

Megatech® International 8300 Tonnelle Avenue North Bergen, NJ 07047 (201) 662-2800 www.megatech.com

ATURNAUL TRUE QUETED FAN JET TECHNOLOGY High Valocity Air Intake Flight Manual megatec www.megatech.com Entire contents @ Megatech 2005

DO NOT RETURN THIS PRODUCT TO THE STORE

Call our Customer Service Department at: (888) MEGA-911 or send an e-mail to: info@megatech.com

10:00am - 4:00pm, EST Monday through Friday (except holidays)

Technical assistance is also available on-line at www.megatech.com or by e-mail to questions@megatech.com

Congratulations. You have just purchased a radio controlled A7 Tornado that incorporates some of the most technically advanced electronics available. All of this technology combines to make the A7 Tornado incredibly stable and one of the easiest R/C airplanes to fly in the world.

READ ENTIRE MANUAL FIRST BEFORE ATTEMPTING TO FLY

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CAUTION!!

KEEP FACE, EYES, HAIR AND LOOSE OBJECTS AWAY FROM THE AIR INTAKE AND EXHAUST. FAILURE TO DO SO MAY RESULT IN SEVERE INJURY.

KEEP AIR INTAKE AND EXHAUST FREE FROM ANY DEBRIS. BEFORE REMOVING ANY DEBRIS MAKE SURE THE MODEL IS OFF AND ALWAYS REMOVE FROM THE EXHAUST SIDE!



Important! Before you begin, please read all safety precautions and warnings. Failure to comply with any of the following could lead to bodily harm or injury. The Megatech A7 Tornado is not intended for those under 12 years of age without proper adult supervision.

SAFETY PRECAUTIONS

TRANSMITTER SAFETY

This devise complies with part 15 of FCC rules. Operation subject to the following two conditions: (1)This device may not cause harmful interference and (2) This device must accept any interference received,

Including interference that may cause undesired operation.

SAFETY GUIDELINES

SAFETY PRECAUTIONS

- · Before you begin to fly, look at the frequency sticker on the back of your transmitter & make sure no one in the area is on the same frequency.
- · You alone are responsible for operating your model in a safe manner. When flying, you are responsible for your own safety and the safety of others around you. Follow these basic safety guidelines at all times.
- · When operating always be aware of the spinning impeller. Be careful not to let them come close to your person, others and/or loose clothing.
- · Always fly your airplane in a wide-open area. You'll need at least two football fields worth of area that is free from obstructions such as buildings, electric power lines, trees, roads, other people and vehicles. Do not fly around people who are unaware that you are flying a model airplane, and never fly over people's heads.
- Do not fly your model if other models are being operated in the area on the same frequency.
- Do not attempt to disassemble any of the model's components or allow them to get wet. Electrical damage
- Never fly your model from roadways or after dark.
- · Keep spectators behind you when flying.
- · Before flying, make sure you perform a range check to be sure you can maintain control at least 25-feet from transmitter to model with the transmitter antenna extended.
- · Since your model is controlled by a radio link it is very important to always keep a fresh alkaline battery in the transmitter.
- Never use solvents or liquid cleaners to clean this model. Doing so may damage the unit or electronics. Only use a dry, soft cloth for cleaning

RECHARGEABLE BATTERY WARNINGS AND PRECAUTIONS

- ALLOW BATTERY TO COOL COMPLETELY BEFORE ATTEMPTING TO CHARGE
- Never have the vehicle engine running during charging process. This may cause overcharging and a possible fire.
- Never leave battery unattended while charging.
- Never attempt to charge a battery that appears damaged.
- Never charge longer than 10 minutes.
- Never place a charging battery on your cars seats or console, but rather a flame & heat resistant material such as an oven mitt.



Nickel-metal hydride batteries must be disposed of properly. For current regulations in your area and proper disposal sites please call 1-800-822-8837 or visit www.rbrc.org

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ASSEMBL

CONTENTS

PACKAGE

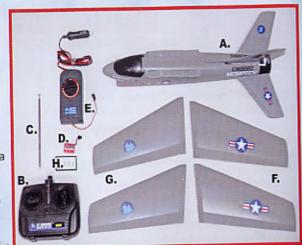
PACKAGE CONTENTS

Before getting started you will need:

8 'AA' Alkaline batteries (sold separately), Screwdriver (sold spearately), Scotch® Tape (Optional)

Use the following picture to get acquainted with the parts of your plane included in this package

- A. Fuselage
- B. Transmitter
- C. Transmitter Antenna
- D. Battery Flight Pack
- E. Quick Charger
- F. Right Wing Half (2)
- G. Left Wing Half (2)
- H. Mounting Screws

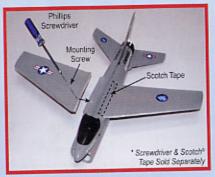


ASSEMBLY

ATTACHING THE WINGS

- Locate a left and right wing half. Carefully remove protective paper from the double sided tape on each.
- 2) Push one of the mounting screws through the screw hole on each wing half so the bottom of the screw comes through the tape
- Before pressing the wing half into place, align the wing edge to the fuselage and start screwing the mounting screw just until you feel it pull down to make sure it is lined up correctly.
- 4) Push the wing edge onto the fuselage until secure
- Finish tightening the mounting screw. DO NOT over tighten.
- Repeat for both right and left wing pieces





TIP: For extra reinforcement, apply a piece of Scotch® tape over the secured wing as shown.

cotch is a registered trademark of 3M:

PREPARING TRANSMITTER

Transmitter requires 8-'AA' Alkaline batteries (sold seperately)

- a) Remove the battery compartment cover located on the back of the transmitter by sliding it down.
- b) Insert 8 "AA" Alkaline batteries. Be sure to match the '+' and '-' polarity symbols in the transmitter with each battery.
- c) Replace battery hatch cover.
- d) Locate transmitter antenna, insert and screw into the top of the transmitter.

DO NOT over tighten!

 e) Turn the transmitter 'Power' switch to 'ON' position. The red and green LED lights will illuminate.

NOTE: If the LED does NOT illuminate, do NOT attempt to fly your A7. Make sure you are using all fresh alkaline batteries and check the batteries for correct polarity placement. If LED still fails, contact Megatech at 1-888-634-2911.





CHARGING ONBOARD BATTERY PACK



MAKE SURE BATTERY IS COMPLETELY COOL BEFORE ATTEMPTING TO CHARGE. FAILURE TO DO SO WILL CAUSE PERMANENT DAMAGE TO THE BATTERY AND POSSIBLE BODILY HARM

- Remove battery from airplane. (Do NOT leave battery inside airplane while charging)
- 2) Plug battery into charger.
- Make sure car is not running and plug charger into vehicle cigarette lighter.
- Rotate timer dial to the 10 minute mark. The LED will illuminate. NOTE: If LED does NOT illuminate first check the battery and cigarette lighter connections. If it still does not illuminate call Megatech at 1-888-634-2911
- Once the LED goes out, the battery will be warm to the touch and i completely charged. Disconnect at once.

CAUTION!!

DO NOT CHARGE BATTERY MORE THAN 10 MINUTES. CHARGING LONGER MAY DAMAGE THE BATTERY AND REDUCE PERFORMANCE.

CYCLING BATTERY PACK

For peak performance and optimum flight duration, it is important to cycle the rechargeable flight battery pack 3 times before flying.

- 1) Charge the battery pack according to manual
- 2) Make sure airplane & transmitter are switch to 'OFF' & connect battery to airplane.
- 3) Securely hold the airplane's fuselage underneath the wings with the nose facing away from you. Be sure it is as far away as possible from your person and any loose clothing or jewelry.
- 4) Turn the transmitter to the 'ON' position.
- 5) Switch the plane to the 'ON' position.
- 6) Push the left hand stick of the transmitter (the throttle stick) completely forward until the battery runs out
- 7) Allow battery to cool COMPLETELY
- 8) Recharge the battery and repeat process 2 more times

PRE-FLIGHT CHECK

Important Tip: Always perform the motor-check and radio-range check with the help of a friend or parent. Doing so alone may cause the model to get away from you and cause damage.

RADIO RANGE CHECK

- 1)Make sure both the airplane and transmitter are in the 'OFF' position and plug a charged battery into the airplane battery hatch.
- 2)Turn the switch on the transmitter to the 'ON' position and extend the antenna fully.
- 3) Switch the power switch on the airplane to the 'ON' position. Note: The transmitter is always the first thing on, and the last thing off.
- 4) Have a friend/parent hold the airplane's fuselage under the wings with the nose pointing away from him/her and away from their person and loose clothing.
- 5) Walk 25-ft away from airplane.

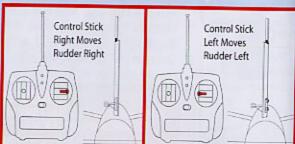
MOTOR CHECK

- Move the left-hand stick forward—the motor should run.
- Release the left-hand stick-the motor should stop.

RUDDER CONTROL CHECK

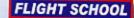
- Move the right-hand stick to the right—the rudder should move to the right
- · Move the right-stick to the left-the rudder should move to the left.

If your airplane does not respond from 25 feet away do NOT attempt to fly. Contact Megatech at 1-888-634-2911 for further assistance



MOTOR CHECK

Throttle



If you are under the age of 12, be sure to fly with adult supervision.

1) Choose a Flying Site & Weather Conditions

- · Choose a large soft grassy open area to fly in such as a football or soccer field. Do not fly in a street or parking lot.
- · Never fly near cars, people, pets, power lines, trees, houses, buildings or water.
- Be sure to keep your hands, eyes and face away from air intake, exhaust and jet impeller blades.
- · Choose a day with little or no wind. Do not fly in wind greater than 5mph.
- · Humidity and temperature must be comfortable (around 55F-85F degrees) so that the air is fairly dense.
- · Your altitude should be less than 2,000feet above sea level.



Proper way to hold airplane

2) Pre-Flight Checklist (Perform in order listed)

- ☐ Fully extend transmitter antenna
- Install fully charged battery pack into fuselage
- ☐ Turn transmitter 'ON'
- Switch airplane 'ON'

REMEMBER: Your transmitter is always the first thing on and the last thing off.

☐ Holding the plane away from you, move the right transmitter stick to ensure that the rudder moves left and right accordingly.

3) Launching Airplane

- Always launch your airplane INTO the wind, so begin with the wind blowing into your face.
- Hold plane's fuselage directly under the wings
- Start with plane above your shoulders.
- Push left hand control stick all the way forward
 - Using the horizon as a 0-degree point of reference, take about 5 steps and toss the plane at a 5 degree upward angle into the wind.

Use about the same force it take to throw a dart at a dart board. Once you have let go of the plane continue to hold the left hand control stick up/forward. DO NOT TOUCH THE RIGHT CONTROL STICK OR PLANE WILL CRASH. Allow the plane to reach sufficient altitude before attempting to turn (about 50 feet)



4) Turning

· Once your airplane has reached 50 feet above the ground you are ready to begin turning. You want to keep the model within 100 feet of you at all times. Beginners: Start with large oval circle patterns while learning.

Left Turn: Keep the throttle/left hand stick forward. Gently pulse/tap the right hand stick to the LEFT 1-2 times, allowing it to return to the center.

Right Turn: Keep the throttle/left hand stick forward. Gently pulse/tap the right hand stick to the RIGHT 1-2 times, allowing it to return to the center



WARNING: Holding right control stick to the right or left for more than 1-2 seconds at a time will cause the airplane to crash

Flying toward you can be very tricky because the airplane will appear to be turning in the wrong direction. To regain orientation, imagine you are sitting in the pilot seat of the airplane.

If the airplane gains too much altitude, try releasing the throttle and continue gliding and turning until you reach a more comfortable altitude.

Landing

hen you notice the nose of the airplane drop slightly or it is unable to climb, it is time to nd. You will still have enough power over the controls to set the airplane up for a landing.

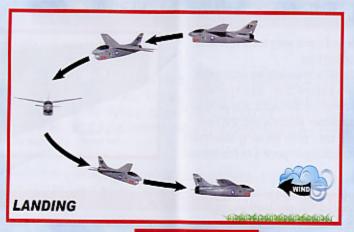
Always land with the airplane nose going into the wind

Set your plane up to face into the wind by making very gentle shallow turns.

IMPORTANT: DO NOT ATTEMPT TO MAKE ANY TURNS WHEN THE PLANE IS UNDER 25 FEET FROM THE GROUND, THIS WILL RESULT IN A CRASH.

Once you are on the final landing approach and your plane is facing into the wind, gently let the airplane glide to the ground on it's own. Only use minor controls to keep the wingtips level until the plane touches down.

AS YOU NEAR THE GROUND, RELEASE THE THROTTLE COMPLETELY TO PREVENT DEBRIS FROM BEING SUCKED INTO THE AIR INTAKES AND GETTING CAUGHT IN THE IMPELLER.



FLYING TIPS

- Keep the plane flying out in front of you and don't let it pass over head if possible. This can be very disorienting.
- Learn to fly oval circuits out in front of you in both directions while maintaining altitude then, advance to figure-8s.
- As your flying skill improves, you will recognize air thermals (rising pockets of air) that will greatly increase your flight time
- If you apply full throttle too long, the model may nose up too much and stall. To overcome this, release the throttle and let plane glide until the nose becomes parallel with the ground, then apply throttle again.
- Always use fresh alkaline batteries in your transmitter to ensure solid radio signal.
- After each flight, make sure the airplane is turned 'OFF' and examine inside for any trapped debris
- Wearing sunglasses will help you be able to locate the airplane at all times
- The airplane's antenna appears as a wire hanging out of the fuselage. Do NOT trim the antenna. It is cut to a specific frequency length. Cutting it would drastically affect radio range.

TROUBLESHOOTING

If you are experiencing trouble, please follow these guidelines or call one of our Mega Technicians at 1-888-634-2911. We will have you up and flying in no time!

Q1) Dive

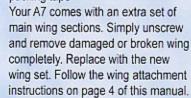
- A1) Cut Sides & bend elevator up
- A2) Wing not secured properly
- A3) Launch straight toward horizon

Q2) Climb and stall

- A1) Cut Sides & bend elevator down
- Q3) No power/short flight duration A1) Cycle battery (see page 6)



FLYING TIPS





PART#	DESCRIPTION
38041	FIELD CHARGER
38040	DC QUICK CHARGER
39040	HIGH PERFORMANCE RECHARGEABLE BATTERY PACK
834004	MAIN WING SET
834007	TAIL WING SET (3 PCS)
834008	CANOPY / BATTERY HATCH
834009	COMPLETE MAIN AND TAIL WING SET WITH CANOPY

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Megatech® Limited Warranty

Megatech® International guarantees this item to be free from defects for a period of 90 days from date of purchase. This warranty does not extend beyond the initial preflight testing. Carefully check parts and operation BEFORE your first flight. Damage incurred during flying, landing, crashing or modification is not covered under the warranty.

If you discover defects during the very first preflight testing (pg. 6 of this manual) during this 90 day period, please call our Support Team toll free at 1-888-634-2911 for Return Authorization. If in our opinion after inspecting the product, we determine it to be defective; we will repair or replace it at our discretion.

WARRANTY

Contact the Megatech® International Service Department before returning any item that is defective according to the limitations listed above.

If you are issued return authorization and asked to send the item to our Service Department please follow these steps:

- · Remove the battery pack from the airplane and the alkaline batteries from the transmitter.
- Pack the returned item(s) carefully and place in a sturdy shipping carton
- Return the product along with proof of purchase
- Include a letter describing the problem
- Include your address and telephone number

Megatech International ATTN: Service Department 8300 Tonnelle Avenue North Bergen, NJ 07047 (201) 662-2800

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. Product returned to us which falls under this category will be submitted to our service department for repair. We reserve the right to charge any service and parts fees incurred when repairing the item.

Although this warranty does not cover and damage caused to the plane after the initial preflight testing, spare parts and service are available. Please see pg. 10 of this manual.

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

This warranty is void if the product in question has been altered or repaired by anyone other than Megatech International or an authorized agent.