Hand-made Almost Ready to Fly R/C Model Aircraft

ASSEMBLY MANUAL

Specifications
Length------------------122.3cm--------------- 48in.
Wingspan-----------------160cm----------------- 63in.
Wing area----------------4047sp cm ---- 627sp in.
Approximate flying weight-----2.8-2.95kg. --- 6.2-6.5lbs.
Recommended engine size---------.40-.48 2-stroke.
---------------------------------.50-.72   4-stroke.
Recommended R/C----------------- 4 channel With 5 servos.
Flying skill level---------------- advanced/Intermediate.

Additional items required.
Engine.
4 Channel or greater Radio Control system.
Glues.
Tools.
Starting Equipment.

Kit features.
• Ready-made-minimal assembly & finishing required.
• Factory-installed pushrods.

Made in Vietnam.
INTRODUCTION.

Thank you for choosing the SPACE WALKER II ARTF by SEAGULL MODELS. The SPACE WALKER II was designed with the intermediate/advanced sport flyer in mind. It is a semi scale airplane which is easy to fly and quick to assemble. The airframe is conventionally built using balsa, plywood and veneer to make it stronger than the average ARTF, yet the design allows the aeroplane to be kept light. You will find that most of the work has been done for you already. The pushrods are pre-made to the correct lengths, the motor mount has been fitted and the hinges are pre-installed and pinned for security. Flying the SPACE WALKER II is simply a joy.

This instruction manual is designed to help you build a great flying aeroplane. Please read this manual thoroughly before starting assembly of your SPACE WALKER II. Use the parts listing below to identify all parts.

WARNING.

Please be aware that this aeroplane is not a toy and if assembled or used incorrectly it is capable of causing injury to people or property. WHEN YOU FLY THIS AEROPLANE YOU ASSUME ALL RISK & RESPONSIBILITY.

If you are inexperienced with basic R/C flight we strongly recommend you contact your R/C supplier and join your local R/C Model Flying Club. R/C Model Flying Clubs offer a variety of training procedures designed to help the new pilot on his way to successful R/C flight. They will also be able to advise on any insurance and safety regulations that may apply.

ADDITIONAL ITEMS REQUIRED.

- .40-.48 2-stroke engine.
- .50-.72 4-stroke engine.
- 4-channel radio with five servos.
- Glow plug to suit engine.
- Propeller to suit engine.
- Protective foam rubber for radio system.
- Silicone fuel line.
- Stick-on weights for balance.
  (If necessary)

TOOLS & SUPPLIES NEEDED.

- Thick cyanoacrylate glue.
- 30 minute epoxy.
- 5 minute epoxy.
- Hand or electric drill.
- Assorted drill bits.
- Modelling knife.
- Straight edge ruler.
- 2mm ball driver.
- Phillips head screwdriver.
- 220 grit sandpaper.
- 90° square or builder’s triangle
- Wire cutters.
- Masking tape & T-pins.
- Thread-lock.
- Paper towels.

PARTS LISTING.

FUSELAGE ASSEMBLY

- (1) Fuselage.
- (1) Pre-installed throttle pushrod & tube.
- (1) Pre-installed servo tray.
- (1) Pre-installed motor mount.
- (1) Pre-installed rudder pushrod.
- (1) Pre-installed elevator pushrod.

WING ASSEMBLY

- (1) Right wing half with pre-installed aileron.
- (1) Left wing half with pre-installed aileron.
- (1) Plywood wing dihedral brace.
- (1) Covering strip for centre section joint.

TAIL SECTION ASSEMBLY

- (1) Vertical stabilizer with pre-installed rudder.
- (1) Horizontal stabilizer with pre-installed elevator halves.

Some more parts.
NOTE: To avoid scratching your new aeroplane we suggest that you cover your workbench with an old towel. Keep a couple of jars or bowls handy to hold the small parts after you open the bags.

Please trial fit all parts. Make sure you have the correct parts and that they fit and are aligned properly before gluing! This will ensure proper assembly as the Space Walker II is made from natural materials and minor adjustments may have to be made. The paint and plastic parts used in this kit are fuel proof. However, they are not tolerant of many harsh chemicals including the following: paint thinner, cyano-acrylate glue accelerator, cyanoacrylate glue de-bonder and acetone. Do not let these chemicals come in contact with the colours on the covering and the plastic parts.

HINGING THE AILERONS.

Note: The control surfaces, including the ailerons, elevators, and rudder, are prehinged with hinges installed, but the hinges are not glued in place. It is imperative that you properly adhere the hinges in place per the steps that follow using a high-quality thin C/A glue.

1) Carefully remove the aileron from one of the wing panels. Note the position of the hinges.

2) Remove each hinge from the wing panel and aileron and place a T-pin in the center of each hinge. Slide each hinge into the aileron until the T-pin is snug against the aileron. This will help ensure an equal amount of hinge is on either side of the hinge line when the aileron is mounted to the wing panel.

3) Slide the aileron on the wing panel until there is only a slight gap. The hinge is now centered on the wing panel and aileron. Remove the T-pins and snug the aileron against the wing panel. A gap of 1/64” or less should be maintained between the wing panel and aileron.

4) Deflect the aileron and completely saturate each hinge with thin C/A glue. The ailerons front surface should lightly contact the wing during this procedure. Ideally, when the hinges are glued in place, a 1/64” gap or less will be maintained throughout the length of the aileron to the wing panel hinge line.

Note: The hinge is constructed of a special material that allows the C/A to wick or penetrate and distribute throughout the hinge, securely bonding it to the wood structure of the wing panel and aileron.
5) Turn the wing panel over and deflect the aileron in the opposite direction from the opposite side. Apply thin C/A glue to each hinge, making sure that the C/A penetrates into both the aileron and wing panel.

6) Using C/A remover/debonder and a paper towel, remove any excess C/A glue that may have accumulated on the wing or in the aileron hinge area.

7) Repeat this process with the other wing panel, securely hinging the aileron in place.

8) After both ailerons are securely hinged, firmly grasp the wing panel and aileron to make sure the hinges are securely glued and cannot be pulled out. Do this by carefully applying medium pressure, trying to separate the aileron from the wing panel. Use caution not to crush the wing structure.

Note: Work the aileron up and down several times to “work in” the hinges and check for proper movement.

Repeat the procedure for the other aileron servo.

Hinging the Elevators.

1) Carefully remove the elevator from one of the horizontal stabilizer panels. Note the position of the hinges.

2) Remove each hinge from the horizontal stabilizer panel and elevator and place a T-pin in the center of each hinge. Slide each hinge into the elevator until the T-pin is snug against the elevator. This will help ensure an equal amount of hinge is on either side of the hinge line when the elevator is mounted to the horizontal stabilizer panel.

Wing Assembly.

Note: We highly recommend using 30 minute epoxy as it is stronger and provides more working time, allowing the builder to properly align the parts. Using fast cure epoxy when joining the wing halves could result in the glue drying before the wing halves are aligned properly which may result in failure of the wing centre section during flight.

1) Test fit the Wing tube into each wing half. The brace should slide in easily up to the centreline that you drew. If not, use 220 grit sandpaper with a sanding block and sand down the edges and ends of the brace until it fits properly.
Carefully slide the two wing halves together and firmly press them together, allowing the excess epoxy to run out. There should not be any gap in the wing halves. Use rubbing alcohol and a paper tower to clean up any excess epoxy.

Apply masking tape at the wing join to hold the wing halves together securely.

2) Remove the brace when satisfied with its fit in each wing half. Coat both sides of one half of the dihedral brace with 30 minute epoxy. Next, pour some epoxy into the dihedral box in one wing panel. Make sure you cover the top and bottom as well as the sides of the dihedral brace. Use enough epoxy to fill any gaps.

3) When the epoxy has cured, carefully remove the masking tape from the wing.

4) Peel off the backing from the self adhesive covering strip. Apply the strip to the centre section of the wing starting from the bottom trailing edge. Wrap the strip all the way around the wing until it meets the trailing edge again. Trim off any excess strip.

INSTALLING THE AILERON SERVOS.

Thread.

Small weight.

C/A glue.

Remove covering.
1) Install the rubber grommets and brass collets onto the aileron servo. Test fit the servo into the aileron servo mount.

Because the size of servos differ, you may need to adjust the size of the precut opening in the mount. The notch in the sides of the mount allow the servo lead to pass through.

Secure the servos with the screws provided from your radio system.

2) Temporarily install the aileron servo into the servo mount, with the output shaft towards the leading edge of the wing. Drill 1.5mm pilot holes through the mount. Remove the servo from the wing.

3) Tie a weight such as the fuel tank pickup to a piece of string. Carefully feed the thread through the wing and out of the servo.

4) Attach servo lead to the aileron servo. Attach the string to the servo lead and carefully thread it through the wing. Once you have thread the lead through the wing, remove the thread so it can use for the other servo lead.

5) Tape the servo lead to the wing to prevent it from falling back into the wing.

6) Reinstall the servo into the servo mount and secure the servo in place using the wood screws provided with your radio system.
Repeat the procedure for the other wing half.

**AILERON LINKAGE.**

1) Using a ruler & pen to draw a straight line as below picture.

2) Locate the two nylon control horns, two nylon control horn backplates and four machine screws.

3) Position the aileron horn on the bottom side of aileron. The clevis attachment holes should be positioned over the hinge line.

4) Using a 1mm drill bit and the control horns as a guide, drill the mounting holes through the aileron halves.

5) Mount the control horns by inserting the screws through the control horn bases and aileron halves, then into the mounting backplates. Do not overtighten the screws or the backplates may crush the wood.

6) Thread one nylon adjustable control horn onto each aileron control rod. Thread the horns on until they are flush with the ends of the control rods.

7) With the aileron servo centered and the aileron even with the trailing edge of the wing attach the clevis to the control horn. Mark the control wire where it crosses the servo arm hole.

8) Make a 90-degree bend at the mark and cut off the excess wire leaving 10mm past the bend.
1) Using a modeling knife, carefully cut off the rear portion of one of the 3 nylon tubes leaving 1/2” protruding from the rear of the stopper. This will be the fuel pick up tube.

2) Using a modeling knife, cut one length of silicon fuel line. Connect one end of the line to the weighted fuel pickup and the other end to the nylon pickup tube.

3) Carefully bend the second nylon tube up at a 45º angle. This tube is the vent tube. To set the angle of the vent tube use a lighter or heat gun to heat the tube (do not melt the tube).

4) Test fit the stopper assembly into the tank. It may be necessary to remove some of the flashing around the tank opening using a modeling knife. If flashing is present, make sure none falls into the tank.

5) With the stopper assembly in place, the weighted pickup should rest away from the rear of the tank and move freely inside the tank. The top of the vent tube should rest just below the top of the tank. It should not touch the top of the tank.

6) When satisfied with the alignment of the stopper assembly tighten the 3mm x 20mm machine screw until the rubber stopper expands and seals the tank opening. Do not overtighten the assembly as this could cause the tank to split.

Important: When the stopper assembly is installed in the tank, the top of the vent tube should rest just below the top surface of the tank. It should not touch the top of the tank.

7) Connect the linkage as shown and secure the control wire with a wire keeper.

Repeat the procedure for the other aileron servo.

FUEL TANK.

INSTALLING THE STOPPER ASSEMBLY.

Attach the silicone fuel and pressure pipes to the tank. The lower pipe is the ‘feed’ and the upper two the ‘pressure and fill’. The fill pipe is the next pipe.
You should mark which tube is the vent and which is the fuel pickup when you attach fuel tubing to the tubes in the stopper. Once the tank is installed inside the fuselage, it may be difficult to determine which is which.

Slide the tank into the fuselage from inside so that the neck is at the top of the fuselage and it locates through the engine bulkhead. Gently secure it to the top horizontal former with a cable tie.

 Blow through one of the lines to ensure the fuel lines have not become kinked inside the fuel tank compartment. Air should flow through easily.

MOUNTING THE ENGINE.

1) Install the pushrod housing through the predrilled hole in the firewall and into the servo compartment. The pushrod housing should protrude 1/4" out past the front of the firewall. Make a Z-Bend 1/4" from one end of the plain wire pushrod.

2) Place your engine onto the engine mount. Adjust the engine is centered of the edges of the engine case.

3) When you are satisfied with the alignment, mark the locations of the engine mounting.

4) Remove the engine. Using an drill bit, drill the mounting holes through the engine mount at the four locations marked.

5) Bolt the engine to the engine mount using the four machine screws. Double check that all the screws are tight before proceeding.

6) Attach the Z-Bend in the pushrod wire to the throttle arm on the carburetor.
COWLING.

1) Slide the fiberglass cowl over the engine and line up the back edge of the cowl with the marks you made on the fuselage.

2) While keeping the back edge of the cowl flush with the marks, align the front of the cowl with the crankshaft of the engine. The front of the cowl should be positioned so the crankshaft is in the middle of the cowl opening. Hold the cowl firmly in place using pieces of masking tape.

3) With the cowl held firmly in place, transfer the marks from the centerline of the blocks, that were drawn onto the fuselage previously, onto the cowl. Using a ruler and a pen, measure forward from the back edge of the cowl 7/16", at the four mounting block locations, and place a mark.

4) While holding the cowl firmly in position, drill four 1/16” pilot holes through both the cowl and through the mounting fuselage.

5) Remove the cowl. Using a 5/64” drill bit, enlarge the holes in only the four cowl blocks.

6) Using a 1/8” drill bit. Enlarging the holes through the cowl will prevent the fiberglass from splitting when the mounting screws are installed.

7) Slide the cowl back over the engine and secure it in place using four 3mm x 12mm wood screws. See picture below.

Because of the diameter of the cowl, it may be necessary to use a needle valve extension for the high speed needle valve. Make this out of sufficient length 1.5mm wire and install it into the end of the needle valve. Secure the wire in place by tightening the set screw in the side of the needle valve.

8) Install the muffler and muffler extension onto the engine and make the cutout in the cowl for muffler clearance. Connect the fuel and pressure lines to the carburetor, muffler and fuel filler valve.

INSTALLING THE SPINNER.

1) Install the spinner backplate, propeller and spinner cone. The spinner cone is held in place using two 3mm x 12mm wood screws.

The propeller should not touch any part of the spinner cone. If it does, use a sharp modeling knife and carefully trim away the spinner cone where the propeller comes in contact with it.
1) Assemble and mounting the wheel pants as shown in the following pictures.

2) Follow diagram below for wheel pant installation:

3) You have to trim each axle using a tool cutting and cut-off wheel.

Caution when cutting the axles and wear protective goggles.
1) The blind nuts are already mounted inside the fuselage.

2) Using the hardware provided, mount the main landing gear to the fuselage.

3) With the stabilizer held firmly in place, use a pen and draw lines onto the stabilizer where it and the fuselage sides meet. Do this on both the right and left sides and top and bottom of the stabilizer.

HORIZONTAL STABILIZER.

1) Using a ruler and a pen, locate the centerline of the horizontal stabilizer, at the trailing edge, and place a mark. Use a triangle and extend this mark, from back to front, across the top of the stabilizer. Also extend this mark down the back of the trailing edge of the stabilizer.

2) Slide the stabilizer into place in the pre-cut slot in the rear of the fuselage. The stabilizer should be pushed firmly against the front of the slot.

4) A drop of C/A glue on the wheel collar screws will help keep them from coming lose during operation.

Repeat the process for the other wheel.
4) Remove the stabilizer. Using the lines you just drew as a guide, carefully remove the covering from between them using a modeling knife.

5) Using a modeling knife, carefully remove the covering that overlaps the stabilizer mounting platform sides in the fuselage. Remove the covering from both the top and the bottom of the platform sides.

6) When you are sure that everything is aligned correctly, mix up a generous amount of Flash 30 Minute Epoxy. Apply a thin layer to the top and bottom of the stabilizer mounting area and to the stabilizer mounting platform sides in the fuselage. Slide the stabilizer in place and realign. Double check all of your measurements once more before the epoxy cures. Hold the stabilizer in place with T-pins or masking tape and remove any excess epoxy using a paper towel and rubbing alcohol.

7) After the epoxy has fully cured, remove the masking tape or T-pins used to hold the stabilizer in place. Carefully inspect the glue joints. Use more epoxy to fill in any gaps that may exist that were not filled previously and clean up the excess using a paper towel and rubbing alcohol.

**VERTICAL STABILIZER INSTALLATION.**

1) Using a modeling knife, remove the covering from over the precut hinge slot cut into the lower rear portion of the fuselage. This slot accepts the lower rudder hinge.
2) Slide the vertical stabilizer into the slot in the top of the fuselage. The rear edge of the stabilizer should be flush with the rear edge of the fuselage and the lower rudder hinge should engage the precut hinge slot in the lower fuselage. The bottom edge of the stabilizer should also be firmly pushed against the top of the horizontal stabilizer.

3) While holding the vertical stabilizer firmly in place, use a pen and draw a line on each side of the vertical stabilizer where it meets the top of the fuselage.

4) Remove the stabilizer. Using a modeling knife, remove the covering from below the lines you drew. Also remove the covering from the bottom edge of the stabilizer and the bottom and top edges of the filler block. Leave the covering in place on the sides of the filler block.

5) Slide the vertical stabilizer back in place. Using a triangle, check to ensure that the vertical stabilizer is aligned 90º to the horizontal stabilizer.

6) When you are sure that everything is aligned correctly, mix up a generous amount of Flash 30 Minute Epoxy. Apply a thin layer to the mounting slot in the top of the fuselage and to the sides and bottom of the vertical stabilizer mounting area. Apply epoxy to the bottom and top edges of the filler block and to the lower hinge also. Set the stabilizer in place and re-align. Double check all of your measurements once more before the epoxy cures. Hold the stabilizer in place with T-pins or masking tape and remove any excess epoxy using a paper towel and rubbing alcohol. Allow the epoxy to fully cure before proceeding.
**CONTROL HORN INSTALLTION.**

1) Elevator and rudder control horn in place using the same techniques to aileron control horn. See picture below.

2) Position the elevator horns on the one side of elevator. The clevis attachment holes should be positioned over the hinge line.

3) Position the rudder control horn on the left side of the airplane. Mount the control horn parallel with the horizontal stabilizer.

**PUSHROD INSTALLATION.**

1) Align the tail wheel wire so that the wire is parallel with the bottom of the rudder. The control clasp has a predrilled hole through the top of it. Slide this hole onto the tail wheel wire while sliding the clasp over the bottom of the rudder.

2) Using a ruler and a pen place a mark onto the bottom of the rudder. The back edge of the clasp should line up with this mark. You may find it necessary to bend the tail wheel wire down slightly so it lines up with the clasp without binding.
3) While holding the clasp firmly in place, use a pen and outline the clasp onto the rudder.

4) Remove the clasp, and using a modeling knife, remove the covering from inside the lines you drew. Use 220 grit sandpaper and carefully roughen the inside surface of the nylon clasp.

5) Slide the clasp back into position and carefully glue it into place using Kwik Bond Thin C/A. Hold the clasp in place until the glue completely cures. Secure by 1 machine screw.

**INSTALLING THE SWITCH.**

1) Install the switch into the precut hole in the servo tray, in the fuselage, from the bottom. Use the two screws provided with the switch to secure it in place. Drill two 3/32" holes through the tray for the screws to pass through.

2) Make a push-pull lever out of scrap wire. Attach the wire to the switch lever and route the wire out the side of the fuselage, through the hole you drilled.

!!! Some switches come with a hole drilled through the switch tab for this very purpose. If your switch does not, remove the switch and drill a 3/32" hole through the middle of the switch tab. !!!

3) Install the rubber grommets and brass collets onto the elevator, rudder and throttle servos. Test fit the servos into the preinstalled servo tray. Because the size of servos differ, you may need to adjust the size of the precut openings in the tray.

Secure the servos with the screws provided from your radio system.

4) Position the servos into the servo tray with the output shafts orientated as shown below. Drill 1/16" pilot holes through the tray for each of the mounting screws.

5) Install adjustable servo connector in the servo arm.
6) Connect the elevator, rudder and throttle servos to your radio’s receiver and turn on the system. Set the trim tabs on the transmitter to neutral and center the servo arms. The elevator, rudder and throttle servo arms should be perpendicular to the servos.

7) One at a time, hold the pushrods in position over the respective servos to check for proper servo direction. If any servo turns in the wrong direction, switch your radio’s reversing switches as necessary to achieve the correct direction.

8) Install servos arm to servos. Notice the position of the servo arms on the servos. See picture as below.

---

**INSTALLING THE RECEIVER AND BATTERY.**

1) Plug the five servo leads and the switch lead into the receiver. Plug the battery pack lead into the switch also.

2) Wrap the receiver and battery pack in the protective foam rubber to protect them from vibration.

3) Position the battery pack in the fuel tank compartment and the receiver just behind the fuel tank. Use extra foam pieces to hold them in position.

⚠️ *When balancing the airplane you may need to move the battery or receiver forward or after to achieve proper balance. In our test airplane, using a .46 two stroke engine, the battery and receiver were mounted as per step # 4.*
Bolt the wing to fuselage.

When balanced correctly, the airplane should sit level or slightly nose down when you lift it up with your fingers.

1) It is critical that your airplane be balanced correctly. Improper balance will cause your plane to lose control and crash. The center of gravity is located 7,5-8cm back from the leading edge of the wing, measured at the wing tip.

2) If the nose of the plane falls, the plane is nose heavy. To correct this first move the battery pack further back in the fuselage. If this is not possible or does not correct it, stick small amounts of lead weight on the fuselage sides under the horizontal stabilizer. If the tail of the plane falls, the plane is tail heavy. To correct this, move the battery and receiver forward or if this is not possible, stick weight onto the firewall or use a brass heavy hub spinner hub.

1) We highly recommend setting up the Space Walker II using the control throws listed at right. We have listed control throws for both initial test/sport flying and aerobatic flying.

2) Turn on the radio system, and with the trim tabs on the transmitter in neutral, center the control surfaces by making adjustments to the clevises or adjustable servo connectors. The servo arms should be centered also.

3) When the elevator, rudder and aileron control surfaces are centered, use a ruler and check the amount of the control throw in each surface. The control throws should be measured at the widest point of each surface!

**INITIAL FLYING/SPORT FLYING**

Ailerons: 3/16” up 3/16” down.
Elevator: 3/8” up 3/8” down.
Rudder: 1” right 1” left.

**AEROBATIC FLYING**

Ailerons: 3/8” up 3/8” down.
Elevator: 1” up 1” down.
Rudder: 2” right 2” left.

Do not use the aerobatic settings for initial test flying or sport flying.
4) By moving the position of the adjustable control horn out from the control surface, you will decrease the amount of throw of that control surface. Moving the adjustable control horn toward the control surface will increase the amount of throw.

**FLIGHT PREPARATION.**

1) **Check the operation and direction of the elevator, rudder, ailerons and throttle.**

A) Plug in your radio system per the manufacturer's instructions and turn everything on.

B) Check the elevator first. Pull back on the elevator stick. The elevator halves should move up. If it they do not, flip the servo reversing switch on your transmitter to change the direction.

C) Check the rudder. Looking from behind the airplane, move the rudder stick to the right. The rudder should move to the right. If it does not, flip the servo reversing switch on your transmitter to change the direction.

D) Check the throttle. Moving the throttle stick forward should open the carburetor barrel. If it does not, flip the servo reversing switch on your transmitter to change the direction.

E) From behind the airplane, look at the aileron on the right wing half. Move the aileron stick to the right. The right aileron should move up and the other aileron should move down. If it does not, flip the servo reversing switch on your transmitter to change the direction.

2) **Check Control Surface Throw.**

A) The Rudder should move 1" left and 1" right from center. If it moves too far, turn the adjustable control horn out away from the rudder. Do the opposite if there is not enough throw.

B) Both elevator halves should move 3/8" up and 3/8" down from center. If they move too far, turn the adjustable control horns out away from the elevator halves. Do the opposite if there is not enough throw. Both elevator halves should also travel the same amount throughout their total movement.

C) The ailerons should move 3/16" up and 3/16" down from center. If the ailerons move too much, turn the adjustable control horns out away from the wing. Do the opposite if there is not enough throw. It is important that both ailerons move the same amount, both up and down.

D) Once the control throws and movements are set, tubing must be added to the clevises to ensure they do not release in the air. Cut a piece of fuel line into five 1/4" long pieces. Unsnap the clevises and slip one piece over each clevis. Snap the clevises back in place and slide the tubing up over them.

**PREFLIGHT CHECK.**

1) Completely charge your transmitter and receiver batteries before your first day of flying.

2) Check every bolt and every glue joint in the Space Walker II to ensure that everything is tight and well bonded.

3) Double check the balance of the airplane. Do this with the fuel tank empty.

4) Check the control surfaces. All should move in the correct direction and not bind in any way.

5) If your radio transmitter is equipped with dual rate switches double check that they are on the low rate setting for your first few flights.

6) Check to ensure the control surfaces are moving the proper amount for both low and high rate settings.

7) Check the receiver antenna. It should be fully extended and not coiled up inside the fuselage.

8) Properly balance the propeller. An out of balance propeller will cause excessive vibration which could lead to engine and/or airframe failure.

*We wish you many safe and enjoyable flights with your Space Walker II.*
FOR USA MARKET ONLY

Warranty Period:
Exclusive Warranty- Horizon Hobby, Inc., (Horizon) warranties that the Products purchased (the “Product”) will be free from defects in materials and workmanship at the date of purchase by the Purchaser.

Limited Warranty
(a) This warranty is limited to the original Purchaser ("Purchaser") and is not transferable. REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE PURCHASER. This warranty covers only those Products purchased from an authorized Horizon dealer. Third party transactions are not covered by this warranty. Proof of purchase is required for warranty claims. Further, Horizon reserves the right to change or modify this warranty without notice and disclaims all other warranties, express or implied.

(b) Limitations- HORIZON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCT. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER’S INTENDED USE.

(c) Purchaser Remedy- Horizon’s sole obligation hereunder shall be that Horizon will, at its option, (i) repair or (ii) replace, any Product determined by Horizon to be defective. In the event of a defect, these are the Purchaser’s exclusive remedies. Horizon reserves the right to inspect any and all equipment involved in a warranty claim. Repair or replacement decisions are at the sole discretion of Horizon. This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of or to any part of the Product. This warranty does not cover damage due to improper installation, operation, maintenance, or attempted repair by anyone other than Horizon. Return of any goods by Purchaser must be approved in writing by Horizon before shipment.

Damage Limits:
HORIZON SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCT, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY. Further, no event shall the liability of Horizon exceed the individual price of the Product on which liability is asserted. As Horizon has no control over use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury. By the act of use, setup or assembly, the user accepts all resulting liability.

If you as the Purchaser or user are not prepared to accept the liability associated with the use of this Product, you are advised to return this Product immediately in new and unused condition to the place of purchase.

Law: These Terms are governed by Illinois law (without regard to conflict of law principals).

Safety Precautions:
This is a sophisticated hobby Product and not a toy. It must be operated with caution and common sense and requires some basic mechanical ability. Failure to operate this Product in a safe and responsible manner could result in injury or damage to the Product or other property. This Product is not intended for use by children without direct adult supervision. The Product manual contains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or injury.

Questions, Assistance, and Repairs:
Your local hobby store and/or place of purchase cannot provide warranty support or repair. Once assembly, setup or use of the Product has been started, you must contact Horizon directly. This will enable Horizon to better answer your questions and service you in the event that you may need any assistance. For questions or assistance, please direct your email to productsupport@horizonhobby.com, or call 877.504.0233 toll free to speak to a service technician.

Inspection or Repairs
If this Product needs to be inspected or repaired, please call for a Return Merchandise Authorization (RMA). Pack the Product securely using a shipping carton. Please note that original boxes may be included, but are not designed to withstand the rigors of shipping without additional protection. Ship via a carrier that provides tracking and insurance for lost or damaged parcels, as Horizon is not responsible for merchandise until it arrives and is accepted at our facility. A Service Repair Request is available at www.horizonhobby.com on the “Support” tab. If you do not have internet access, please include a letter with your complete name, street address, email address and phone number where you can be reached during business days, your RMA number, a list of the included items, method of payment for any non-warranty expenses and a brief summary of the problem. Your original sales receipt must also be included for warranty consideration. Be sure your name, address, and RMA number are clearly written on the outside of the shipping carton.
Warranty Inspection and Repairs
To receive warranty service, you must include your original sales receipt verifying the proof-of-purchase date. Provided warranty conditions have been met, your Product will be repaired or replaced free of charge. Repair or replacement decisions are at the sole discretion of Horizon Hobby.

Non-Warranty Repairs
Should your repair not be covered by warranty the repair will be completed and payment will be required without notification or estimate of the expense unless the expense exceeds 50% of the retail purchase cost. By submitting the item for repair you are agreeing to payment of the repair without notification. Repair estimates are available upon request. You must include this request with your repair. Non-warranty repair estimates will be billed a minimum of 1/2 hour of labor. In addition you will be billed for return freight. Please advise us of your preferred method of payment. Horizon accepts money orders and cashier checks, as well as Visa, MasterCard, American Express, and Discover cards. If you choose to pay by credit card, please include your credit card number and expiration date. Any repair left unpaid or unclaimed after 90 days will be considered abandoned and will be disposed of accordingly. Please note: non-warranty repair is only available on electronics and model engines.

Electronics and engines requiring inspection or repair should be shipped to the following address:

Horizon Service Center
4105 Fieldstone Road
Champaign, Illinois 61822

All other Products requiring warranty inspection or repair should be shipped to the following address:

Horizon Product Support
4105 Fieldstone Road
Champaign, Illinois 61822

Please call 877-504-0233 with any questions or concerns regarding this product or warranty.
THERE ARE SOME PARTS ARE PRE-INSTALLED AT FACTORY.

The pictures and parts shown above should be changed.