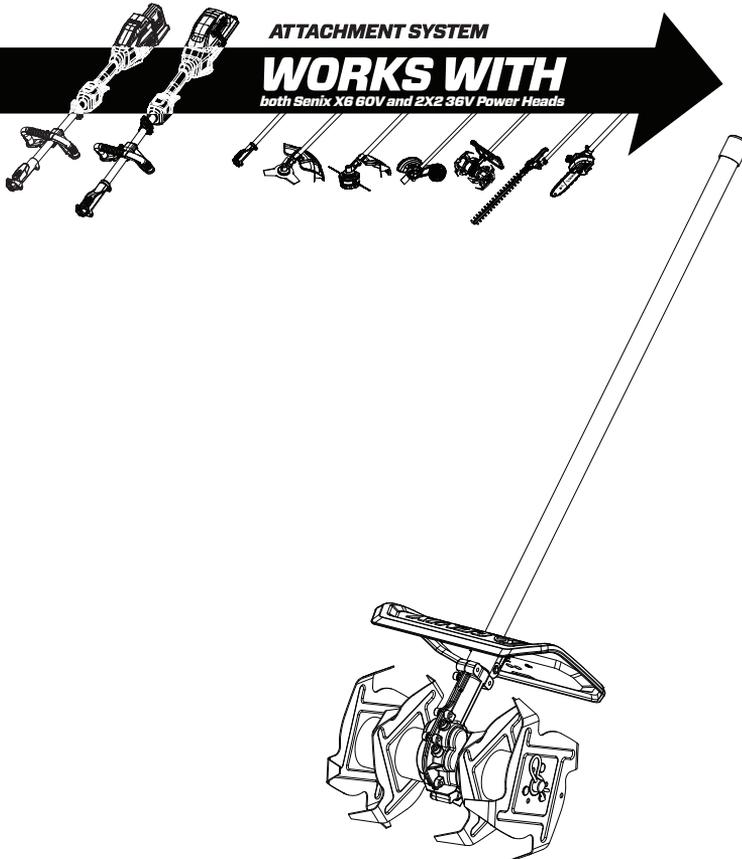




# CULTIVATOR ATTACHMENT



**CAUTION:** Before using this tool, please read this manual completely, and follow all operating safety measures.

- SAFETY
- ASSEMBLY
- OPERATION
- MAINTENANCE

**Senix Australia Pty Ltd.** 32/3 Westside Avenue, #Port Melbourne, Victoria, 3207  
For customer support, please call 1300 461 825 or email us at [info@senixtool.com](mailto:info@senixtool.com)

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## SAFETY & INTERNATIONAL SYMBOLS

The following table depicts and describes safety and international symbols and pictographs that may appear on this product. Read, understand, and follow all instructions on the machine and in the instruction manual for complete safety, assembly, operating, maintenance, and repair information before attempting to assemble and operate.



Caution / Warning.



To reduce the risk of injury, user must read instruction manual.



Wear eye protection.



Wear protective gloves.



Do not expose to rain.



Keep bystanders away from machine.



Keep away from rotating tines. Rotating tines will cause injury.



RCM Mark

# SAFETY INSTRUCTIONS

## IMPORTANT SAFETY WARNINGS

### WARNING!

**When using electric gardening appliances, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, including the following:**

## READ ALL INSTRUCTIONS

- a. **Avoid Dangerous Environment** – Don't use appliances in damp or wet locations.
- b. **Don't Use In Rain.**
- c. **Keep Children Away** – All visitors should be kept at a distance from work area.
- d. **Dress Properly** – Do not wear loose clothing or jewelry. They can be caught in moving parts. Use of rubber gloves and substantial footwear is recommended when working outdoors. Wear protective hair covering to contain long hair.
- e. **Use Safety Glasses** – Always use face or dust mask if operation is dusty.
- f. **Use Right Appliance** – Do not use appliance for any job except that for which it is intended.
- g. **Avoid Unintentional Starting** – Don't carry plugged-in appliance with finger on switch. Be sure switch is off when plugging in.
- h. **Don't grasp the exposed cutting blades or cutting edges** when picking up or holding the appliance.
- i. **Don't Force Appliance** – It will do the job better and with less likelihood of a risk of injury at the rate for which it was designed.
- j. **Don't Overreach** – Keep proper footing and balance at all times.
- k. **Stay Alert** – Watch what you are doing. Use common sense. Do not operate appliance when you are tired.
- l. **Store Idle Appliances Indoors** – When not in use, appliances should be stored indoors in dry, and high or locked-up place – out of reach of children.
- m. **Maintain Appliance With Care** – Keep cutting edge sharp and clean for best performance and to reduce the risk of injury. Follow instructions for lubricating and changing accessories.

Inspect appliance cord periodically, and if damaged, have it repaired by an authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean, and free from oil and grease.

- n. **Check Damaged Parts** – Before further use of the appliance, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other condition that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service center unless indicated elsewhere in this manual.
- o. **Keep hands away from blades.**

## BATTERY EQUIPMENT USE AND CARE

- a. **Prevent unintentional starting. Ensure the power switch is in the off-position before connecting to battery pack, picking up or carrying the appliance.** Carrying the power equipment with your finger on the power switch or energizing the power equipment that has the power switch on may result in personal injury.
- b. **Turn off the power switch and remove the battery pack, if detachable, from the power equipment and/or activate any disabling device before clearing jammed material, making any adjustments, changing accessories, cleaning, or storing power equipment.** Such preventive safety measures reduce the risk of starting the power equipment accidentally.
- c. **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
- d. **Use power equipment only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
- e. **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws or other small metal objects, that can**

**make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.

- f. **Under abusive conditions, liquid may be ejected from the battery; avoid contact.** If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help. Liquid ejected from the battery may cause irritation or burns.
- g. **Do not use a battery pack or equipment that is damaged or modified.** Damaged or modified batteries may exhibit unpredictable behavior resulting in fire, explosion or risk of injury.
- h. **Do not expose a battery pack or equipment to fire or excessive temperature.** Exposure to fire or temperature above 265 °F (130 °C) may cause explosion.
- i. **Follow all charging instructions and do not charge the battery pack or equipment outside the temperature range specified in the instructions.** Charging improperly or at temperatures outside the specified range may damage the battery and increase the risk of fire.
- j. **Have servicing performed by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the product is maintained.
- k. **Do not modify or attempt to repair the appliance or the battery pack (as applicable) except as indicated in the instructions for use and care.**
- l. **Do not expose the battery pack to moisture or rain.** Exposure to moisture or rain may result in fire or electric shock.

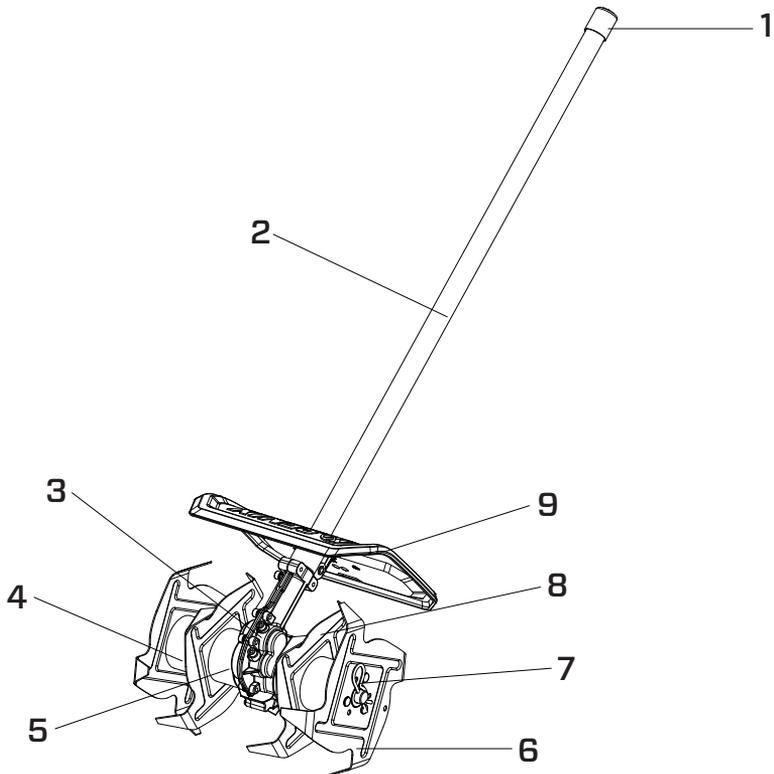
**NOTE: SEE YOUR POWER HEAD INSTRUCTION MANUAL FOR ADDITIONAL SPECIFIC SAFETY RULES.**

## SAVE THESE INSTRUCTIONS

### INTENDED USE

The attachment is only intended for connecting to a power head to loosen and work up the soil in a garden as well as till coarse soil for mixing in fertilizer, peat and compost in domestic areas. Do not use it for other purposes.

# KNOW YOUR UNIT



## APPLICATIONS

Model: ACT002

As a cultivator attachment, used for connecting to a power head to loosen and work up the soil in a garden as well as till coarse soil for mixing in fertilizer, peat and compost in domestic areas.

1	End Cap
2	Cultivator Attachment Shaft
3	Gear Box
4	Outer Sleeve

5	Inner Sleeve
6	Outer Blade
7	Hitch Pin
8	Inner Blade
9	Guard

## SPECIFICATIONS

Model	ACT002
No-Load Speed	230 RPM (Max)
Tilling Width	28 cm
Tilling Depth	15 cm
Pipe Material	Aluminum
Recommended Operating Temperature	-15°C-40°C
Recommended Storage Temperature	-20°C-70°C
Weight (Tool Only)	5.4 Kg
Power Head Matched	PHX2-M-EU PHX6-M-EU

## ASSEMBLY

1. Unpack all parts and lay them on a flat, stable surface:
2. Remove all packing materials and shipping devices, if applicable.
3. The scope of delivery varies depending on the country and purchased variant.
  - Cultivator Attachment x1
  - Hex Wrench x1
  - Instruction Manual x1
4. If you find that parts are missing or show damage do not use the product but contact your dealer. Using an incomplete or damaged product represents a hazard to people and property.
5. Ensure that you have all the accessories and tools needed for assembly and operation. This also includes suitable personal protective equipment.

## WARNING!



Wear protective gloves for this assembly work and always lay the product on a flat and stable surface while assembling.



Follow the assembly instructions step-by-step and use the pictures provided as a visual guide to easily assemble the product!

Do not insert the battery pack before the power tool is completely assembled or adjusted!

## CONNECTING THE CULTIVATOR ATTACHMENT TO THE POWER HEAD

See “INSTALLING /REMOVING AN ATTACHMENT” section in the power head PHX2-M-EU/PHX6-M-EU instruction manual.

## REMOVING THE ATTACHMENT FROM THE POWER HEAD

See “INSTALLING /REMOVING AN ATTACHMENT” section in the power head PHX2-M-EU/PHX6-M-EU instruction manual.

## OPERATION

### WARNING!

Inspect the tool for complete installation. Any missing, damaged or misplaced may cause serious injury.

To reduce the risk of injury to persons, do not operate without guards in place. Wear eye and ear protection, gloves, long trousers and boots at all times while operating the power tool.

## BEFORE OPERATION

1. Check the blade, guard, and hitch pin and replace any parts that are cracked, warped, bent, or damaged in any way.
2. Check if the attachment is well mounted. If not, rotate the attachment shaft until it snaps into place.

3. Inspect the working area and remove all debris and objects that product may throw during cutting.

## SWITCHING ON/OFF

See "SWITCHING ON/OFF" section in the power head PHX2-M-EU/PHX6-M-EU instruction manual.

## DURING OPERATION

### **WARNING!**

To avoid any damage to the cultivator or trees, take care not to catch the blades on large roots of trees. Avoid cultivating too deeply, as this could damage the shallow roots of some plants.

1. Stand in the operating position. Stand up straight. Do not bend over. Keep feet apart and firmly planted.
2. Hold the cultivator with your right hand on the rear handle and your left hand on the front handle.
3. The cultivator should be held at a comfortable position with the rear handle at about hip height.
4. You can work moving the cultivator forward or backward, from left to right, right to left, or in a circular motion. Choose the best method to suit your purpose, which will depend on the shape and size of the area and soil conditions.



Fig. 1

5. Working in an alternating backward and forward motion is particularly suitable for loosening packed soil.
6. When trenching or furrowing, walk slowly backward and pull the cultivator to create the furrow. Repeat as necessary to obtain deeper furrows.

7. Position yourself so that you will not be drawn off balance by the kickback reaction of the cutting blade.
8. Avoid glass, rocks, stones, concrete, fencing, wire, wood, metal, walls and other objects which can cause blade thrust or break the blade.

### **NOTE:**

Pulling the cultivator carefully toward you while it is digging into the soil will reduce your effort and make the tilling easier.

### **NOTE:**

Inspect the blade regularly and do not operate the cultivator with a worn or damaged blade.

## AFTER OPERATION

1. Clean the product after each use.
2. Replace the blade regularly to maintain full cutting width and performance.
3. To prevent blockage, keep the blade clean. Remove grass clippings, leaves, dirt and any other accumulated debris before and after each use.
4. When blockage happens, stop the machine and remove the battery. Then remove any grass that may have wrapped itself around the motor shaft or the blade.

## MAINTENANCE

### **WARNING!**

Remove the battery pack from the power head, and then disconnecting the attachment from power head before performing cleaning, transporting, storing and other maintenance work!

Only perform cleaning and maintenance work according to these instructions! Any additional maintenance or repairs must be performed by a qualified specialist using genuine replacement parts.

Always wear protective gloves to reduce the risk of injury.

## REPLACING THE BLADE

### **WARNING!**

A worn, cracked, or damaged blade can break and pieces of the damaged blade can become dangerous projectiles. Thrown objects can cause serious injury.

### **NOTE:**

The cultivator has four blades - blade A, B, C and D. Blade A and B should be mounted to the left of the gear box. Blade C and D should be mounted to the right of the gear box. The blade B and C that have tines facing in both directions must be mounted on the inside, closest to the gear box.

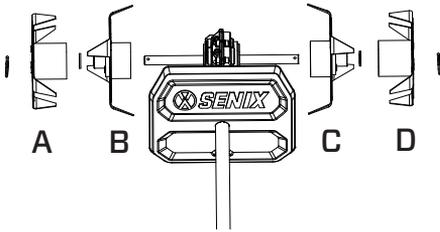


Fig. 2

### **NOTE:**

The correct mounting order is to mount the inner blade B or C first, and then mount the outer blade A or D on the same side. For correct operation of the cultivator, the blades must be mounted in the correct orientation.

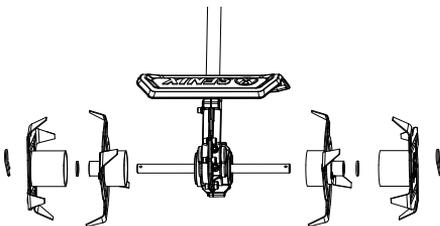


Fig. 3

- Remove the battery pack from the power head. Disconnecting the attachment and power head.

- Turn over the tool with right side against the ground.
- Lift the hitch pin, then remove it from the locking hole.

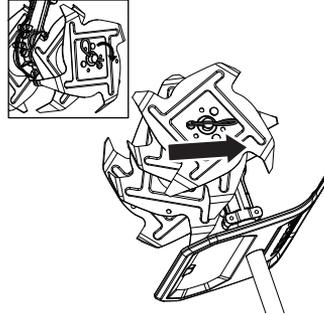


Fig. 4

- Then remove the worn blades and washer from the drive shaft.
- Mount the new inner blade B, which has tines facing in both directions, to the left of the gear box. The side with inner sleeve should face inward.
- After mount the washer, mount the new outer blade A on the same side. The side without outer sleeve should face outward, with the outer sleeve against the inner blade.

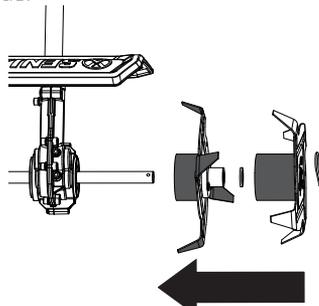


Fig. 5

- To secure the blade to the drive shaft, insert the hitch pin into the locking hole. Fold the hitch pin flat against the blade.

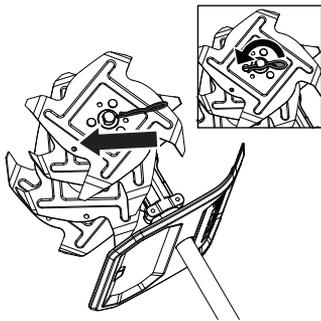


Fig. 6

- Turn over the tool with the newly mounted blade resting against the ground.
- Remove the worn blades, then mount the new blades C and D to the right of the gear box as described above.
- Re-check if the blades are mounted in the correct order. Adjust them if you had mounted in wrong order.

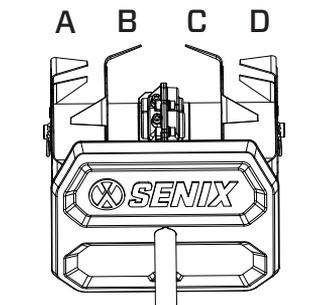


Fig. 7

## CLEANING

- Wear gloves. Clean the pieces of roots, clogged soils or plants on the blade, guard or the gear box.
- Wipe the machine surface with a cloth. It is highly suggested that you clean the device after each use.
- Keep the blade and guard free of debris, clogged soils and grass after each use.
- Dry the cutting blade to prevent rust. Keep the blade sharp to retain a good cutting performance.



## NOTE:

Do not use strong detergents. Household cleaners that contain aromatic oils such as pine and lemon, and solvents such as kerosene, can damage plastic.

## TRANSPORTATION

- Clean the unit as described above before transportation.
- Cover the blade to avoid personal injury during transporting.
- Secure the product to prevent it from slipping or falling over.
- Protect the product from any heavy impact or strong vibrations which may occur during transportation in vehicles.

## STORAGE

- Clean the unit as described above before storage.
- Store the product and its accessories in a dark, dry, frostfree, well-ventilated place. The ideal storage temperature is between 50°F (10°C) and 86°F (30°C).
- Do not store the product under sunlight and accessible to children.
- Make sure the product is always protected from cold and humidity.
- Protect your unit from dust by a suitable cover.

## DISPOSAL



This marking indicates that this product should not be disposed with other household wastes throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return and collection systems or contact the retailer where the product was purchased. They can take this product for environmental safe recycling.

## TROUBLESHOOTING

Suspected malfunctions are often due to causes that the users can fix themselves. Therefore, check the product using this section. In most cases the problem can be solved quickly.

Problem	Possible Cause	Solution
Product does not start.	Battery pack not properly attached.	Remove from product and reattach.
	Battery pack power too low.	Remove and charge battery pack.
	Battery pack damaged.	Have the product repaired by a qualified service.
	Safety switch is not turned on.	Refer to chapter "SWITCHING ON/OFF".
Product does not reach full power.	Battery pack power too low.	Remove and charge battery pack.
	Excessive wearing of motor fan.	Have the product repaired by a qualified service.
Unsatisfactory cutting performance.	Cutting attachment is worn.	Replace with a new blade.
Excessive vibration or noise.	Cutting system damaged.	Have the product repaired by a qualified service.
	Nuts/screws are loose.	Tighten nuts/screws.
Product suddenly stops.	Battery pack power too low.	Remove and charge battery pack.
	Battery/power head too hot.	Remove battery pack and let the tool cool down.
	Battery pack is disconnected from the machine.	Re-install the battery pack.
	The blades are jammed.	Remove the battery from the power head, manually rotate the blades back and forth to remove the stones or other obstacles between the blades or between the blade and the gear box.