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Guardian Bikes Ethos (GBE-16-1-BB)

Guardian Kids Bikes Ethos Instruction Manual

Model: Ethos (GBE-16-1-BB)

Brand: Guardian Bikes

INTRODUCTION

The Guardian Ethos line of kids' bikes is engineered with a primary focus on safety and ease of use for children. These bikes incorporate advanced features designed to prevent common accidents and make the learning-to-ride process smoother and more confident. Each bike undergoes a comprehensive 34-point setup and safety check before shipping, ensuring a consistently safe product for every customer.



Figure 1: Guardian Ethos Kids Bike (Black/Blue)

KEY FEATURES

- **SureStop Brake System:** A patented technology that uses a single brake lever to activate both front and rear

wheels, allowing children to stop up to 44% faster and preventing head-over-handlebar accidents.

- **Lightweight Steel Construction:** Designed to provide more control and stability, making it easier for children to handle the bike.
- **Optimized Frame Design:** Features a low center of gravity and a long wheelbase to enhance stability and prevent tip-over accidents.
- **No Coaster Brakes:** Eliminates the common issue of accidental braking when children pedal backward to regain balance.
- **Kid-Specific Parts:** Components such as handlebars, grips, and saddles are sized and designed for children's comfort and ease of use.



Figure 2: Guardian Ethos Key Features Overview



Figure 3: SureStop Single Brake Lever for enhanced safety.



Figure 4: Optimized Geometry for Stability.

SIZING GUIDE

Choosing the correct bike size is crucial for safety and comfort. The Guardian Ethos bikes are available in 16, 20, and 24-inch wheel sizes, suitable for various rider heights and ages. Refer to the table below to find the appropriate size for your child.



16 INCH

	MIN	MAX	
Child's Height	40"	-	46"
Seat Height	18.5"	-	23.5"



20 INCH SMALL

	MIN	MAX	
Child's Height	43"	-	51"
Seat Height	20.8"	-	26.8"



20 INCH LARGE

	MIN	MAX	
Child's Height	45"	-	53"
Seat Height	22.5"	-	28.5"



24 INCH

	MIN	MAX	
Child's Height	49"	-	61"
Seat Height	25"	-	33"

Figure 5: Guardian Ethos Sizing Chart

US 16/20/24 Inch, Multiple Colors for Boys/Girls Bicycle

Brand Size	Rider Height (in)	Age (year)	Wheel Size (in)
16	40 - 46	4 - 6	16
20	43 - 51	5 - 8	20

For more detailed sizing information and to predict your child's growth with the bike, utilize the Guardian Bikes RideSizer software available on their official website.

SETUP AND ASSEMBLY

Your Guardian Ethos bike arrives 99% preassembled, significantly reducing setup time. All necessary tools are included in the box. The assembly process typically takes less than 10 minutes.

Assembly Steps:

1. Carefully remove the bike and all components from the packaging.
2. Attach the handlebars: Insert the handlebar stem into the fork and tighten the bolts securely using the provided tools.

3. Install the pedals: Identify the left (L) and right (R) pedals. The left pedal tightens counter-clockwise, and the right pedal tightens clockwise. Ensure they are fully threaded and tightened.
4. Adjust the seat height: Use the quick-release seat clamp to adjust the saddle to the appropriate height for your child, ensuring their feet can comfortably touch the ground.
5. Perform a final safety check: Verify all bolts are tight, brakes are functioning correctly, and tires are inflated to the recommended pressure (check tire sidewall for pressure range).



Figure 6: Preassembled Components for Easy Setup.

OPERATING INSTRUCTIONS

Before riding, ensure your child wears a properly fitted helmet and appropriate safety gear. Always supervise young riders.

Riding Basics:

- **Starting:** Have your child push off with their feet to gain initial momentum, then place their feet on the pedals.
- **Pedaling:** Encourage smooth, consistent pedaling. The 1-speed design simplifies operation, allowing focus on balance and steering.
- **Steering:** Guide your child to look where they want to go, using gentle turns of the handlebars.
- **Braking:** The SureStop system uses a single lever on the right handlebar. Instruct your child to squeeze this lever gently and progressively to slow down or stop. The system automatically engages both brakes for efficient and safe stopping.

Practice in a safe, open area away from traffic until your child is confident in their riding abilities.

MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your Guardian Ethos bike.

- **Tire Pressure:** Check tire pressure before each ride. Maintain pressure within the range indicated on the tire sidewall.
- **Chain Lubrication:** Lubricate the chain every few weeks or after riding in wet conditions. Use a bicycle-specific chain lubricant.
- **Brake Check:** Regularly inspect the SureStop brake system. Ensure the brake lever is easy to squeeze and the brakes engage smoothly and effectively. Check brake pads for wear and replace if necessary.
- **Bolt Tightness:** Periodically check all bolts, especially on the handlebars, seat post, and wheels, to ensure they are securely tightened.

- **Cleaning:** Clean the bike with mild soap and water. Avoid high-pressure washing directly on bearings or electrical components (if any).

TROUBLESHOOTING

Problem	Possible Cause	Solution
Handlebars or seat become loose frequently.	Insufficient tightening during assembly or normal use.	Re-tighten all bolts on the handlebar stem and seat post clamp. Ensure proper torque is applied.
Brakes feel spongy or ineffective.	Brake cable tension is too low or brake pads are worn.	Adjust brake cable tension at the lever or caliper. Inspect brake pads and replace if worn beyond limits. If issues persist, consult a bike mechanic.
Difficulty pedaling or chain slipping.	Dry or dirty chain, or misaligned chain.	Clean and lubricate the chain. Check for any bent chain links or chainring teeth.

SPECIFICATIONS

Bike Type: Kids Bike

Age Range (Description): 4 - 6 years (for 16-inch model)

Brand: Guardian Bikes

Number of Speeds: 1

Color: Black/blue (specific model)

Wheel Size: 16 Inches (other sizes available)

Frame Material: Alloy Steel

Suspension Type: Rigid

Special Feature: Easy Assembly

Included Components: Bicycle, Kickstand, Tools

Brake Style: SureStop Brake System

Item Weight: 17.5 Pounds

Model Name: Ethos

Model Number: GBE-16-1-BB

Maximum Weight Recommendation: 35 Pounds

Assembly Required: Yes

UPC: 851391004258

WARRANTY AND SUPPORT

Guardian Bikes offers comprehensive warranty coverage for your peace of mind.

- **Frame Warranty:** Limited lifetime warranty.
- **Parts Warranty:** 1-year warranty on all parts.
- **30-Day Trial:** Each Guardian Bike comes with a 30-day trial period.

For any questions, support, or warranty claims, please contact Guardian Bikes customer service. Refer to the product packaging or the official Guardian Bikes website for contact information.

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