

# P-47 Thunderbolt



**E-flite**<sup>TM</sup>

Assembly Manual

Available from: [www.modelflight.com.au](http://www.modelflight.com.au)

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## Specifications

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Wingspan:	39" (990mm)
Length:	32" (813mm)
Wing Area:	260 sq in (16.8 sq dm)
Weight w/o Battery:	18–21 oz (510–595 g)
Weight w/ Battery:	21–26 oz (595–737 g)

## Contents of Kit/Parts Layout

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### *Large Replacement Parts:*

EFL6001	Wing
EFL6002	Fuselage
EFL6003	Hatch
EFL6004	Cowl
EFL6005	Horizontal Tail

### *Small Replacement Parts*

EFL6006	Hardware and Pushrod Set
EFL6007	Landing Gear Set
EFL6008	Bomb and Pylon Set
EFL6009	Decal Set
EFLM232	480 Motor w/19T 0.5 Module Pinion
EFLM236	400 Gearbox, w/56T 0.5M Spur Gear
EFLM237	Spur Gear, 56T 0.5 Module with Shaft
EFLM238	Spur Gear, 56T 0.5 Module
EFLM1915	Outrunner Stick Mount
EFLP1080E	10x8 Electric Prop



## Required Radio Equipment

You will need a 3-channel or greater radio transmitter and micro receiver (at least 4-channel with optional rudder). You can choose from the equipment below including a complete radio system or separate receiver, crystal and servos when using your existing radio equipment.

JSP14010\*\* JR Sport 4-Channel System MD2 UL  
—Complete radio system (Includes 2 servos)

or

JSP30610 6CH UL FM Receiver w/o crystal,  
Positive Shift (JR/AIRZ)

or

JSP30615 6CH UL FM Receiver w/o crystal,  
Negative Shift (HRC/FUT)

JRPXFR\*\* FM Receiver Crystal

EFLRS75 7.5-Gram Sub-Micro Servo (3 or 4 w/  
optional rudder)

JSP98020 Y-Harness, Standard 6"

## Required Power System Equipment

For stock brushed power system only. Please see optional brushless power system required equipment when choosing brushless power system alternatives.

CSEP20P	Pixie-20P Sub Micro ESC
EFLA239	Female Bullet Plug w/Lead
THP21003SPL	2100mAh 3-Cell 11.1V Li-Po, 16GA
EFLC3005	Celectra 1-3 Cell Li-Po Charger
WSD1300	Ultra Plug, Male/Female Set (2)

Substituting the 3-Cell Li-Po pack and charger with a 9-Cell Ni-MH pack and charger offers slightly reduced performance and duration but provides a good power pack alternative:

PKZ1027	10.8V 1000mAh Ni-MH Battery
PKZ1519	5–10 Cell DC Peak Charger

## Required Tools and Adhesives

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### *Tools & Equipment*

EFLA257	Screwdriver, #0 Phillips (Or included with EFLA250)
EFLA258	Screwdriver, #1 Phillips (Or included with EFLA250)
EFLA250	Park Flyer Tool Assortment, 5pc

Hobby knife

Drill

Drill bit: .050", 5/32"

Straight edge

Felt tipped pen

Razor saw

Sandpaper

### *Adhesives*

EFLA206	Foam Compatible Thick CA (Or included with EFLA208)
EFLA207	Foam Compatible Activator (Or included with EFLA208)
EFLA208	Foam CA/Activator Pack
EFLA209	Foam Compatible Medium CA

Low-temperature hot glue

## Optional High Power Inrunner Brushless Motor Power System Required Equipment\*

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This is the most powerful optional power system well suited for large field flying and “full house” airframe configurations (i.e. – landing gear, rudder, etc. installed). Use with the included gearbox and optional 6.5:1 gear ratio.

EFLM1100	Park 400 Inrunner Brushless, 4200Kv
EFLM1912	Heat Sink, 20mm x 20mm Park 400 Inrunner
EFLA311B	20-Amp Brushless ESC (V2)
EFLM243	Spur Gear, 65T 0.5 Module
EFLM1951	Pinion Gear, 10T 0.5 Module 2mm I.D.
EFLP1170	11x7 Slow Flyer Propeller (2)
THP21003SPL	2100mAh 3-Cell 11.1V Li-Po, 16GA
EFLC3005	Celectra 1-3 Cell Li-Po Charger
WSD1300	Ultra Plug, Male/Female Set (2)

\*Proper throttle management is required when using high performance setups.

## Optional Sport Outrunner Brushless Motor Power System Required Equipment\*

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This powerful optional power system is well suited for small field flying and “lightweight” airframe configurations (i.e. – no landing gear, no rudder, etc installed). Use with the included 10x8E prop and outrunner stick mount.

EFLM1305	Park 400 Outrunner Brushless, 920Kv
EFLA311B	20-Amp Brushless ESC (V2)
THP21003SPL	2100mAh 3-Cell 11.1V Li-Po, 16GA
EFLC3005	Celectra 1-3 Cell Li-Po Charger
WSD1300	Ultra Plug, Male/Female Set (2)

\*Proper throttle management is required when using high performance setups.

## Optional High Power Outrunner Brushless Motor Power System Required Equipment

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This powerful optional power system is well suited for large field flying and “full house” airframe configurations (i.e. - landing gear, rudder, etc. installed). Use with the included 10x8E prop and outrunner stick mount.

EFLM1400	Park 450 Outrunner Brushless, 890Kv
EFLA311B	20-Amp Brushless ESC (V2)
THP21003SPL	2100mAh 3-Cell 11.1V Li-Po, 16GA
EFLC3005	Celectra 1-3 Cell Li-Po Charger
WSD1300	Ultra Plug, Male/Female Set (2)

Substituting the 3-Cell Li-Po pack and charger with a 9-Cell Ni-MH pack and charger offers slightly reduced performance and duration but provides a good power pack alternative:

PKZ1027	10.8V 1000mAh Ni-MH Battery
PKZ1519	5–10 Cell DC Peak Charger

\*Proper throttle management is required when using high performance setups.

## Optional Accessories

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EFLA110	Power Meter
EFLA212	Gear Puller: 1mm–5mm Shaft

## Using the Manual

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This manual is divided into sections to help make assembly easier to understand, and to provide breaks between each major section.

Remember to take your time and follow the directions.

## Warning

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An RC aircraft is not a toy! If misused, it can cause serious bodily harm and damage to property. Fly only in open areas, preferably at AMA (Academy of Model Aeronautics) approved flying sites, following all instructions included with your radio.

Keep loose items that can get entangled in the propeller away from the prop, included loose clothing, or other objects such as pencils and screwdrivers. Especially keep your hands away from the propeller.

## Before Starting Assembly

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Before beginning the assembly of your P-47D Thunderbolt, remove each part from its bag for inspection. Closely inspect the fuselage, hatch, wing and stabilizer for damage. If you find any damaged or missing parts, contact the place of purchase.

## Note on Lithium Polymer Batteries

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Lithium Polymer batteries are significantly more volatile than alkaline or Ni-Cd/ Ni-MH batteries used in RC applications. All manufacturer's instructions and warnings must be followed closely. Mishandling of Li-Po batteries can result in fire. Always follow the manufacturer's instructions when disposing of Lithium Polymer batteries.

## Warranty Information

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Horizon Hobby, Inc. guarantees this kit to be free from defects in both material and workmanship at the date of purchase. This warranty does not cover any component parts damage by use or modification. In no case shall Horizon Hobby's liability exceed the original cost of the purchased kit. Further, Horizon Hobby reserves the right to change or modify this warranty without notice.

In that Horizon Hobby has no control over the final assembly or material used for the final assembly, no liability shall be assumed nor accepted for any damage resulting from the use of the final assembled product. By the act of using the assembled product, the user accepts all resulting liability.

Please note that once assembly of the model has been started, you must contact Horizon Hobby, Inc. directly regarding any warranty question. Please do not contact your local hobby shop regarding warranty issues, even if that is where you purchased it. This will enable Horizon to better answer your questions and service you in the event that you may need any assistance.

If the buyer is not prepared to accept the liability associated with the use of this product, the buyer is advised to return this kit immediately in new and unused condition to the place of purchase.

Horizon Hobby, Inc.  
4105 Fieldstone Road  
Champaign, Illinois 61822  
877-504-0233  
*horizonhobby.com*

## Wing Preparation

### Required Parts

- Wing
- Y-Harness
- Landing gear screws (4)
- 18mm x 20mm two-sided tape (2)
- Servo (2)
- Aileron pushrod (2)

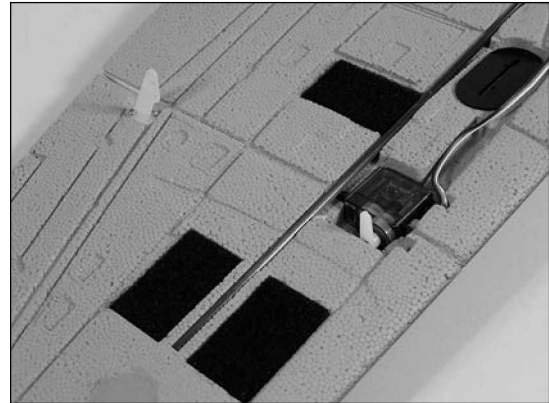
### Required Tools and Adhesives

- Drill
- Hobby knife
- Low-temperature hot glue
- Phillips screwdriver (small)
- Drill bit: .050"

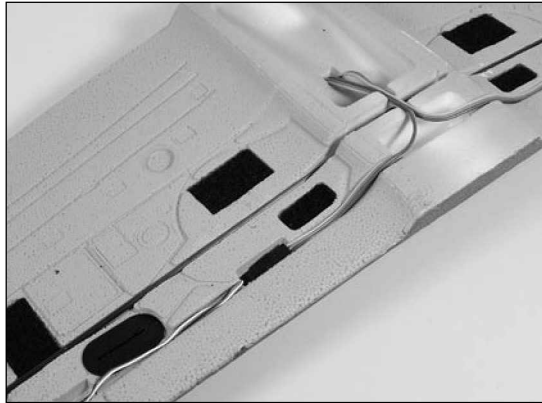
1. Use the radio system to electronically center the aileron servos. Attach a control horn to each of the servos.



2. Apply the 18mm x 20mm two-sided tape to the servos. Test fit the servos into the wing. The servo arm faces to the leading edge. After fitting, remove the backing from the tape to secure the servos into the wing.



3. Attach the Y-Harness to both servos. Route the single lead of the Y-Harness through the hole in the center of the wing.

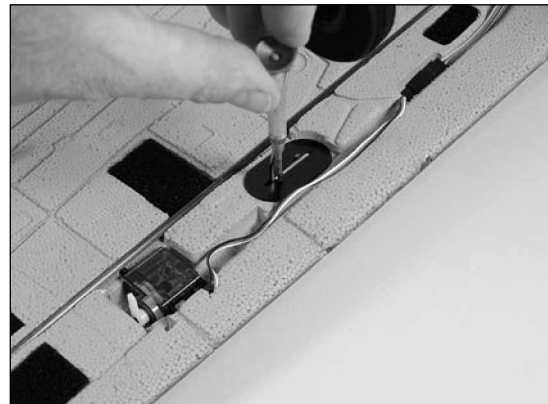


*Hint:* Use tape to secure the servo leads to the Y-Harness so they won't accidentally unplug.

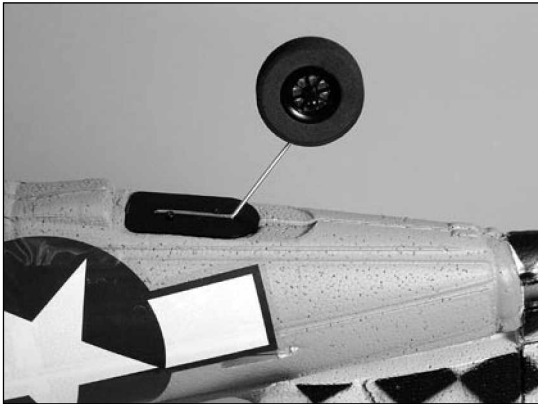
*Note:* If using a radio with the appropriate mixing capability, two 12" servo extensions can be used instead of the Y-Harness for the aileron servos.

*Note:* The landing gear is optional and can be left off when flying from rough surfaces or tall grass that could damage the gear. Skip to Step 6 if the landing gear will not be installed.

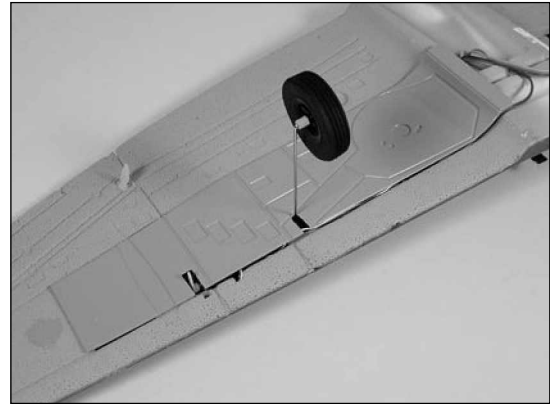
4. Attach the main landing gear using four landing gear mounting screws (2mm x 6mm).



5. Attach the tail wheel using two landing gear mounting screws (2mm x 6mm).

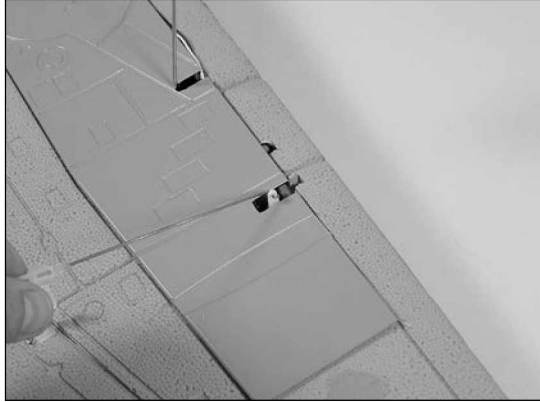


6. Test fit the wing covers. Trim around the landing gear and servo arm as necessary. Remove the backing from the two-sided tape on the covers. Carefully place the wing covers into position, pressing them against the wing to secure them.



*Hint:* Use clear tape to keep the servo lead and extension in the channel in the wing.

7. Attach the "Z" bend of the pushrod to the aileron servo arm. Use a hobby knife or .050" drill bit to ream out the servo arm if necessary to fit the pushrod.



8. Turn the radio system on and plug the Y-Harness lead into the receiver. Snap the clevis onto the control horn. Thread the clevis either in or out so the aileron is centered when the servo is centered.



## Wing Installation

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### Required Parts

- Wing
- Fuselage
- Belly pan

### Required Tools and Adhesives

- Phillips screwdriver

1. Place the wing onto the fuselage. Make sure to pass the Y-Harness lead through the opening in the fuselage.



2. Place the belly pan onto the wing and fuselage. The mounting plate at the rear of the belly pan keys into the fuselage mounting plate. Use the screw at the front to secure the belly pan and wing to the fuselage.



## Stabilizer Installation

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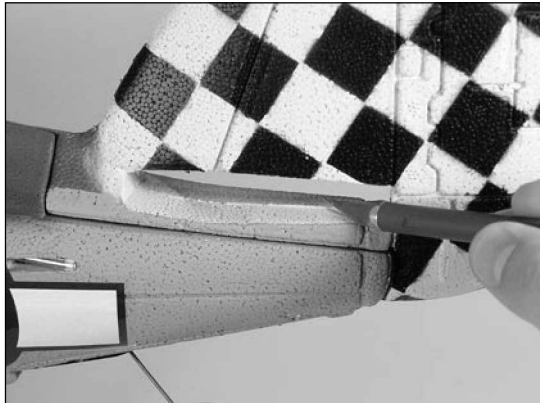
### Required Parts

- Fuselage assembly
- Stabilizer w/elevators and hinges

### Required tools and Adhesives

- Sandpaper
- Hobby knife
- Foam-safe CA

1. Carefully remove any flashing from the opening in the fuselage for the stabilizer.



2. Remove the elevators and joiner wire with bushings from the stabilizer. Slide the stabilizer into the fuselage.



*Note:* You may need to sand the fuselage opening slightly for proper fit of the stabilizer.