Jeff Troy’s TAMEcat EP ARF

Outrunner Motor
Requires: 4-channel radio w/ 4 micro servos, 20A Brushless ESC, 3 cells 11.1V 2100mAh Li - Po battery & charger. Y - harness (1), 6 - inch servo extension (1)

Specifications
- Wing Span: 39.5 in / 1000 mm
- Wing Area: 273 sq in / 17.6 sq dm
- Flying Weight: 24 oz / 680 g
- Fuselage Length: 29.0 in / 730 mm

*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.

THE WORLD MODELS MANUFACTURING CO., LTD. FACTORY PRE-FABRICATED ALMOST-READY-TO-FLY (ARF) SERIES MADE IN CHINA www.theworldmodels.com
Jeff Troy’s TAMEcat EP ARF

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BEFORE YOU BEGIN

1 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. Warranty will not cover any parts modified by customer.

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

- Apply epoxy glue.
- Assemble left and right sides the same way.
- Peel off shaded portion covering film.
- Drill holes with the specified diameter (here: 3mm)
- Pay close attention here!
- Pierce the shaded portion covering film.
- Apply instant glue (C.A.glue, super glue.)
- Ensure smooth non-binding movement while assembling.
- Cut off shaded portion.
- Must be purchased separately!
- Do not overlook this symbol!
Parts List

1. MAIN WING -- 1 set
2. SCREW PM2x8mm -- 4 pcs
   STRAPER -- 2 pcs
   FUEL TUBE d2xD4x4mm -- 4 pcs
   CLEVIS -- 2 pcs
   HORN -- 2 sets
   PUSHROD Ø1.4x90mm w/ Threads (For Aileron) -- 2 pcs
   PLYWOOD 3x7.5x17mm (For Aileron Servo) -- 4 pcs
3. STABILIZER & ELEVATOR -- 1 set
   Fuseelage -- 1 pc.
4. VERTICAL FIN & RUDDER -- 1 pc.
   BALSA (Tail Skid) 2x15.1x98.4mm -- 2 pcs
5. FRONT LANDING GEAR -- 1 set
   COLLAR Ø2.6mm w/ set screw -- 1 set
   WHEEL Ø40mm -- 1 pc.
   LANDING WIRE STRAPS PL4114030 -- 2 pcs
   PLASTIC COLLAR d3xD6.5x2mm -- 1 pc.
   SCREW PWA2.3x8mm -- 4 pcs
6. MAIN LANDING GEAR -- 1 set
   COLLAR Ø2.6mm w/ set screw -- 4 sets
   WHEEL Ø40mm -- 2 pcs
   LANDING WIRE STRAPS PL4114030 -- 3 pcs
   SCREW PWA2.3x8mm -- 6 pcs
7. SCREW PM2x8mm -- 2 pcs
   FUEL TUBE d2xD4x4mm -- 2 pcs
   CLEVIS -- 1 pc.
   STRAPER -- 1 pc.
   HORN -- 1 set
   PUSHROD Ø1.4x120mm w/ Threads (For Elevator) -- 1 pc.
8. SCREW PM2x8mm -- 4 pcs
   FUEL TUBE d2xD4x4mm -- 4 pcs
   CLEVIS -- 2 pcs
   STRAPER -- 2 pcs
   HORN -- 2 sets
   PUSHROD Ø1.4x145mm w/ Threads (For Rudder) -- 2 pcs
9. KM0283010 OUTRUNNER MOTOR -- 1 set
   HW2340100 PROPELLER ADAPTOR (d3 D5) -- 1 set
   FOLDING PROPELLER SET (10x6) -- 1 set
   SPINNER Ø45mm -- 1 set
   COWLING -- 1 pc.
   SCREW PWA2x8mm -- 4 pcs
   SCREW PM3x6mm -- 4 pcs
   WASHER d3x7mm -- 4 pcs
10. SCREW PM2x10mm -- 2 pcs
   M2 NYLON INSERT LOCK NUT -- 2 pcs
   WASHER d2xD5mm -- 2 pcs
   SCREW PWA2.3x8mm -- 4 pcs
   SPONGE 10x50x150mm (For Radio Equipment) -- 1 pc.
   DOUBLE-SIDED TAPE 30x35mm -- 1 pc.
   BATTERY TIE 180mm -- 1 pc.
   MOUNTING PLATE (PL4114015) -- 2 pcs
   BALSA 3.5x45x106mm -- 1 pc.
   BALSA 3.5x45x86mm -- 1 pc.
   PLYWOOD 2x68.8x85mm -- 1 pc.
11. SCREW PM2.5x25mm -- 2 pcs
   WASHER d2.5xD8mm -- 2 pcs
   PLYWOOD 2x17x64mm (Wing Protection) -- 1 pc.
12. CANOPY -- 1 pc.
   SCREW PWA2x8mm -- 4 pcs
   PILOT (PC101042A) -- 1 pc.
13. DECALS -- 1 set

COVERING:
- LIGHTEX SGX245000
- LIGHTEX SGX245001
- LIGHTEX SGX100
- LIGHTEX SGX201
- LIGHTEX SGX311
1 Main Wing

- Apply instant type CA glue to both sides of each hinge.

- Bottom View

2 Aileron Servos

PM2x8mm Screw

4

- Bottom View

- Completed

Aileron Servo Lead

Straper

Fuel Tube d2xD4x4mm

PM2x8mm

Clevis

Horn

PLYWOOD 3x7.5x17mm

Fuel Tube d2xD4x4mm

Pushrod Ø1.4x90mm
3 Stabilizer & Elevator

- Apply instant type CA glue to both sides of each hinge.

Temporary install the main wing, adjust leveling of the stabilizer to make it as parallel to the main wing as possible.

*Also refer to step 13 Wing Setting

4 Vertical Fin & Rudder

- Apply instant type CA glue to both sides of each hinge.

Bottom View
5 Front Landing Gear

- PWA2.3x8mm Screw: 4
- 2.6mm Collar: 1

Bottom View

- Front

Completed

- 3mm Set Screw
- 2.6mm Collar

Landing Wire Straps PL4114030

- PWA2.3x8mm

6 Main Landing Gear

- PWA2.3x8mm Screw: 6
- 2.6mm Collar: 4

Bottom View

- Front

- 2.6mm Collar
- 3mm Set Screw
- 2.6mm Collar
7 Elevator Pushrod

- ø1mm pilot holes for World Models horn are pre-drilled. Please look for pin-hole marks at under side of control surfaces.

8 Rudder Pushrod

- ø1mm pilot holes for World Models horn are pre-drilled. Please look for pin-hole marks at side of control surfaces.
**9 Outrunner Motor / Cowling**

- Make sure rotating motor casing is not in contact with wirings or anything.

**1**
- PM3x6mm Screw (4)
- d3xD7mm Washer (2)
- M5 Nut (2)

**2**
- PM2x12mm
- PM2x12mm
- d3xD7mm Washer

**3**
- PM3x6mm
- M5 Nut

**4**
- Ø45mm Spinner
- PA2.6x8mm

**10 Battery & ESC**

- PM2x10mm Screw (2)
- d2xD5mm Washer (2)
- PM2 Nylon Insert Lock Nut (2)
- PWA2.3x8mm Screw (4)
- Battery
- Battery Tie

- Double-Sided tape
- 20A Brushless ESC

- Front

- Bottom View
12 Canopy

PWA2x8mm Screw

13 Wing Setting

- Adjust the wing and fuselage configuration as shown in the diagrams.

A=A', B=B', C=C'
**14 Control Throws**

Adjust the control throws as shown in the diagram. These throws are good for general flying. You can adjust according to your personal preference.

- **Rudder**
  - HIGH RATE: 8mm
  - LOW RATE: 5mm
- **Elevator**
  - HIGH RATE: 10mm
  - LOW RATE: 6mm
- **Aileron**
  - HIGH RATE: 7mm
  - LOW RATE: 5mm

**15 C.G.**

The ideal C.G. position is 50mm (2 in.) behind the leading edge measured at where the wing meets the fuselage. In order to obtain the C.G. specified, add weight to the fuselage or move the battery position. Check the C.G. before flying.

**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.
- # **Jeff Troy’s TAMEcat EP ARF** is specially designed to be powered by **KM0283010 Outrunner Motor**.
- # 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.
The World Models

Warbirds
Pattern

Scale
Funfly

Sports
Electric

Trainer
Glider

Covering
(Lightex / Toughlon)

Accessories

Boat

http://www.theworldmodels.com
There are only two kinds of airplanes — Fighters and Targets. Hello, Fighter Ace!

Thank you for purchasing my F-14 TAMEcat EP ARF from The World Models.

The original F-14 TAMEcat was a .40-size, nitro-powered model. The design was originally published as a plan set in Model Aviation magazine as a primary trainer with very gentle flight characteristics. Despite its jet-like appearance, the original F-14 TAMEcat is an ideal airplane for beginners to radio control flying. The .40-size F-14 TAMEcat Trainer ARF is also available from The World Models.

There are a few significant differences between that airplane and the EP version you have before you. Most important is that the F-14 TAMEcat EP ARF is not intended for use as a primary trainer, although it does have reasonably gentle flying characteristics when operated at lower motor speeds.

The EP model is much smaller than the original design, there is a lower dihedral angle in the wing, and its extreme lightness and high-power TWM brushless outrunner motor will allow the model to fly faster than I would recommend for basic flight training. If a true, primary training version of the TAMEcat is desired, please purchase the F-14 TAMEcat Trainer ARF from The World Models.

Now that you understand the differences between the electric-powered F-14 TAMEcat EP ARF and the larger, .40-size F-14 TAMEcat Trainer ARF for nitro (glow engine) power, here are a few suggestions for getting the best performance from your F-14 TAMEcat EP ARF.

1. **The nose gear is not steerable**, so the model’s nose should be pointed directly into the wind when attempting an ROG (Rise Off Ground) takeoff. Landings should also be made directly into the wind.

2. **If flying from a grass field**, try removing the main landing gear and the nose gear. This will save weight and reduce aerodynamic drag, thus improving the model’s overall flight performance.

3. **Please use the recommended 3S lithium-polymer battery**. Several flights were made using a less powerful 2S battery, and we found the power output of 2S batteries to be sub-standard for this model in wind conditions above dead calm.

4. **Finally, your F-14 TAMEcat EP ARF can be used satisfactorily as a flight trainer if flown with a qualified RC flight instructor**. At two-thirds to three-quarters power, the F-14 TAMEcat EP ARF is gentle and easily managed, and will satisfactorily fulfill a flight training role.

For flight training, the model should be equipped with a radio control system with a “buddy box” feature for the instructor, and the student pilot should use the buddy box controller. The correct connecting cable should be used between the transmitter and the extra controller.

When the student is competent, s/he should be able to handle the F-14 TAMEcat EP ARF unassisted. Please enjoy assembling and flying your F-14 TAMEcat EP ARF, and please follow all the model’s directions for many happy landings.

Once again, thank you for choosing the F-14 TAMEcat EP ARF.

Warmest regards,

Jeff Troy