

# Blade® UH-1 Huey Body Assembly Manual



Kit will fit any CP series helicopter.

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**Note: Attempting to fly the helicopter without completely reading the manual may cause injury to yourself and people in the vicinity, as well as damaging the helicopter.**

**BLADE®**  
**E-flite®**  
ADVANCING ELECTRIC FLIGHT

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### Warning

An RC helicopter 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.

Keep items that can get entangled in the rotor blades away from the main and tail blades, including loose clothing, pencils and screwdrivers. Especially keep your hands away from the rotor blades.

**Age Recommendation: 14 years or over. This is not a toy. This product is not intended for use by children without direct adult supervision.**

### Note on Lithium Polymer Batteries



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.

## Additional Safety Precautions and Warnings

As the user of this product, you are solely responsible for operating it in a manner that does not endanger yourself and others or result in damage to the product or the property of others.

This model is controlled by a radio signal that is subject to interference from many sources outside your control. This interference can cause momentary loss of control so it is advisable to always keep a safe distance in all directions around your model, as this margin will help to avoid collisions or injury.

- Never operate your model with low transmitter batteries.
- Always operate your model in an open area away from cars, traffic, or people.
- Avoid operating your model in the street where injury or damage can occur.
- Never operate the model out into the street or populated areas for any reason.
- Carefully follow the directions and warnings for this and any optional support equipment (chargers, rechargeable battery packs, etc.) you use.
- Keep all chemicals, small parts and anything electrical out of the reach of children.
- Moisture causes damage to electronics. Avoid water exposure to all equipment not specifically designed and protected for this purpose.
- Never lick or place any portion of your model in your mouth as it could cause serious injury or even death.

### UH-1 Huey Gunship Contents

#### Item Description

EFLH1380 .....	UH-1 Huey Gunship
EFLH1381 .....	Landing Gear Set, Huey
EFLH1382 .....	Landing Gear/Battery Mounts, Huey
EFLH1383 .....	Tail Motor Mount Assembly, Huey
EFLH1384 .....	Tail Motor Set, Huey
EFLH1385 .....	Main Blades, Huey
EFLH1386 .....	Body Mounts & Gun Pods, Huey
EFLH1387 .....	Tail Rotor Blade Black, Huey

### Additional Equipment

The Huey body comes with all you need to make your Blade® CP series helicopter into a semi scale replication of the Huey Gunship. If you have an older CP helicopter, we do suggest that you upgrade to the newer Li-Po battery for improved power—800mAh 3S 11.1V 15C LiPo, 20GA JST/Balance (EFLB0996).

## Tools Required

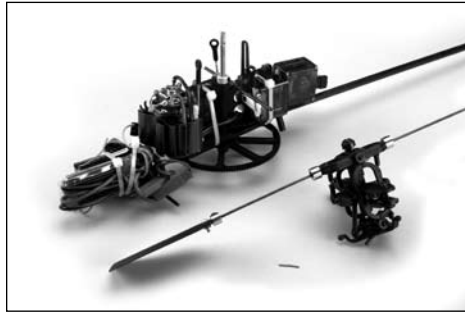
1.5mm hex driver	Small Cable Ties
#0 Phillips Screwdriver	Thin CA
Needle-Nose Pliers	Side Cutters
Ruler	Threadlock
Razor Saw	Scissors
Clear Tape	Silicone or Contact Cement

## Assembly

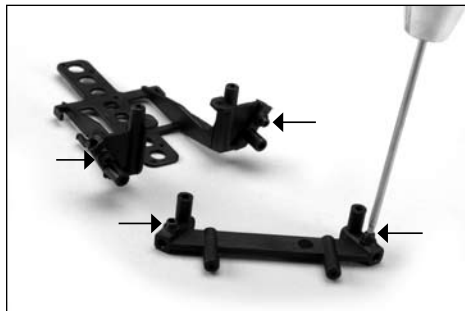
1. Remove the body, main blades, tail fins and landing gear from the main fuselage of the helicopter. You will have to unwrap the antenna if your helicopter has one.



2. Remove the 3 ball links from the swashplate. Push the center pin out of the main shaft and head assembly. Remove the head assembly.



3. Use a 1.5mm hex driver to start the 2mm (0.07-inch) setscrews into the bosses of each leg on the front and rear landing gear/battery mounting plate. Do not thread these all the way in yet.



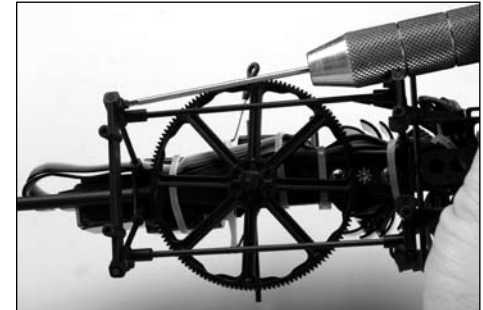
4. Install the 84mm (3.3-inch) long carbon rods between the front and rear landing gear/battery mounting plate.



5. Use the 40mm (1.57-inch) carbon rods to mount the front and rear landing gear/battery mounting plate assembly to the frame. Install one side at a time. Once all four rods are installed on the frame, slide the landing gear/battery mounting plate assembly all the way down on the 40mm rods so they are flush at the bottom. Make sure the battery tray is pointed towards the front of the helicopter.



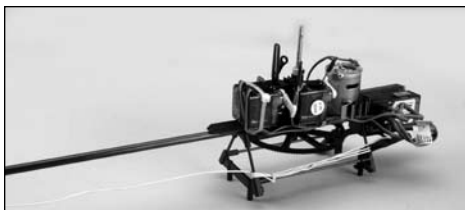
6. While holding the rods flush with the bottom of the mounts, tighten the setscrews down using the 1.5mm hex driver.



7. Apply a small amount of thin CA to the joints of the 84mm (3.3-inch) carbon rods and the landing gear/battery mounting plates. The joints of the 40mm (1.57-inch) rods do not need gluing.



8. Wrap the antenna around the new assembly if needed. Leave about 250–305mm (10–12 inches) of antenna to route through the tail boom section.



9. Cut a 22mm (0.8-inch) long piece of the hook section of the hook and loop tape. Install it on the bottom of the battery tray. Wrap the hook and loop strap around the battery tray also.



10a. Measure 239mm (9.4 inches) from the end of the frame at the tail boom socket and draw a line for reference. Wrap a piece of tape around the tail boom at this mark. This will serve as a guide.



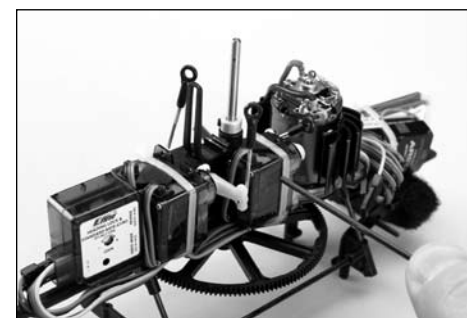
10b. Use a razor saw to cut the tail boom off of the helicopter at this mark. If you intend to save your old tail motor system you will have to unsolder the wires from the motor and use care not to cut them when cutting the tail boom. If not, just cut the wires after you have cut through the boom.



10c. Unplug and remove the old tail motor wires from the rest of the frame, cut the cable ties as need. Pay close attention to where the tail motor plugs into and to polarity. This will be important when installing the new tail motor.



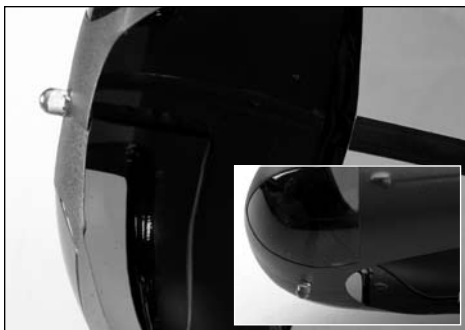
11. Remove the old body mount carbon rods from the frame. Pay close attention to where these are located.



12. Now is a good time to install the lighting system, if using one. If not installing the lights skip to step 14. The complete list of part numbers required for the lights are listed in the back of this manual. Mount the lighting controller unit to the front of the frame using double-sided tape. Point the leads toward the rear of the heli and plug the receiver lead into the gear channel.



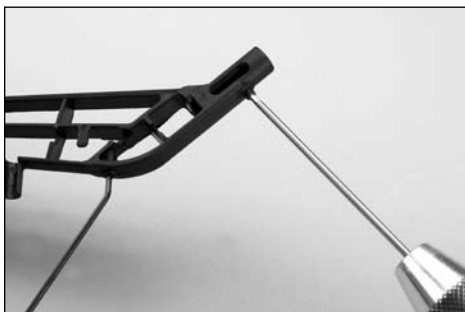
13. Mount the LED lights into the body. A flashing red LED is mounted at the top of the body behind the main shaft and a 6-inch extension is plugged into it. A solid clear LED is mounted in the lower nose of the body. The other red solid LED will be mounted later in the manual. These can be glued in with contact cement or silicone. Tape the wires to the side of the body so they will not interfere with the mechanics of the heli.



14. Thread the wire tail skid into the tail rotor mount. Thread it in until all of the threads are completely in the housing.



15. Use a 1.5mm hex driver to start the 2mm (0.07-inch) setscrew into the bottom screw boss on the tail rotor mount. Do not thread this all the way in yet.



16. Mount the tail motor to the tail rotor mount using the 1mm x 3mm (0.03 x 0.1-inch) machine screws, washers and a #0 Phillips screwdriver. Note that this motor is wired with reversed polarity due to the tail motor being on the opposite side of a conventional CP series helicopter. This motor must be used for the tail rotor to spin in the correct direction.



17. Run the tail motor leads through the mount as shown. Also mount and run the rear RED solid LED. You will need a 6-inch and a 12-inch extension plugged together for the rear LED to reach the front of the body. Plug these in now also. Tape the motor leads and the LED leads together to aid in routing them through the tail section.



18. Slide the tail motor leads and light wires, if used, through the opening in the rear tail section of the fuselage. Route them through the fuselage into the front section.



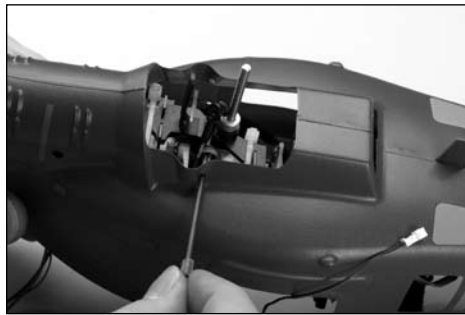
19. Slide the tail motor mount assembly into the tail section of the fuselage through the opening.



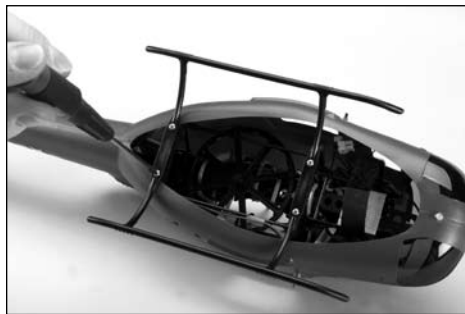
20. Slide the frame into the Huey body from the bottom. Make sure the tail motor mount plugs into the tail boom during this assembly. You should also route the antenna to the rear of the tail boom, if applicable.



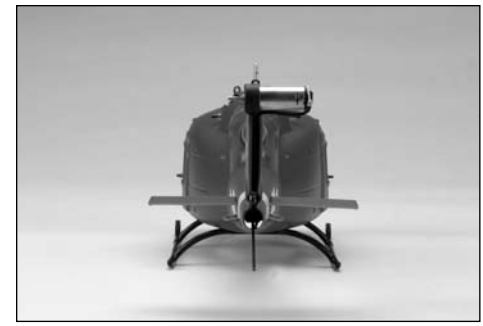
21. Mount the frame in the body using the new carbon body rods and silicone keepers. The rods mount in the same location as those that were removed. The 110mm (4.3-inch) rod goes in the front mounting hole, and the 60mm (2.3-inch) rod goes in the rear mounting hole.



22. Mount the landing skids to the front and rear mounting plates using four 1.5mm x 6mm (0.05 x 0.23-inch) self-tapping screws and a #0 Phillips screwdriver.



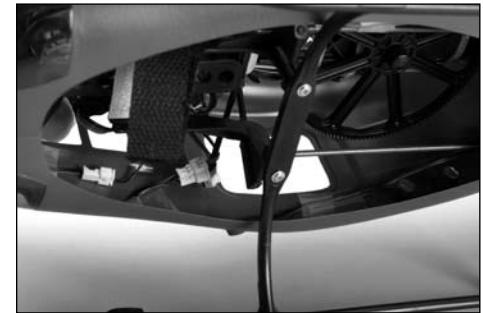
23. Sight down the assembled fuselage and make sure the tail rotor mount is vertical and aligned with the main shaft.



24. Use a 1.5mm hex driver to tighten the setscrew in the mount securing it to the tail boom. Make sure the mount is held in the vertical position while this is done.



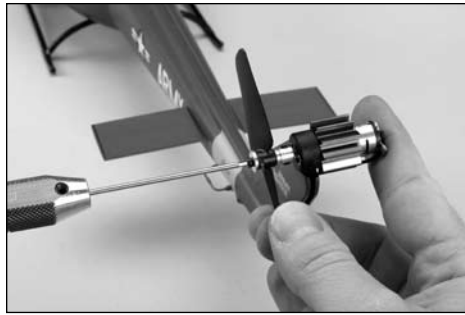
25. Route the tail motor wires and the LED wires to their appropriate places and plug them in. Make sure to plug the tail motor lead back in the correct location and polarity. Use tape to secure them out of the way of any moving parts.



26. Install the tail rotor hub on the motor shaft and tighten using a 1.5mm hex driver. Use threadlock to keep this setscrew from coming loose over time. Snap the tail motor heat sink in place.



27. Install the tail rotor blade onto the hub using a 1.5mm hex driver. Make sure the tail rotor is mounted in the correct orientation.



28. Mount the gun pods onto the fuselage. Support the inner mount with your fingers and press the gun assembly into the fuselage. You may want to use a small drop of thin CA to position and hold the guns in place.



29. Use a small piece of tape to tape the rear tail section together at the seam that was used to mount the tail motor mount.



30. Install the main rotor head back onto the main shaft and replace the pin.



31. Mount the new main rotor blades onto the main rotor head.



32. The battery pack will mount to the battery plate all the way forward to the front of the nose for balance.



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## Flying and Tuning

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Your Huey is now ready to fly. Refer to your original CP instruction manuals for any tuning or flight setups. The Huey does not require as much head speed and can be flown at a lower head speed for a more scale look and performance.

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### Replacement Parts List

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EFLH1381	Landing Gear Set, Huey: BCP/+ /PP/PP2
EFLH1382	Landing Gear/Battery Mounts, Huey: BCP/+ /PP/PP2
EFLH1383	Tail Motor Mounting Assembly, Huey: BCP/+ /PP/PP2
EFLH1384	Tail Motor Set, Huey: BCP/+ /PP/PP2
EFLH1385	Main Blades, Huey: BCP/+ /PP/PP2
EFLH1386	Body Mounts & Gun Pods, Huey: BCP/+ /PP/PP2
EFLH1387	Tail Rotor Blade (2) Black, Huey: BCP/+ /PP/PP2

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### Optional Parts List

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EFLA600	Universal Light Kit - Controller (x1)
EFLA601	Universal Light Kit - Red LED Solid (x1)
EFLA602	Universal Light Kit - Clear LED Solid (x1)
EFLA607	Universal Light Kit - Red LED Flashing (x1)
EFLA613	Universal Light Kit - Extension 6-inch (x1)
EFLA614	Universal Light Kit - Extension 12-inch (x1)

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## Warranty Information

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Exclusive Warranty- Horizon Hobby, Inc., (Horizon) warranties that the Products purchased (the "Product") will be free from defects in materials and workmanship at the date of purchase by the Purchaser.

### Limited Warranty

**Horizon reserves the right to change or modify this warranty without notice and disclaims all other warranties, express or implied.**

(a) This warranty is limited to the original Purchaser ("Purchaser") and is not transferable. REPAIR OR REPLACEMENT AS PROVIDED UNDER THIS WARRANTY IS THE EXCLUSIVE REMEDY OF THE PURCHASER. This warranty covers only those Products purchased from an authorized Horizon dealer. Third party transactions are not covered by this warranty. Proof of purchase is required for warranty claims. Further, Horizon reserves the right to change or modify this warranty without notice and disclaims all other warranties, express or implied.

(b) Limitations- HORIZON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCT. THE PURCHASER ACKNOWLEDGES THAT THEY ALONE HAVE DETERMINED THAT THE PRODUCT WILL SUITABLY MEET THE REQUIREMENTS OF THE PURCHASER'S INTENDED USE.

(c) Purchaser Remedy- Horizon's sole obligation hereunder shall be that Horizon will, at its option, (i) repair or (ii) replace, any Product determined by Horizon to be defective. In the event of a defect, these are the Purchaser's exclusive remedies. Horizon reserves the right to inspect any and all equipment involved in a warranty claim. Repair or replacement decisions are at the sole discretion of Horizon. This warranty does not cover cosmetic damage or damage due to acts of God, accident, misuse, abuse, negligence, commercial use, or modification of or to any part of the Product. This warranty does not cover damage due to improper installation, operation, maintenance, or attempted repair by anyone other than Horizon. Return of any goods by Purchaser must be approved in writing by Horizon before shipment.

### Damage Limits

HORIZON SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCT, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY. 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 this Product, you are advised to return this 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).

### **Safety Precautions**

This is a sophisticated hobby Product and not a toy. 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. The Product 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 injury.

### **Questions, Assistance, and Repairs**

Your local hobby store and/or place of purchase cannot provide warranty support or repair. Once assembly, setup or use of the Product has been started, you must contact 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 direct your email to [productsupport@horizonhobby.com](mailto:productsupport@horizonhobby.com), or call 877.504.0233 toll free to speak to a Product Support representative.

### **Inspection or Repairs**

If this Product needs to be inspected or repaired, please call for a Return Merchandise Authorization (RMA). 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. A Service Repair Request is available at [www.horizonhobby.com](http://www.horizonhobby.com) on the "Support" tab. If you do not have internet access, please include a letter with your complete name, street address, email address and phone number where you can be reached during business days, your RMA number, a list of the included items, method of payment for any non-warranty expenses and a brief summary of the problem. Your original sales receipt must also be included for warranty consideration. Be sure your name, address, and RMA number are clearly written on the outside of the shipping carton.

### **Warranty Inspection and Repairs**

To receive warranty service, you must include your original sales receipt verifying the proof-of-purchase date. Provided warranty conditions have been met, your Product will be repaired or replaced free of charge. Repair or replacement decisions are at the sole discretion of Horizon Hobby.

### **Non-Warranty Repairs**

Should your repair not be covered by warranty the repair 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 repair you are agreeing to payment of the repair without notification. Repair estimates are available upon request. You must include this request with your repair. Non-warranty repair estimates will be billed a minimum of ½ hour of labor. In addition you will be billed for return freight. Please advise us of your preferred method of payment. Horizon accepts money orders and cashiers checks, as well as Visa, MasterCard, American Express, and Discover cards. If you choose to pay by credit card, please include your credit card number and expiration date. Any repair left unpaid or unclaimed after 90 days will be considered abandoned and will be disposed of accordingly. Please note: non-warranty repair is only available on electronics and model engines.

## United States

Electronics and engines requiring inspection or repair should be shipped to the following address:

Horizon Service Center  
4105 Fieldstone Road  
Champaign, Illinois 61822  
USA

All other Products requiring warranty inspection or repair should be shipped to the following address:

Horizon Product Support  
4105 Fieldstone Road  
Champaign, Illinois 61822  
USA

Please call 877-504-0233 or e-mail us at [productsupport@horizonhobby.com](mailto:productsupport@horizonhobby.com) with any questions or concerns regarding this product or warranty.

## United Kingdom

Electronics and engines requiring inspection or repair should be shipped to the following address:

Horizon Hobby UK  
Units 1-4 Ployters Rd  
Staple Tye  
Harlow, Essex  
CM18 7NS  
United Kingdom

Please call +44 (0) 1279 641 097 or e-mail us at [sales@horizonhobby.co.uk](mailto:sales@horizonhobby.co.uk) with any questions or concerns regarding this product or warranty.

## Germany

Electronics and engines requiring inspection or repair should be shipped to the following address:

Horizon Technischer Service  
Hamburger Strasse 10  
25335 Elmshorn  
Germany

Please call +49 4121 46199 66 or e-mail us at [service@horizonhobby.de](mailto:service@horizonhobby.de) with any questions or concerns regarding this product or warranty.

## Compliance Information for the European Union



### 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 collection 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.

### Declaration of Conformity

(in accordance with ISO/IEC 17050-1)

No. HH2009122401

Products: EFL Blade Huey body  
Item Numbers: EFLH1380

The object of declaration described above is in conformity with the requirements of the specifications listed below, following the provisions of the European EMC Directive 2004/108/EC:

EN55022 Radio disturbance characteristics

EN55024 Immunity characteristics

Signed for and on behalf of:  
Horizon Hobby, Inc.  
Champaign, IL USA  
December 24, 2009

Steven A. Hall  
Vice President  
International Operations and Risk  
Management  
Horizon Hobby, Inc.