TRIDENT T3 INSTRUCTION MANUAL

AGE 12+

The Trident is a delicate machine, before removing it from the packaging please read the instructions!

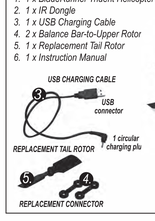
Congratulations on purchasing your BladeRunner Trident Helicopter! The Trident brings advanced, 3-Channel, flying technology to flyers who are looking for great performance from an indoor Helicopter. The Trident has built-in advanced gyroscope technology for providing an ultra-smooth flight, and balance control assistance. In addition, the Trident Helicopter has digital proportional control. The Trident is capable of operating in Infrared Control Channels A, B and C. This allows for the operation of up to 3 Trident Helicopters in one area at the same time. The Trident Helicopter can be controlled by a smartphone such as an iPhone® or Android™ phone. The Trident Helicopter can also be operated by an Android™ tablet, iPod Touch or an iPad®. (For the purposes of this manual these third-party products are referred to as "Smart Control Devices"). To establish the infrared communications link between your Trident Helicopter and your Smart Control Device, an IR Dongle (included) is used as an interface. There are no separate Batteries required for the Trident Helicopter as it has a built-in, non-removable, rechargeable Lithium-Polymer Battery. Most Smart Control Devices also have built-in, rechargeable batteries and do not require separate batteries either. Do not throw away this instruction manual as it contains valuable information for the operation of your Trident Helicopter as well as warranty information. The helpful tips in this Instruction Manual will improve your skill and enhance your experience. Look for these TIP symbols for extra help.

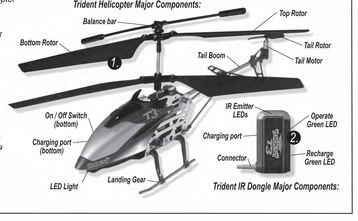
UNPACKING YOUR BLADERUNNER TRIDENT HELICOPTER:

To prevent damage during shipping, the Trident is securely fastened in the package. Please ensure that all of the tie-down and fastening locations are unfastened before attempting to remove the Trident Helicopter from the package. Be very careful when removing the Trident to prevent damaging the Helicopter.

COMPLETE PACKAGE CONTENTS AND COMPONENT BREAKDOWN:

1. *1 x BladeRunner Trident Helicopter*
2. *1 x IR Dongle*
3. *1 x USB Charging Cable*
4. *2 x Balance Bar-to-Upper Rotor*
5. *1 x Replacement Tail Rotor*
6. *1 x Instruction Manual*





QUICK-START INSTRUCTIONS:

1. *Download Trident Control App.*
2. *Turn on Airplane Mode.*
3. *Install IR Dongle into Smart Control Device.*
4. *Turn up the volume on your Smart Control Device to the maximum setting. This will establish the best signal to the IR Dongle.*
5. *Launch Trident Control App.*

6. a) Press the Options Button to access the Options Screen. On the Options Screen, select Channel A, B, or C, which corresponds to the IR band of your particular Trident Helicopter.

6. b) On the Options Screen, select the Joystick Mode or Motion Mode. Please note, Motion Mode requires more skill and experience to use. It is intended as an advanced mode of control. Exit the Options Screen.

7. *Turn on Helicopter and wait until Green LED stops blinking.*
8. *Push the Left Slider (Throttle Control) all the way up and down on the Trident Control App to activate the Helicopter.*
9. *Push the Left Slider (Throttle Control) up again gradually. The Main Rotors will start to spin and the Trident Helicopter will lift off the ground. Use the Left Slider (Throttle Control) to control the altitude of your Trident Helicopter.*
10. *If the Trident Helicopter's body is spinning in the air, adjust this by moving the Trim Slider to the left or right to counter the unwanted rotation.*

11. a) In Joystick Mode use the Right Control Pad to control the Forward, Reverse, and Left / Right steering of the Trident Helicopter.

11. b) In Motion Mode, tilt the Smart Control Device to control the forward - reverse, and left - right turning of the Trident Helicopter.

12. *When finished flying, land your Trident Helicopter by gently pushing the Left Stick all the way down. If you need to stop flying immediately, press the Emergency Stop Button.*

TRIDENT HELICOPTER AND IR DONGLE BATTERY AND CHARGING REQUIREMENTS:

The Trident helicopter and infrared dongle both have a built-in, non-removable, non-replaceable, rechargeable Lithium-Polymer Battery. Do not tamper with this battery. Tampering with this battery is dangerous and will void the warranty. There are no further battery requirements as the Trident Helicopter can only be controlled by certain third party Smart Control Devices. To ensure that your particular Smart Control Device has sufficient power during the operation of the Trident Helicopter, consult the manufacturer's specifications for your specific model.

Both the Trident Helicopter and IR Dongle must be charged using only the USB Charging Cable provided. The Trident Helicopter needs to be charged prior to the first flight. Please charge the Trident Helicopter before the first flight for optimal performance. It is necessary to charge the Trident Helicopter before all subsequent flights where the Internal Battery has been depleted on the previous flight. The IR Dongle also needs to be charged occasionally. Follow the below steps to charge your Trident Helicopter and IR Dongle.

WARNING:

Always insert the USB Charging Cable's USB Connector into the USB power source before inserting the Circular Charging Plug into the Trident Helicopter or into the IR Dongle.

CHARGING THE TRIDENT HELICOPTER:

1. *Ensure the Trident Helicopter's On / Off Switch is in the OFF position. The Red LED and Green LED on the Trident Helicopter will turn off.*
2. *Plug the USB Connector into the power source (most likely a laptop computer) first.*
3. *Once the USB Connector is securely plugged into the power source, connect the Circular Charging Plug into the Charging Port located at the bottom of the Trident Helicopter. Make sure the power source (electronic device such as the laptop) is turned on and is delivering power through the USB Charging Cable. Most laptops will only transmit power through the USB port if they are turned on.*

Continued.

CHARGING YOUR TRIDENT HELICOPTER: -Continued

4. *Charging will start automatically. Note, the Red LED at the bottom of the Trident Helicopter will light up during charging even though the Trident Helicopter is turned off.*

Charging will take 25 – 40 minutes for up to 4 - 6 minutes of flight.

5. *Once the charging is complete, the Red LED on the bottom of the Trident Helicopter will turn off.*
6. *Make sure to unplug the Circular Charging Plug from the Trident Helicopter's Charging Port first. Secondly, unplug the USB Charging Cable from the USB port on the power source.*
7. *The Trident Helicopter is now ready to fly.*

CHARGING THE IR DONGLE:

1. *Plug the USB Connector into the power source (most likely a laptop computer) first. Once the USB Connector is securely plugged into the power source, connect the Circular Charging Plug into the Charging Port on the IR Dongle. Make sure the power source (electronic device such as the laptop) is turned on and is delivering power through the USB Charging Cable. Most laptops will only transmit power t hrough the USB port if they are turned on.*
2. *Charging will start automatically. Note, the Red Charge LED on the IR Dongle will light up.*

Charging will take up to 30 minutes for up to 90 minutes of operation.

3. *When the IR Dongle is fully charged, the Red Charge LED will turn off.*
4. *Make sure to unplug the Circular Charging Plug from the IR Dongle's Charging Port first. Secondly, unplug the USB Charging Cable from the USB port on the power source.*
5. *The IR Dongle is now ready for use.*

Trident Helicopter LED Functions:

Green LED is off:
- *Trident Helicopter is turned off and is either charging or not charging, or;*
- *The Trident Helicopter is turned on, but the Internal Battery charge is depleted, or;*
- *The Green LED has been turned off with a switch in the Trident Control App.*

Green LED is flashing:
- *The Trident Helicopter is turned on and is initializing its Gyro, or;*
- *the Internal Battery charge is low.*

Green LED is on:
- *Trident Helicopter is turned on and the Gyro is initialized. (Please note, it is possible to turn the Green LED off with a switch on the Trident Control App.)*

Red LED is on:
- *The Trident Helicopter is turned off and is charging.*

Red LED is off:
- *The Trident Helicopter is not charging.*

Trident IR Dongle LED functions:

Green LED is flashing:
- *The IR Dongle connected to the Smart Control Device and the Left Slider (Throttle Control) is engaged.*

Green LED is off:
- *The IR Dongle is not in operation.*

Red LED is on:
- *The IR Dongle is charging. (It will turn off once the IR Dongle is finished charging)*

Red LED is off:
- *The IR Dongle has finished its charge cycle.*
- *The IR Dongle is not charging.*

Continued.

CHARGING THE IR DONGLE: -Continued

TIP *CHARGE TIME VARIES BASED ON TRIDENT HELICOPTER'S OR IR DONGLE'S INTERNAL BATTERY CHARGE CONDITIONS. TYPICALLY AFTER A 4 - 6 MINUTE FLIGHT THE HELICOPTER WILL NEED A 25 – 40 MINUTE CHARGE. TYPICALLY AFTER 90 MINUTES OF USAGE THE IR DONGLE WILL NEED A 30 MINUTE CHARGE.*

TIP *YOU DO NOT NEED TO WAIT FOR THE CHARGE ON THE TRIDENT HELICOPTER OR IR DONGLE TO BE 100% COMPLETE TO FLY. SHORTER CHARGE TIMES = SHORTER FLIGHT TIMES. FOR THE LONGEST FLIGHT TIMES PLEASE LET THE TRIDENT HELICOPTER FINISH ITS CHARGE CYCLE.*

CHOOSING YOUR FLYING LOCATION:

Please note that the Trident Helicopter is intended to be flown indoors only. The Indoor flying area should ideally be roughly 16' x 16' (5 meters x 5 meters) with the standard household ceiling height as a minimum. The Infrared control range of your Trident helicopter is up to 16' (5 meters), and varies depending on interference within the operational environment. The IR Dongle uses a safe infrared beam to communicate with the Trident Helicopter. An infrared beam is very similar to a beam of light so it is important to stay in visual range of the Trident Helicopter at all times during flight or control will be lost. When flying your Trident Helicopter be careful to avoid contact with any objects such as furniture, plants, electronics, and any other items which can break easily. The Trident Helicopter has Rotor Blades that spin at relatively high speeds and could potentially damage some household objects. Avoid operating the Trident Helicopter around pets or people, and especially crowds. If the Trident is stepped on or otherwise crushed, it will sustain damage that would not be covered under warranty. Ensure that people around you are aware that you are playing with the Trident Helicopter. Be aware of changes in your operational environment and play safe!

WARNING: *The spinning propellers can cause injury to people, animals and plants as well as damage to furniture and other property. To avoid the risk of injury or damage, stay clear of spinning propellers and fly carefully. Always keep a minimum distance of about 6 feet (1.83 meters) between the spinning propellers and people, pets, or other objects.*

SMART CONTROL DEVICE SPECIFICATIONS:

There are a few select Smart Control Devices which are compatible with your Trident Helicopter. It is very likely that other Smart Control Devices will be compatible with the Trident Helicopter in the future. For the latest updates on Devices compatibility, it is recommended to check the latest information at the following website: www.interactivetoy.com. In addition, it is recommended to download the latest Trident Control App Update for your specific Smart Control Device. The Trident Control App Updates may contain information on Device compatibility, troubleshooting tips, new features and replacement part availability.

Smart Control Device Compatibility:

For Apple iOS®: *iPhone 4, iPhone 4s, iPad 1, 2 & 3, iPod Touch 4G®. With iOS 4.2® or up.*

For Android™ based phone devices: *Dual core processor required. Android OS 2.3.5™ or up Multi-touch screen*

For Android™ based Tablet devices: *Dual core processor required. Android OS 3.2™ or up Multi-touch screen*

Downloading your Trident Control App:

The Trident Control App is available as a free download for all Trident compatible Smart Control Devices. There are some differences in the methods for downloading the Trident Control App for your particular device. Follow the basic steps as described below:

Apple® based Smart Control Devices:

1. *Access the Apple App Store®.*
2. *Use the Keywords "Trident Control" to search for the latest version of the Trident Control App.*
3. *Download and install the Trident Control App on your specific Apple® based Smart Control Device. For a description of all current compatible Apple® based Smart Control devices see section "SMART CONTROL DEVICE SPECIFICATIONS".*

Android™ based Electronic Smart Control Devices:

1. *Access Google Play™.*
2. *Use the Keywords "Trident Control" to search for the appropriate version of the Trident Control App.*
3. *Download and install the Trident Control App on your specific Android™ based Smart Control Device. For a description of all current compatible Android™ based Smart Control devices see section "SMART CONTROL DEVICE SPECIFICATIONS".*

CONNECTING AND SETTING UP THE TRIDENT HELICOPTER SYSTEM:

Regardless of which Smart Control Device you are using, the basic operation of the Trident Helicopter is the same. Follow these easy instructions to connect your Trident Helicopter and IR Dongle to your Smart Control Device.

TIP *IF APPLICABLE, ENABLE YOUR SMART CONTROL DEVICE'S AIRPLANE MODE WHENEVER YOU FLY THE TRIDENT HELICOPTER. IF AIRPLANE MODE IS NOT ENABLED, INCOMING CALLS ON THE SMART CONTROL DEVICE WILL DISRUPT THE OPERATION OF YOUR TRIDENT HELICOPTER AND MAY CAUSE IT TO CRASH!!*

1. *Install the IR Dongle into your Smart Control Device. The Connector on the IR Dongle fits neatly into the Headset Output Jack on the Smart Control Device. The Green LED on the IR Dongle will flash whenever the left slider (throttle control) is pushed upwards.*
2. *Turn up the volume on your Smart Control Device so that the IR Dongle receives a clear signal from the Headset Output Jack.*

TIP *IT IS INCORRECT TO TURN UP THE SMART CONTROL DEVICE'S VOLUME LEVEL BEFORE INSERTING THE IR DONGLE. THE IR DONGLE MUST BE INSERTED FIRST. OTHERWISE, IF YOU TURN UP THE VOLUME BEFORE INSERTING THE IR DONGLE, YOU WILL JUST BE TURNING UP THE VOLUME ON YOUR SMART CONTROL DEVICE'S SPEAKERS. IT IS NECESSARY TO TURN UP THE VOLUME ON THE HEADSET OUTPUT JACK INSTEAD, AND FOR THAT IT IS NECESSARY TO HAVE THE IR DONGLE ALREADY PLUGGED IN.*

3. *Launch the Trident Control App from your Smart Control Device. The Trident Control App's "Control Screen" will appear on the Smart Control Device.*
4. *Press the Options Button to access Interface Options Screen. A description of the Interface Options Screen Follows:*
   - *Under Channel Options, select A, B, or C.*
   - *Under Mode options select "Motion Control", or "Joystick Control". Motion Control uses your Smart Control Device's accelerometer to allow tilting of the device to control the forward - backward direction, and left - right turning of the Trident Helicopter. Joystick Control uses an on-screen control pad to control the forward - backward direction, and left - right turning of the Trident Helicopter.*
   - *Under Invert UI options, select one of the 2 arrows. This will change the orientation of the Control Screen, so that it appears rotated 180 degrees on your Smart Control Device. The Trident Control App appears on your Smart Control Device in landscape view only. Both landscape view orientations are possible through 180 degrees of rotation.*
   - *Press the Help Button to access additional connection information.*
   - *Press the OK Button to exit the Interface Options Screen and return to the Control Screen. You are now ready to fly the Trident Helicopter.*

TIP *TO FLY UP TO 3 TRIDENT HELICOPTERS AT ONCE IN THE SAME AREA, MAKE SURE TO TURN ON ONE HELICOPTER AT A TIME AND CONNECT IT TO A CHANNEL THAT IS DIFFERENT TO THE ONE THAT IS ALREADY BEING USED. FOR EXAMPLE, WITH THE FIRST IR DONGLE AND SMART CONTROL DEVICE, SET CHANNEL A. THEN TURN ON THE FIRST TRIDENT HELICOPTER. THEN WITH THE SECOND IR DONGLE AND SMART CONTROL DEVICE, SET CHANNEL B, THEN TURN ON THE SECOND TRIDENT HELICOPTER AND SO ON UNTIL ALL 3 CHANNELS ARE USED.*

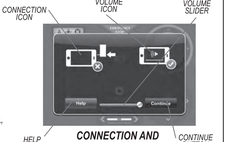
TIP *IF YOU LAUNCH THE TRIDENT CONTROL APP BEFORE INSTALLING THE IR DONGLE, THE "CONNECTION AND VOLUME SCREEN" WILL APPEAR. WHEN THIS SCREEN APPEARS YOU WILL SEE A CONNECTION ICON, VOLUME ICON, THE APP VOLUME SLIDER, A HELP BUTTON, AND A CONTINUE BUTTON. A DESCRIPTION OF THE CONNECTION AND VOLUME SCREEN FOLLOWS:*

-SINCE YOUR IR DONGLE IS NOT INSTALLED YET, AN "X" WILL APPEAR ON THE CONNECTION ICON. JUST INSTALL THE IR DONGLE TO EXIT THE CONNECTION AND VOLUME SCREEN.

-IF YOUR VOLUME SLIDER IS NOT SET AT MAXIMUM LEVEL, AN "X" WILL APPEAR ON THE VOLUME ICON AND THE SIGNAL LEADING FROM THE HEADSET OUTPUT JACK WILL BE WEAK. SLIDE THE VOLUME SLIDER ALL THE WAY TO THE MAXIMUM (RIGHT) TO ESTABLISH THE STRONGEST SIGNAL. A "CHECKMARK" WILL APPEAR ON THE VOLUME ICON.

-IF YOU NEED ADDITIONAL HELP WITH YOUR CONNECTION, PRESS THE HELP BUTTON.

-TO FLY YOUR TRIDENT HELICOPTER, PRESS THE CONTINUE BUTTON.



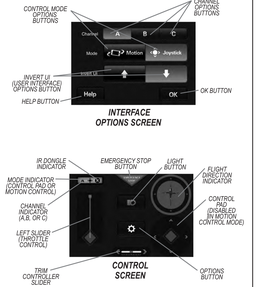
CONNECTION AND VOLUME SCREEN

FLYING THE TRIDENT HELICOPTER:

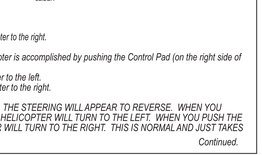
WARNING:
Check the condition of all the Rotor Blades prior to each flight. Do not try to operate the Trident Helicopter if any Rotor Blade has been damaged. Broken or damaged Rotor Blades may have sharp edges or corners and they will be spinning fast with a potential for injury! Flying the Trident Helicopter with broken Rotor Blades can also make it fly in an unstable or uncontrollable manner. This may cause damage to furniture and other property, as well as injury to plants, animals and people. Broken Rotor Blades can be easily replaced as described in the "REPLACING DAMAGED ROTOR BLADES" section elsewhere in this Instruction Manual.

Once your Trident Helicopter is fully charged, and your IR Dongle is installed in your Smart Control Device, and the app is turned on and properly set up, you are ready to fly your Trident Helicopter. Follow the steps below to start flying:

1. Slide the On / Off Switch at the bottom of your Trident Helicopter to the On position. The Green LED on the bottom front of the Trident Helicopter will turn on and flash on and off for about 5 seconds. This will allow the Trident Helicopter's Gyro to initialize.
2. Position the Trident Helicopter on a safe, sturdy, and level launching surface. The Green LED on the bottom front of the Trident Helicopter will now light up continuously.
3. Push the Left Slider all the way up and then back down to initialize throttle control. This is a safety feature to prevent accidental starts. The Trident Helicopter will not move when you do this, but it will now be ready to fly.
4. Push the Left Slider up again gradually. This will start the Top and Bottom Rotors spinning. The Trident will rise up off the ground and into the air. Increase or decrease throttle by pushing the Left Slider up and down. An increase or decrease in throttle will result in an increase or decrease in altitude (height). Adjust the Left Slider until you have reached your desired flight altitude.
-Push the Left Slider up to increase Throttle and gain altitude.
-Push the Left Slider down to decrease Throttle and lose altitude.
5. Once flying at the desired altitude the Trident Helicopter may be spinning under the Main Rotors instead of holding a heading. Adjust the Trim Control Slider so that the Trident Helicopter body does not spin. Use the below points as a guide for Trim Control Slider adjustment.
-Move the Trim Control Slider to the left if the body is spinning right (Clockwise).
-Move the Trim Control Slider to the right if the body is spinning left (Counter Clockwise).
Many factors affect the Trim of the Trident Helicopter such as Internal Battery condition, throttle setting and Rotor Blade wear. It may be required to adjust the Trim Control Slider more than once during a flight. Once trimmed, minor corrections can be managed using the steering control. See the "FLYING TIPS" section for more information.



INTERFACE OPTIONS SCREEN



CONTROL SCREEN

*6. a) In **Motion Control Mode**, steering your Trident Helicopter is accomplished by tilting your Smart Control Device sideways, left or right.*
-Tilt the Smart Control Device to the left to steer the Trident Helicopter to the left.
-Tilt the Smart Control Device to the right to steer the Trident Helicopter to the right.

*6. b) In **Joystick Control Mode**, steering your Trident Helicopter is accomplished by pushing the Control Pad (on the right side of the Control Screen) sideways, left or right.*
-Push the Control Pad to the left to steer the Trident Helicopter to the left.
-Push the Control Pad to the right to steer the Trident Helicopter to the right.

TIP! WHEN THE HELICOPTER IS FLYING TOWARDS YOU, THE STEERING WILL APPEAR TO REVERSE. WHEN YOU PUSH THE CONTROL PAD TO THE RIGHT, THE TRIDENT HELICOPTER WILL TURN TO THE LEFT. WHEN YOU PUSH THE CONTROL PAD TO THE LEFT, THE TRIDENT HELICOPTER WILL TURN TO THE RIGHT. THIS IS NORMAL AND JUST TAKES SOME PRACTICE TO CONTROL.

Continued.

FLYING YOUR TRIDENT HELICOPTER -Continued

*7. a) In **Motion Control Mode**, forward and reverse control of your Trident Helicopter is accomplished by tilting your Smart Control Device forward and backward.*
-Tilt the Smart Control Device forward to make the Trident Helicopter fly forward or increase forward speed.
-Tilt the Smart Control Device backward to make the Trident Helicopter fly backwards.

*7. b) In **Control Mode**, forward and reverse control of your Trident Helicopter is accomplished by pushing the Control Pad (on the right side of the Control Screen) up and down.*
-Push the Control Pad up to make the Trident Helicopter fly forward or increase forward speed.
-Push the Control Pad down to make the Trident Helicopter fly backwards.

8. Congratulations! You are flying your Trident Helicopter. Enjoy!

TIP! THE CONTROL RANGE IS UP TO ABOUT 16' (5 METERS)

TIP! YOU CAN TURN THE GREEN LED AT THE FRONT OF THE TRIDENT HELICOPTER ON AND OFF BY SIMPLY PRESSING THE LIGHT BUTTON ON THE CONTROL SCREEN.

9. a) To land your Trident Helicopter, gently and gradually push the Left Stick all the way down. This will slow the rotation of the Main Rotors and the Trident Helicopter will land. It is very important to NOT push the Left Stick all the way down suddenly, as the Main Rotors will stop spinning instantly and the Trident Helicopter will fall and possibly sustain damage.
9. b) Alternatively, to land your Trident Helicopter, press the Emergency Stop Button on the Control Screen. This will bring the Trident Helicopter down gently.

10. a). To fly again, it may or may not be necessary to recharge your Trident Helicopter, depending on the charge that is remaining in the Trident Helicopter's Internal Lithium-Polymer Battery. Simply follow the steps described in the "CHARGING THE TRIDENT HELICOPTER" section above, to recharge your Trident Helicopter. It may also be necessary to recharge your IR Dongle. Just follow the steps outlined in the section "CHARGING THE IR DONGLE".
10. b). If you are finished playing, slide the Trident Helicopter's On / Off Switch to the Off position to turn it off. Then turn off the Trident Control App and remove the IR Dongle from the Smart Control Device.

FLYING TIPS!

Altitude Control - *The Left Slider (Throttle Control) is a digital proportional system, therefore fine movement of the Left Slider will produce minor changes in the Trident Helicopter's altitude.*

TIP! TAKE TIME TO PRACTICE CONTROLLING THE ALTITUDE AND GETTING ACCUSTOMED TO THE THROTTLE SENSITIVITY.

Trimming - *Once flying at the desired height, the Trident Helicopter may be spinning under the Rotors instead of holding a heading. Adjust the Trim Control Slider so that the Trident Helicopter body does not spin. If the Trident Helicopter is spinning to the left (counter clockwise) when it shouldn't, slide the Trim Control Slider to the right. If the Trident Helicopter is spinning to the right (clockwise) when it shouldn't, slide the Trim Control Slider to the left.*

TIP! MANY FACTORS AFFECT THE TRIM OF THE TRIDENT HELICOPTER SUCH AS INTERNAL BATTERY CONDITION, LEFT SLIDER (THROTTLE CONTROL) SETTING AND WEAR ON THE ROTORS. IT MAY BE REQUIRED TO ADJUST THE TRIM CONTROL SLIDER MORE THAN ONCE DURING A FLIGHT. ONCE TRIMMED, MINOR CORRECTIONS CAN BE MANAGED USING STEERING INPUTS IN CONJUNCTION WITH THE TRIM CONTROL SLIDER.

TIP! THE TRIDENT HELICOPTER SHOULD NEVER BE FLOWN WITH DAMAGED ROTOR BLADES. FLYING THE TRIDENT HELICOPTER WITH DAMAGED ROTOR BLADES IS VERY DANGEROUS. SEE "TROUBLESHOOTING" AND "REPLACING DAMAGED ROTOR BLADES" SECTIONS FOR MORE INFORMATION.

Forward Flight - *The best forward flight motion is achieved by gently pushing the Control Pad up, or tilting the Smart Control Device forward (depending on which control mode you are using). Sharp or abrupt movements can cause the Trident Helicopter to "porpoise" or swing, but might be required to overcome a slight wind or draft.*

Direction Control - *Direction Control convention is based as if you were sitting in the pilot's seat of the Trident Helicopter.*

Control Reversal - *When the Trident Helicopter is flying towards you, the steering will appear to reverse. This is normal and just takes some practice to control.*

Infrared Control - *The IR Dongle uses a safe infrared beam to communicate flight instructions to the Trident Helicopter. An infrared beam is very similar to a beam of light so it is important to stay in visual range of the Trident Helicopter at all times during flight or control will be lost.*

REPLACING DAMAGED ROTOR BLADES

In the event that your main Rotor Blades or Tail Rotor sustain damage, they are very easy to replace by following these easy steps. (Note, replacement Main Rotor Blades are not included, but can be purchased separately as part of the Trident Replacement Part Kit.) (Note, 1 replacement Tail Rotor is included, and additional Tail Rotors can be purchased as part of the Trident Replacement Kit.)

Main Rotor Blades:
1. Locate the broken Rotor Blade and use a fine Philips screw-driver (not included) to unscrew the tiny screw that holds the Rotor Blade in place on the Hub Mount. Be careful not to lose the screw as it is tiny.
2. Pull the damaged Rotor Blade horizontally out and away from its location on the Hub Mount.
3. Install a new Rotor Blade in the same location on the Hub Mount by sliding it in horizontally. The holes for the screw have to align. It is very important that the correct Rotor Blade is installed as the Upper and Lower Main Rotor Blades may appear to be similar but are in fact very different. The Trident Helicopter will not be able to fly if the incorrect Rotor Blades are installed.
4. Fasten the new Rotor Blade to its Hub Mount with the same tiny screw that was pulled out earlier. Do not over tighten the screw as the Rotor Blade needs to be able to spin freely inside its Hub Mount. Your Trident Helicopter is ready to fly again!

Tail Rotor:
1. Locate the broken Tail Rotor on the end of the Trident Helicopter's boom.
2. Remove the broken Tail Rotor by gently pulling it upwards off of the Tail Motor's Axle Shaft.
3. Install the replacement Tail Rotor (Included with the Trident) by sliding it onto the Tail Motor's Axle Shaft in the reverse process as outlined in step 2.
4. Gently press down on the replacement Tail Rotor until it is firmly in place.

REPLACING THE BALANCE-BAR-TO-UPPER-ROTOR CONNECTOR:

There are two small Connectors which connect the Upper Rotor to the Balance Bar. In the event that a Connector becomes disconnected, broken, or lost, it will need to be reconnected or replaced. Two replacement Balance-Bar-To-Upper-Rotor Connectors are included with the Trident Helicopter.

1. A Connector is attached by 2 simple Ball Joints. Remove the broken Connector by disconnecting it from the Upper Rotor Hub Mount and the Balance Bar and pull it away. Once removed, the Ball Joints will be exposed. A Ball Joint will be visible on the Upper Rotor Hub Mount, and a Ball Joint will be visible on the Balance Bar. There are a total of 4 Ball Joints for the two Connectors!

2. Install the new Connector following the reverse of step 1. Each Connector only connects to 2 Ball Joints. The Connector must connect a set of Ball Joints that are in vertical alignment only. Gently but firmly press the Connector into position, connecting the Upper Rotor and the Balance Bar. The Connector will just snap into the 2 Ball Joints as shown.

STORING YOUR TRIDENT HELICOPTER:

It is a good idea to store the Trident Helicopter, IR Dongle, USB Charging Cable, Spare Parts, and this Instruction Manual together so no components become misplaced or lost. Please respect the below points to extend the operational life of your Trident Helicopter during storage.

1. Product may be damaged or performance may be adversely affected if the Trident Helicopter is not properly stored.

2. Never place any items on top of any components of the Trident Helicopter.

3. Always keep your Trident Helicopter in a cool dry place. Do not allow your Trident Helicopter to get wet as it is not water resistant.

4. Keep the Trident Helicopter away from pets and other household animals.

5. Do not rest your Trident Helicopter on any potential heat source such as electronic equipment or a radiator.

TROUBLESHOOTING

ISSUE:	CAUSE:	CORRECTIVE ACTION:
Trident Helicopter will not start, LED on Trident Helicopter is off.	*1. Trident Helicopter is not turned on.* *2. Battery is not charged.* *3. Trident Helicopter was not set to off during charging.* *4. Rotors locked for overload protection.*	*1. Turn Trident Helicopter on.* *2. Charge Internal Trident Helicopter Battery.* *3. Ensure Trident Helicopter is off and charge Internal Trident Helicopter Battery.* *4. Slide Trident Helicopter's On / Off Switch to Off, then switch it On again.*
Trident Helicopter will not start, LED on Trident Helicopter is ON.	*1. Trident Helicopter's infrared link is not established with the IR Dongle and Smart Control Device.* *2. IR Dongle and Smart Control Device are not properly connected.* *3. Trident Helicopter's battery is low.*	*1. Push Left Slider (Throttle Control) completely UP, then back DOWN to initialize infrared link and throttle control.* *2. Follow the steps outlined in the section "CONNECTING AND SETTING UP THE TRIDENT HELICOPTER SYSTEM".* *3. Ensure Trident Helicopter is off and charge Internal Trident Helicopter Battery.*
Trident Helicopter will not start. Green LED on Trident Helicopter is flashing.	*1. Motor stall protection is activated.* *2. Trident Helicopter's Internal Battery power is low.*	*1. Reset the Trident Helicopter by turning its power off and on.* *2. Ensure the Trident Helicopter is Off and recharge the Internal Battery.*
Trident Helicopter is flying too high.	*1. You need to reduce the throttle input.*	*1. Slide the Left Slider (Throttle Control) gradually down.*
Trident Helicopter is flying too low.	*1. Needs more power (Throttle Input).* *2. The battery in the Trident Helicopter is low.*	*1. Push the Left Slider (Throttle Control) gradually up.* *2. Ensure the Trident Helicopter is off and charge the Internal Trident Helicopter Battery.*
Trident Helicopter doesn't hover.	*1. The Trident Helicopter drifts forwards/backwards.*	*1. Depending on your Control Mode, push the Control Pad up or down, or tilt your Smart Control Device forward or backward to compensate and hold the Trident Helicopter in position.*
Helicopter doesn't fly forward fast enough.	*1. The Trident Helicopter is not designed for fast flight as it is an indoor toy.*	*1) If desired, add a small amount of weight to the bottom front area of the body by taping a paper clip or something similar in weight and size onto it. However, note that this will reduce the ability of the Trident Helicopter to fly backwards.*
Trident Helicopter doesn't fly backwards	*1. The Trident Helicopter only flies backwards briefly then spins to fly forward.*	*1. Aerodynamics make flying backwards more difficult than flying forwards and this flight pattern is normal. Practice flying backward and control the left / right turning motion of the Trident Helicopter to keep the tail pointed in the direction you desire.*
Trident Helicopter doesn't move forward fast enough.	*1. The Internal Battery charge is getting low.* *2. The Tail Rotor is damaged.* *3. The Trident Helicopter center of gravity is no longer correct.*	*1. Turn the Trident Helicopter off and charge the Internal Trident Helicopter Battery.* *2. Replace the Tail Rotor with a new one included with your Trident Helicopter, or from the Trident Replacement Part Kit (available in stores)* *3. Use light adhesive tape to mount a clip on the front bottom of the Trident Helicopter to add weight and adjust the center of gravity. See also "Trident Helicopter doesn't hover" issue.*
Trident Helicopter always turns.	*1. Trim Control is not set correctly.* *2. The Main Rotor Blades have sustained damage / or wear from use.*	*1. Adjust the Trim Control Slider on the Control Screen of the Trident Control App.* *2. Replace the damaged Rotor Blades! It is dangerous to fly with damaged Rotor Blades! Replacement Rotor Blades are not included, but can be purchased separately as part of the Trident Replacement Part Kit.*
The Main Rotor Blades spin erratically causing unpredictable flight characteristics.	*1. A Balance-Bar-to-Upper-Rotor Connector is either broken or missing.*	*1. Install a new Connector using the instructions in the "REPLACING THE BALANCE-BAR-TO-UPPER-ROTOR CONNECTOR" section. Two Replacement Connectors are included.*

IMPORTANT SAFETY INFORMATION

Keep the Trident Helicopter away from face, eyes and hair at all times. Keep fingers away from moving rotors or propellers. Do not fly the Trident Helicopter near or at other people or animals. Use caution when flying. Make sure people around you know that you are playing with the Trident Helicopter. Recommended for use indoors only, in rooms without obstacles, breakable objects or fans. The USB charging cable provided in this package is for charging the Trident Helicopter and infrared dongle ONLY. Only use the USB charging cable provided with the Interactive Toy Concepts Trident Helicopter. Do not use any other source to charge the Trident Helicopter and IR Dongle. Do not attempt to overcharge your Trident Helicopter or IR Dongle. Follow the charging instructions provided in this Instruction Manual. Do not attempt to replace the Internal Lithium Polymer Rechargeable Batteries inside the Trident Helicopter and IR Dongle! The Trident Helicopter's Lithium Polymer Rechargeable Internal Batteries are sealed inside the unit and are not replaceable. Any attempts to replace the Trident Helicopter's Lithium Polymer Rechargeable Internal Battery will void the warranty. Do not throw battery into the fire. Rechargeable battery is only to be charged under adult supervision. Never leave a battery unattended while it is being charged. Never leave a battery unattended in the presence of children. The supply terminals are not to be short-circuited. Do not try to recharge non-rechargeable batteries. Please respect the correct polarity (-) or (+). The packaging should be kept since it contains important information.

PLEASE! DO NOT RETURN THIS PRODUCT TO ANY RETAIL STORE!
For any questions or problems with this product please contact us at: Email: info@interactivetoy.com
Phone: Inside North America: 1-866-214-2220 Outside North America: +1-416-444-6873
Address: Interactive Toy Concepts, 17 Vulcan Street, Toronto, Ontario, Canada. M9W 1L3
Web site:www.interactivetoy.com

FCC NOTE: U.S. ONLY

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.
2) This device must accept any interference received including interference that may cause undesired operation.
Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment. The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment. Note: This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to Part 15 of the FCC Rules. These Limits are designed to provide reasonable protection against harmful interference in a residential installation. This generates, uses and can radiate radio frequency energy and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turn the equipment off and on, the user is encouraged to try and correct the interference by one or more of the following measures: •Reorient or relocate the receiving antenna • Increase the separation between the equipment and receiver • Connect the equipment to an outlet on a circuit different from that to which the receiver is connected • Consult the dealer or an experienced radio/TV technician for help.

Industry Canada Notice: Canada only.

This radiocommunication device complies with all the requirements and limits of Industry Canada Standard RSS-310.
Operation is subject to the following two conditions: 1) This device may not cause harmful interference.
2) This device must accept any interference received, including interference that may cause undesired operation. Field Strength and measurement distance: 27.145MHz – 61.35 dBμV/m at 3 meter. 49.860MHz - 59.69 dBμV/m at 3 meter.

Limited 30-day warranty
Product is warranted by Interactive Toy Concepts Limited against manufacturing defects in material and workmanship under normal use for thirty (30) days from the date of purchase.
Warranty is validated upon receipt of proof or purchase and confirmation of UPC code.

Lithium Polymer Rechargeable Batteries must be recycled or disposed of properly.