**AT-6 TEXAN**

0.91-1.10 cu. in. displacement 4-stroke

Requires: 6-channel radio w/ 6 standard servos and 1 low profile retract servo

### Specifications

- **Wing Span**: 72 in / 1830 mm
- **Wing Area**: 777 sq in / 50.1 sq dm
- **Flying Weight**: 8.4 lbs / 3800 g
- **Fuselage Length**: 51.5 in / 1310 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.
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.**
- **Apply instant glue (C.A.glue, super glue.)**
- **Apply thread locker**
- **Must be purchased separately!**
- **Assemble left and right sides the same way.**
- **Ensure smooth non-binding movement while assembling.**
- **Peel off shaded portion covering film.**
- **Cut off shaded portion.**
- **Drill holes with the specified diameter (here: 3mm).**
- **Pierce the shaded portion covering film.**
- **Pay close attention here!**
- **Warning! Do not overlook this symbol!**

A212PO25901108
Parts List

1. MAIN WING -- 1 set
   SCREW PM2x8mm -- 8 pcs
   M2 NUT -- 8 pcs
   WASHER D2x05mm -- 16 pcs
2. MAIN LANDING GEAR COVER -- 1 pair
   SCREW PM2x8mm -- 8 pcs
   M2 NUT -- 8 pcs
   WASHER D2x05mm -- 16 pcs
3. SCREW PB2x25mm -- 6 pcs
   SCREW PW2x8mm -- 8 pcs
   PUSHROD Ø1.8x75mm w/ Threads (For Aileron Servos) -- 2 pcs
   TRI-HORN M2x14mm (L) (For Aileron) PL4111185 -- 2 sets
   SERVO MOUNTING PANEL 2mm (For Aileron Servos) -- 1 pair
   CLEVIS PL4112103 -- 2 pcs
   STRAPER PL4112102 -- 2 pcs
   FUEL TUBE Ø6x5mm -- 2 pcs
   PLYWOOD 3x28x54mm -- 1 pc.
4. WIRE Ø1.8x75mm (For Fixing flap) -- 2 pcs
   SCREW PB2x15mm -- 3 pcs
   PUSHROD Ø1.8x100mm w/ Threads (For Flap Servo) -- 1 pc.
   TRI-HORN M3x14mm (L) (For Flap) PL4111185 -- 1 set
   PLYWOOD 3x28x54mm -- 1 pc.
5. SCREW PB2x22mm -- 6 pcs
   SCREW PW2x8mm -- 8 pcs
   PUSHROD Ø1.8x730mm w/ Threads (For Elevator Servo) -- 1 pc.
   TRI-HORN M3x22mm (L) (For Elevator Servo) PL4111251 -- 2 sets
   CLEVIS PL4112103 -- 1 pc.
   FUEL TUBE Ø6x5mm -- 1 pc.
6. STABILIZER & ELEVATOR -- 1 set
   FUSELAGE -- 1 pc.
7. VERTICAL FIN & RUDDER -- 1 set
   TAIL LANDING GEAR PL79100002 -- 1 set
   SCREW PA3x12mm -- 2 pcs
   COLLAR 2.6mm w/set screw -- 1 set
   TAIL WHEEL Ø30mm -- 1 pc.
8. SCREW PB2x22mm -- 6 pcs
   SCREW PW2x6mm w/ Threads (For Elevator Servo) -- 1 pc.
   TRI-HORN M3x22mm (L) (For Elevator Servo) PL4111251 -- 2 sets
   CLEVIS PL4112103 -- 2 pcs
9. SCREW PM2.5x35mm -- 3 pcs
   SCREW PW2x6mm w/ Threads (For Rudder Servo) -- 1 pc.
   TRI-HORN M3x22mm (L) (For Rudder Servo) PL4111251 -- 1 set
   CLEVIS PL4112103 -- 1 pc.
   FUEL TUBE Ø6x5mm -- 1 pc.
10. SCREW PM2.5x35mm -- 3 pcs
    PUSHROD Ø1.8x150mm w/ Threads (For Retract Servo) -- 2 pcs
    TRI-HORN M3x14mm (L) (For Retract Servo) -- 2 pcs
    PLYWOOD 2x25x100mm (Wing Protection) -- 1 pc.
11. FUEL TANK 380cc PL1111380 -- 1 set
    CABLE TIE (For Fuel Tank) 1.5x5x400mm -- 1 pc.
    DOUBLE-SIDED TAPE 40x100mm -- 1 pc.
12. SOCKET HEAD SCREW M4x25mm -- 4 pcs
    WASHER D4x12mm -- 4 pcs
    BLIND NUT M4x15mm -- 4 pcs
    ENGINE MOUNT PL5111080 -- 1 set
    WOODEN DOWEL Ø5.5x9mm (For Firewall) -- 4 pcs
13. LINKAGE CONNECTOR 2.1mm HW7111060 -- 1 set
14. THROTTLE PUSHWIRE Ø1.2x400mm -- 1 pc.
    PLASTIC TUBE d2xD3x200mm -- 1 pc.
    ENGINE MOUNT ALUMINUM PLATE -- 1 set
    ANTI-VIBRATION MOUNT 4C-91 PL5214094 -- 1 set.
    INCLUDE: SOCKET HEAD SCREW M4x35mm -- 4 pcs
    SCREW KM3x20mm -- 8 pcs
    WASHER D4x12mm -- 8 pcs
    NYLON INSERT LOCK NUT M3 -- 8 pcs
    NYLON INSERT LOCK NUT M4 -- 4 pcs
15. FUEL TUBE Ø6x5mm -- 2 pcs
    STRAPER PL4112102 -- 2 pcs
    PLYWOOD 3x28x54mm -- 1 pc.
16. SOCKET HEAD SCREW M4x55mm -- 2 pcs
    WASHER D4x15mm -- 2 pcs
    PLYWOOD 2x25x100mm (Wing Protection) -- 1 pc.
17. SCREW PW2.3x8mm -- 6 pcs
    SILICON GROMMET d1.5xD6.5mm -- 6 pcs
    PILOT PC001085A -- 1 set
    CANOPY -- 1 pc.
18. SCREW PW2.6x12mm -- 8 pcs
    COWLINING -- 1 pc.
    TRANSPARENT 3D TEMPLATE -- 1 pc.
    COWL INING BRACKET PL5320010 -- 4 pcs
    QUICK RELEASE NYLON RIVET PL1208042 -- 4 pcs
    SCREW KA2.3x8mm -- 4 pcs
    SPINNER NUT HW2340001 -- 1 set
    CARB INTAKE -- 1 set
    OIL COOLER INTAKE -- 1 set
19. DECALS: A212DEC -- 1 set
   COVERING:
   TOUGHLON STL 201 BLACK TOUGHLON STL 331 CUB YELLOW

A212PO25901108 P.2
1 Main Wing

- **Bottom View**

- Peel off shaded portion covering film.

2 Main Retractable Landing Gear

- **PM2x8mm Screw**
  - 8

- **M2 Nut**
  - 8

- **d2xD5mm Washer**
  - 16

- **Completed**

- **Bottom View**

A212PO25901108 P.3
3 Aileron Servo

- Ø1mm pilot holes for World Models tri-horn are pre-drilled. Please look for pin-hole marks at under side of control surfaces.

4 Main Wing

- Apply glue to both sides of all surfaces in contact. Use a stick to apply glue to inner side of wing joiner sleeve, and apply glue to wing joiner before putting them together. Wing joiner not glued properly will lead to wing failure and plane crash.

Completed
5 Flap and Retract Servo

- Select the servo horn that will give 26mm travel when rotates through 180°.

- Ø1mm pilot holes for World Models tri-horn are pre-drilled. Please look for pin-hole marks at under side of control surfaces.

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

6 Stabilizer & Elevator

- Flaps up Flaps Down

- Lead to Flap servo

- Lead to retract servo

- Lead to Aileron servo

- Straper

- Fuel Tube Ø6x5mm

- Pushrod Ø1.8x100mm
7 Vertical Fin & Rudder

- Ø1mm pilot holes for World Models tri-horn are pre-drilled.
- Please look for pin-hole marks at under side of control surfaces.

8 Tail Landing Gear

- PA3x12mm Screw x 2
- 2.6mm Collar x 1

9 Elevator Pushrod

- PB2x22mm Screw x 6

- Ø1mm pilot holes for World Models tri-horn are pre-drilled.
- Please look for pin-hole marks at under side of control surfaces.
10 Rudder Pushrod

Ø1mm pilot holes for World Models tri-horn are pre-drilled. Please look for pin-hole marks at side of control surfaces.

PM2.5x35mm Screw 3

Fuel Tube Ø6x5mm

Clevis

PM2.5x35mm

Rudder Pushrod Ø1.8x835mm

PM2.5x35mm

11 Fuel Tank

DOUBLE-SIDED TAPE 40x100mm

CABLE TIE 1.5x5x400mm

12 Engine Mount

M4x25mm Socket Head Screw 4

d4xD12mm Washer 4

M4x15mm Blind Nut

Wooden dowel Ø5.5x9mm

M4x15mm Blind Nut

d4xD12mm Washer

M4x25mm Socket Head Screw

Engine Mount PL5111080

Apply thread locker to screws.

Blind nuts are off-centered to keep the spinner at the fuselage axis.

A: Inverted mount

B: Inclined mount
**13 Servo Set**

<table>
<thead>
<tr>
<th>Component</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 x 3mm Set Screw</td>
<td>1</td>
</tr>
<tr>
<td>Linkage Connector</td>
<td>1</td>
</tr>
<tr>
<td>M2 Nut</td>
<td>1</td>
</tr>
<tr>
<td>2mm Washer</td>
<td>1</td>
</tr>
</tbody>
</table>

![Diagram showing the placement of the servo set components]

- N.I. Included with the radio Set.
- Throttle Servo.

⚠️ Please refer to attached sheet for linkage connector installation.

**14 Engine**

<table>
<thead>
<tr>
<th>Component</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>M4x35mm Socket Head Screw</td>
<td>4</td>
</tr>
<tr>
<td>KM3x20mm Screw</td>
<td>8</td>
</tr>
<tr>
<td>M4 Nylon Insert Lock Nut</td>
<td>4</td>
</tr>
<tr>
<td>M3 Nylon Insert Lock Nut</td>
<td>8</td>
</tr>
<tr>
<td>d4xD12mm Washer</td>
<td>8</td>
</tr>
</tbody>
</table>

**ANTI-VIBRATION MOUNT INSTALLATION**

![Diagram showing the installation of the anti-vibration mount]

- KM3x20mm
- M3 Nylon Insert Lock Nut

⚠️ Illustration is for inverted mounting. You can mount the engine upright or sideways simply by rotating the engine mount. Thrust angles will not be affected.

- 137mm
- 5.39in

- 2mm
- Socket Head Screw

Engine Mount Aluminum Plate

M4 Nylon Insert Lock Nut

Washer d4xD12mm

Socket Head Screw M4x35mm

- Throttle Pushwire Ø1.2x400mm
- Plastic tube d2xD3x200mm

⚠️ Make sure the rounded edges are facing the shock absorbing silicon PAD.
15 Radio Equipment

- Install and arrange the servos as shown in the diagram.

- Bottom View

16 Main Wing

- Bottom View
17 Canopy

- First insert the grommet to the canopy then apply screw.

PWA2.3x8mm Screw 6

Silicon Grommet d1.5xD6.5mm 6

PWA2.3x12mm Screw

Silicon Grommet d1.5xD6.5mm

18 Cowling

- Please refer to the attached sheet for usage of the transparent 3D template.

PWA2.6x12mm Screw 8

KA2.3x8mm Screw 4

Quick Release Nylon Rivet d2x06mm

Cowling

PWA2.6x12mm Cowling Bracket Fuselage

Completed

Carb Intake

Spinner Nut

Oil Cooler Intake
19 Wing Setting

- Adjust the wing and fuselage configuration as shown in the diagrams.
### 20 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.

- **Elevator**
  - 25mm
  - 25mm

- **Rudder**
  - 45mm
  - 45mm

- **Flaps (near fuselage)**
  - 30mm

- **Ailerons (away from fuselage)**
  - 16mm
  - 16mm

### 21 C.G.

The ideal C. G. position is 135 mm (5.3 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.

- Measure C.G. with the wheels in retracted position

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.

# AT-6 TEXAN is specially designed to be powered by 0.91-1.10 4-stroke glow 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. Don’t use hot iron near the seams or edges, hot iron will melt the glue and shrink the covering at the same time, causing the seams to pull away.

# Check and re-tighten up all factory assembled screws, use thread locker if necessary.

# When Flaps are lowered, nose of model will rise. The nose-up varies with the speed at which the models is flying when you lower the flaps and the extent to which they are lowered. Check effect of flaps at higher altitude to avoid surprises during landing. You may apply down trim of the elevator to compensate for the nose-up effect when lowering the flaps. Taking off with flaps lowered is not recommended, as the increased drag may require a longer runway and more engine power for the model to take off.

Should you require to bend the landing gear wire, please insert a round metal bar into the spring ring and apply force there as leverage. Bending the wire directly may damage the mounting block structure.
Usage of the transparent 3D template

This transparent 3D template is used for position guidance of the actual cutting of the pre-painted cowling.

Simply cut the transparent 3D template to fit your engine and exhaust pipe, then slide onto the actual cowling and use as template to mark the openings required for final cutting.
Ducted Fan

Warbirds

Scale

Sports

Trainer

Pattern

Funfly

Electric

Glider

Boat

Accessories

Covering

(Lightex / Toughlon)