

VECTRA^{FITNESS}



Assembly Guide

EX SERIES ELLIPTICALS
MODELS: 110, 220 and 240

WELCOME TO THE **EX SERIES ELLIPTICALS**: A HOME FITNESS REVOLUTION

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Getting Started

Thank you for choosing Vectra. For proper installation, please read this guide thoroughly and follow the assembly instructions. If you do not assemble the EX according to these guidelines, you can void the Vectra Limited Warranty.

Obtaining Service

Do not service the EX except for maintenance tasks as described in the owner's manual. For more information regarding customer support numbers or a list of Vectra authorized service dealers, visit our web site at www.vectrafitness.net.

Installation Requirements

CAUTION: You will need assistance to assemble this unit. DO NOT attempt assembly by yourself.

Follow these installation requirements when assembling the unit:

- Assemble the EX near the location where you plan to use it and provide ample space around the unit.
Important: Consult your owner's manual for proper placement of your equipment.
- Assemble the EX on a solid, flat surface. A smooth, flat surface under the EX helps keep it level, and a level EX has fewer malfunctions.
- Open the box and assemble the components in the sequence presented in this guide. If you plan to move the unit, obtain help and use proper lifting techniques.
- Do not grasp any plastic part while lifting or moving the unit. The plastic parts are not reinforced and they may break.
- Obtain assistance. Ask another capable adult for assistance during the assembly process.
- Use your fingers or the appropriate tools to insert fasteners. Proper alignment helps alleviate crossthreading. Do not fully wrench tighten fasteners until instructed to do so.

Unpacking the Equipment

The EX is carefully tested and inspected before shipment. The unit is shipped in two boxes. Ask for help from one or more people to unpack and assemble the treadmill. If any items are missing, contact your dealer.

WARNING Do not attempt to move the equipment by yourself. Have at least one other person help you and use proper lifting techniques.

To unpack the equipment:

1. Carefully cut and remove all plastic straps that secure the cover on the cardboard box.
2. Lift the cover upward and set it aside.
3. Pull the cardboard or foam spacers away from the equipment and set them aside.
4. Cut all plastic ties securing the equipment in place.
5. Remove and set aside the enclosed box and loose accessories.
6. Remove the base frame assembly from the container and set it on the floor where you plan to assemble and use the equipment.

Required Tools

- Wire cutter (to cut plastic ties used during shipping)
- Rubber mallet
- ½-inch or 13 mm socket wrench with extension
- Phillips-head screwdriver

Hardware Kit (not to scale)

The hardware kit shipped with this equipment contains the fasteners and other hardware components shown in the following table. Before you begin assembly, make sure that your hardware kit is complete. If not, please contact Vectra Customer Support.

Table 1. Hardware Kit Contents

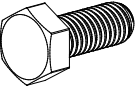
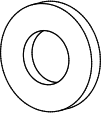
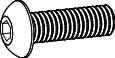
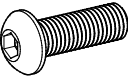
Fasteners		Quantity
	Hex head screw (M8 x 20 mm)	8
	Flat washer (M8)	8
	Buttonhead screw (M8 x 12 mm)	6
	Lock washer (M8)	6
	Buttonhead screw (1/4-inch x 3/4-inch)	4
	5/32-inch hex key	1
	5 mm hex key	1
	Double-ended wrench	1

Table 2. Additional Fasteners for all Models

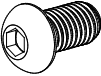
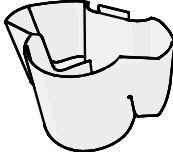
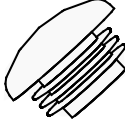
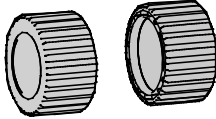
Fasteners		Quantity
	Buttonhead screw (M10 x 20 mm)	2
	Flat washer (M10)	2
	Buttonhead screw (M8 x 50 mm)	2
	Flat washer (M8)	4
	Locknut (M8)	2
	6 mm hex key	1

Table 3. Additional Parts

Bottle holder	Two handlebar caps
	
Two wheel covers	
	

Assembling the Equipment

Proper alignment and adjustment of the equipment is critical. When you install fasteners, leave room for adjustments. *Do not fully tighten the fasteners until you are instructed to do so.*

The following figure identifies the major components of the equipment referred to in this manual. Your equipment may look slightly different based on the model.

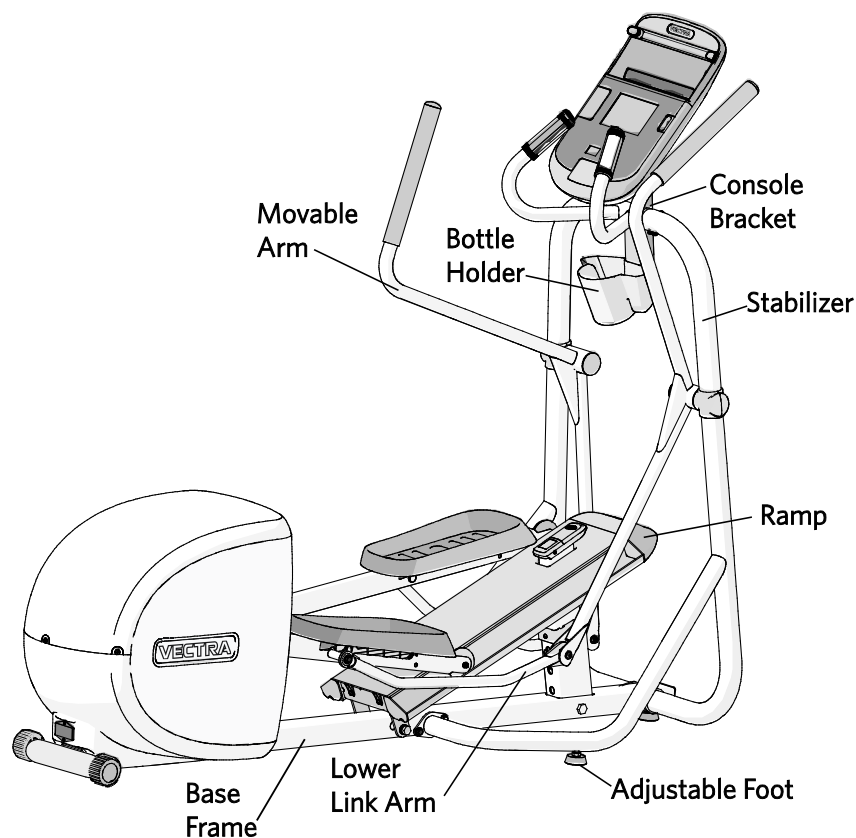


Figure 1: Major components of EX

Beginning Assembly

Note: For easier access to the base frame, lift the front of the EX off the floor and place a wedge of packaging cardboard beneath its base.

To connect the base cable:

1. Ask your assistant to hold the left stabilizer next to the base frame and attach it using four M8 x 20 mm hex head bolts and four M8 washers. Partially tighten the fasteners.

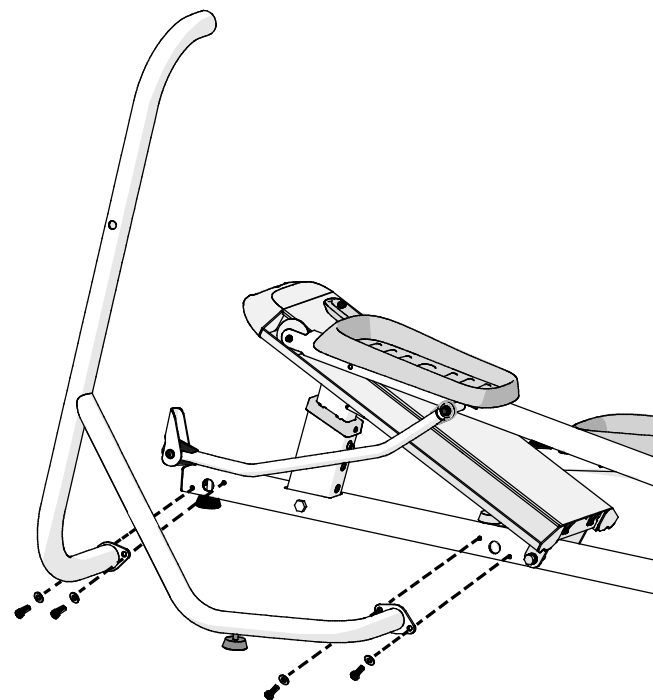


Figure 2: Left stabilizer attachment

2. Ask your assistant to hold the right stabilizer (with the cable protruding from both ends) next to the base frame.

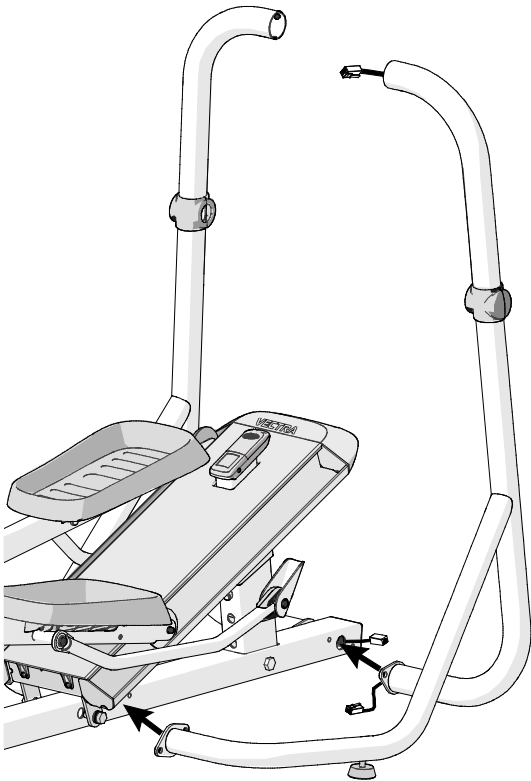


Figure 3: Right stabilizer position

3. Connect the base cable. You will hear a click when the cable is properly attached. Place excess cable inside the stabilizer frame.

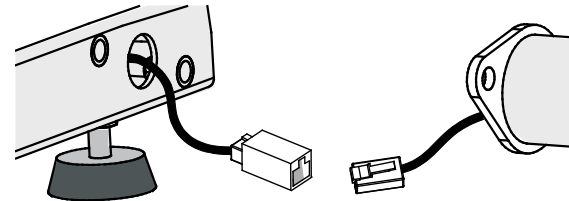


Figure 4: Base cable connection

4. Attach the right stabilizer to the base frame using four M8 x 20 mm hex head bolts and four M8 washers. Partially tighten the fasteners.

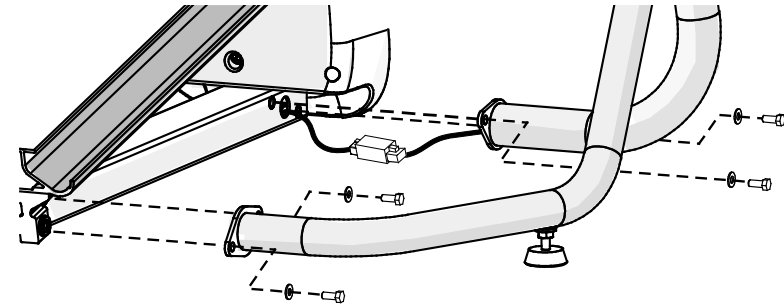


Figure 5: Stabilizer attachment

Attaching the Console Bracket

Important: The console bracket joints are lubricated before shipping to make assembly easier. Be careful not to get this lubricant on your clothing as it may stain.

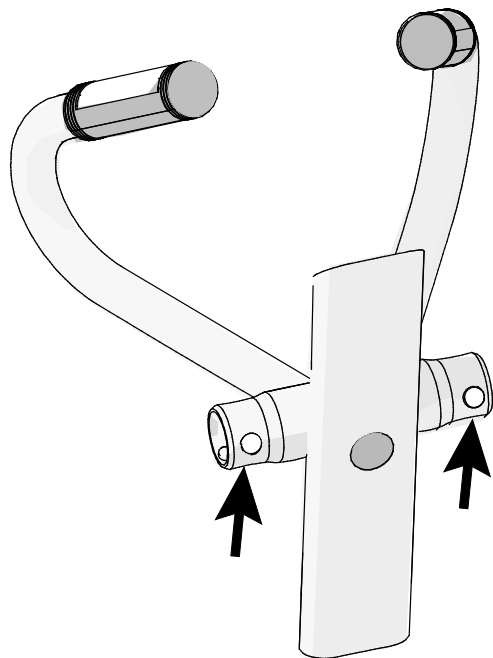


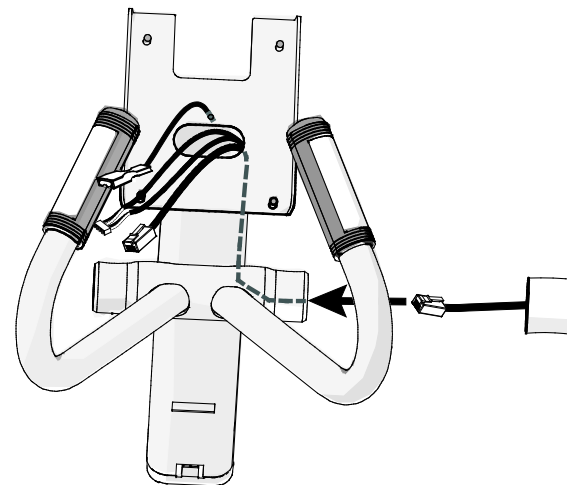
Figure 6: Grease location

Cut any wire ties that secure the cable to the stabilizer. Unwrap the cable and remove any kinks.

CAUTION: Make sure you do not pinch the cables while attaching the console bracket. Any damage caused during installation is not covered by the Vectra Limited Warranty.

To attach the console bracket:

1. Feed the cable through the hole and then slide the console bracket onto the right stabilizer.



2. Remove the plug from the hole on the back of the console bracket.

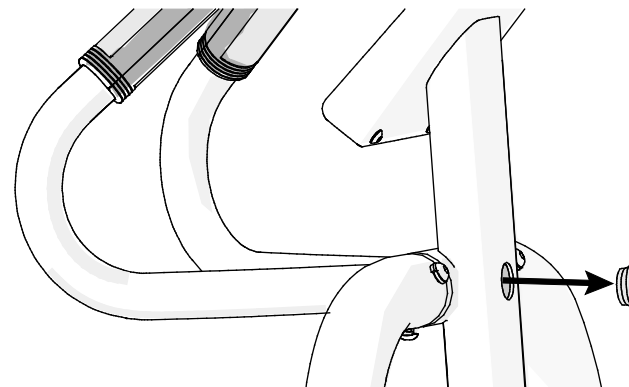


Figure 7: Remove plug

3. Tilt the console bracket forward and feed the cable up through the top of the console bracket.

Note: Use the hole on the back of the console bracket to reach the cable and help guide it toward the top opening in the bracket.

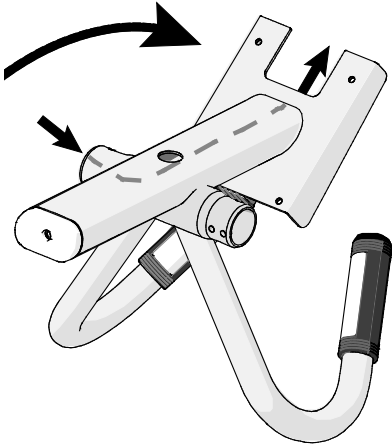


Figure 8: Tilt console bracket forward

4. Reposition the console bracket to its upright position and make sure all wires are pulled through the top of the bracket.
5. Insert the top M8 x 12 mm buttonhead screw and M8 lock washer and partially tighten the fastener. Then, insert the bottom two buttonhead screws and lock washers and partially tighten these fasteners.

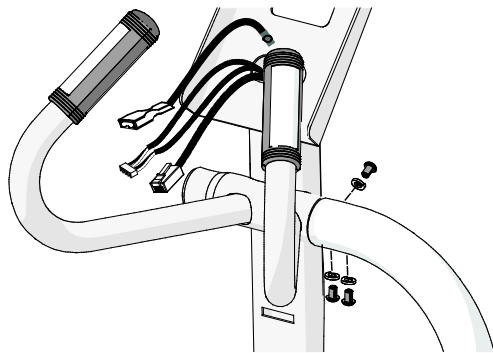


Figure 9: Right stabilizer attachment

6. Attach the opposite side of the console bracket to the left stabilizer using the three remaining M8 x 12 mm buttonhead screws and M8 lock washers. Fully tighten all six console bracket fasteners using the 5 mm hex key.

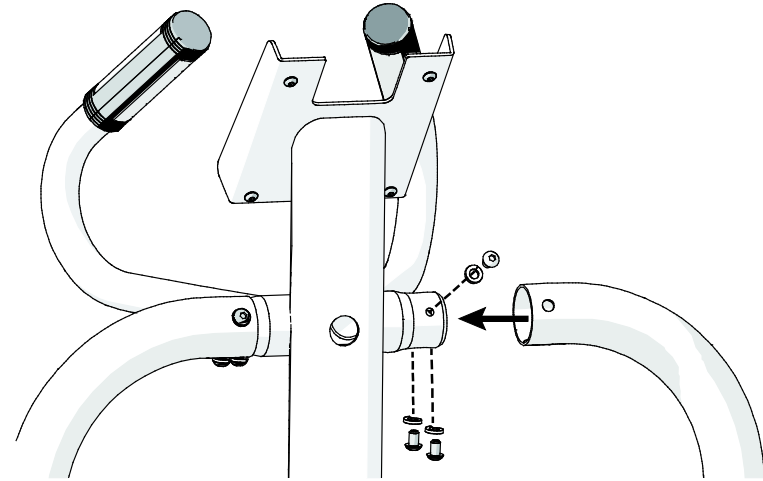


Figure 10: Left stabilizer attachment

7. Install the plug over the hole in the console bracket.
- Note:** Use a rubber mallet to tap the plug gently into place.

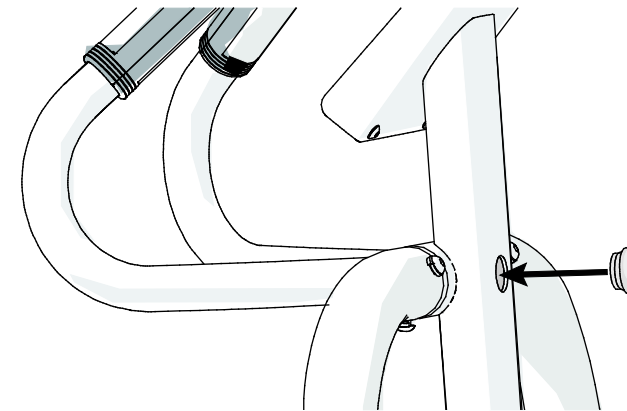


Figure 11: Replace the plug

Attaching the Movable Arms

The movable arms are positioned as shown in the following figure.

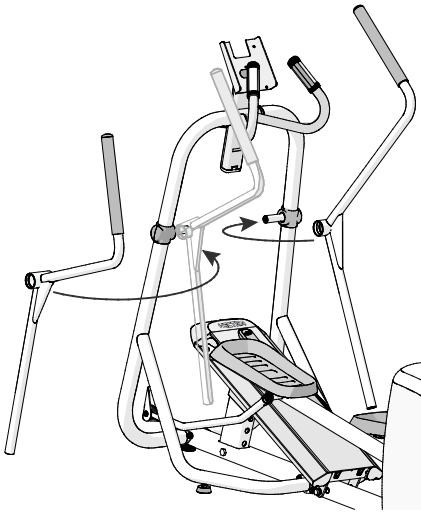


Figure 12: Movable arm positioning

To attach the right moving handlebar:

1. Slide the handlebar pivot joint onto the stabilizer axle (use a rubber mallet to tap it into place if needed). Secure the handlebar using one M10 x 20 mm buttonhead screw and one M10 washer. Fully tighten the fastener using the 6 mm hex key.

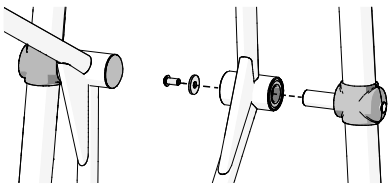


Figure 13: Handlebar fasteners and cap

2. Use the rubber mallet to tap the cap gently into place over the fasteners.

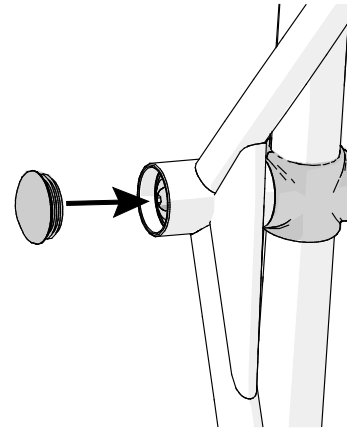


Figure 14: Attach moving arm cap

3. Attach the handlebar to the lower link arm using one M8 x 50 mm buttonhead screw, two M8 washers, and one M8 locknut. Fully tighten the fasteners using the 5 mm hex key and double-ended wrench.

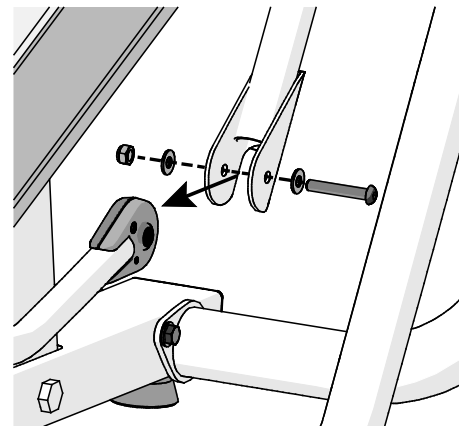


Figure 15: Lower link handlebar attachment

4. Repeat this procedure to attach the left handlebar.

Attaching the Console

Three cables attach to the console.

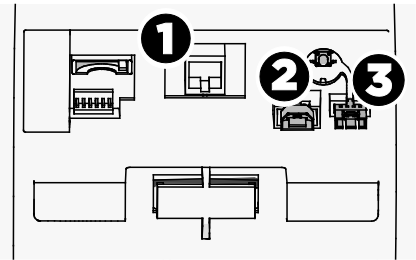


Figure 16: Cable attachments on back of console

Number	Cable or feature
1	Base unit data cable
2	Console ground cable
3	Touch Heart Rate cable

To attach the cables to the console:

1. Ask your assistant to hold the console over the console bracket while you carefully route the following console cables:
 - a. Insert the base unit data cable (1).
 - b. Insert the console ground cable (2).
 - c. Insert the touch Heart Rate cable (3) with the tabs pointing down.

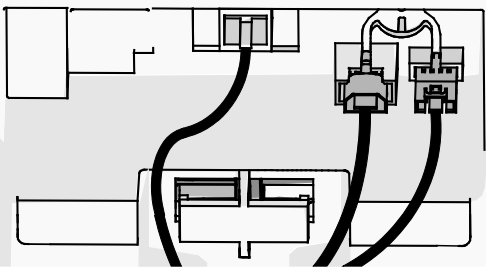


Figure 17: Cable attachment

2. Set the console onto the console bracket. It should sit flush on the bracket without gaps. If there is a gap, check to make sure that no wires are being pinched.

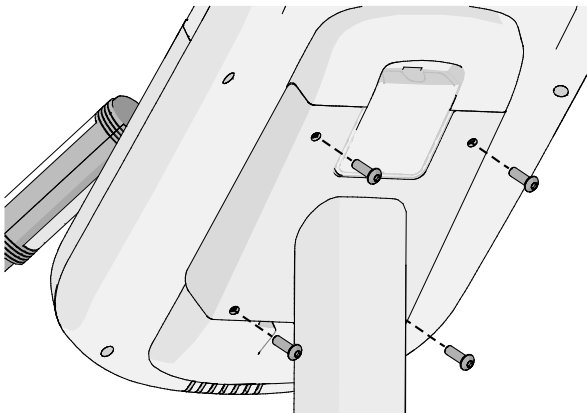


Figure 18: Securing the display console

3. Secure the display console using four 1/4-inch x 3/4-inch buttonhead screws. Fully tighten the fasteners using the 5/32-inch hex key.

Fully Tighten the Remaining Fasteners

Return to the fasteners on the equipment frame that have been partially tightened and fully tighten them.

To fully tighten the remaining fasteners:

1. Start at the base of the stabilizers and tighten all eight screws using a 1/2-inch socket with an extension.
2. If necessary, remove the wedge of packing material placed under the base frame.

Attaching the Bottle Holder

Locate the bottle holder.

To attach the bottle holder:

1. Remove the screw and console bracket end cap using a Phillips-head screwdriver.

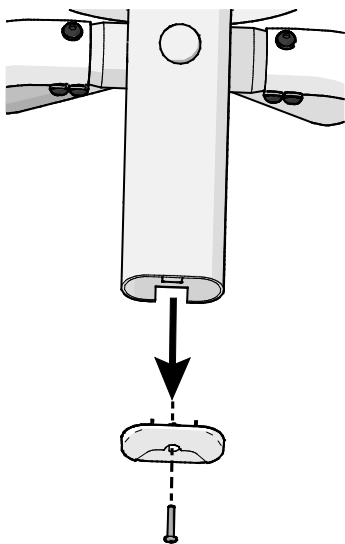


Figure 19: Remove end cap

2. Attach the bottle holder by inserting the tab into the slot in the console bracket. Rotate the bottle holder approximately 45 degrees until tab is fully inserted, and then pivot it downward.

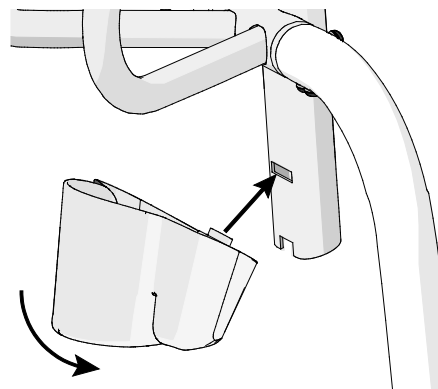


Figure 20: Water bottle positioning

3. Install the end cap into the bottom of the tube and secure it using one Phillips head screw.

Note: You may need to hold down the bottle holder while installing the end cap as the end cap has slight interference and locks the bottle holder in place.

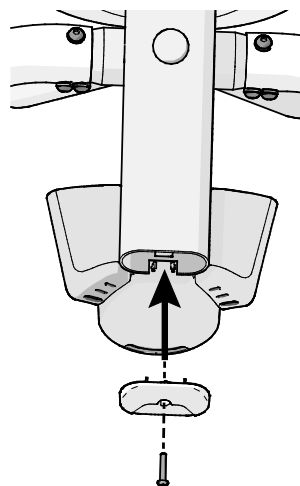


Figure 21: Replacing the end cap

Completing the Assembly

CAUTION: The location of the On/Off switch is beneath the cutout on the base frame. Make sure the power switch is in the Off position. Make sure the power cord is disconnected from its power source.

Connecting the Power Cord

CAUTION: Use the supplied power cord. Do not remove or otherwise bypass the 3-prong plug with an adapter in order to use a nongrounded outlet. Do not plug the EX into a power transformer in an attempt to adjust the voltage requirements. Failure to follow these instructions might damage the unit and will void the Vectra Limited Warranty. If an appropriate cord for your location was not included with your EX, please contact your Vectra dealer for the proper Vectra power cord. For more information on authorized Vectra dealers in your area, please contact Customer Support at www.VectraFitness.net.

To connect the power cord:

1. Insert the power plug connector into its receptacle at the rear of the unit.

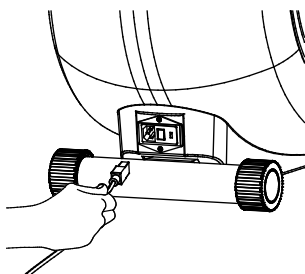


Figure 22: Plug location

2. Plug the other end into a grounded outlet so you can maintain a consistent power source without overloading any other circuitry. Be sure to use the appropriate voltage. Refer to Grounding Instructions in the Owner's Manual.
3. Use the power switch to turn the unit on. Check that the Vectra banner appears on the display. If the display remains blank, recycle the power. If the display continues to remain blank, check the cable connections.

Leveling the EX

Make sure the unit is level before allowing anyone to use it.

CAUTION: To eliminate movement, make sure the adjustable feet are in contact with the floor.

To level the unit:

1. Gently rock the unit. If there is any movement, ask your assistant to tip the unit to one side while you locate the adjustable feet.

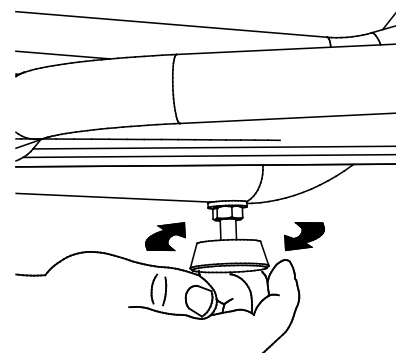


Figure 23: Leveling the EX

2. Correct the height of each adjustable foot as follows.

If you want to ... Then turn the adjustable feet ...

Raise the unit	Counterclockwise
Lower the unit	Clockwise

Important: Place the unit on a flat surface. Rotating the adjustable feet cannot compensate for extremely uneven surfaces.

3. When the EX is level, tighten the lock nut.
4. When you are finished adjusting the EX, place the unit on the floor and recheck that it sits evenly on the floor.



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NOTICE:

Vectra is a leader in creating innovative, award-winning exercise equipment. Our dedication to pushing the boundaries of design and functionality over 25 years has resulted in products that are both visually striking and highly effective. Vectra proudly protects its intellectual property through a robust portfolio of U.S. and international patents, safeguarding the unique mechanical and aesthetic elements of our designs. This commitment ensures that our customers receive the highest quality products and experience. By safeguarding our intellectual property, we maintain the integrity of our brand and continue to develop groundbreaking fitness solutions.



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