Tail Boom	
29	HMXE8654	. Tail Boom Support	1
30	HMXE8655	. Tail Boom Base	1 set
31	HMXM2013	. Motor Heat Sink	2
32	HMXG8007	. Rear Main Motor	1 set
33	HMXM2012	. Servos w/Arms	2
34	HMXE7393	. Canopy Mounting Post	2
35	HMXE8031	. Upper Rotor Gear	1 set
36	GPMP0407	. LiPo Battery	1
37	HMXE7940	. Battery Mount	1 set
38		. Landing Skid Mounts	
	HMXE7387	. Canopy Blue	1
	HMXE7388	. Canopy Orange	1
	HMXE7389	. Canopy Yellow	1
		. Canopy Purple	
	HMXE7392	. Canopy Red	1
	HMXM2014	. X-Tal CH 40	1 set
		. X-Tal CH 42	
		. X-Tal CH 44	
		. X-Tal CH 54	
	HMXM2018	. X-Tal CH 56	1 set

EXPLODED VIEW







	This model belongs to:
	Name
	Address
	City, State Zip
	Phone number
ĺ	AMA number

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