



14287963

Requires : 50 c.c. engine, 4 - channel radio w/8 high torque servos.

Specifications

Team 3-D

Wing Span Wing Area **Flying Weight Fuselage Length**

63 in / 1600 mm 1420 sq in / 91.6 sq dm 13-15 lbs / 5900-6810 g 66.5 in / 1690 mm

Itimate

* Specifications are subject to change without notice.*

Warning !This model is not a toy.

It is designed for maximum performance. Please seek advice if one is not familiar with this kind of engine powered precision model. Operating this model without prior preparation may cause injuries. Remember, safety is the most important thing. Always keep this instruction manual at hand for quick reference.





FACTORY PRE-FABRICATED ALMOST-READY-TO-FLY (ARF) SERIES MADE IN CHINA

27% Ultimate INDEX BEFORE YOU BEGIN PARTS LIST PARTS LIST P. 2 ASSEMBLY P. 3- 14 SAFETY PRECAUTIONS

BEFORE YOU BEGIN

Read through the manual before you begin, so you will have an overall idea of what to do.

2 Check all parts. If you find any defective or missing parts contact your local dealer. Please DRY FIT and check for defects for all parts that will require CA or Epoxy for final assembly. Any parts you find to be defective after the gluing process may be difficult to remove for warranty replacement. The manufacturer will replace any defective parts. but will not extend to the parts that are good before gluing to defective parts during assembly.

Symbols used throughout this instruction manual comprise of the following : -



3

Apply epoxy glue.



Apply thread locker



Assemble left and right sides the same way.



Peel off shaded portion covering film.



Drill holes with the specified diameter (here: 3mm).



Ensure smooth non-binding movement while assembling.

Must be purchased separately!



Cut off shaded portion.

Apply instant glue

(C.A.glue, super glue.)



Pierce the shaded portion covering film.



Pay close attention here!



Do not overlook this symbol!



Parts List

1.MAIN WING (Upper Wing) -- 1 pair MAIN WING (Lower Wing) -- 1 pair METAL HINGES -- 28 pcs METAL HINGES -- 28 pcs 2.SERVO MOUNTING PANEL (For Aileron Servo) --1 pair HEAVY DUTY SERVO HORN PL4120350 -- 2 sets SCREW PM4x50mm -- 2 pcs SCREW PWA2x12mm --8 pcs M4 NYLON INSERT LOCK NUT -- 2 pcs HEAVY DUTY HORN BRACKET PL4112400 -- 2 sets HEAVY DUTY CLEVIS PL412200 -- 4 sets SWIVEL CLEVIS HORN FAIRING PL4610010 -- 2 sets PUSHROD Ø2.5x70mm w/Threads (For Aileron) -- 2 pcs 2 SEPVO MOUNTIMO PANEL (For Aileron) -- 2 pcs PUSHROD Ø2. 5x70mm w/ Inreads (For Alleron) -- 2 p
3. SERVO MOUNTING PANEL (For Alleron) -- 1 pair HEAVY DUTY SERVO HORN Pl4120350 -- 2 sets SCREW PM4x50mm -- 2 pcs SCREW PWA2x12mm -- 8 pcs M4 NYLON INSERT LOCK NUT -- 2 pcs HEAVY DUTY HORN BRACKET PL4112400 -- 2 sets HEAVY DUTY HORN BRACKET PL4112400 -- 2 sets SWIVEL CLEVIS PL412200 -- 4 sets SWIVEL CLEVIS HORN FAIRING PL4610010 -- 2 sets PUSHROD Ø2.5x70mm w/Threads (For Aileron) -- 2 p 2 pcs 4. STABILIZER & ELEVATOR -- 1 set FUSELAGE -- 1 pc. STABILIZER TUBE Ø14.5x319mm -- 1 pc. SCREW PWA3x12mm -- 2 pcs WIRE Ø3 x186mm -- 1 pc. METAL HINGES -- 8 pcs SOREW PWA3X12IIIII - 2 pcs
WIRE d3 x186 mm - 1 pc.
METAL HINGES - 8 pcs
5. VERTICAL FIN & RUDDER - 1 set
METAL HINGES - 5 pcs
6. TAIL LANDING GEAR - 1 set
RUDDER WHEEL Ø30mm - 1 pc.
COLLAR 2. 6mm w/set screw - 1 set
SCREW PA3x12mm - 2 pcs
7. SCREW PM3x13mm - 8 pcs
M3 NYLON INSERT LOCK NUT - 8 pcs
WASHER d3xD7mm - 16 pcs
FIRE WALL 6x115x120mm (F9) - 1 pc.
ENGINE BOX SIDE PLATE 4x90x366 5mm (F8) - 1 pc.
ENGINE BOX SIDE PLATE 4x90x366 5mm (F8) - 1 pc.
BALSA 5x5x129, 5mm (F9B) - 2 pcs
BALSA 5x5x129, 5mm (F9B) - 2 pcs
BALSA 5x5x80mm (F9C) - 2 pcs
BALSA 5x5x80mm (F9D) - 1 pc.
PLYWOOD 4x15x153.5mm (F48) - 4 pcs
PLYWOOD 4x15x64mm (F26) - 2 pcs
BALSA 5x5x50mm (F53) - 2 pcs
BALSA 6x6x112mm (F53A) - 1 pc.
CENTER WING CABANE - 1 set
SCREW PM3x16mm - 1 pc.
WASHER d3xD7mm - 12 pcs
BALSA 6x6x241.1mm (F18B) - 2 pcs
BALSA 6x6x246.7mm (F18C) - 2 pcs
BALSA 6x6x246.7mm (F18C) - 2 pcs
BALSA 6x6x246.7mm (F18C) 9.MAIN LANDING GEAR -- 1 pair SOCKET HEAD SCREW M5x16mm -- 4 pcs AXLE SHAFT Ø4x54mm -- 2 pcs WHEEL PANTS -- 1 pair SCREW PA3x12mm -- 4 pcs WHEEL Ø76mm -- 2 pcs M8 NYLON INSERT LOCK NUT -- 2 pcs COLLAR Ø4.1mm w/set screw -- 4 sets

10.SCREW M4x80mm -- 1 pc. M4 NYLON INSERT LOCK NUT -- 2 pcs EYE SCREW M2.5x8x25mm w/Threads (For Rudder) -- 2 pcs HEAVY DUTY HORN BRACKET PL4112400 -- 2 sets HEAVY DUTY CLEVIS PL4112400 -- 2 sets SWIVEL CLEVIS HORN FAIRING PL4610020 -- 2 sets COPPER TUBE d2.5xD3.2x8mm (For Rudder) -- 2 sets WIRE Ø1x800mm (For Rudder) -- 2 sets WIRE ØIX000/IIIII (*) RUGGE/ 2 5655 11.SCREW PM4x70mm --2 pcs M4 NYLON INSERT LOCK NUT --2 pcs HEAVY DUTY HORN BRACKET PL4112400 -- 2 sets HEAVY DUTY SERVO HORN PL412205 --2 sets HEAVY DUTY CLEVIS PL4112200 --4 sets SWIVEL CLEVIS HORN FAIRING PL4610010 --2 sets PUSHROD Ø2.5x145mm w/Threads (For Elevator) --2 pcs 12.FUEL TANK 650cc PL11165G (Gasoline Fuel) -- 2 pcs FUEL TANK 650cc PL11165G (Gasoline Fuel) -- 1 set FUEL TANK HOLD DOWN PLATE 3x95x281mm (F2A) -- 1 pc. SCREW PM3x12mm -- 2 pcs WASHER d3xD7mm -- 2 pcs SPONGE 10x80x200mm -- 1 pc. CABLE TIE 400mm (For Fuel Tank) -- 2 pcs CABLE TIE 400mm (For Fuel Tank) --2 pcs 13.BLIND NUT M6 --4 pcs SOCKET HEAD SCREW M6x20mm -- 2 pcs WASHER d6xD15mm --4 pcs UPPER CONNECTOR 3x120x129.5mm (F8C) --1 pc. LINKAGE CONNECTOR Ø2.1mm --1 set THROTTLE PUSHWIRE Ø1.2x520mm --1 pc. w/Plastic Tube d2xD3x300mm --1 pc. 14.HEAVY DUTY SERVO HORN PL4120800 -- 1 set HEAVY DUTY CLEVIS PL4112200 -- 2 sets EYE SCREW M2 5x8x25mm w/Threads(For Rudder) -- 2 pcs COPPER TUBE d2.5xD3.2x8mm (For Rudder) -- 2 pcs SPONGE 10x80x200mm -- 1 pc. 15.WING TUBE Ø14.5x806mm -- 1 pc. 15.WING TUBE Ø14. 5x806mm -- 1 pc. SCREW PM3x16mm -- 1 pc. SCREW PA3x16mm -- 1 pc. WASHER d3xD7mm -- 2 pcs 16.WING TUBE Ø14. 5x645mm -- 1 pc. SCREW PM3x16mm -- 1 pc SCREW PA3x16mm -- 1 pc WASHER d3xD7mm -- 2 pcs 17.PLYWOOD (OUTER WING CABANES) -- 1 pair PLYWOOD 3x330.8x388.6mm(Wing Incidence Angle Template) -- 2 pcs SCREW PM3x18mm -- 8 pcs WASHER d3xD7mm -- 16 pcs M3 NYLON INSERT LOCK NUT -- 8 pcs 18.CANOPY -- 1 pc. COCKPIT -- 1 pc. PILOT PC001085A/B -- 1 pc. SCREW PWA 2.3x8mm -- 4 pcs SCREW PM3x16mm -- 2 pcs WASHER d3xD7mm -- 2 pcs SILICON GROMMET d1.5xD6.5mm -- 4 pcs 19.COWLING --- 1 pc. SPINNER(w/alu. back plate) Ø89mm --- 1 set SCREW PA3x12mm --- 5 pcs WASHER d3xD7mm --- 5 pcs SILICON GROMMET d2. 5xD8. 5mm --- 5 pcs 20.DECALS --- 1 set COVERING:--PURPLE COLOR SCHEME: TOUGHLON STL 100 WHITE TOUGHLON STL 201 BLACK TOUGHLON STL 561 PEARL PURPLE TOUGHLON STL 370 SILVER YELLIOW COLOR SCHEME: TOUGHLON STL 100 WHITE TOUGHLON STL 201 BLACK TOUGHLON STL 330 CADMIUM YELLOW TOUGHLON STL 370 SILVER





















Step1. Insert aluminum wing tube (Ø16x806mm)with the pre-drilled hole end into the right wing (lower). Align the lines marked at the wing root and wing tube, then apply the PM3X16mm machine screw through the pre-drilled hole on top of the wing. (please confirm the alignment of the hole by putting a 2. 5mm diameter rod through the pre-drilled wing hole before applying the screw) The hole on the wing tube is pre-threaded, do not over tighten the PM3 screw, the set up is for future removal of the wing.

Wing Tube Ø16x806mm ≈295mm ≈102mm Main Wing (Lower)

Step 2. Install the right wing to the fuselage by inserting the wing tube (now attached to the right wing) through the fuselage, then install the left wing.



Step 3. Make sure the wings are resting against the fuselage tightly. Locate the pre-drilled 2mm hole at top of left wing, and drill along with 2mm drill bit until it passes through the wing tube. Apply the PA3x16mm self-tapping screw.

Note : It is recommended that the wing tube stays with the left wing. Removal of the wings could be achieved by removing the right wing machine screw, the right wing then the left wing with wing tube. If removal of wing tube from left wing is also required, it is recommended that instead of applying self-tapping screw in step 3, you pretap with M3 thread cutter and apply M3 machine screw.







Step 3. Make sure the wings are resting against the center wing cabane tightly. Locate the pre-drilled 2mm hole at top of left wing, and drill along with 2mm drill bit until it passes through the wing tube. Apply the PA3x16mm self-tapping screw.

Note : It is recommended that the wing tube stays with the left wing. Removal of the wings could be achieved by removing the right wing machine screw, the right wing then the left wing with wing tube. If removal of wing tube from left wing is also required, it is recommended that instead of applying self-tapping screw in step 3, you pre-tap with M3 thread cutter and apply M3 machine screw.



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Warning!

Important Safety Precautions

- # First time flyer should never fly by himself / herself. Assistance from experienced flyer is absolutely necessary.
- # Pre-flight adjustment must be done before flying, it is very dangerous to fly a badly pre-adjusted aircraft.
- # **27% Ultimate** is specially designed to be powered by 50**cc** gasoline engine, using a more powerful engine does not mean better performance. In fact, over powered engine may cause severe damage and injuries.
- # Make sure the air field is spacious, never fly the plane too close to people and never get too close to a running propeller.
- # If you find wrinkles on the covering as a result of weather changes, you can use hot iron to remove the wrinkles. Please begin with lower temperature setting and gradually raise the temperature until the wrinkles are gone. Too hot an iron may damage the covering.
- # Check and re-tighten up all factory assembled screws, use thread locker if applicable.



Please call AirBorne Models at 925 371 0922 for any assistance in filling this form. Thank you very much for purchasing our product.

(QC numbers are stamped on wing and fuselage)

5.Date of Purchase:_____

6.Store Name: