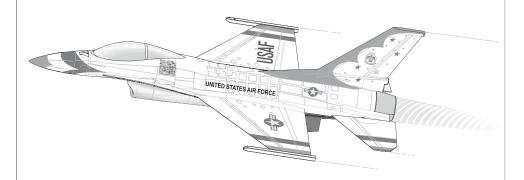


UMX[™] F-16



Instruction Manual Bedienungsanleitung Manuel d'utilisation Manuale di Istruzioni





NOTICE

All instructions, warranties and other collateral documents are subject to change at the sole discretion of Horizon Hobby, LLC. For up-to-date product literature, visit www.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 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 property damage, collateral damage, and serious injury OR create a high probability of superficial injury.

<u>WARNING:</u> 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 caution 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 use with incompatible components or alter this product in any way outside of the instructions provided by Horizon Hobby, LLC. This manual contains instructions for safety, operation and maintenance. It is essential to read and follow all the instructions and warnings in the manual, prior to assembly, setup or use, in order to operate correctly and avoid damage or serious injury.

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

Safety Precautions and Warnings

- Always keep a safe distance in all directions around your model to avoid collisions or injury.
 This model is controlled by a radio signal subject to interference from many sources outside your control. Interference can cause momentary loss of control.
- Always operate your model in open spaces away from full-size vehicles, traffic and people.
- Always carefully follow the directions and warnings for this and any optional support equipment (chargers, rechargeable battery packs, etc.).
- Always keep all chemicals, small parts and anything electrical out of the reach of children.
- Always avoid water exposure to all equipment not specifically designed and protected for this purpose. Moisture causes damage to electronics.

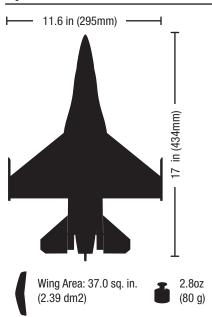
- Never place any portion of the model in your mouth as it could cause serious injury or even death.
- Never operate your model with low transmitter batteries.
- Always keep aircraft in sight and under control.
- · Always use fully charged batteries.
- Always keep the transmitter powered on while aircraft is powered.
- Always remove batteries before disassembly.
- · Always keep moving parts clean.
- Always keep parts dry.
- Always let parts cool after use before touching.
- Always remove batteries after use.
- Always ensure failsafe is properly set before flying.
- Never operate aircraft with damaged wiring.
- Never touch moving parts.

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Specifications







Motor: BL180m Ducted Fan Motor, 13,500Kv, 140mm Wire



Ducted Fan Unit: Delta-V® 180m 28mm EDF Unit



Receiver: Spektrum™ DSMX® Receiver w/Brushless ESC



Servo: (3) 2.3-Gram Performance Linear Long Throw Servos

Required to Complete



Battery: 280mAh 2S 30C Li-Po





Recommended Transmitter: Spektrum™ DSM2®/DSMX® full range with dual-rates and Expo (DX6 and up)

Preflight Checklist

✓	
	1. Charge flight battery.
	Install flight battery in aircraft (once it has been fully charged).
	3. Bind aircraft to transmitter.
	4. Make sure linkages move freely.
	5. Perform Control Direction Test with transmitter.

\checkmark	
	6. Set dual rates and expos.
	7. Adjust center of gravity.
	8. Perform a radio system Range Check.
	9. Find a safe and open area.
	10. Plan flight for flying field conditions.

Transmitter and Receiver Binding

For a list of compatible DSM2/DSMX transmitters, please visit www.bindnfly.com

Binding Procedure CAUTION: When using a Futaba transmitter with a Spektrum DSM® module, you must reverse the throttle channel and rebind. Refer to your Spektrum module manual for binding and failsafe instructions. Refer to your Futaba transmitter manual for instructions on reversing the throttle channel. 1. Refer to your transmitter's unique instructions for binding to a receiver (location of transmitter's Bind control). 2. Make sure the flight battery is disconnected from the aircraft. 3. Ensure the transmitter is powered OFF. 4. Connect the flight battery to the aircraft and turn the aircraft upright. The receiver LED will begin to flash (typically after 5 seconds). Ensure that control surface trims are centered and the throttle and throttle trims are in the low position to correctly set the failsafe. 6. Put your transmitter into bind mode. Refer to your transmitter's manual for binding button or switch instructions. 7. After 5 to 10 seconds, the receiver status LED will turn solid, indicating that the receiver is bound to the transmitter. If the LED does not turn solid, refer to the Troubleshooting Guide at the back of the manual.

For subsequent flights, power ON the transmitter for 5 seconds before connecting the flight battery.

Missile Rail Installation

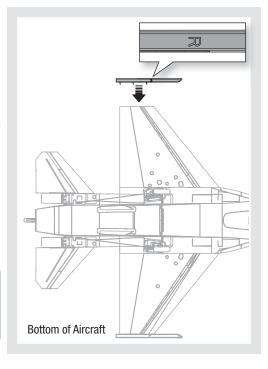


 Use foam safe CA (Cyanoacrylate) to secure the left and right missle rails to the respective wing tips as shown.

Tip: The rail will have an "L" or "R" indicator on the underside.

Tip: It is not recommended that you install the missile rails if you intend on belly landing the aircraft. Aircraft damage may result.

NOTICE: When using foam-compatible CA accelerant on your aircraft try not to touch painted areas untill accelerant is dry or the paint may be damaged.



Ventral Fin Installation

Required Adhesives: -



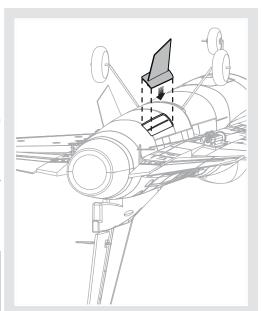
Foam Safe CA and Accelerator.

 Use foam safe CA (Cyanoacrylate) to secure the left and right ventral fins to the bottom side of the fuselage as shown.

Tip: The ventral fins will have an "L" or "R" indicator on the underside.

Tip: It is not recommended that you install the ventral fins if you intend on belly landing the aircraft. Aircraft damage may result.

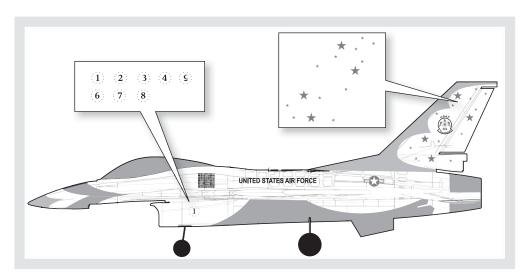
NOTICE: When using foam-compatible CA accelerant on your aircraft try not to touch painted areas untill accelerant is dry or the paint may be damaged.



Decal Installation

1. Install the decals as shown to complete the thunderbird trim scheme of your aircraft.

Tip: Use the decal pattern of the tail decal sheet as a guide for decal placement on the fin of your aircraft.

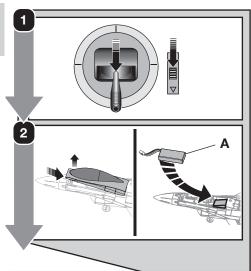


ESC/Receiver Arming, Battery Installation and Center of Gravity

NOTICE: Always keep material or debris away from the intake. When armed, the rotor will turn in response to throttle movement and could ingest in any loose objects.

Arming the ESC/receiver also occurs after binding as previously described, but subsequent connection of a flight battery requires the following steps.

- Lower the throttle and throttle trim to the lowest settings on your transmitter.
- Remove the battery/canopy hatch from the fuselage and install a flight battery (A) all the way to the back of the battery comportment.



38mm

Center of Gravity (CG)

The CG location is **38mm** back from the leading edge of the wing at the root. Adjust as needed by sliding the battery forward or back.

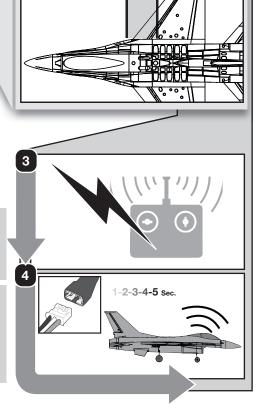
- 3. Power on your transmitter, then wait 5 seconds.
- Connect the battery to the ESC, noting proper polarity. Keep the plane immobile and away from wind for 5 seconds to allow the AS3X system to initialize. The aircraft will not initialize until the aircraft is still and upright.

A successful connection is indicated by:

- A series of tones
- A continuous LED

CAUTION: Always disconnect the Li-Po battery from the ESC when not flying to eliminate power supplied to the motor. The ESC does not have an arming switch and will respond to any transmitter input when a signal is present.

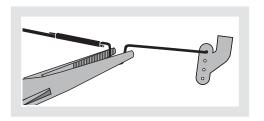
CAUTION: Always disconnect the Li-Po battery from the ESC when not flying to avoid over-discharging the battery. Batteries discharged to a voltage lower than the lowest approved voltage may become damaged, resulting in loss of performance and potential fire when batteries are charged.

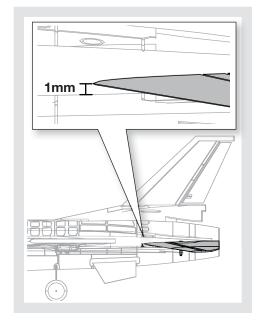


Control Centering

Before the first flights, or in the event of an accident, make sure control surfaces are centered when the transmitter controls and trims are neutral. The transmitter sub-trim must be set to zero. Adjust the linkages mechanically if the control surfaces are not centered. Use of the transmitter sub-trims may not correctly center the aircraft control surfaces due to the mechanical limits of linear servos.

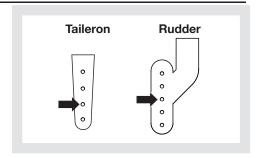
- Make the U-shape narrower to make the connector shorter. Make the U-shape wider to make the linkage longer.
- Ensure that the leading edge of both the horizontal stabilizers are 1mm above the lower edge of the side panel, as shown in the image to the right.





Factory Control Horn Settings

The illustration shows the factory settings for linkages on the control horns. Linkage connections on the control horns directly affect aircraft response.



Dual Rates and Expos

To obtain the best flight performance, we recommend using a DSM2/DSMX transmitter capable of Dual Rates and Expo. Before binding, ensure that you are starting with a blank acro model in your transmitter. Set wing type and servo reversing to normal.

The suggested settings shown here are the recommended starting settings. Adjust according to the individual preferences after the initial flight.

NOTICE: Do not set your transmitter travel adjust over 100%. If the TRAVEL ADJUST is set over 100%, it will not result in more control movement, it will overdrive the servo and cause damage.

It is normal for linear servos to make significant noise. The noise is not an indication of a faulty servo.

	Dual Rates		Ex	pos
	High	Low	High	Low
Aileron	100%	85%	15%	5%
Elevator	100%	50%	20%	5%
Rudder	100%	90%	5%	0%

Tip: For the first flight, fly the model in low rate. **Tip:** For landing, we recommend using high rate elevator.

Landing Gear Removal

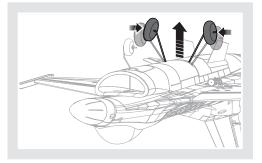
Main Gear Removal

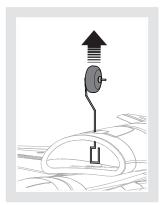
1. Squeeze the gear together and pull as shown.

Nose Gear Removal

- Carefully pull the nose gear out of the retainer clip that secures it into the fuselage.
- 2. Give the nose gear a quarter turn and pull it through the wall of the intake duct as shown.

When needed, assemble in reverse order.

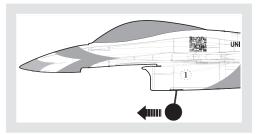








Make sure to reinstall the nose gear angled forward as shown.

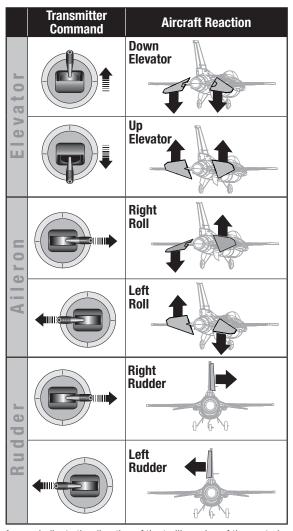


Control Direction Test

You should bind your aircraft and transmitter before doing these tests.

Move the controls on the transmitter to make sure the aircraft control surfaces move correctly and in the proper direction.

Make sure the tail linkages move freely and that paint or decals are not adhered to them.



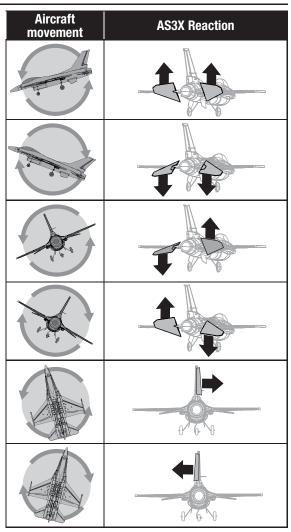
Arrows indicate the direction of the trailing edge of the control surface.

AS3X Direction Test

You should bind your aircraft and transmitter before doing these tests.

Move the controls on the transmitter to make sure the aircraft control surfaces move correctly and in the proper direction.

Make sure the tail linkages move freely and that paint or decals are not adhered to them.



Arrows indicate the direction of the trailing edge of the control surface.

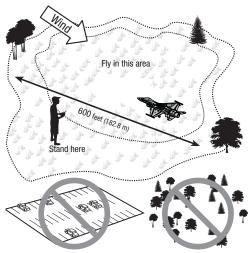
Flying Tips and Repairs

Range Check your Radio System

After final assembly, range check the radio system with the aircraft. Refer to your specific transmitter instruction manual for range test information.

Flying

We recommend flying your aircraft outside in no greater than moderate winds or inside in a very large indoor facility. Always avoid flying near houses, trees, wires and buildings. Be careful to avoid flying in areas where there are many people, such as busy parks, schoolyards or soccer fields. Consult local laws and ordinances before choosing a location to fly your aircraft.



Hand Launching

Hold the aircraft under the wings. Give a firm throw directly into the wind slightly up (5–10 degrees above the horizon) with full throttle. After the model gains altitude, decrease the throttle as you desire.

Tip: The electric ducted fan (EDF) acts like a jet aircraft, so control is generated by airspeed rather than air from a propeller moving over the control surfaces.

Takeoff

Taxi the aircraft in position for takeoff (facing into the wind if flying outdoors). Gradually increase the throttle to full power, holding a small amount of up elevator and steering with the rudder. Climb gently to check trim. Once the trim is adjusted, begin exploring the flight envelope of the aircraft.

Landing

Always land into the wind. Fly the landing pattern with a slightly nose high attitude. Use throttle management to control the decent rate of the aircraft.

During flare, keep the wings level and the airplane pointed into the wind. Gently lower the throttle while pulling back on the elevator to bring the aircraft down on the main wheels or to belly land without landing gear.

NOTICE: Always fully lower the throttle when landing the aircraft to prevent intake of foreign objects, which can damage the ducted fan and motor.

Failure to lower the throttle stick and trim to the lowest possible positions during a crash could result in damage to the ESC in the receiver unit, which may require replacement.

Low Voltage Cutoff (LVC)

When a Li-Po battery is discharged below 3V per cell, it will not hold a charge. The aircraft's ESC protects the flight battery from over-discharge using Low Voltage Cutoff (LVC). Once the battery discharges to 3V per cell, the LVC will reduce the power to the motor in order to leave adequate power to the receiver and servos to land the airplane.

When the motor power decreases, land the aircraft immediately and replace or recharge the flight battery.

Always disconnect and remove the Li-Po battery from the aircraft after each flight. Charge your Li-Po battery to about half capacity before storage. Make sure the battery charge does not fall below 3V per cell. Failure to unplug a connected battery will result in trickle discharge.

Tip: Due to the quiet nature of the aircraft, you may not hear the pulsing of the motor.

For your first flights, set your transmitter timer or a stopwatch to **2.5 minutes**. Adjust your timer for longer or shorter flights once you have flown the model. Flights of 3 minutes are achievable if using proper throttle management.

NOTICE: Repeated flying to LVC will damage the battery.

Over Current Protection (OCP)

The aircraft is equipped with Over Current Protection. OCP protects the ESC from overheating and stops the motor when the transmitter throttle is set too high and the rotor cannot turn. OCP will only activate when the throttle is positioned just above 1/2 throttle. After the ESC stops the motor, fully lower the throttle to re-arm the ESC.

Post Flight Checklist

✓		
	1.	Disconnect the flight battery from the ESC (Required for safety and battery life).
	2.	Power OFF the transmitter.
	3.	Remove the flight battery from the aircraft.
	4.	Recharge the flight battery.

5.	Store the flight battery apart from the aircraft and monitor the battery charge.
6.	Make note of the flight conditions and flight plan results, planning for future flights.

Troubleshooting Guide

AS3X		
Problem	Possible Cause	Solution
Control surfaces not at neutral position when	Control surfaces may not have been mechanically centered from factory	Center control surfaces mechanically by adjusting the U-bends on control linkages
transmitter controls are at neutral	Aircraft was moved after the flight battery was connected and before sensors initialized	Disconnect and reconnect the flight battery while keeping the aircraft still for 5 seconds
Model flies inconsis- tently from flight to	Aircraft was not kept immobile for 5 seconds after battery was plugged in	Keep the aircraft immobile for 5 seconds after plugging in the battery
flight	Trims are moved too far from neutral position	Neutralize trims and mechanically adjust linkages to center control surfaces
Controls oscillate in flight, (model rapidly jumps or moves)	Rotor is unbalanced, causing excessive vibration	Remove rotor and motor. Check motor shaft for straightness and replace rotor if damaged

Problem	Possible Cause	Solution	
Aircraft will not respond to throttle but responds to other controls	Throttle stick and/or throttle trim too high	Reset controls with throttle stick and throttle trim at lowest setting	
to other controls	Throttle channel is reversed	Reverse throttle channel on transmitter	
	Motor disconnected from receiver	Open fuselage and make sure motor is connected to the receiver	
	Flight battery charge is low	Fully recharge flight battery	
Extra motor noise or	Damaged rotor or motor	Replace damaged parts	
extra vibration	Rotor out of balance	Balance or replace the rotor	
Reduced flight time or	Flight battery charge is low	Completely recharge flight battery	
aircraft underpowered	Flight battery damaged	Replace flight battery and follow flight batter instructions	
	Flight conditions may be too cold	Make sure battery is warm before use	
	Battery capacity too low for flight conditions	Replace battery or use a larger capacity battery	
LED on receiver flashes and aircraft will not bind to transmitter (during binding)	Transmitter too near aircraft during binding process	Power off transmitter, move transmitter a larger distance from aircraft, disconnect and reconnect flight battery to aircraft and follow binding instructions	
	Bind switch or button not held long enough during bind process	Power off transmitter and repeat bind pro- cess. Hold transmitter bind button or switch until receiver is bound	
	Aircraft or transmitter is too close to large metal object, wireless source or another transmitter	Move aircraft and transmitter to another location and attempt binding again	

Troubleshooting Guide (Continued)

Problem	Possible Cause	Solution	
LED on receiver flashes rapidly and aircraft will not respond to transmit-	Less than a 5-second wait between first powering on transmitter and connecting flight battery to aircraft	Leaving transmitter on, disconnect and reconnect flight battery to aircraft	
ter (after binding)	Aircraft bound to different model memory (ModelMatch™ radios only)	Select correct model memory on transmitter and disconnect and reconnect flight battery to aircraft	
	Flight battery/transmitter battery charge is too low	Replace/recharge batteries	
	Transmitter may have been bound to a different model (or with a different DSM Protocol)	Select the right transmitter or bind to the new one	
	Aircraft or transmitter is too close to large metal object, wireless source or another transmitter	Move aircraft and transmitter to another location and attempt linking again	
Control surface does not move	Control surface, control horn, linkage or servo damage	Replace or repair damaged parts and adjust controls	
	Wire damaged or connections loose	Do a check of wires and connections, connect or replace as needed	
	Flight battery charge is low	Fully recharge flight battery	
	Control linkage does not move freely	Make sure control linkage moves freely	
Controls reversed	Transmitter settings reversed	Adjust controls on transmitter appropriately	
Motor loses power	Damage to motor or power components	Do a check of motor and power components for damage (replace as needed)	
Motor power quickly decreases and in- creases then motor loses power	Battery power is down to the point of receiver/ESC Low Voltage Cutoff (LVC)	Recharge flight battery or replace battery that is no longer performing	
Servo locks or freezes at full travel	Travel adjust value is set above 100%, overdriving the servo	Set Travel adjust to 100% or less and/or set sub-trims to Zero and adjust linkages mechanically	

Limited Warranty

What this Warranty Covers

Horizon Hobby, LLC, (Horizon) warrants to the original purchaser that the product purchased (the "Product") will be free from defects in materials and workmanship at the date of purchase.

What is Not Covered

This warranty is not transferable and does not cover (i) cosmetic damage, (ii) damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or due to improper use, installation, operation or maintenance, (iii) modification of or to any part of the Product, (iv) attempted service by anyone other than a Horizon Hobby authorized service center, (v) Product not purchased from an authorized Horizon dealer, or (vi) Product not compliant with applicable technical regulations, or (vii) use that violates any applicable laws, rules, or regulations.

OTHER THAN THE EXPRESS WARRANTY ABOVE, HORIZON MAKES NO OTHER WARRANTY OR REPRESENTATION, AND HEREBY DISCLAIMS ANY AND ALL IMPLIED WARRANTIES, INCLUDING, WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER'S INTENDED USE.

Purchaser's Remedy

Horizon's sole obligation and purchaser's sole and exclusive remedy shall be that Horizon will, at its option, either (i) service, or (ii) replace, any Product determined by Horizon to be defective. Horizon reserves the right to inspect any and all Product(s) involved in a warranty claim. Service or replacement decisions are at the sole discretion of Horizon. Proof of purchase is required for all warranty claims. SERVICE OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE PURCHASER'S SOLE AND EXCLUSIVE REMEDY.

Limitation of Liability

HORIZON SHALL NOT BE LIABLE FOR SPECIAL. INDIRECT. INCIDENTAL OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY, REGARDLESS OF WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, TORT, NEGLIGENCE, STRICT LIABILITY OR ANY OTHER THEORY OF LIABILITY. EVEN IF HORIZON HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, Further, in no event shall the liability of Horizon exceed the individual price of the Product on which liability is asserted. As Horizon has no control over use, setup, final assembly, modification or misuse, no liability shall be assumed nor accepted for any resulting damage or injury. By the act of use, setup or assembly, the user accepts all resulting liability. If you as the purchaser or user are not prepared to accept the liability associated with the use of the Product, purchaser is advised to return the Product immediately in new and unused condition to the place of purchase.

Law

These terms are governed by Illinois law (without regard to conflict of law principals). This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Horizon reserves the right to change or modify this warranty at any time without notice.

WARRANTY SERVICES

Questions, Assistance, and Services

Your local hobby store and/or place of purchase cannot provide warranty support or service. Once assembly, setup or use of the Product has been started, you must contact your local distributor or Horizon directly. This will enable Horizon to better answer your questions and service you in the event that you may need any assistance. For questions or assistance, please visit our website at www. horizonhobby.com, submit a Product Support Inquiry, or call the toll free telephone number referenced in the Warranty and Service Contact Information section to speak with a Product Support representative.

Inspection or Services

If this Product needs to be inspected or serviced and is compliant in the country you live and use the Product in, please use the Horizon Online Service Request submission process found on our website or call Horizon to obtain a Return Merchandise Authorization (RMA) number. Pack the Product securely using a shipping carton, Please note that original boxes may be included, but are not designed to withstand the rigors of shipping without additional protection. Ship via a carrier that provides tracking and insurance for lost or damaged parcels, as Horizon is not responsible for merchandise until it arrives and is accepted at our facility. An Online Service Request is available at http://www.horizonhobby.com/content/ servicecenter render-service-center. If you do not have internet access, please contact Horizon Product Support to obtain a RMA number along with instructions for submitting your product for service. When calling Horizon, you will be asked to provide vour complete name, street address, email address and phone number where you can be reached during business hours. When sending product into Horizon, please include your RMA number, a list of the included items, and a brief summary of the problem. A copy of your original sales receipt must be included for warranty consideration. Be sure your name, address, and RMA number are clearly written on the outside of the shipping carton.

NOTICE: Do not ship LiPo batteries to Horizon. If you have any issue with a LiPo battery, please contact the appropriate Horizon Product Support office.

Warranty Requirements

For Warranty consideration, you must include your original sales receipt verifying the proofof-purchase date. Provided warranty conditions have been met, your Product will be serviced or replaced free of charge. Service or replacement decisions are at the sole discretion of Horizon.

Non-Warranty Service

Should your service not be covered by warranty, service will be completed and payment will be required without notification or estimate of the expense unless the expense exceeds 50% of the retail purchase cost. By submitting the item for service you are agreeing to payment of the service without notification. Service estimates are available upon request. You must include this request with your item submitted for service. Non-warranty service estimates will be billed a minimum of ½ hour of labor. In addition you will be billed for return freight. Horizon accepts money orders and cashier's checks, as well as Visa, MasterCard, American Express, and Discover cards. By submitting any item to Horizon for service, you are agreeing to Horizon's Terms and Conditions found on our website http://www.horizonhobby.com/content/ service-center render-service-center.

ATTENTION: Horizon service is limited to Product compliant in the country of use and ownership. If received, a non-compliant Product will not be serviced. Further, the sender will be responsible for arranging return shipment of the un-serviced Product, through a carrier of the sender's choice and at the sender's expense. Horizon will hold non-compliant Product for a

period of 60 days from notification, after which it will be discarded.

Warranty and Service Contact Information

Country of Purchase	ase Horizon Hobby Phone Number/Email Addre		Address
	Horizon Service Center (Repairs and Repair Requests)	servicecenter.horizonhobby. com/RequestForm/	
United States of America	Horizon Product Support (Product Technical Assistance)	www.quickbase.com/db/ bghj7ey8c?a=GenNewRecord 888-959-2305	4105 Fieldstone Rd Champaign, Illinois, 61822 USA
	Sales	sales@horizonhobby.com 888-959-2305	
United Kingdom Service/Parts/Sales: Horizon Hobby Limited		sales@horizonhobby.co.uk +44 (0) 1279 641 097	Units 1–4 , Ployters Rd, Staple Tye Harlow, Essex, CM18 7NS, United Kingdom
Germany Horizon Technischer Service Sales: Horizon Hobby GmbH		service@horizonhobby.de +49 (0) 4121 2655 100	Christian-Junge-Straße 1 25337 Elmshorn, Germany
France Service/Parts/Sales: Horizon Hobby SAS		infofrance@horizonhobby.com +33 (0) 1 60 18 34 90	11 Rue Georges Charpak 77127 Lieusaint, France
China Service/Parts/Sales: Horizon Hobby – China		info@horizonhobby.com.cn +86 (021) 5180 9868	Room 506, No. 97 Changshou Rd. Shanghai, China 200060

IC Information

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

FCC Information

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Compliance Information for the European Union



EFL UMX F-16 BNF Basic (EFLU2850)

EU Compliance Statement: Horizon Hobby, LLC hereby declares that this product is in compliance with the essential requirements and other relevant provisions of the R&TTE and EMC Directive.

A copy of the EU Declaration of Conformity is available online at: http://www.horizonhobby.com/content/support-render-compliance.

Instructions for disposal of WEEE by users in the European Union



This product must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collections point for

the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or where you purchased the product.

Replacement Parts – Ersatzteile – – Pièces de rechange – Recapiti per i ricambi –

			<u> </u>	
Part # • Nummer Numéro • Codice	Description	Beschreibung	Description	Descrizione
EFLU2846	Pushrod Linkage Set: UMX F-16	E-Flite UMX F-16: Gestängeset	UMX F-16 - Tringleries	Set aste comandi: UMX F-16
EFLU2855	Landing Gear Set: UMX F-16	E-Flite UMX F-16: Fahrwerkset	UMX F-16 - Train d'atterrissage	Set carrello: UMX F-16
EFLU2858	Fuselage with Accessories: UMX F-16	E-Flite UMX F-16: Rumpf mit Zubehör	UMX F-16 - Fuselage	Fusoliera con accessori: UMX F-16
EFLU2859	Main Wing Set and Missile Rails: UMX F-16	E-Flite UMX F-16: Tragfläche mit Waffenschienen	UMX F-16 - Aile avec pylônes missiles	Set ala e supporti missili: UMX F-16
EFLU2860	Tail Set with Accessories: UMX F-16	E-Flite UMX F-16: Leitwerksset mit Zubehör	UMX F-16 - Empennages avec accessoires	Set piani di coda con accessori: UMX F-16
EFLU2863	Hatch Set: UMX F-16	E-Flite UMX F-16: Kabinenhaube	UMX F-16 - Set de trappes	Set portelli: UMX F-16
EFLU2865	Decal Sheet: UMX F-16	E-Flite UMX F-16: Dekorbogen	UMX F-16 - Planche de décoration	Foglio adesivi: UMX F-16
EFLM30180MDFC	BL180m Ducted Fan Motor, 13,500Kv, 140mm Wire	E-Flite BL180m Impellermotor, 13,500Kv, 140mm Anschlusskabel	UMX F-16 - Moteur BL180m, 13500Kv pour turbine	BL180m motore per elica intubata, 13,500Kv, 140mm cavo
EFLDF180M	Delta-V 180m 28mm EDF Unit	E-flite Delta-V 180m 28mm Impellereinheit	UMX F-16 - Turbine Delta-V 180m	Unità ventola (EDF) Delta-V 180m 28mm
EFLDF180M1	Rotor: Delta-V 180m	E-flite Rotor: Delta-V 180m	UMX F-16 - Rotor Delta-V 180m	Rotore: Delta-V 180m
SPMA3176	Replacement Receiver: UMX F-16	E-Flite UMX F-16: Austausch Empfänger	UMX F-16 - Récepteur de remplacement	Ricevitore di ricambio: UMX F-16

Optional Parts and Accessories – Optionale Bauteile und Zubehörteile – Pièces optionnelles et accessoires – Parti opzionali e accessori –

Part # • Nummer Numéro • Codice	Description	Beschreibung	Description	Descrizione
PKZ1039	Hook and Loop Set	Klettband (5): Ultra	Bande auto-	Set fascette fissaggio
	(5): Ultra Micros	Micros	agrippante (5)	(5): Ultra Micros
EFLUC1007	Celectra 2S 7.4V	Celectra 2S 7.4V DC	Celectra Chargeur	Celectra 2S 7.4V DC
	DC Li-Po Charger	Li-Po Ladegerät	Li-Po 7.4V 2S	Li-Po Caricabatterie
EFLC1105	1S-2S AC/DC Li-Po Balancing Charger	E-flite Ultra Micro-4, 4x9W, AC/DC Akkuladegerät, EU	Chargeur/équilibreur Li-Po 1 ou 2S AC/DC	1S-2S AC/DC Li-Po Caricatore con bilanciamento
SPMSA2030L	2.3-Gram Performance Linear Long Throw Servo	Spektrum 2,3-Gram Performance Linear Servo m. langem Ruderweg	Servo linéaire 2.3g, course longue	2.3-grammi Servo lineare a corsa lunga
SPM6836	Replacement Servo Mechanics: 2.3-Gram 2030L	Spektrum Ersatzgetriebe Servo: 2.3-Gram 2030L	Servo 2030L : Mécanique de remplacement.	Ricambio per servo: 2.3-Gram 2030L
EFLUC1008	Power Cord for EFLUC1007	Anschlußstecker mit Krokodilklemmen für EFLUC1007	Câble d'alimentation EFLUC1007	Cavo alimentazione per EFLUC1007
EFLB2802S30	280mAh 2s 7.4V DC	280mAh 2S 7.4V	280mAh 2S 7.4V 30C	280mAh 2S 7.4V 30C
	Li-Po, 26AWG	30C Li-Po Akku	Li-Po, 26AWG	Li-Po, 26AWG
EFLA700UM	Charger Plug Adapter: EFL	Ladekabel Adapter EFL	Prise d'adaptation chargeur: EFL	Adattatore connettore caricabatterie: EFL
EFLA7001UM	Charger Plug Adapter: Thunder Power	Ladekabel Adapter Thunder Power	Prise d'adaptation chargeur: Thunder Power	Adattatore connettore caricabatterie: Thunder Power
EFLU4068	Harness Adapter: UMX	E-flite UMX Beast	Adaptateur de	Adattatore collegam-
	Beast	Y-Kabel	câblage: UMX Beast	enti: UMX Beast
SPM6825	Ultra Micro Linear	Spektrum Ultra Micro	Inverseur d'ultra	Invertitore per servi
	Servo Reverser	Linear Servo Reverser	micro servo linéaire	lineari ultra micro
EFLC4000/UK/ AU/EU	AC to 12V DC,1.5 Amp Power Supply (Based upon your sales Region)	Netzteil 12V 1,5 A (Basierend nach Vertriebsregion)	Alimentation CA vers 12V CC, 1,5 A (En fonction de votre région)	Alimentatore CA - 12V CC da 1,5 A (in base al Paese di vendita)
EFLA111	Li-Po Cell Voltage Checker	E-flite Li-Po Cell Volt Checker	Contrôleur de tension des éléments Li-Po	Strumento per misura tensione celle LiPo
	DX6 DSMX 6-Channel	DX6 DSMX 6-Kanal	Emetteur DX6 DSMX	DX6 DSMX
	Transmitter	Sender	6 voies	Trasmettitore 6 canali
	DX7 DSMX	Spektrum DX7	Emetteur DX7 DSMX	DX7 DSMX
	7-Channel Transmitter	7 Kanal Sender	7 voies	Trasmettitore 7 canali
	DX9 DSMX	Spektrum DX9	Emetteur DX9 DSMX	DX9 DSMX
	9-Channel Transmitter	9 Kanal Sender	9 voies	Trasmettitore 9 canali
	DX18/18QQ DSMX	Spektrum DX18/18QQ	Emetteur DX18/18QQ	DX18/18QQ DSMX
	Transmitter	nur Sender	DSMX 8 voies	Solo trasmettitore



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US 7,898,130. US D578,146. PRC ZL 200720069025. PRC ZL 2007001249.

Other patents pending.

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