

20cc Gas Engine Pilatus Porter PC-6

Glow 120 4T

RADIO CONTROL MODEL / RC FLUGMODELL

BUILDING INSTRUCTIONS / MONTAGEANLEITUNG

SPECIFICATIONS

Wingspan	85.4 in.
Length	59.8 in.
Flying weight	14.4 lbs
Gas Engine	20cc
Radio	6 Channel / 8 servos

Technische Daten

Spannweite	2.170mm
Länge	1.520mm
Fluggewicht	4.500g
Vertreuerantrieb	20cc
Fernsteuerung	7 Kanal / 8 Servos

WARNING! This radio controlled model is NOT a toy. If modified or flown carelessly it could go out of control and cause serious human injury or property damage. Before flying your airplane, ensure the air field is spacious enough. Always fly it outdoors in safe areas and seek professional advice if you are inexperienced.

ACHTUNG! Dieses ferngesteuerte Modell ist KEIN Spielzeug! Es ist für fortgeschrittene Modellflugpiloten bestimmt, die ausreichende Erfahrung im Umgang mit derartigen Modellen besitzen. Bei unsachgemäßer Verwendung kann hoher Personen- und/oder Sachschaden entstehen. Fragen Sie in einem Modellbauverein in Ihrer Nähe um professionelle Unterstützung, wenn Sie Hilfe im Bau und Betrieb benötigen. Der Zusammenbau dieses Modells ist durch die vielen Abbildungen selbsterklärend und ist für fortgeschrittene, erfahrene Modellbauer bestimmt.

REQUIRED FOR OPERATION (Purchase separately)

BENÖTIGTE KOMPONENTEN FÜR DEN ABFLUG (Nicht enthalten)

Minimum 7 channel radio for airplane with 5 standard servos and 3 mini servos
 Flapx2 standard servo - Aileronx2 standard servo
 Rudderx1 standard servo - Elevatorx2 mini servo
 Motorx1 mini servo

Glow 120 4T Engine
 Gas Engine: 20cc
 900 - 1.000Watts
 Brushless Motor

Extension for aileron servo, Flap servo
 Nylon tube

GLUE (Purchase separately)

SILICON Silicon sealer
CA Cyanoacrylate Glue Klebstoff
EPOXY A Epoxy Glue (5 minute type) Epoxy-Klebstoff (5min-Typ)
EPOXY B Epoxy Glue (30 minute type) Epoxy-Klebstoff (30min-Typ)

TOLLS REQUIRED (Purchase separately)

Hobby knife, Needle nose Pliers, Sander, Masking tape - Straight Edged Ruler - Pen or pencil - Drill and Assorted Drill Bits, Phillip screw driver, Scissors, Wire Cutters, Hex Wrench, Awl

If exposed to direct sunlight and/or heat, wrinkles can appear. Storing the model in a cool place will let the wrinkles disappear. Otherwise, remove wrinkles in covering film with a hair dryer, starting with low temperature. You can fix the corners by using a hot iron.

Bei Sonneneinstrahlung und/oder Wärme kann die Folie erschaffen bzw. Falten entstehen. Verwenden Sie ein Wärmefußgebläse (Haartrockner) um evtl. Falten aus der Folie zu bekommen. Die Kanten können Sie mit einem Bügeleisen behandeln. Nicht zuviel Hitze anwenden!

Drill holes using the stated size of drill (in this case 1.5 mm Ø)
 Use epoxy glue
 Take particular care here
 Apply cyano glue
 Hatched in areas: remove covering film carefully
 Assemble left and right sides the same way.
 Check during assembly that these parts move freely, without binding
 These parts must be furnished separately
 Not included

Löcher bohren mit dem angegebenen Bohrer (hier 1.5 mm)
 Verwenden Sie Epoxidklebstoff
 Besondere Aufmerksamkeit
 Sekundärkleber auftragen
 Schraffierte Stellen, entsprechende Vorsicht entfernen
 Links und rechte Seite sind gleichgerichtet zusammengebaut
 Nicht montieren, Teile müssen separat gelöst werden

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

1.0mm = 3/64"	3.0mm = 1/8"	10mm = 13/32"	25mm = 1"
1.5mm = 1/16"	4.0mm = 5/32"	12mm = 15/32"	30mm = 1-3/16"
2.0mm = 5/64"	5.0mm = 19/32"	15mm = 19/32"	35mm = 1-5/16"
2.5mm = 3/32"	6.0mm = 19/64"	20mm = 51/64"	

1- Landing gear / Fahrwerk

3x12mm screw
 Stopper (metal)
 Nylon strap
 Kunststoffreifen
 3mm set screw
 5.5mm Collar
 Stopper (metal)
 5mm landing gear (left)
 5mm Main landing gear
 Aluminum tube
 5mm landing gear (right)

Caution: All holes on the bottom of the fuselage are pre-drilled at factory

2- Landing gear / Fahrwerk

All blind-nuts are installed at factory

3x15mm screw / Schraube
 Spring
 Main landing gear (5mm)
 Landing gear (5mm)
 Fahrwerksdraht
 Aluminum tube

Two holes on the left and the right side of the fuselage are pre-drilled at factory

3- Tail gear / Heckspornrad

Tail gear mount
 3x12mm screw
 3mm collar

BOTTOM - VIEW / Untersicht

4- Tail gear / Heckspornrad

Tail gear control arm
 Tail gear push rod
 Note: Slide the tail gear push rod in to the hole of the tail gear control horn B first

BOTTOM - VIEW / Untersicht

5- Tail gear / Heckspornrad

Hatch (plywood)
 Tail wheel push rod
 Connector
 Rudder push rod
 Rudder servo
 Rudder arm

BOTTOM - VIEW / Untersicht

HORIZONTAL STABILIZER

Rudder servo
 Rudder push rod
 Rudder arm

6- Vertical Stabilizer Seitenleitwerk

TOP VIEW / Draufsicht

Cut 7/8" (22mm) long slots along the hinge line in the trailing edge of the vertical stabilizer for the rudder torque rod bearings. Position of the slot on the side of the vertical stabilizer, 2"(50mm) from the bottom (6A)

Test-fit the rudder torque rods into the slot.
 NOTE: You may need to open up the slots so that the torque rod bearing are not too difficult to push in

6- Vertical Stabilizer Seitenleitwerk

When you are satisfied with the alignment, use a pencil to trace around the left and right of the stabilizer where it meets the fuselage(6B)

Remove the vertical stabilizer from the fuselage. Using the sharp hobby knife, carefully cut away the covering inside the lines which were marked above(6C)

*WARNING: When removing any covering from the airframe, please ensure that you secure the cut edge with CA or similar cement. This will ensure the covering remains tight.

Cut away only the covering both side

1 Securely glue together if coming off during fly, you lose control of your airplane.

6- Vertical Stabilizer Seitenleitwerk

FUSELAGE REAR VIEW
 FUSELAGE REAR VIEW

7- Horizontal Stabilizer Höhenleitwerk

30x4mm nylon bolt
 Horizontal stabilizer

7- Horizontal Stabilizer Höhenleitwerk

Using a pencil, mark the rudder where the rudder torque rod meet the rudder.
 Cut 2.3" (60mm) long slots along the hinge line in the leading edge of the rudder.
 Drill a 3/32" (2.5mm) diameter hole in tail wheel gear mounting slot, making sure that you drill the hole perpendicular to the leading edge of the rudder (7C)

Medium jelly
 Thin CA glue
 Hinge
 STABILIZER

7- Horizontal Stabilizer Höhenleitwerk

Apply a thin layer of machine oil or petroleum jelly to only the top and bottom of the trailing edge of the elevator. Then push the rudder and its hinges into the hinge slots in the trailing edge of the vertical stabilizer.
 When satisfied with the and alignment, hinge the rudder to the vertical stabilizer using CA glue (7D).

8- Horizontal Stabilizer Höhenleitwerk

Control horn
 2x30mm screw

9- Servo

BOTTOM - VIEW / Untersicht

10- Engine - Cowl / Motor - Motorhaube

Align the center mark on the engine with the mark on the fire-wall
 5mm
 123 - 125mm

10- Engine - Cowl / Motor - Motorhaube

Using a pencil or felt tipped pen, mark the fire wall where the four holes are to be drilled (10A)

Remove the engine mount and drill a 13/64"(5mm) hole through the fire-wall at each of the four marks marked (10B)

10- Engine - Cowl / Motor - Motorhaube

Reposition the engine on to the fire-wall so the distance from the prop hub to the fire-wall is 4.8 - 4.9"(123 - 125mm) (10C)

11- Glow Engine

Align the mark on both mounts with the mark on the fuselage
 123 - 125mm
 4x25mm
 3x20mm
 3x12mm screw

Using a pencil or felt tipped pen, mark the fire wall where the four holes are to be drilled
 Remove the engine mount and drill a 5mm hole through the fire-wall at each of the four marks marked.
 Attach the four blind-nut to the fire-wall as show.

12- Brushless Motor

Using a plywood motor mounting plate as a template, mark the fire wall where the four holes are to be drilled (12A)

Remove the plywood motor mounting plate and drill a 13/64"(5mm) hole through the fire-wall at each of the four marks marked (12B)

Using an aluminum motor mounting plate as a template, mark the plywood motor mounting plate where the four holes are to be drilled (12C)

Remove the aluminum motor mounting plate and drill a 1/8"(3mm) hole through the plywood at each of the four marks marked (12D)

12- Brushless Motor

Align with the marks
 An den Markierungen ausrichten

5x70mm
 4mm
 4mm

12- Brushless Motor

Align with the marks
 An den Markierungen ausrichten

12- Brushless Motor

Align with the marks
 An den Markierungen ausrichten

Align with the marks
 An den Markierungen ausrichten

Note the side thrust for motor! Sturz und Zug beachten!

13- Fuel tank / Tankenbau

Put the Li-Po battery in place

13- Fuel tank / Tankenbau

Put the fuel tank in place

15- Servo

Aileron control horn
 Aileron servo extension board

15- Servo

Control horn
 2x30mm screw

BOTTOM - VIEW / Untersicht

14- Installing the wing / Tragflächeneinbau

Aluminum tube
 Wooden dowel
 Wooden dowel

14- Installing the wing / Tragflächeneinbau

16- Installing the wing / Tragflächeneinbau

3x15mm screw / Schraube
 Wing
 Wing brace
 3x15mm screw

The blind-nut on the bottom of the wing installed at factory

The holes on the bottom of the wings and side of the fuselage are pre-drilled at factory

To the bottom of the wing
 To the side of the fuselage

Wing brace (right - left)

16- Installing the wing / Tragflächeneinbau

17- Decor / Aufkleber

Sticker

17- Decor / Aufkleber

Sticker

18- Balance / Schwerpunkt

Rudder
 30mm
 30mm
 Querruderausschlag
 Flap
 40mm
 Elevator
 Höhenruderausschlag
 40mm

Do not try to fly an out-of-balance model!
 Überprüfen Sie vor dem Flug den Schwerpunkt.
 75 - 80mm

18- Balance / Schwerpunkt