FCC Part 15 C Notice

CAUTION: Changes or modifications not expressly approved by the party responsible for compliance 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 equipment 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 turning the equipment off and on, the user is encouraged to try to 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 into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or experienced radio/TV technician for help.

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.

INDUSTRY CANADA NOTICE: CANADA ONLY.

This device complies with Industry Canada licence-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.

Le présent appareil est conforme aux CNR d’Industrie Canada applicables aux appareils radio exempts de licence. L’exploitation est autorisée aux deux conditions suivantes : (1) l’appareil ne doit pas produire de brouillage, et (2) l’utilisateur de l’appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d’en compromettre le fonctionnement.

WEEE Directive & Product Disposal

At the end of its serviceable life, this product should not be treated as household or general waste. It should be handed over to the applicable collection point for the recycling of electrical and electronics equipment, or returned to the supplier for disposal. Internal/Supplied Batteries

This symbol on the battery indicates that the battery is to be collected separately. This battery is designed for separate collection at an appropriate collection point.

chlcking Hazard - Small Parts. Not suitable for children under 3 years.

WARNING!

Conforms to safety requirements of FCC.
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Tel: + (1) 949-566-9573 • www.propelrc.com

INSTRUCTION BOOKLET

WARNING: Never leave product charging unattended for extended periods of time. Always disconnect the battery from charger immediately after the battery is fully charged. Please refer to enclosed safety instructions.

PACKAGE CONTAINS:

Spyder XL™
2.4G Wireless Controller
Spare Parts
AC Charger & Li-Poly Rechargeable Battery
USB Card Reader & Micro SD Card
Instruction Manual

Colors and styles may slightly vary.
Thank you for purchasing the Spyder XL™ 2.4 Ghz Quadcopter. Please read this instruction booklet as it contains valuable information on how to properly fly and care for your Spyder XL™.

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**FEATURES**

- Wide range digital radio allows flight range up to 500 feet!
- Six axis gyro for extremely stable flight and maneuverability
- Switch-blade technology allows you to operate in 3ch or 4ch Modes for beginner to advanced pilots
- Push button 360° aerial stunts
- On-board camera records high-definition videos and still photos (1280x720 pixel, 30 frames per second)
- Air pressure sensors lock flight altitude for stable video footage
- Automatically lands with the push of a button
- Additional replacement parts included

**REMOTE CONTROL BATTERY INSTALLATION**

1. Slide off the battery cover from the back of the controller.
2. Install 4 fresh “AA” alkaline batteries into the controller as shown in diagram A. Replace the battery cover.
3. Turn over the controller and turn the on/off switch to the on position. If the power indicator turns on you have installed your batteries properly.

**CHARGING THE SPYDER XL™ LI-POLY BATTERY**

1. Connect the battery to the battery charger as shown (see diagram B).
2. Next, Plug the AC adaptor into a standard wall socket.

CAUTION: improper connection may damage the battery.

Note: The battery charger has a RED LED indicator light to indicate it is charging.
3. When the battery is fully charged the charging indicator light will change to green.
4. Average charging time is approximately 80-100 minutes. A fully charged drone can fly for approximately 10 minutes depending on environment and user input.

NOTE: You may purchase additional batteries and chargers at www.propelrc.com

**IMPORTANT: ALWAYS REMEMBER TO DISCONNECT YOUR BATTERY CHARGER WHEN NOT IN USE!**

**SPYDER XL™ BATTERY INSTALLATION**

1. Slide the fully charged battery into the Spyder XL™s battery compartment (see diagram C).

The battery is designed to only fit in the compartment one-way, with the guide rail on the bottom of battery facing downward.
2. Push the battery all the way in and you will hear a click, the drone’s LED lights will light up and begin flashing when you have installed the battery correctly.

NOTE: The Spyder XL™ has no On/Off switch. The drone automatically turns on when the battery is installed.
3. Removing the battery: On the underside of the drone body you will see a small battery eject lever. Using your finger nail pull the lever up and the battery will eject about 0.5-1cm (see diagram D). Lastly, using your thumb and forefinger gently pull out the battery.
DO NOT FLY YOUR SPYDER XL™ IN FOUL WEATHER!

WARNING

FLIGHT PREPARATION
- Verify that there are 4 "AA" batteries inside the remote control unit and the Spyder XL™ has been fully charged.
- Make sure to be in a large open space preferably a field or a park with an open radius of at least 200 feet.
- Make sure to start your drone on a clean flat level surface before take-off.

IMPORTANT! Until you have experience in flying your Spyder XL™, it is not advised to use in any rate of wind. Wait until a zero wind day or extremely light wind when learning how to fly.

SYNCING YOUR SPYDER XL™
Important! When syncing your Spyder XL™ with the controller always make sure that the drone is on a flat level surface and that your digital trim settings are in the center position. This insures that the 6 Axis gyro is properly programmed to respond to your trim settings.

1. Before starting, make sure that the power switch on your controller is off and the battery is removed from the Spyder XL™. Make sure that there are no other 2.4G devices in the area.
2. Insert the battery into the Spyder XL™ and set it down on any flat surface. The red and white LED lights on top of the drone should begin to flash repeatedly.
3. Quickly turn ON the remote and you will notice that the top red LED light on the face of the controller should begin to flash repeatedly.
4. Push the left control stick all the way up until it stops and then pull it back all the way down to the bottom (see illustration below). When pulling the stick down to the bottom you should hear a high-pitched beep and the lights on both the drone and the controller should stop flashing and become solid. If the lights on both the drone and the controller have stopped flashing and become solid you have successfully synced your Spyder XL™ and are ready to fly. If the lights on the controller or the drone are still flashing repeat steps 1-4 again.

- TIP 1: Try not to leave too much time between putting your battery into the drone and turning on the controller or your syncing window will time-out.
- TIP 2: Syncing your drone indoors or in the shade will make it easier to see the LED light indicators on both the controller and the drone.
NOW YOU ARE READY TO FLY!

If you have successfully synced your Spyder XL™ to your controller as explained on page 4 you are now ready to fly. Before beginning to fly your drone you should familiarize yourself with how to start and stop the rotors, how to use your auto land feature and how the controls work so please carefully read and familiarize yourself with various control features explained in the next few pages. Once again as a beginner pilot you should learn how to control your drone in a large open field or park on a day with zero or very light wind. Do not try to fly your Spyder XL™ too high until you become a more experience pilot.

RECOGNIZING THE FRONT & BACK OF THE SPYDER XL™

Even though the Spyder XL™ has four rotors there is still a front or “forward” facing direction and “back” or backwards facing direction. The Front and forward facing direction of the Spyder XL™ is the side with two EYES (see diagram E). The rear and back of the Quadrocopter is the side with battery compartment (see diagram E).

**NOTE:** The front of the Quadrocopter also displays WHITE LED lights and the back of the Quadrocopter displays RED LED lights.

HOW TO START/STOP ROTORS

Make sure you have properly synced the Spyder XL™ and the power is on.

- To start and stop the rotors simply move the two control sticks either simultaneously down and to the inside or down and to the outside corners and hold for one second (see illustration below).

*Note: Either position will both start and stop the rotors so use the position you are most comfortable with.*

- Once the rotors begin to spin, release the control sticks and they will return to the center position. Now you are ready for take-off.

SPEED SELECT BUTTON

The Spyder XL™ has 3 speed settings; 1 (SLOW), 2 (MEDIUM) and 3 (HIGH). The Default setting when you first turn on your Spyder XL™ is the 1 (SLOW) speed mode. To increase the speed simply trigger the speed setting button (see remote diagram on pg 3) you will hear a beep and the speed setting indicator on the face of the controller will show you what speed setting you are on. Speed settings can be set before flight or during the flight.

AUTO LAND BUTTON /AUTO TAKE OFF

The Spyder XL™ has an auto land and auto take off feature which allows you to land or take off automatically. Simply press the Auto Land Button and your Spyder XL™ will begin land or take off by itself.

*Note: you can still control the direction while auto landing or taking off to avoid obstacles*

3 CHANNEL VS 4 CHANNEL FLYING

Propels unique “switch-blade” technology allows you to choose between 3ch or 4ch flight control modes. Most people with no experience in flying multi copters may find 3ch easier to learn at first as controls are set up to simply move forward, back, turn left and turn right. 4channel flying gives the operator ultimate control by adding two more dimensions of flight, banking left and banking right.

To change to 3 Channel mode:

Switch the 3/4 CH. button to left side on the back of controller (see remote diagram on pg 3), you will hear 3 “beeps” indicating the Spyder XL™ now is set to 3 CH. mode.

To change to 4 Channel mode:

Switch the 3/4 CH. button to right side on the back of controller (see remote diagram on pg 3), you will hear 4 “beeps” indicating the Spyder XL™ now is set to 4 CH. mode.

3 CHANNEL FLIGHT CONTROL

Below is a list of basic flight functions for your long-range remote to control the Spyder XL™. While learning to fly your Spyder XL™ it is best to start in a large space with the drone facing away from you until you get used to the basic controls. As you master flying your Spyder XL™ you can move to more advanced maneuvering techniques. Practice makes perfect! When you have these basic steps down you can move to the next level.

Move the left Throttle stick up to increase the propeller speed and the Spyder XL™ will accelerate and ascend.

Move the left Throttle stick down to decrease the propeller speed and the Spyder XL™ will decelerate and descend (see diagram F).

While in the air, move the right Direction Stick up and the Spyder XL™ will move forward.

Move the right Direction Control down and the Spyder XL™ will move backward (see diagram G).

While in the air, move the right Direction Control left and the Spyder XL™ will spin to the left.

Move the right Direction Control right and the Spyder XL™ will spin to the right (see diagram H).
4 CHANNEL FLIGHT CONTROL

Below is a list of basic flight functions for your long-range remote to control the Spyder XL™. While learning to fly your Spyder XL™ it is best to start in a large space with the drone facing away from you until you get used to the basic controls. As you master flying your Spyder XL™ you can move to more advanced maneuvering techniques. Practice makes perfect!

Move the left Throttle stick up to increase the propeller speed and the Spyder XL™ will accelerate and ascend.
Move the left Throttle stick down to decrease the propeller speed and the Spyder XL™ will decelerate and descend (see diagram I).

While in the air, move the left Throttle stick left and the Spyder XL™ will rotate left. Move the left Throttle stick right and the Spyder XL™ will rotate right (see diagram J).

While in the air, move the right Direction Stick up and the Spyder XL™ will move forward. Move the right Direction Control down and the Spyder XL™ will move backward (see diagram K).

While in the air, move the right Direction Control left and the Spyder XL™ will bank to the left. Move the right Direction Control right and the Spyder XL™ will bank to the right (see diagram L).

FLIGHT PRACTICE

To master flying your aircraft try practicing the exercises shown below. Start with simple vertical takeoffs, landings, and left/right turning and rotating. Once those are mastered move on to square and cross maneuvers. Good luck and have fun!

FLIGHT PRACTICE

Fixed-point landing  Square Pattern Maneuver  Cross Pattern Maneuver

ADJUSTING THE TRIM

NOTE: The Spyder XL™ is already properly trimmed and calibrated right out of the box and should not require any trim adjustments before flying. Some more experienced pilots may want to adjust trim settings for their style of flying. After several crashes you may need to adjust trim settings for the Spyder XL™ to be more balanced.

Forward/Backward Trim

• If your Spyder XL™ drifts forward while in the air, push and release the FORWARD/BACKWARD TRIM button backward repeatedly until the motion stops and proper flight is maintained (see diagram M).
• If your Spyder XL™ drifts backwards, push and release the FORWARD/BACKWARD TRIM button forward in the same manner until the problem is resolved.

Bank Right/Left Trim

• If your Spyder XL™ drifts / banks left while in the air, push and release the BANKS TRIM button to the rightside repeatedly until the motion stops and proper flight is maintained (see diagram N).
• If your Spyder XL™ drifts right, push and release the BANKS TRIM button to leftside in the same manner until the problem is resolved.

Spin Left Trim

• If your Spyder XL™ spins left while in the air, push and release the LEFT/RIGHT TURN TRIM button to the rightside repeatedly until the motion stops and proper flight is maintained (see diagram O).

Spin Right Trim

• If your Spyder XL™ spins right while in the air, push and release the LEFT/RIGHT TURN TRIM button to the leftside until the problem is resolved (see diagram P).

NOTE: The use of the Trim buttons utilizes sounds. A single long Beep indicates the product is center trimmed. Continuous long Beeps indicate the product is trimmed to the maximum on a particular side.
CALIBRATING THE SPYDER XL™

NOTE: Your Spyder XL™ comes pre-calibrated out of the box so you are ready to fly.
After several crashes and shock to your gyro sensors, you may notice that your drone is drifting and not holding its center position as well as it used to.
This most likely means that you need to recalibrate the 6 axis gyro. Please follow the simple instructions below.

1. Place the SPYDER XL™ on a level surface
2. Make sure the Spyder XL™ is on and that the controller is synced (refer to syncing pg 4.). Do not start the blades. Instead move both the throttle and control stick down and to the right corner and hold them there for 5 seconds (See Diagram R). You will see the lights on the drone rapidly flash and stop. Once the lights stop flashing you have completed your calibration and are ready to fly!

TROUBLE SHOOTING: If you do not see the lights flash, first remove the battery from the drone then turn off your controller and start again. Always make sure to put your battery in first, then turn on your controller. Push the left throttle stick up all the way and then pull back down again. When you hear the beep the SPYDER XL™ is synced to the controller and you are ready to calibrate.

HOW TO PERFORM 360° STUNT ROLLS

Performing 360° stunt rolls with the Spyder XL™ is as easy as 1-2-3:

1. Hover the Spyder XL™ in still position making sure that you have at least 5 feet of clearance above and below the quadrocopter. Set the speed settings to mode 2 or 3.
2. Press the 360 stunt button down and you will enter the stunt roll mode which is indicated by a rapid beeping (see diagram S).
3. Determine which direction you want it to flip and quickly push the right control stick in the direction you want to flip your Spyder XL™ (see diagram T). You have 4 choices a) Forward roll, b) Backwards roll, c) Right side roll, d) Left side roll.

360° Stunt Roll Button

- S
- T
USING YOUR ON-BOARD CAMERA AND VIDEO RECORDER

Your Spyder X™ comes equipped with an onboard digital camera (1280x720 pixel, 30 frames per second) that takes both video and still photographs. Now you can have hours of fun creating aerial photography and videos for family and friends.

WHAT YOU WILL NEED TO GET STARTED USING YOUR CAMERA

1. One Micro SD card (included)
2. One Micro SD card reader (included)
3. A Computer with a USB port and Windows Media Player or other Media player that can play AVI files (not included).

INSTALLING THE MICRO SD CARD IN YOUR SPYDER X™

Before you can begin to take videos or digital photographs you must first format your Micro SD card. To format your Micro SD card simply place the Micro SD card into the included USB SD card reader and plug it into your computer’s USB port (See diagram U1 and U2 below). After a few moments an icon will appear on your Desktop. Right click on the Icon and follow instructions to format your Micro SD card.

FORMATTING YOUR MICRO SD CARD

Before you can begin to take videos or digital photographs you must first format your Micro SD card. To format your Micro SD card simply place the Micro SD card into the included USB SD card reader and plug it into your computer’s USB port (See diagram U1 and U2 below). After a few moments an icon will appear on your Desktop. Right click on the Icon and follow instructions to format your Micro SD card.

USING YOUR ON-BORD CAMERA AND VIDEO RECORDER

Your Spyder X™ comes equipped with an onboard digital camera (1280x720 pixel, 30 frames per second) that takes both video and still photographs. Now you can have hours of fun creating aerial photography and videos for family and friends.

WHAT YOU WILL NEED TO GET STARTED USING YOUR CAMERA

1. One Micro SD card (included)
2. One Micro SD card reader (included)
3. A Computer with a USB port and Windows Media Player or other Media player that can play AVI files (not included).

INSTALLING THE MICRO SD CARD IN YOUR SPYDER X™

• Place the formatted Micro SD card into the back of the Spyder X™ digital camera port (see diagram U3 below).
• Push gently until you hear and feel the micro SD card “click” into the digital camera slot.
• Turn the Spyder X™ on and make sure that it is both fully charged and properly synced to the Controller (see HOW TO SYNC YOUR QUADROCOPTER on page 4).
• When you have successfully installed your Micro SD card and your Spyder X™’s battery, you will see a solid red LED light on the camera unit underside (see camera indicator light diagram U4 below).

NOTE: If you see a red LED light flashing this indicates you have not installed your Micro SD card correctly or there is a problem with your SD card. If this happens please reformat and try again. If you continue to encounter problems call our customers service line at (949) 566-9573 Ext 1 for assistance.

DOWNLOADING AND CLEARING SPACE ON YOUR MICRO SD CARD

Plug your Micro SD card into the Micro SD card reader and connect to your computer. It is best to always download all your videos and pictures on to your computer and not store this data on your Micro SD card. After downloading your photos and videos, follow your computers instructions to “delete” files on your Micro SD card.

IMPORTANT NOTICE: When your Micro SD card is full the indicator light on the bottom of your helicopter will not flash when you press the photo or video record buttons. This indicates that its time to put a new SD card in your Spyder X™ or download files and clear space for future photos and videos.

REMOVING YOUR MICRO SD CARD

To remove your Micro SD Card push in gently on the back of the SD card with your thumb or forefinger until you hear a "Click" sound and a flashing Red LED light should stay solid on the belly of the camera (see Camera Diagram W4). The solid red light indicates that you have properly installed the Micro SD card and are ready for taking pictures and videos. If you don’t see the solid red LED indicator light then start again. Remember to make sure that the drone and controller are properly synced and that the Micro SD card is inserted until you hear a “click”

1. Testing the Still Photo Feature: Keeping the drone upside down, quickly depress and release the CAMERA button on the top right hand side of the controller. A green LED should appear and flash 3x. Congratulations you just took a picture and tested your camera. If you did not see 3 green lights flash then you must start again from the beginning.
2. Testing the Video Recording Feature: Keeping the drone upside down, depress and hold down the CAMERA button for 2 seconds. A green LED light on the camera belly will appear and begin to flash continuously. This means that you are recording video. To stop recording video simply press and release the Camera button one more time and the Green LED light should off, indicating that the camera is once again in ready mode.

REMOVING YOUR MICRO SD CARD

To remove your Micro SD Card push in gently on the back of the SD card with your thumb or forefinger until you hear and feel a “Clicking sound”. The Micro SD card will “pop-out” slightly and is ready for removal. Simply grab and pull gently away from the Spyder X™’s camera port to remove the card. Always store your Micro SD card in a clean, safe and cool environment.

IMPORTANT NOTICE: You can not take photos and videos at the same time. When you are in video mode your camera/ photo button is disabled. If you want to take photos you must first turn off video mode.
SPYDER XL™ WARNING:
The Spyder XL™ is designed for OUTDOOR use. The Spyder XL™'s blades revolve at high speeds and can cause damage to the user, spectators and animals. Stand away from the Spyder XL™ to reduce the risk of getting into the flight path. Warn spectators that you will be flying your Spyder XL™ so that they are aware of its position. Before flight, inspect the rotor blades to make certain that the blades are securely fastened to the Spyder XL™.

WARNING!
• Choking/Cutting Hazard. Small Parts/Sharp Rotor Blades.
• Keep hands, hair and loose clothing away from the propeller when the power switch is turned to the ON position.
• Turn off the transmitter and Spyder XL™ power switches when not in use.
• The included charger is built specifically for the Spyder XL™ Li-Poly battery. Do not use it to charge any other battery.
• New alkaline batteries are recommended for maximum performance.
• Parental supervision recommended when flying Spyder XL™.

BATTERY WARNINGS
RECHARGEABLE BATTERY:
This Spyder XL™ uses a Li-Poly rechargeable battery. If battery no longer stays charged, dispose of battery properly according to local disposal requirements.

CONTROLLER BATTERIES:
Remote control requires 4 “AA” batteries (not included). Please read the important battery safety warning below.
• Do not mix alkaline, standard (carbon-zinc) and rechargeable batteries (Nickel Metal Hydride).
• Do not mix old and new batteries.
• Non-rechargeable batteries are not to be recharged.
• Rechargeable batteries are to be removed from the item before being charged (if removable).
• Rechargeable batteries are only to be charged under adult supervision.
• Exhausted batteries should be removed immediately and must be recycled or disposed of properly according to state or local government ordinances and regulations.
• The supply terminals are not to be short-circuited.
• Only batteries of the same or equivalent type as recommended are to be used.
• Batteries are to be inserted with the correct polarity (see inside booklet for diagram).
• Do not dispose batteries in a fire - batteries may leak or explode.

CARE AND MAINTENANCE
• Always remove the batteries from the wireless remote control when it is not being used for an extended period of time.
• To clean, gently wipe the remote control and Spyder XL™ with a clean damp cloth.
• Keep the toy away from direct heat or sunlight.
• Do not submerge the toy into water. This can damage the unit beyond repair.
• Parental guidance recommended when installing or replacing the batteries.

TROUBLESHOOTING YOUR SPYDER XL™

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>POSSIBLE CAUSE</th>
<th>POSSIBLE SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>No Power</td>
<td>1. Power switched off</td>
<td>1. Switch the ON/OFF switch to ON</td>
</tr>
<tr>
<td></td>
<td>2. Polarity is reversed</td>
<td>2. Make sure all batteries are installed correctly (see diagram A)</td>
</tr>
<tr>
<td></td>
<td>3. Batteries may be low or in need of charging</td>
<td>3. Replace batteries</td>
</tr>
<tr>
<td>Aircraft Not Responding</td>
<td>1. Remote is switched off</td>
<td>1. Switch the ON/OFF switch to ON</td>
</tr>
<tr>
<td></td>
<td>2. Battery power in remote is too weak</td>
<td>2. Connect the battery to Spyder XL™</td>
</tr>
<tr>
<td></td>
<td>3. The remote is not properly synced</td>
<td>3. Re-sync the remote</td>
</tr>
<tr>
<td></td>
<td>4. Out of control range</td>
<td>4. Do not fly beyond 500 feet</td>
</tr>
<tr>
<td>Aircraft Won't lift off</td>
<td>1. Rotor speed too slow</td>
<td>1. Push throttle lever forward</td>
</tr>
<tr>
<td></td>
<td>2. Aircraft not fully charged</td>
<td>2. Recharge your Spyder XL™</td>
</tr>
<tr>
<td></td>
<td>3. Obstruction of rotors</td>
<td>3. Check rotors for hair or other obstructions</td>
</tr>
<tr>
<td>Aircraft Descends Too Fast</td>
<td>1. Moving the throttle down too quickly</td>
<td>1. Control the throttle slower/ use auto land feature</td>
</tr>
<tr>
<td></td>
<td>2. Flying in high wind or bad weather</td>
<td>2. Do not fly in bad weather</td>
</tr>
</tbody>
</table>

If you continue to encounter problems call our customers service line at (949) 566-9573 Ext 1 for assistance.

REPLACING THE PROPELLER BLADES
Your Spyder XL™'s propeller system is a precision instrument that may need repair or replacement from time to time for optimal flight function. Crash landing at high-speed may cause damage to your Spyder XL™’s propellers.
1. The Spyder XL™ has four blades, two blades with indication number 2 & 3 on front, and two blades with indication number 3 & 2 on back (see the diagram V).
2. When replacing the propeller blades, make sure to match the indication number on the blade.
3. Replace the damaged blade with the correct blade.

Blade Front Left = 2
Blade Front Right = 3
Blade Back Left = 3
Blade Back Right = 2

V