

E-flite® 60- to 120-Size Strut Ready Retractable Gear

Instruction Manual | Bedienungsanleitung | Manuel d'utilisation | Manuale di Istruzioni

(EFLG500, EFLG509, EFLG510, EFLG515, EFLG520, EFLG525, EFLG530, EFLG540, EFLG545, EFLG550, EFLG555, EFLG560)

NOTICE

All instructions, warranties and other collateral documents are subject to change at the sole discretion of Horizon Hobby, Inc. For up-to-date product literature, visit horizonhobby.com and click on the support tab for this product.

Meaning of Special Language

The following terms are used throughout the product literature to indicate various levels of potential harm when operating this product:

NOTICE: Procedures, which if not properly followed, create a possibility of physical property damage AND a little or no possibility of injury.

CAUTION: Procedures, which if not properly followed, create the probability of physical property damage AND a possibility of serious injury.

WARNING: Procedures, which if not properly followed, create the probability of physical property damage, collateral damage, and serious injury OR create a high probability of superficial injury.

WARNING: Read the ENTIRE instruction manual to become familiar with the features of the product before operating. Failure to operate the product correctly can result in damage to the product, personal property and cause serious injury.

This is a sophisticated hobby product. It must be operated with care and common sense and requires some basic mechanical ability. Failure to operate this Product in a safe and responsible manner could result in injury or damage to the product or other property. This product is not intended for use by children without direct adult supervision. Do not attempt disassembly, use with incompatible components or augment product in any way without the approval of Horizon Hobby, Inc. This manual contains instructions for safety, operation and maintenance. It is essential to read all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and position the unit in your aircraft. Mark screw positions using the screw holes in the strut.

Age Recommendation: Not for children under 14 years. This is not a toy.

SPECIFICATIONS

Current draw | Idle: 5mA; Operating: 900mA (maximum)

Operating voltage range | 4.8–7.4V

Aircraft weight | 8.0–15.0 lb (3.63–6.80 kg)

Unit weight | 130g (4.6 oz) each

Pulse width trigger points | Down: 1.331ms; Up: 1.690ms

Operation with FM and DSM | FM: 22ms frame rate, 5V signal; DSM: 20ms frame rate, 3.3V signal

Sequence time | @ 4.8V 1.25sec; @ 6.0V 1sec; @ 7.4V 0.8sec

Thank you for purchasing the E-flite® 60- to 120-Size Electric Retracts. These self-contained units are powered from your model's receiver and do not require separate servos.

REQUIRED TOOLS

File Threadlock
 Screwdriver Threadlock
 Screwdriver Rotary tool with cutoff wheel

NOTICE

Alle Anweisungen, Garantien und anderen zugehörigen Dokumente können im eigenen Ermessen von Horizon Hobby, Inc. jederzeit geändert werden. Die aktuelle Produktdokumentation finden Sie auf horizonhobby.com unter der Registerkarte „Support“ für das betreffende Produkt.

Spezielle Bedeutungen

Die folgenden Begriffe werden in der gesamten Produktdokumentation verwendet, um auf unterschiedliche Gefahrenrisiken beim Betrieb dieses Produkts hinzuweisen:

HINWEIS: Wenn diese Verfahren nicht korrekt befolgt werden, können sich möglicherweise Sachschäden UND geringe oder keine Gefahr von Verletzungen ergeben.

ACHTUNG: Wenn diese Verfahren nicht korrekt befolgt werden, ergeben sich wahrscheinlich Sachschäden UND die Gefahr von schweren Verletzungen.

WARNING: Wenn diese Verfahren nicht korrekt befolgt werden, ergeben sich wahrscheinlich Sachschäden, Kollaterschäden und schwere Verletzungen ODER mit hoher Wahrscheinlichkeit oberflächliche Verletzungen.

Kein geeignet für Kinder unter 14 Jahren. Dies ist kein Spielzeug.

SPESIFIKATIONEN

Stromaufnahme | Leerlauf: 5mA; Betrieb: 900mA (Maximum)

Betriebsspannung | 4.8–7.4V

Luftfahrtzeug Gewicht | 3.63–6.80 kg

Gewicht | Fahrwerk 130 g (je)

Pulsbreite Triggerpunkte | Runter: 1.331ms; Rauf: 1.690ms

Betrieb mit FM und DSM | FM: 22ms frame rate, 5V signal; DSM: 20ms frame rate, 3.3V signal

Sequenzzeit | bei 4.8V 1.25sec, bei 6.0V 1sec, bei 7.4V 0.8sec

REMARQUE

Toute la totalité des instructions, garanties et autres documents sont sujette à modification à la seule discréption d'Horizon Hobby, Inc. Pour obtenir la documentation à jour, rendez-vous sur le site horizonhobby.com et cliquez sur l'onglet de support de ce produit.

Signification de certains termes spécifiques

Les termes suivants sont utilisés dans l'ensemble du manuel pour indiquer différents niveaux de danger lors de l'utilisation de ce produit:

REMARQUE: Procédures qui, si elles ne sont pas suivies correctement, peuvent entraîner des dégâts matériels ET éventuellement un faible risque de blessures.

ATTENTION: Procédures qui, si elles ne sont pas suivies correctement, peuvent entraîner des dégâts matériels ET des blessures graves.

AVERTISSEMENT: Procédures qui, si elles ne sont pas suivies correctement, peuvent entraîner des dégâts matériels et des blessures graves OÙ engendrer une probabilité élevée de blessure superficielle.

14 ans et plus. Ceci n'est pas un jouet.

CARACTÉRISTIQUES TECHNIQUES

Consommation de courant | En attente: 5mA; En fonctionnement: 900mA (max)

Tension d'alimentation | 4.8–7.4V

Masse de l'avion | 3.63–6.80 kg

Masse d'une unité | Train principal 130 g (chaque unité)

Largeur d'impulsion des points de déclenchement | Bas: 1.331ms; Haut: 1.690ms

Fonctionnement en FM et DSM | FM: taux de rafraîchissement 22ms, signal 5V; DSM: taux de rafraîchissement 20ms, signal 3.3V

Durée de la séquence | @ 4.8V, 1.25s; @ 6.0V, 1s; @ 7.4V, 0.8s

AVVISO

Tutte le istruzioni, le garanzie e gli altri documenti pertinenti sono soggetti a modifiche alla totale discrezione di Horizon Hobby, Inc. Per una documentazione aggiornata sul prodotto, visitare il sito horizonhobby.com e fare clic sulla sezione Support del prodotto.

Convenzioni terminologiche

Nella documentazione relativa al prodotto vengono utilizzati i seguenti termini per indicare i vari livelli di pericolo potenziale durante l'uso del prodotto:

AVVISO: indica procedure che, se non debitamente seguite, possono determinare il rischio di danni alle cose E il rischio minimo o nullo di lesioni alle persone.

ATTENZIONE: indica procedure che, se non debitamente seguite, determinano il rischio di danni alle cose E gravi lesioni alle persone.

AVVERTIMENTO: indica procedure che, se non debitamente seguite, determinano il rischio di danni alle cose, danni collaterali E gravi lesioni alle persone O il rischio elevato di lesioni superficiali alle persone.

Almeno 14 anni. Non è un giocattolo.

CARATTERISTICHE

Absorbimento di corrente | Fermo: 5mA; Operativo: 900mA (massimo)

Tensione operativa | 4.8–7.4V

Peso dell'aereo | 3.63–6.80 kg

Peso dell'unità | Carrello principale 130 g ciascuno

Larghezza dell'impulso | Basso: 1.331ms; Alto: 1.690ms

Funzionamento con FM e DSM | FM: 22ms frame rate, 5V segnale; DSM: 20ms frame rate, 3.3V segnale

Durata della sequenza | @ 4.8V, 1.25sec, @ 6.0V 1sec, @ 7.4V 0.8sec

INSTALLATION

NOTICE

Always ensure the retracts and wheels are installed so that there are no obstructions when extending and retracting the struts and that the wheels roll straight when the rudder is at neutral. Failure to do so could result in damage to the aircraft or gear.

1. Loosely assemble an axle (**A**), screws (**B**) your wheel and wheel collar (**C**) and setscrew (**D**) on each retract strut. If needed, use nylon washers (**E**) as spacers to prevent the wheel from rubbing on the strut.
 2. Tighten the setscrew in the wheel collar to mark the axle.
 3. Loosen the setscrew, remove the wheel collar and use a file to make a flat spot (**F**) at your mark, then replace the collar on the axle. Use threadlock when tightening the setscrew.
 4. Connect the retracts to your receiver and extend the struts (if needed) to position the unit in your aircraft. Mark screw positions using the screw holes in the strut.

TIP: If installing a retract on a wood mounting rail, drill holes smaller than your mounting screws first. Install the mounting screws in the drilled holes, then carefully remove them. Harden the threads in the wood using thin CA (cyanoacrylate adhesive).

OPTIONAL EFLG500 SERIES STRUT INSTALLATION

1. Operate the retract and loosen the Trunion screw (**M**). Remove the strut setscrews (**L**), wire strut (**H**) and wire adapter bushing (**I**) from the retract.
 2. Install the left and right retracts in your aircraft (right retract **G**) shown using the included M3x20 screws or M3 countersunk wood screws.
 3. Assemble the axle (**P**), wheel and setscrew (**O**) onto each strut. If needed, use the nylon washers (**R**) as spacers to prevent the wheel from rubbing on the strut (**S**).
 4. Tighten the setscrew (**Q**) in the strut to mark the axle, then make the axle to length.
 5. Loosen the setscrew, remove the axle and use a flat file to make a flat spot at your mark. Cut the axle to length at your other mark.
 6. Install the wheel/axle assembly on the strut (**S**) and tighten the setscrew (**T**) using thread lock.
 7. Measure and cut the strut to length as needed. Install the strut into the retract aligning the strut/wheel so that the aircraft rolls straight. Tighten the Trunion screw (**M**).
 8. Use the included door mounting brackets (**U**) and the door screws (**V**) to mount your doors.

RADIO CONNECTIONS AND OPERATION

NOTICE

These retracts will only operate with the included Y-harness.

1. Connect the gear unit connectors to the wire harness' connectors (**J**). The left and right gear can be connected to either side of this Y-harness. Install the wiring in your aircraft so that it does not interfere with receiver antennas and decrease radio reception.

2. Insert the single connector of the wire harness into the Gear port of your receiver (**J**). An auxiliary port may be used if the Gear port is in use.

3. Power on your transmitter and receiver.

4. Operate the channel control on your transmitter to which you have connected the gear.

5. Servos may need to be reversed in your transmitter for correct operation. If using a 2.4GHz system, always rebind after servo reversing to reset the receiver failsafe.

6. Connect the retracts to your receiver and extend the struts (if needed) to position the unit in your aircraft. Mark screw positions using the screw holes in the strut.

OPTIONAL EFLG500 SERIES STRUT INSTALLATION

1. Operate the retract and loosen the Trunion screw (**M**). Remove the strut setscrews (**L**), wire strut (**H**) and wire adapter bushing (**I**) from the retract.

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3. Assemble the axle (**P**), wheel and setscrew (**O**) onto each strut. If needed, use the nylon washers (**R**) as spacers to prevent the wheel from rubbing on the strut (**S**).

4. Tighten the setscrew (**Q**) in the strut to mark the axle, then make the axle to length.

5. Loosen the setscrew, remove the axle and use a flat file to make a flat spot at your mark. Cut the axle to length at your other mark.

6. Install the wheel/axle assembly on the strut (**S**) and tighten the setscrew (**T**) using thread lock.

7. Measure and cut the strut to length as needed. Install the strut into the retract aligning the strut/wheel so that the aircraft rolls straight. Tighten the Trunion screw (**M**).
 8. Use the included door mounting brackets (**U**) and the door screws (**V**) to mount your doors.

OPTIONAL EFLG500 SERIES STRUT INSTALLATION



