



Congratulations! You have just purchased the EASIEST plane to fly in the world! Learning to fly has never been so fun! Get ready to hand launch into gravity-defying action with Megatech's Sky Vector! Climb to heights over 1500 feet at speeds over 25 MPH/ 40KPH... no experience needed! Sky Vector's patented Divergent-Reflex™ Control Linkage system helps to cancel out the novice flyer's tendency to over control a model making it easy to go from beginner to expert in minutes!

Please Read ALL Instructions Carefully Before Attempting to Fly!

If you experience any problems DO NOT take your Sky Vector back to the store! Call one of our MegaTechnicians at 1-888-MEGA-911 or send an e-mail to info@megatech.com

SAFETY WARNING

 **Please read these before operating your Sky Vector** 

General

- Do not fly your airplane if other models on the same frequency are being operated in the area.
- Do not attempt to disassemble any of the airplane's components or allow them to get wet or electrical damage may occur.
- Never fly your airplane from roadways or after dark.
- Fly in wide-open areas free from obstructions such as trees or telephone poles and wires.
- When operating/flying always be aware of spinning propellers being careful not to let them come close to your person, others and loose clothing. Keep spectators behind you when flying.
- Since your airplane is controlled by a radio link it is very important to always use fresh dry cell batteries in the transmitter.
- Before flying make sure you perform a range check maintaining control at least 25-feet from transmitter to model with the transmitter antenna **collapsed**.
- No solvents or liquid cleaners should be used to clean this model. Doing so may damage the plane. Use a dry, soft cloth for cleaning.

Batteries

- **Never** leave the flight pack battery unattended while charging. Constant monitoring is required while charging flight pack battery. Only charge the flight pack battery until it becomes warm, not too hot
- To prevent flight pack battery from overheating damage, allow the pack to completely cool after each flight before recharging.

Radio

- **Safe radio operation tip.** The transmitter should always be the first thing on—and the last thing off.
- The transmitter's antenna must be fully extended for optimum radio link during flight.
- The flight pack battery should never be left in the model while not in use.

- Do not trim the airplanes antenna, it is cut to a specific frequency length and to do so would drastically affect radio range.
- **Never-never-never-never-never** disassemble any of the radio components or expose them to moisture.

1. Getting Acquainted with your Sky Vector

- First make sure the contents of your package are complete:

1. Sky Vector Fuselage
2. Main Wing
3. Transmitter
4. Transmitter antenna
5. Battery
6. Charger
7. Wing Detection Ribbon
8. Wing Bands
9. V-tail Assembly
10. Propeller
11. Spare propellers
12. Battery Hatch
13. Motor Start Button



2. Installing the Transmitter Batteries



Caution: Make sure not to mix old and new batteries. Only use fresh alkaline (non-rechargeable) batteries in the transmitter to assure best radio signal link.

- The transmitter uses 8 “AA” batteries
- Remove the battery compartment hatch on the back of the transmitter
- Install the 8 fresh “AA” alkaline batteries paying careful attention to proper “+” and “-“ polarity
- Slide the battery hatch cover back into place until it locks
- Turn your transmitter on by sliding the “on” switch on the front of the transmitter. Both the green and red lights on your transmitter should be illuminated. If they are not, make sure you are using all fresh alkaline batteries and recheck that the batteries have been inserted using the proper polarity. If you still have problems contact Megatech. **DO NOT ATTEMPT TO FIX THE TRANSMITTER ON YOUR OWN.**



3. Charging the Flight Pack Battery



We use the latest NiMH (nickel-metal-hydride) technology available. The characteristics of these batteries are such that they do not come up to full potential until they have



gone through 3 or 4 charge and discharge cycles. After that, you should be attaining full flight duration times.

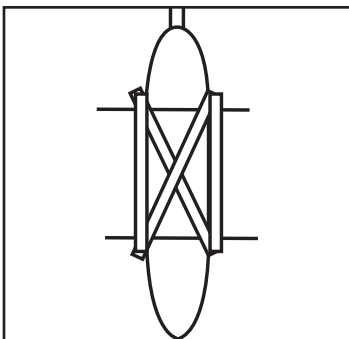
NEVER LEAVE A CHARGING BATTERY UNATTENDED!! Always let the flight pack cool before recharging.

- Connect the battery to the wall charger.
 - Note: Only use a charger that is approved for use with this battery
- Plug the charger into an electrical outlet
 - Children must have parental supervision during the charging process
- Charge the battery for 1-2 hours.
 - Always monitor the charging process. The flight pack should become good and warm but do not let it become extremely hot! **DO NOT OVERCHARGE THE BATTERY.** Use extra caution when touching the battery because it may become very hot.

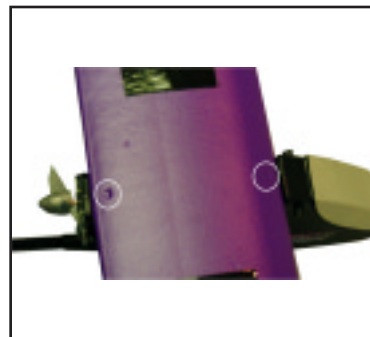


4. Attaching the Main Wing

- Place the main wing onto the fuselage with the polyhedral design curving upwards and wingtips pointing towards the v-tail.
- Make sure the small arrows imprinted into the wing are centered over the fuselage
- Wrap the Wing Bands around the fuselage and the wing in an “X” pattern and then a “II” pattern as shown



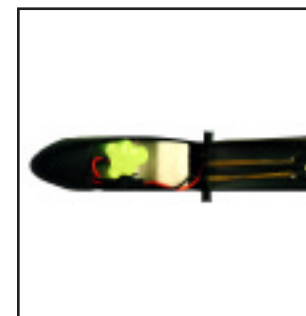
Wing Band Placement



Center Wing on Fuselage

5. Installing the Flight Pack into the Fuselage

- Open the battery hatch on the front of the Sky Vector fuselage
- Make sure to leave all foam pieces inside the fuselage, this ensures proper placement of the flight pack
- Place battery into fuselage with the wide section of the battery towards the front as shown
- Attach the battery connector with the connector inside the fuselage
- Close battery hatch cover when done



Flight Pack Placement

6. Pre-flight Test

- First make sure both trim tabs on your transmitter are centered
- Turn on your transmitter first, then install a charged battery into your plane.
- Holding your plane in one hand, with your fingers and loose objects away from the propeller, move the right control stick of your transmitter all the way to the right
 - a. The right side of the v-tail should go down while the left side goes up.
 - b. Now try moving the right control stick all the way to the left. The opposite function should occur.
- Now press the Motor Start Button on the side of the fuselage. The motor should not start until this safety switch is pushed. Now push the left control stick forward. The propeller should spin rapidly and stop when the control stick is back in its neutral state



Caution: Keep hands, clothing and loose objects away from the propeller!



Trim Tabs



control stick right



control stick left

7. Flying your Sky Vector

- Always fly your airplane in a nice open area free from wires, trees, and other obstructions. For your first flight, pick a day with little or no wind. Do not fly in heavy winds or rainy weather
- Always fully extend your antenna and turn the transmitter on first then install the flight pack. Make sure both lights on your transmitter are illuminated. If the green light goes dark, your transmitter batteries are low. You should land your plane and change them right away.
- Attach your Wind Indicator Ribbon to the end of your transmitter antenna to determine the direction of the wind. Make sure the transmitter antenna is fully extended for maximum radio link. Always launch your airplane into the wind.
- Push the red Start Button the the side of the fuselage and push the left control stick completely forward. Toss the plane into the wind, ensuring the plane is level with the

horizon. If the plane is tilted upwards or downward, your launch may not be successful.

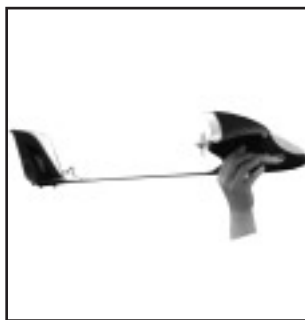
- Allow the model to climb to a safe altitude (50-75 feet) before attempting turns. You do not want the airplane to get too far away from you so once it is at a safe altitude move the right control stick **gently** in the direction you wish to turn. Once it has turned towards the direction you want, release the right control stick
- If you begin to gain too much altitude, release the left control stick and let the Sky Vector glide to a more comfortable level. When the model gets too low to the ground, add motor thrust by pushing the left control stick forwards.

Important Tip! When the airplane is coming towards you, the controls are reversed. (moving the stick left will make the model turn to your right) This is the most important thing to get used to. Try to imagine you are actually sitting in the model's cockpit will help you.

- Do not panic if you feel you begin to spin or make erratic movements with the plane, simply release both control sticks and the Sky Vector's Self-Righting Mechanism kicks in and in a few seconds you will return to a steady glide.



wrong



correct



wrong

8. Landing

- Always try to land into the wind keeping the wingtips as level as possible
- Setup for a landing by making a gentle shallow turn until the airplane is facing into the wind
- When the airplane is level and facing into the wind, release both control sticks and the plane will descend to the ground.
- If slight corrections are needed as the airplane makes its way to the ground, move the right control stick in the appropriate direction but only for a moment so as to keep the airplane descending on a straight heading. Over controlling will put the airplane into another turn which can make it crash if you are too close to the ground. Keep the model flying straight until it lands safely

Helpful Tip

- If the main wing on your Sky Vector gets damaged, simply apply clear packing tape to the affected area.

Spare Parts List

Part Number	Description
MTC SV007-ch	TRANSMITTER (specify channel 1-6)
MTC 735001	TRANSMITTER ANTENNA
MTC SV012	PROPELLER (2PCS)
MTC SV013	110V WALL CHARGER
MTC SV017	8.4V 10AMP SPEED CONTROL
MTC SV018-ch	4 CHANNEL RECEIVER (SPECIFY CHANNEL 1-6)
MTC 202	MICRO SERVO
MTC SV020	MOTOR
MTC SV024	RUBBER WING BANDS
MTC SV025	FUSELAGE BATTERY HATCH COVER
MTC SV034	FUSELAGE
MTC SV065	MAIN WING
MTC SV066	V-TAIL ASSEMBLY

Limited Warranty

Megatech International guarantees the parts included in this kit to be free from defects that exist at the time of purchase for a period of 90 days from date of purchase. If any component of this product fails to function properly due to defects in materials or manufacturing process during this 90 day period, the Manufacturers obligations are limited and manufacturer can choose to either repair the defective part or replace it.

This warranty does not cover any damage caused by use, misuse, alteration, accident, or neglect, nor does it cover normal wear and tear of the product. This warranty is void if the part/product in question has been altered or modified or repaired by anyone other than Megatech International or an authorized agent.

Under no circumstances will Megatech International or any of its representatives be held liable for injury to persons or property damage resulting from assembly or use of the product. Megatech is not liable if any outside radio frequencies interfere with the product's frequency causing loss of control. Megatech International will not be held liable for any personal injury or property damage resulting from an out-of-control model caused by use or misuse of the product.

Megatech International expressly excludes any and all express warranties not specifically stated here and all implied warranties of merchantability and fitness for a particular purpose. There are no warranties which extend beyond the description of the warranties contained herein.

Contact Megatech International before returning any part/product that is defective according to the limitations listed above. Please be sure to pack the returned item(s) carefully and insure it as this warranty does not cover loss or damage during transit

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