

OWNER'S MANUAL

IES Centaur Electric Bicycle

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OWNER'S MANUAL – IES CENTAUR

IMPORTANT!!

Congratulations on selecting the IES Centaur. In order to use and enjoy your bicycle safely and to get the best performance and durability from this product, **please read this manual before riding.**

Warning! Even on the best days, riding or operating any sort of vehicle can be hazardous. Always wear a helmet and use extra caution to avoid accidents. This manual contains many cautions and warnings. It is important that you read and understand the material outlined in this manual.

We want you to be completely satisfied with your Centaur. If you have any questions or concerns, please call the IES team at 1-866-742-6274.

Each bicycle comes with a Vehicle Identification Number (VIN) embossed into the frame. Please record the VIN along with other pertinent information below in the event that the bicycle is lost or stolen. It may also be a good idea to register your VIN number with the local police department.

VIN: _____

Model: _____

Color: _____

Date of
Purchase: _____

Place of
Purchase: _____

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CENTAUR

If you have any difficulty with the final assembly of your electric bike, please call the IES Service Department at 1-866-726-6856.

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CAUTIONS AND WARNINGS!

Please read this section! It is very important for your safety and satisfaction that you read these cautions and warnings. Thanks!

Warning! Always wear your helmet, obey local laws, and exercise caution when riding.

Warning! If you are not certain that your bike is safe to ride, call the IES Service Department at 1-866-726-6856 for detailed advice and information.

Warning! Keep the power switched off until you are seated on the bike and ready to ride. Turning the power on when not seated, and then accidentally twisting the hand throttle can result in the bike accelerating or “jumping” and cause damage or injury.

Warning! Never attempt to disassemble the battery, motor, controller, or throttle. This can result in injury, fire, or damage to the bike.

Warning! Only use the charger that was supplied with your bike to charge the battery. Use of an improper charger can result in fire or explosion. Read and follow the charging instructions in the manual for complete information about the operation of your charger.

Warning! Substituting batteries, changing motors or controllers will void the warranty and may result in various types of safety problems including fire, explosion, excessive speed, or lack of control. All service should be performed by the IES Service Department or authorized dealer referred by the IES Service Department.

Warning! Avoid contact with live wires, or the battery terminals. Although the voltage is low, the amperage is high. Burns and other injuries can result from contact with any body part.

Warning! Keep the battery and charger out of the reach of children.

Caution! Fully charge the battery before the first use. Failure to do this can result in decreased battery performance for the life of the bike. Fully charge the battery each time you use the bike.

Caution! Do not store your new bike where it will be exposed to high heat, high humidity, or rain for extended periods. All of these will decrease the life and appearance of your bike.

Caution! Do not immerse your bike in water especially sea water. This can damage or destroy the electrical components.

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INSPECTION OF YOUR SHIPMENT

The following is a list of all the necessary parts and components of your new Centaur. Please make sure everything is enclosed in the box and in good working condition.

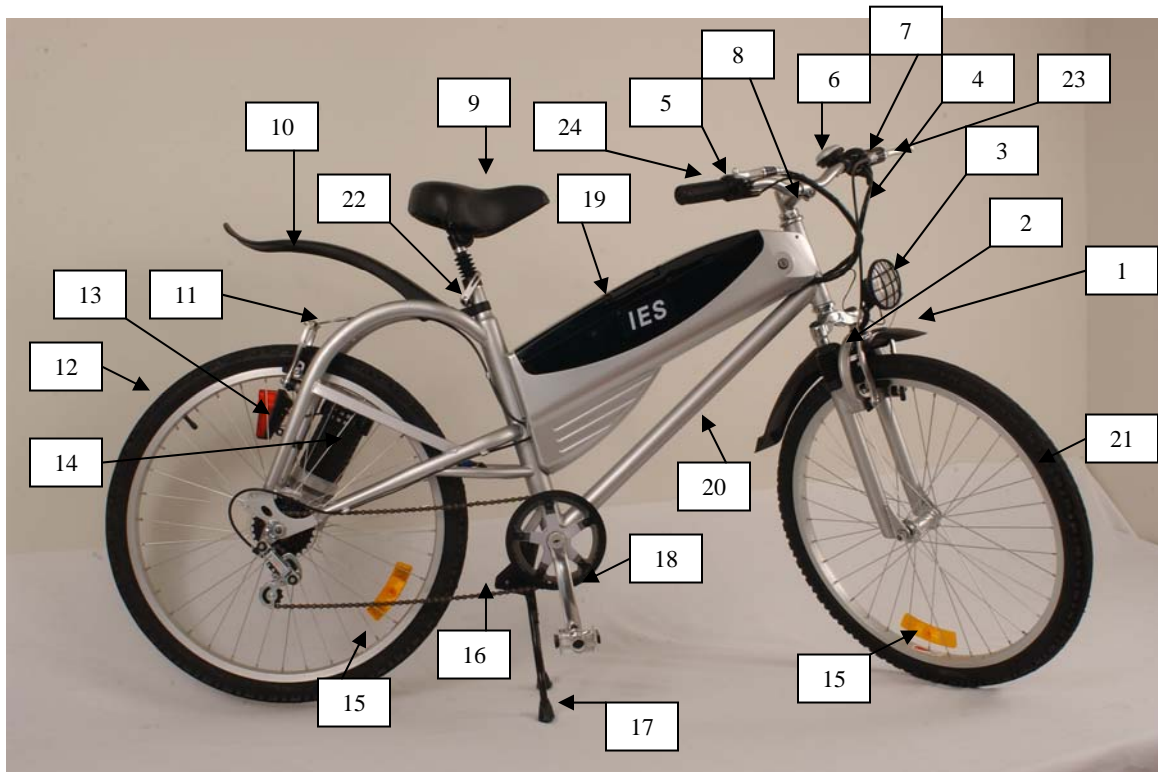
Bicycle
1 Comfort Saddle
2 Pedals
Battery Charger with Power Cord
Battery
Assorted nuts, bolts, screws and washers
Keys
Owner's Manual

Please check the bike along with the parts and components thoroughly for any damage that may have been sustained during shipping. Be careful to avoid scratching the frame when untying or unpacking the bicycle and components.

If you find that something is missing, please call the IES team at 1-866-742-6274.

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Figure 1 – Parts of your Centaur and Location of Quick Releases



- | | | |
|--------------------------|------------------------|------------------------------|
| 1. Front Mudguard | 10. Back Mudguard | 19. Battery |
| 2. Front Suspension Fork | 11. Brake Bow | 20. Frame |
| 3. Front Light | 12. Back Wheel | 21. Front Wheel |
| 4. Brake Cables | 13. Rear Light | 22. Seat Quick Release Lever |
| 5. 5 Speed Gear Option | 14. Electric Motor Set | 23. Front Brake |
| 6. Bell | 15. Spoke Reflector | 24. Rear Brake |
| 7. Handlebar | 16. Chain | |
| 8. Handlebar Stem | 17. Kick Stand | |
| 9. Saddle | 18. Crank and Pedal | |

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ASSEMBLY INSTRUCTIONS

Tools Required For Assembly

This bicycle can be assembled with the following tools.

- Metric Allen wrenches
- Combination open end/box wrench
- Phillips screwdriver

Assembly Instructions

Please read through and follow all instructions to ensure that your Centaur is properly assembled and ready for use.

1. Remove the bicycle from the box by cutting the plastic strapping, then cutting two sides of the box away. Avoid lifting the bike straight up out of the box. Remove all of the wrappings and ties that protect the bicycle during shipment.
2. Position the handlebars so the stem fits into the bicycle frame. Line the handlebars up with the front wheel and tighten the handlebars to recommended torque of 159 inch lbs.



3. Place the charged battery into the battery slot of the vehicle and then lock it.



4. Install the pedals by carefully threading through crank arm, then tightening securely with a wrench.

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5. Adjust the brakes. The distance between the brake shoe and the rim should not be more than 2mm. If the brake pad becomes worn, it should be replaced immediately. Read below section on brake testing.

Brake Testing

Squeeze the brake levers. The brake levers should be easy for you to reach, and engage the brakes completely when pulled in. You should not be able to pull the brake lever in until it touches the handlebar or grip. Test the brakes and the brake lever adjustment; you should be able to comfortably control your brakes. If the brake is adjusted too loose, the extra play will cause insufficient braking power. The play is properly adjusted if the brake pads meet the rim fully when the brake lever is pulled one-third of the way.

If you have any questions about the operation or adjusting the brakes, contact the IES Service Department at 1-866-726-6856.

Local bicycle shops are usually willing to assemble bicycles for a fee. They will often check a bicycle for safety at no charge.

If you have any questions please call the IES Service Department at 1-866-726-6856.

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OPERATING INSTRUCTIONS

Before You Ride

Make sure all parts, components and accessories are in good working order. Check all fittings and be sure that they are tight and secure. Inspect your bike completely.

Batteries

CAUTION: DO NOT ATTEMPT TO OPEN OR TAMPER WITH THE BATTERY IN ANY WAY. DOING SO MAY CAUSE CHEMICAL, ELECTRICAL AND/OR FIRE HAZARDS.

Batteries that lay dormant for an extended period of time will lose their ability to accept charge. Please make sure you ride and recharge your bike periodically to prevent this from happening. Charge the batteries every two months, even if the vehicle is not being used.

You should recharge the batteries after every use for optimum performance and battery life. One cycle is one complete charge and discharge of the battery. You will need to replace your batteries when they no longer hold a sufficient charge.

RECHARGING THE BATTERIES

It is important that you charge your batteries after every use. This will extend the total life of your battery. Once the charger has indicated that the battery is fully charged, unplug the power source from the bicycle and from the electrical outlet and store in a cool (59° - 86°F or 15° - 30°C), dry (10% - 70% humidity) place. **WARNING: Do not leave the battery charger plugged in for long periods of time. This can damage the batteries.**

The battery does not have to be removed from the bike for recharging. If you choose to remove the battery box from the bicycle frame during recharging, exercise care to avoid damaging the charging cables.

To charge your batteries:

1. Turn the on/off switch to the "off" position.
2. Insert the charger's plug into the battery box charging port.
3. Plug the battery charger into the wall outlet.
4. Turn the charger on. The first time you charge the battery, you must charge for a minimum of 10 hours, but do not charge for more than 20 hours. After the initial battery charge, your Centaur battery can be completely charged in 4 hours.
5. The charger will take up to 4 hours to recharge the battery completely. When the green light appears the battery is sufficiently charged.
6. Do not charge for more than 4 hours (after the initial charge) to avoid overcharging and damaging the battery, especially in hot weather.
7. Charge the bike in a dry and clean place. Keep the charger dry and clean. The charger will become warm during charging.

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OPERATING INSTRUCTIONS – Recharging the battery (continued)

PRECAUTIONS WHILE RECHARGING THE BATTERY

1. **Using your power source incorrectly or leaving the power source connected to the bicycle and plugged into an AC power source for extended periods of time can result in a fire.**
2. Always use your charger as instructed.
3. Do not use any other charger than the one that came with your Centaur.
4. Avoid any contact with water when recharging your battery. If a plug or socket should get wet, dry it thoroughly before proceeding.
5. Do not recharge your battery in direct sunlight or in any very hot environment.
6. Be sure to keep pets and small children away from the area where you are recharging.
7. To avoid damage to the integrated charger, never subject it to intense physical shock or constant vibration.
8. You can charge your battery independently of the bike.

Please contact the IES Service Department at 1-866-726-6856 if the charger is not functioning properly.

Charger Indicator Light Status	Status Description
Orange	Power source is on but charger not connected to the battery
Red	When the charger is connected to the electrical source and the power port, the indicator light on the charger will turn red if the battery energy supply is low.
Green	The battery is fully charged.

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BICYCLE COMPONENTS

Wheels

Wheels should be centered in fork or dropouts. Whenever you hear any irregular noise from the wheels or the brakes, the wheels should be checked and repaired. Wheels should be checked regularly for spoke tightness and rim alignment. Wheels should rotate smoothly without wobbling from side to side. Check the bearing play of the hubs by lifting the bicycle and spinning the wheel. The wheel should continue to spin for several turns and finally cease spinning. To check the play of the hubs, try to move the rim from side to side between the forks. During this test, no substantial play should exist. If you detect play or if the wheel is difficult to turn, the hub bearings must be adjusted.

Please contact a local bicycle dealer to have the hub bearings adjusted or call the IES Service Department at 1-866-726-6856.

Rims

The rims must be smooth and without cracks, breaks or bulges.

Spokes

Check spoke tension regularly. Approximately the same tension should be applied to all spokes. If there is minor loosening of the spokes, you may tighten the nipples, but it is recommended that you take the bicycle to a bicycle mechanic. If you detect a loose spoke or if the rim has a side play of more than 4mm (1/8 inch), immediately have the wheel trued by a bicycle mechanic or call our IES Service Department at 1-866-726-6856.

RIDING WITH LOOSE SPOKES MAY CAUSE THE WHEEL TO FAIL

Tires

Inflate your tires to the pressure embossed on the sidewall before the first use of your new bike. The recommended tire pressure for the Centaur is 40-PSI.

Every time you ride, make sure that the tires are inflated according to pressure indicated on tire sidewall. Improper tire pressure will cause excessive wear, causing premature replacement. Low tire pressure will also make riding more difficult. The tire should be properly seated in the rim and the fitting of the tire bead and rim bead should be checked. If the tube is pinched between the tire and the rim, it will fail when inflated. Ensure that the tire is not cracked or unevenly worn. Check for bulges. Check that the valve is straight in the rim. Irregular tires should be replaced immediately.

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BICYCLE COMPONENTS (continued)

Handlebar and display

We have created and designed this handlebar assembly so that everything you need is within easy reach and sight while riding. To adjust the height of your handlebar, loosen the stem binder bolt by turning it counterclockwise 4 or 5 turns with your Allen wrench. Adjust the height position as desired, and remember to align the stem with the wheel before retightening the stem bolt. Make sure you cannot twist the handlebars after tightening.

CAUTION: LOOSE OR DAMAGED GRIPS ON YOUR HANDLEBARS ARE DANGEROUS. IF YOUR GRIP COMES OFF, YOU COULD LOSE CONTROL OF YOUR BICYCLE. A GRIP WITH THE END MISSING CAN ALLOW HANDLEBARS TO SERIOUSLY INJURE A RIDER DURING AN ACCIDENT. PLEASE CHECK THAT BOTH HANDLEBAR ENDS ARE PLUGGED. BE SURE THAT YOUR GRIPS ARE IN GOOD REPAIR AND SECURELY GLUED OR FASTENED TO THE HANDLEBARS.

Brakes

Riding with brakes that are damaged, have worn brake shoes or cables, or are on wheels that are in poor condition or damaged may result in losing control of your bicycle. Wet weather detracts from brake performance. You will require more distance to stop safely in the rain or on a wet or icy street. Check to be sure the brake cables are not wrapped tightly, and are free of obstructions. It is important to check that your brakes work properly before operating your vehicle. Test before every use.

Power ON/OFF

Your Power On/Off switch is a key switch located on the right side of the bike frame, beneath the handlebar assembly.



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BICYCLE CARE

We recommend having your Centaur serviced once a year by a bicycle mechanic for regular bicycle maintenance in order to ensure safety and keep components in proper working order.

Throughout the year, there are simple steps you can take to inspect and maintain your Centaur:

1. Every week or two, tighten all nuts and bolts. Check all hardware to see that no parts are worn, damaged, or missing. Make certain that the frame and fork alignment are true and that all components are seated in the right position.
2. Clean the frame and all parts regularly with a moist cloth or sponge. Remove the optional midpoint battery and turn off the power before cleaning. Do not completely immerse the bicycle in water and avoid using the hose and/or soaking the battery and motor area. Be sure to completely dry bike with a soft towel to prevent rusting and corrosion. Your Colt is water resistant, but not water-proof.
3. Reflectors should be kept clean, securely fastened and positioned for easy visibility at night from the front, rear and side. Immediately replace any damaged reflectors. **ALWAYS USE A FRONT AND REAR LIGHT WHEN RIDING AT NIGHT.** Check your local regulations for specific requirements.
4. Replace worn or damaged cables. Do not kink cables. Cables stretch with use - adjust accordingly. Keep control cable lubricated.
5. Replace worn grips. Make sure they fit snugly.
6. Check the chain tension frequently and keep it adjusted.

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SAFETY RESPONSIBILITY

Know the laws of your state. It is your responsibility to know and obey the laws of your local area concerning the operation of an electric bicycle. In most cases, cyclists must obey the same laws that apply to motorists. This may include the use of proper protective equipment – in many states children and youths are required to wear helmets.

There are also some common sense rules to keep in mind as you are preparing to ride and as you are riding.

1. **Wear your helmet at all times.** This is required by law in some states and is an important precaution in all states. Always use a helmet that fits and is approved for such use. Keep the chinstrap fastened. **HELMETS CAN HELP PREVENT HEAD INJURIES IN THE EVENT OF AN ACCIDENT.**
2. Only one rider at a time. Riding double or carrying large objects that obstruct your vision or interfere with your control of the vehicle can result in loss of control.
3. Ride with traffic and obey all traffic laws.
4. Do not perform tricks or stunts. Maintain complete control, caution and a reasonable speed at all times. This bicycle is not suited for stunt jumping, competition or racing. Never allow other vehicles to tow the bicycle.
5. When riding at night or in inclement weather, always use lights that are bright and in good working order. Use a clear light on the front and a blinking red light on the back. Wear light colored and/or reflective clothing. Assume motorists are unable to see you and ride in a very defensive, cautious manner.
6. Take special precautions when riding in the rain, ice or snow. Give yourself more time and room to brake. Ride slower than normal in order to keep full control of your bicycle. It is also difficult for motorists to see you when it is raining or snowing; take care when riding in inclement weather.
7. Watch for cars pulling out in front of you and the sudden opening of car doors.
8. Give pedestrians the right of way and be sure to (bell, horn, voice, etc.) alert them to your presence to avoid any type of collision.

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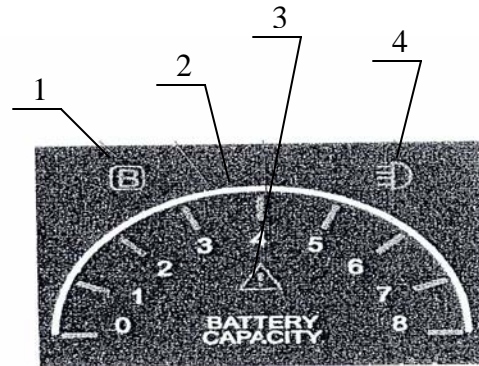
Additional Instructions:

Gearshift



- The gearshift is on the left hand side of the handlebar. It has 6 gear levels.
- The first gear level is the slowest speed. This is the easiest to pedal.
- The 6th gear level is the fastest speed. This is the hardest to pedal.

Battery Capacity Indicator



1. Brake engaged indicator
2. Electric capacity indicator
3. Low-voltage indicator – recharge battery as soon as possible
4. Front light indicator

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SPECIFICATIONS

Size	68.9 x 23.62 x 41.34 inches	
Wheel Size	26" wheel	
Bicycle Weight Including Battery	88 lbs	
Max speed	12 to 15 MPH	
Range Under Power	25 to 31 miles	
Battery	Type/Voltage	Lead Acid Battery / 36 volts
Charger Power Supply		
Motor	Type	Direct Current
	Voltage (V)	36V
	Output Power	190 Watts
Battery Life		

NOTE:

Speed and distances quoted will vary according to rider's weight, road and weather conditions, type of terrain traveled, and age of battery.