THE WINGS MAKER
FACTORY PRE-FABRICATED
ALMOST-READY-TO-FLY (ARF) SERIES
MADE IN CHINA
www.thewingsmaker.com

INSTRUCTION MANUAL

Before commencing assembly, please read these instructions thoroughly.

FAIRCHILD PT-26 40 (GA021)

Specifications

Wing Span: 57.5 in / 1460 mm
Wing Area: 533 sq in / 34.4 sq dm
Flying Weight: 5.3 lbs / 2400 g
Fuselage Length: 44 in / 1120 mm
Requires: 2-stroke 0.40 or 4-stroke 0.52 engine
4-channel radio w/ 5 servos

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.

* Specifications are subject to change without notice.*
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:

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

1. MAIN WING -- 1 pair
2. WOODEN WING JOINER 9x21.8x124mm -- 1 pc.
3. MAIN LANDING GEAR -- 1 set
   SCREW PA3x14mm -- 8 pcs
   COLLAR Ø3.6mm w/ set screw -- 4 sets
   MAIN WHEEL Ø65mm -- 2 pcs
   MOUNTING PLATE PL114020 -- 4 pcs
4. SERVO MOUNTING PANEL PL5310000 (For Aileron) -- 1 pair
   SCREW PB2x16mm -- 6 pcs
   SCREW PWA2x8mm -- 8 pcs
   PUSHROD Ø1.8x113mm w/ Threads (For Aileron) -- 2 pcs
   CLEVIS PL4112103 -- 2 pcs
   STRAPER PL4112102 -- 2 pcs
   FUEL TUBE Ø6x5mm -- 4 pcs
   TRI-HORN M3x14mm (s) PL4111221 -- 2 sets
5. STABILIZER & ELEVATOR -- 1 set
   FUZELAGE -- 1 pc.
6. VERTICAL FIN & RUDDER -- 1 set
7 TAIL LANDING GEAR Ø2mm PL7100001 -- 1 set
   SCREW PA3x12mm -- 2 pcs
   COLLAR Ø2.1mm w/ set screw -- 1 set
   TAIL WHEEL Ø23mm -- 1 pc.
8. PUSHROD Ø1.8x640mm w/ Threads (For Rudder) -- 1 pc.
   SCREW PB2x16mm -- 3 pcs
   CLEVIS PL4112103 -- 1 pc.
   FUEL TUBE Ø6x5mm -- 1 pcs
   TRI-HORN M3x14mm (s) PL4111221 -- 1 set
9. PUSHROD Ø1.8x540mm w/ Threads (For Elevator) -- 2 pcs
   SCREW PB2x16mm -- 6 pcs
   CLEVIS PL4112103 -- 2 pcs
   FUEL TUBE Ø6x5mm -- 2 pcs
   TRI-HORN M3x14mm (s) PL4111221 -- 2 sets
10. FUEL TANK 320cc -- 1 set
    CABLE TIE 1.5x5x400mm -- 1 pc.
    DOUBLE-SIDE TAPE 40x100mm -- 1 pc.
11. ENGINE MOUNT PL5111050 -- 1 set
    SOCKET HEAD SCREW M4x25mm -- 4 pcs
    WASHER Ø4x9mm -- 4 pcs
12. LINKAGE CONNECTOR Ø2.1mm -- 1 set
13. SOCKET HEAD SCREW M3x30mm -- 4 pcs
    M3 NUT -- 8 pcs
    WASHER Ø3x7mm -- 8 pcs
    THROTTLE PUSHWIRE Ø1.2x400mm -- 1 pc.
    PLASTIC TUBE Ø2x3x70mm -- 1 pc.
14. PUSHROD Ø1.8x95mm (For Elevator) -- 1 pc.
    FUEL TUBE Ø6x5mm -- 2 pcs
    STRAPER PL4112102 -- 2 pcs
    SPONGE 60x70x105mm (For Radio Equipment) -- 1 pc.
    Y CONNECTOR PL4410010 -- 1 set
15. SCREW HM4x35mm -- 2 pcs
    WASHER Ø4x15mm -- 2 pcs
    PLYWOOD 3x34x107mm (Wing Protection) -- 1 pc.
16. COWLING -- 1 pc.
    TRANSPARENT 3D TEMPLATE -- 1 pc.
    SCREW PWA2.6x12mm -- 4 pcs
    SILICONE GROMMET Ø1.5xØ6.5mm -- 4 pcs
    SPINNER NUT Ø22mm HW234060 -- 1 set
17. COCKPIT -- 1 pc.
    PILOT PC001065B -- 2 pcs
18. DECALS: GA021DEC -- 1 set

- COVERING:
  LIGHTEX SGX 100 WHITE
  LIGHTEX SGX 331 CUB YELLOW
  LIGHTEX SGX 351 DARK BLUE
  LIGHTEX SGX 311 FERRARI RED
  LIGHTEX SGX 201 BLACK
1. **Main Wing**

- **Bottom View**

2. **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.

3. **Main Landing Gear**

   - **Bottom View**

---

GA021SPO27821210 P.3
4 Aileron Servos

- Ø1mm pilot holes for The Wings Maker 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.

- Remove coverings for all surfaces in contact before applying A/B epoxy glue.

5 Stabilizer & Elevator

- Pre-glued

6 Vertical Fin & Rudder

- Remove coverings for all surfaces in contact before applying A/B epoxy glue.
7 Tail Landing Gear

PA3 x 12mm Screw
2
2.1mm Collar
1

Bottom View

8 Rudder Pushrod

PB2 x 16mm Screw
3

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

Bottom View

9 Elevator Pushrod

PB2 x 16mm Screw
6

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

Bottom View
10 Fuel Tank

- Cable Tie 1.5x5x400mm
- Double-side Tape 40x100mm

11 Engine Mount

- Apply thread locker to screws.
- Blind nuts are off-centered to keep the spinner at the fuselage axis.

12 Servo Set

- Throttle Pushwire
- Throttle Servo.
- Included with the radio Set.

Please refer to attached sheet for linkage connector installation.
Install Engine Position

- 120mm (4.7 in.)

- Throttle Pushwire Ø1.8x400mm

- Plastic Tube d2xD3x270mm

- M3 x 30mm Socket Head Screw
  - M3 Nut
  - d3xD7mm Washer
  - M3 Nut

---

Install and arrange the servo as shown in the diagram.

- Elevator Pushrod Ø1.8x95mm
- KM 2x8mm
- Elevator Servo
- Rudder Pushrod Ø1.8x640mm
- Elevator Servo
- Battery
- Fuel Tube Ø6x3mm
- Straper
- Throttle Pushrod Ø1.8x540mm
- Throttle Servo
- Throttle Pushwire Ø1.2x400mm
- Sponge

---

GA021SPO27821210 P.7
15 Main Wing

HM 4x35mm Screw 2
D4xD15mm Washer 2

Wing Protection
3x34x107mm

16 Cowling

PWA2.6x12mm Screw 4
D1.5xD6.5mm Silicon Grommet 4

First insert the grommet to the cowling then apply screw. Please refer to the attached sheet for usage of the transparent 3D template.

17 Cockpit

Front

Pilot

Double-sided Tape
18 Wing Setting

- Adjust the wing and fuselage configuration as shown in the diagrams.
19 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

- Ailerons
  - 12mm
  - 12mm

20 C.G.

The ideal C.G. position is 83mm (3.25in.) 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.

If you are converting this model to electric, please move the C.G. forward 10% of current C.G. distance from leading edge to compensate for weight of fuel.

![C.G. diagram]

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.
- **FAIRCHILD PT-26 40** is specially designed to be powered by 2 C 0.40 or 4 C 0.52 engine, using a more powerful engine does not mean better performance. In fact, over powered engine may cause structural 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.
