

***XHD Lithium  
Cordless Line  
Trimmer 36V (2x  
18V) - Bare Tool***

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**TSC13**

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**OPERATORS MANUAL**



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### Note

This manual is for your reference only. Due to the continuous improvement of the XHD Lithium products, changes may be made at any time without obligation or notice.

### Thank You

For the purchase of this XHD Lithium product. We try our hardest to supply customers like you with the best quality products available, at the best price possible. We cant wait to continue working together in the future.



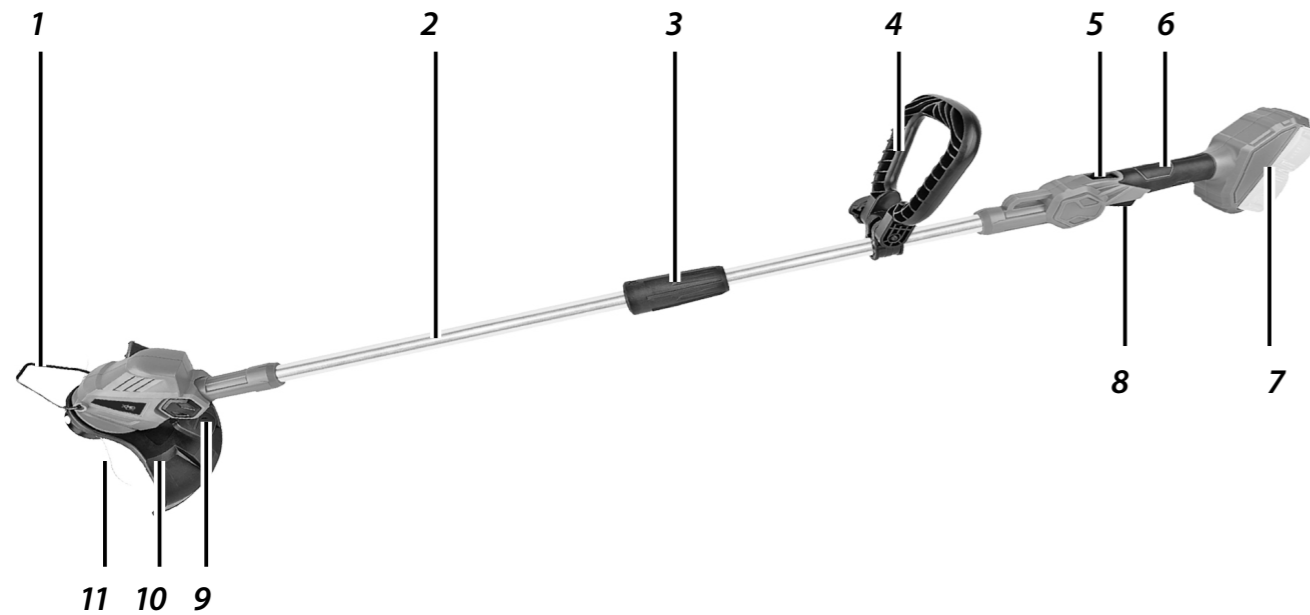
## SPECIFICATIONS

<b>Rated Voltage</b>	2x 18V DC
<b>No Load Speed</b>	9000 RPM
<b>Cutting Path</b>	290mm
<b>Cutting Line Diameter</b>	1.5mm
<b>Battery Pack Voltage</b>	18V DC
<b>Battery Cell</b>	3.0Ah   5.0Ah Li-Ion
<b>Net Weight</b>	3.8kg

### Intended Use

Always use the right tools. The cordless grass trimmer is only intended for cutting grass and light weeds. It should not be used to cut or trim hedges, bushes, or other vegetation where the cutting plane is not parallel to the ground surface.

## PRODUCT IDENTIFICATION



- 1 Bumper Guard
- 2 Lower Shaft
- 3 Knob
- 4 Front D-Handle
- 5 Lock-Out Trigger
- 6 Rear Handle
- 7 Battery Slot
- 8 Variable Speed Trigger
- 9 Head Pivoting Button
- 10 Grass Deflector/Guard
- 11 1.5mm Cutting Line

## SAFETY GUIDELINES

### **WARNING**

*READ ALL SAFETY WARNINGS & INSTRUCTIONS. Failure to follow instructions and warnings could lead to serious injury, electric shock, or fire.*

### **Work Area Safety**

- **Ensure that your work area is kept clean and well lit.** Lack of visibility and clutter greatly increase the risk of accident when using tools.
- **Keep bystanders, pets, and children clear when operating this power tool or machine.** They can cause distraction or risk injury to themselves.
- **Ensure you are not operating the power tool or machinery in the presence of dust, liquids, flammable gases, or anything that can create an explosive atmosphere.** Power tools and machinery can create sparks which can lead to ignition and fire hazards in working environments.

### **Personal Safety**

- **Always wear personal protective equipment (PPE).** Eye protection, ear protection, dust masks, and other protective equipment will help to reduce the risk of personal injury or long-term illnesses.
- **Dress appropriately. DO NOT wear loose clothing that can get caught in moving parts.** Keep hair, loose clothing, jewellery, and anything else that could be of risk, away

from moving parts in the machine, or they could become caught therein.

- **Always remain alert and DO NOT operate power tools or machinery under the influence of any substances such as alcohol or drugs, including prescription medications.** Lack of focus could lead to injury or accidents while operating these power tools and machinery.
- **Always ensure proper footing and balance.** Overreaching can lead to slipping and falling which can result in injury or accident.
- **Ensure the power switch is in the OFF position before connecting any battery, or power source to the power tool or machinery.** This can cause injury as tools and machinery can suddenly fire incidentally when live, causing accidents.
- **Use all provided dust collection and extraction attachments, if included.** This equipment, along with the use of PPE dust masks, can help keep you safe from dust inhalation, and keep your work site clear from hazards.
- **Ensure loose parts such as wrenches or adjusting keys are removed before starting the power tool or machinery.**




## SAFETY GUIDELINES

### Power Tool & Machinery Use & Care

- **Use the correct tool for the job.** Forcing a tool to do a job it was not designed for increases the risk of accident or injury.
- **Disconnect tools and machinery from power, or remove batteries before doing any maintenance or adjustments, or before storing the tools and machinery.** This reduces or removes the risk of a power connection that causes the tool or machinery to accidentally fire, which can help prevent injury or accident.
- **Check the general condition of the power tool for damage or any problems that could affect the way the tool or machine works.** An unrepaired tool or machine can lead to accident and injury. Only have your tool or machine repaired with genuine parts from your local distributor
- **Only use the power tool and machinery with genuine parts or accessories that are designed to be used with this power tool and machinery.** Failure to do so could result in accident or injury, or damage your tool or machinery.
- **Store your tool or machinery out of reach of children, and away from untrained personnel when not in use.** Use by somebody untrained, or a child, could lead to accident or serious injury.

### Service

- **Have your tools and machinery serviced by your local distributor with genuine XHD Lithium replacement parts.** This will ensure that the safety of the power tool or machine is maintained.

 **WARNING**

*The warnings and precautions discussed in this manual cannot cover all possible conditions and situations that may occur. It must be understood by the operator that common sense and caution are factors which cannot be built into this product, but must be supplied by the operator.*

### Always Use Common Sense

- It is not possible to cover every conceivable situation you can face. Always exercise care and use your common sense. If you get into a situation where you feel unsafe, stop and seek expert advice. Contact your dealer, service agent, or an experienced user. Do not attempt any task you feel unsure of!
- **Do not let familiarity gained from the frequent use of tools allow you to become complacent and ignore tool safety principles.** A careless action can cause severe injury within a fraction of a second.



## SAFETY GUIDELINES

### Battery Tool Use & Care

- Prevent unintentional starting. Ensure the switch is in the OFF position before connecting to the battery pack, picking up, or carrying the machine. Carrying the machine with your finger on the switch or energising a machine that has the switch ON invites accidents.
- Disconnect the battery pack from the machine before making any adjustments, changing accessories, or storing the machine. Such preventive safety measures reduce the risk of starting the machine accidentally.
- Recharge the battery 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.
- Use machines only with specifically designated battery packs. Use of any other battery packs may create a risk of injury and fire.
- When the battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws, or small metal objects, that can make a connection from one terminal to another. Shorting the battery terminals together may cause burns or a fire.
- Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush the area with water. If liquid contacts eyes, seek medical help. Liquid ejected from the battery may be acidic and may cause irritation or burns.
- Do not use a battery pack or machine that is damaged or modified.

fied batteries may exhibit unpredictable behaviour resulting in fire, explosion, or risk of injury.

- Do not expose a battery pack or machine to fire or excessive temperature. Exposure to fire or temperature above 130°C may cause explosion.
- Follow all charging instructions and do not charge the battery pack or machine outside of the temperature range specified in the instructions.
- Charging the battery improperly, or at temperatures outside of the specified range may damage the battery and increase the risk of fire.
- Have servicing performed by a local XHD distributor repair person using only identical replacement parts. This will ensure that the safety of the product is maintained.
- Do not modify or attempt to repair the machine or the battery pack except as indicated in the instructions for use and care.

### Battery Long Life Tips

- Charge the battery cartridge before it is completely discharged. Always stop tool operation and charge the battery cartridge when you notice less tool power.
- Never recharge a fully charged battery cartridge. Overcharging shortens the battery service life.
- Charge the battery cartridge with room temperature at 10°C – 40°C. Allow a hot battery cartridge to cool before charging it.
- Charge the battery cartridge once in every six months if you do not use it for extended periods at a time.

## SAFETY GUIDELINES

### Line Trimmer Specific Safety

- Never use while people, especially children, or pets are nearby.
- While cutting, always wear substantial footwear and long trousers. Do not operate the appliance when barefoot or wearing sandals.
- Inspect and clear the area of any foreign objects, such as stones, sticks, wires, bones, etc., before using the appliance.
- The small blade fitted to the lawn guard is designed to trim the new extended line to the correct length for safe and optimum performance. It is very sharp, do not touch it, particularly when cleaning the tool.
- Before use, check the nylon head and bolts assembly for wear or damage, and replace them together for balance.
- Always ensure that ventilation openings are kept clear of debris.
- Before use and after any impact, check that there are no damaged parts. A defective switch or any part that is damaged should be properly repaired or replaced by your local XHD distributor.
- Make sure the cutting head attachment is properly installed and securely fastened.
- Make sure all guards, deflectors, and handles are properly and securely attached.
- Do not modify the product in any way, this may increase the risk of injury to yourself or others.
- Immediately switch off and remove the battery pack in the event of accident or breakdown. Don't operate the product again until it has been fully checked by an authorised service centre.

### Risk Reduction

It has been reported that vibrations from hand-held tools may contribute to a condition called Raynaud's Syndrome in certain individuals. Symptoms may include tingling, upon exposure to cold. Hereditary factors, exposure to cold and dampness, diet, smoking and work practices are all thought to contribute to the development of these symptoms. There are measures that can be taken by the operator to possibly reduce the effects of vibration:

- Keep your body warm in cold weather. When operating the product, wear gloves to keep the hands and wrists warm. It is reported that cold weather is a major factor contributing to Raynaud's Syndrome.
- After each period of operation, exercise to increase blood circulation.
- Take frequent work breaks. Limit the amount of exposure per day.
- If you experience any of the symptoms of this condition, immediately discontinue use and see your doctor about these symptoms.



### WARNING

*Injuries may be caused, or aggravated, by prolonged use of a tool. When using any tool for prolonged periods, ensure you take regular breaks.*

## BEFORE USE

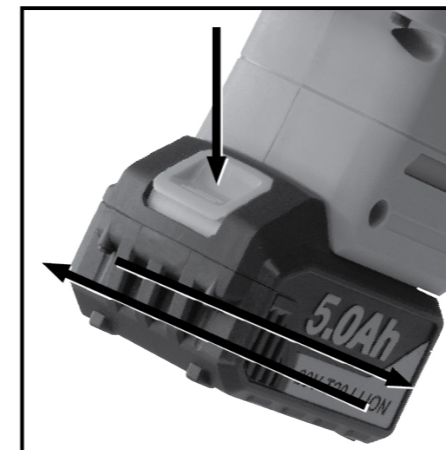


### WARNING

*Always be sure that the tool is switched off and the battery cartridge is removed before adjusting or checking the tool.*

### Installing or Removing the Battery

- To remove the battery cartridge, slide it from the tool while depressing the button on the front of the cartridge.
- To install the battery cartridge, align the tongue on the battery cartridge with the groove in the housing and slip it into place. Insert it all the way until it locks in place with a little click. If you can see the red indicator on the upper side of the button, that means it is not locked completely.



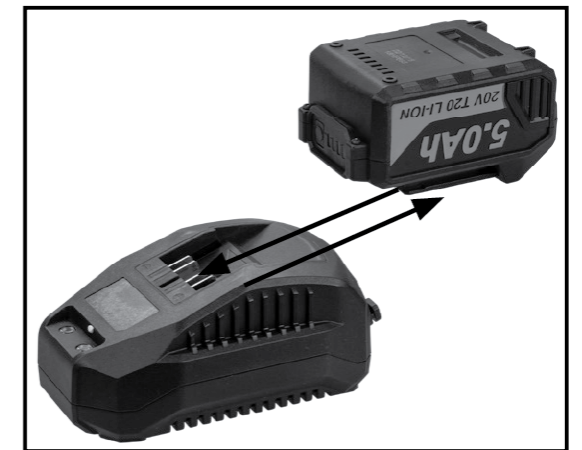
### CAUTION

*Do not install the battery cartridge forcibly. If the cartridge does not slide in easily, it is not being inserted correctly.*

### Indicating the Remaining Battery Capacity

- Press the check button on the battery cartridge to indicate the remaining battery capacity. The indicator will light up for few seconds.

**NOTE: Depending on the conditions of use and the ambient temperature, the indication may differ slightly from the actual capacity.**



INDICATOR LAMPS			REMAINING CAPACITY
LIGHTED	OFF	BLINKING	
■	□	▣	75% to 100%
■	■	□	50% to 75%
■	□	□	25% to 50%
■	□	□	0% to 25%
▣	□	□	Charge the Battery.
■	■	□	The Battery may have Malfunctioned
□	□	■	

## ASSEMBLY

### Tool/Battery Protection System

- The tool is equipped with a tool/battery protection system. This system automatically cuts off power to the motor to extend tool and battery life. The tool will automatically stop during operation if the tool or battery is placed under one of the following conditions:

#### Overload Protection

- When the tool/battery is operated in a manner that causes it to draw an abnormally high current, the tool automatically stops without any indication. In this situation, turn the tool off and stop the application that caused the tool to become overloaded. Then turn the tool on to restart.

#### Overheat Protection

- When the tool/battery is overheated, the tool stops automatically. In this situation, let the tool/battery cool before turning the tool on again.

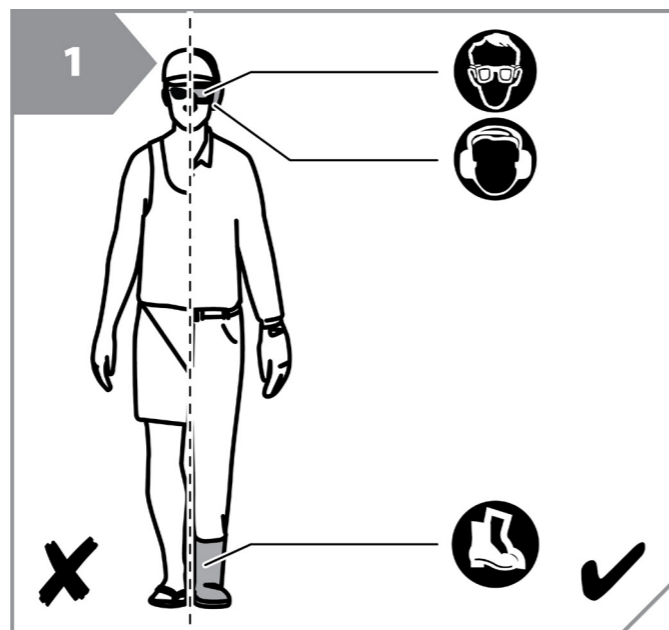
#### Over Discharge Protection

- When the battery capacity is not enough, the tool stops automatically. In this case, remove the battery from the tool and charge the battery.



### CAUTION

*Before installing the battery cartridge into the tool, always check to see that the switch trigger actuates properly and returns to the "OFF" position when released.*

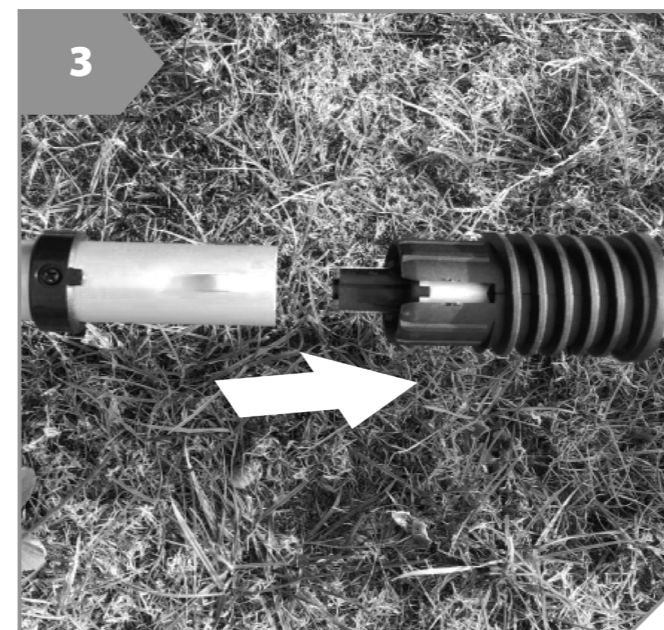


- Always wear safety goggles or safety glasses with side shields when operating the product. Wear non-slip, heavy-duty protective gloves. Wear non-skid, protective footwear that will protect your feet and improve your footing on slippery surfaces.



- Secure the safety guard to the trimmer head with the three supplied screws, using a screwdriver.

## ASSEMBLY



- Attach the Lower Shaft (2) to the Connection Knob (3) in the centre of the unit.

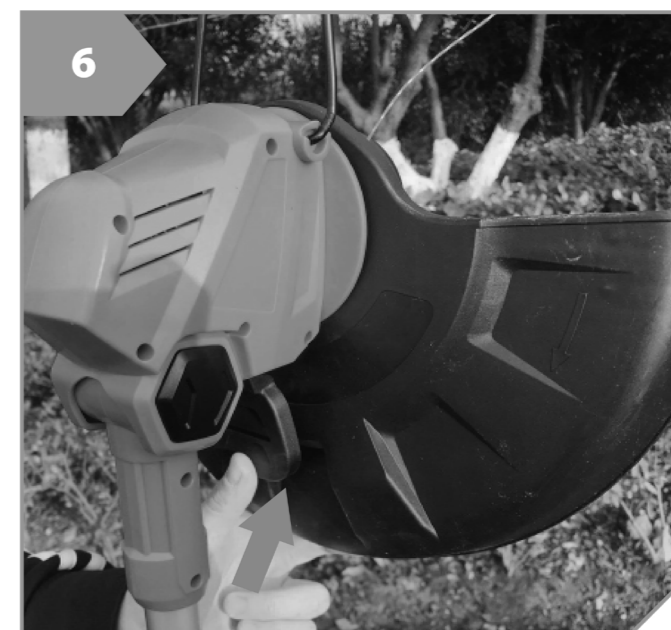


- Rotate the knob until both sections are tightly secured.



- Attach the Front D-Handle (4) to the upper shaft.

**NOTE: The angle of the front handle can be adjusted 180°.**



- The button on the trimmer head is situated for easy access to change the trimmer head angle while on the move.

## ASSEMBLY



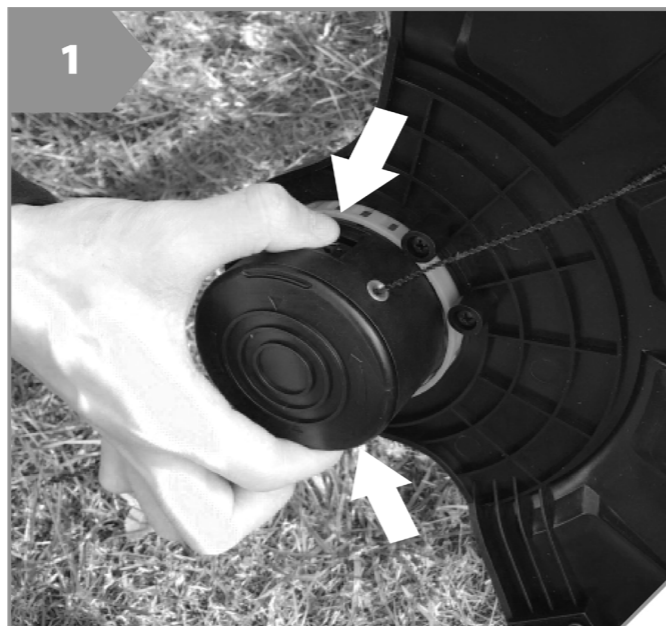
- Depress the button and push the trimmer head forward or back to the desired angle.



- Insert 2x XHD 3.0Ah or 5.0Ah batteries into the Battery Slot (7).

### Replacing the Spool

- Remove the batteries from the tool prior to commencing.



- Push the slider on the side of the spool retainer.

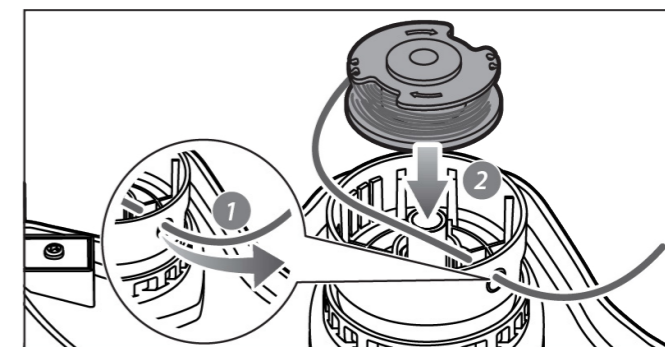
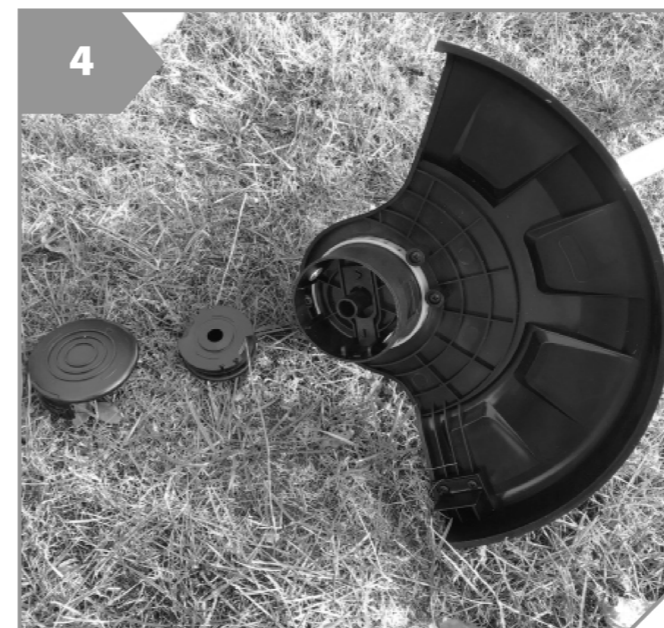


- Remove the Spool Cover.

## ASSEMBLY



- Remove the Spool.



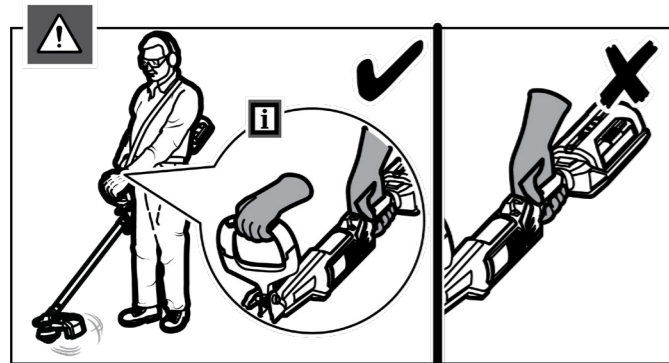
- Thread the line of the new spool through the eyelet. Install the new spool with the line and slot aligned with the eyelet in the string head. Push the slider, and pull the line extending from the string head.
- Reinstall the spool cover until the spool cover latch clicks into place.

## OPERATION

### Operating the Line Trimmer

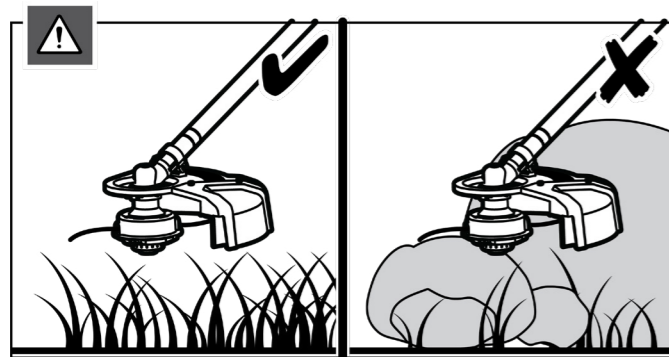
#### **WARNING**

Always use two hands to operate the tool. Hold the product with one hand on the rear handle and the other hand on the front handle.



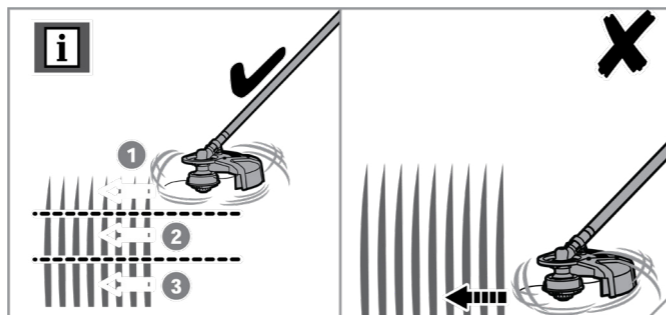
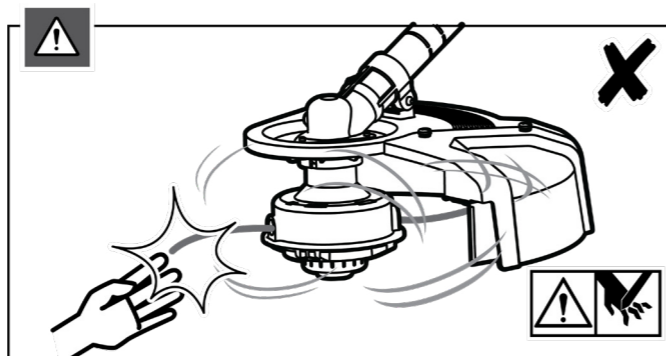
#### **WARNING**

Beware of objects thrown by the cutting means. Remove debris like small stones, gravel, and other foreign objects from the work area before starting operation. Wires or string may become entangled with the cutting means.

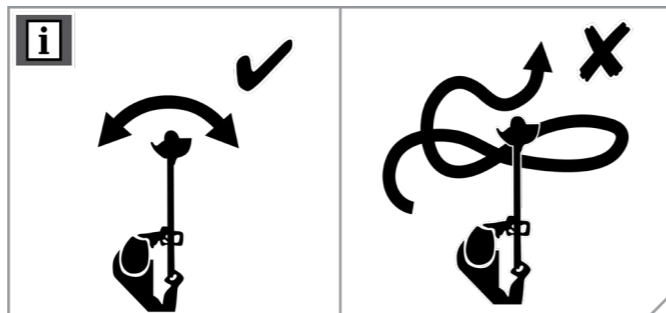


#### **WARNING**

Exercise extreme caution when using the product. Keep hands and feet away from the cutting means.



- Cut tall grass from the top down. This prevents grass from wrapping around the shaft housing and bump head, which may cause damage from overheating.

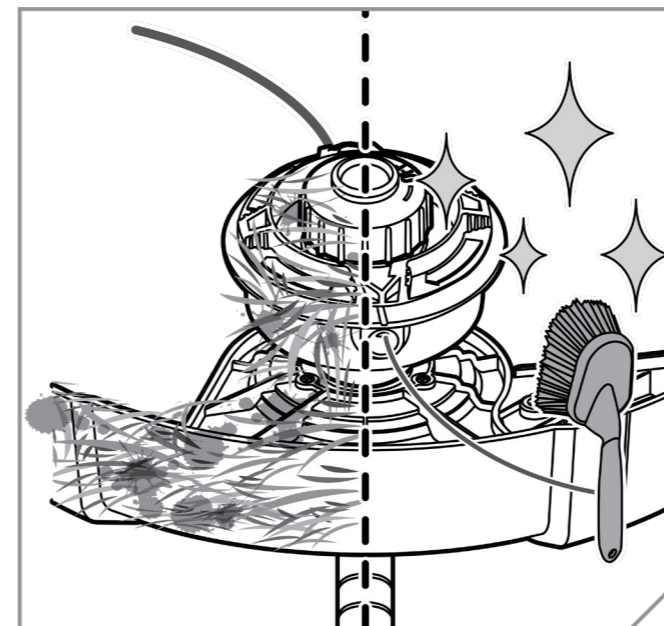


- Cut grass from the right side to the left side for cutting ease and safety.

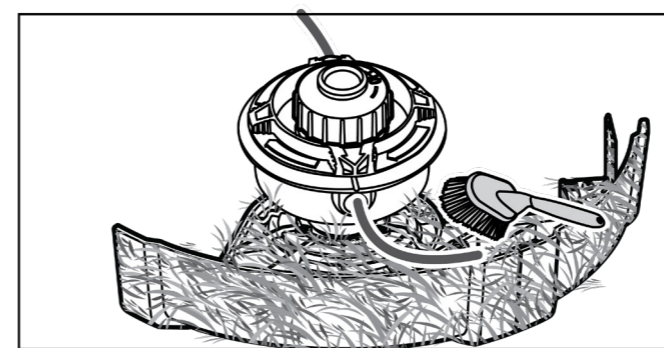
## MAINTENANCE

### Cleaning the Tool

- Remove the batteries from the tool prior to commencing.

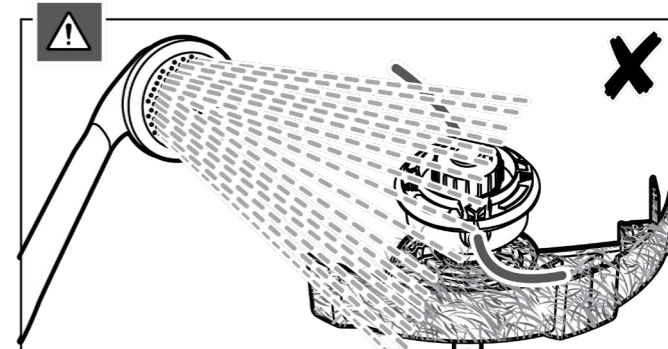


- Remove all foreign material from the product with a soft, dry brush.



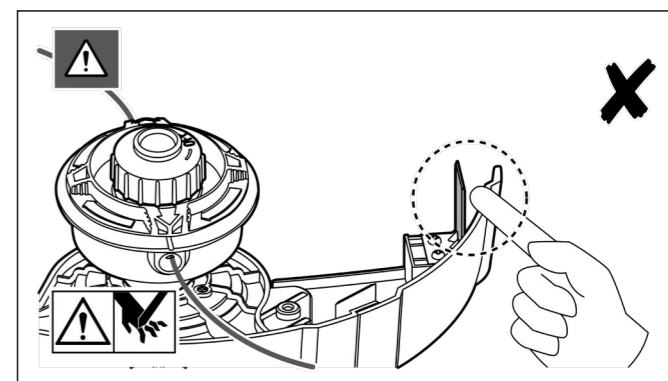
#### **WARNING**

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use.



#### **WARNING**

The small blade fitted to the safety guard is designed to trim the newly extended line to the correct length for safe and optimum performance. The blade is very sharp. Do not touch the blade, particularly when cleaning the product.



# MAINTENANCE

- Before cleaning or performing any maintenance, you must ensure the tool is switched off and disconnected from the power supply.
- Compressed air is the most effective way to clean this tool. Always wear PPE safety goggles when cleaning tools with compressed air.
- Ventilation openings and switch levers must be kept clean. DO NOT attempt to clean by inserting pointed objects through openings.
- Do not use harsh chemicals or solvents when cleaning this tool.
- If you discover any damaged or broken parts, consult your local XHD distributor for replacements and advise.

## Battery Disposal

- Batteries and electronics should not be disposed of in household garbage. Please return your old batteries to your local distributor for safe and environmentally friendly disposal.
- Together, we can care for the environment.

## Environment & Disposal

- Packaging materials are raw materials and can be re-used. Separate the different packaging materials and take them to the appropriate waste disposal facility. More information can be obtained from your local authorities.
- Old machines do not belong in your household garbage! Dispose of old machines appropriately, we are all responsible for the environment.

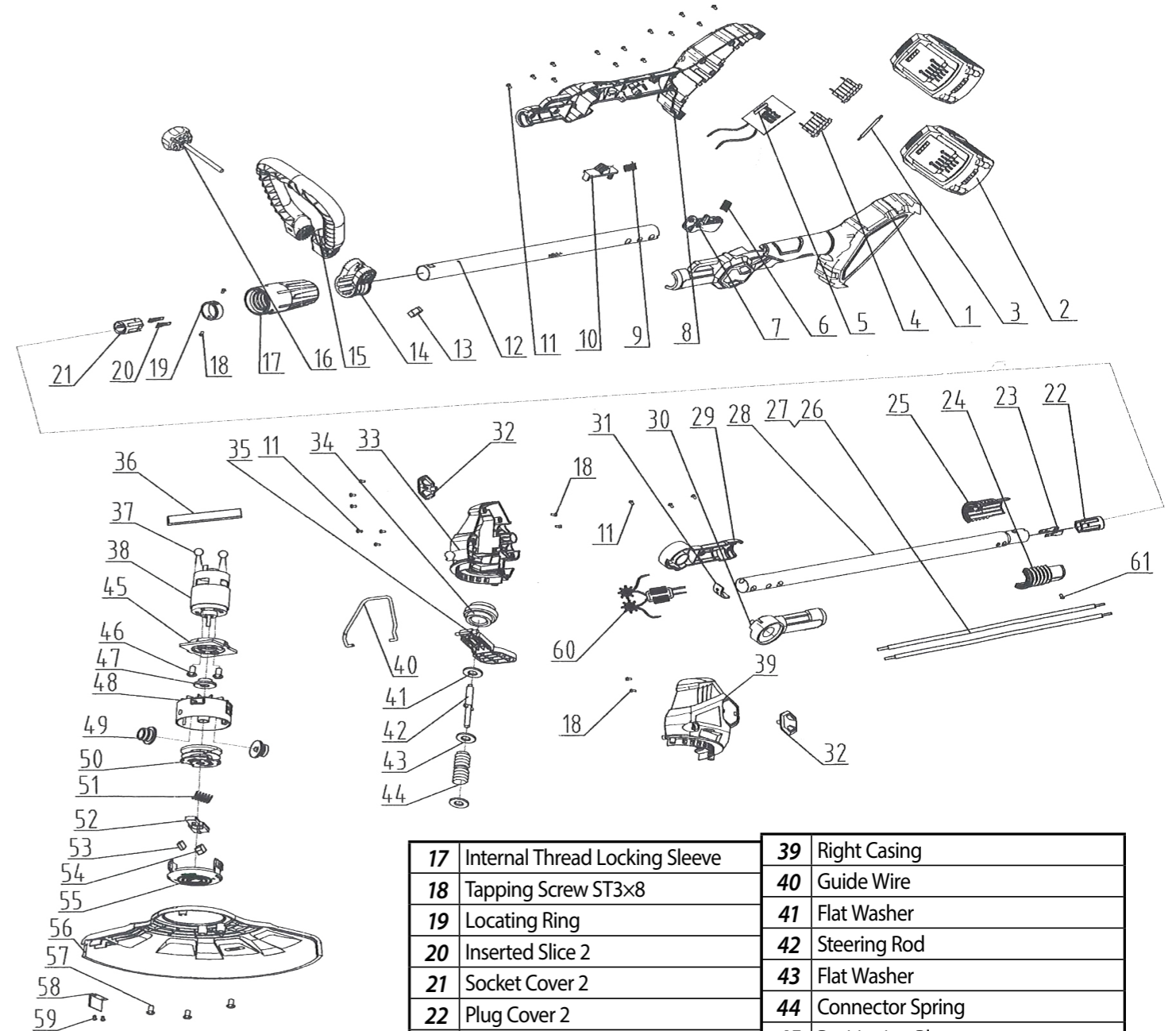
## WARNING

**Always be sure that the tool is switched off and the battery removed before attempting to perform any inspection or maintenance.**

## Transport & Storage

- Stop the product and allow it to cool down before storing or transporting. Do not store or transport the product with batteries fitted, remove and secure separately.
- Clean all foreign material from the product. Store it in a cool, dry, and well-ventilated place that is inaccessible to children. Keep away from corrosive agents such as garden chemicals and de-icing salts. Do not store outdoors.
- For transportation in vehicles, secure the product against movement or falling to prevent injury to persons or damage to the product.

# TSC13 EXPLODED VIEW & PARTS LIST



1	Left Handle	17	Internal Thread Locking Sleeve	39	Right Casing
2	Battery Pack Spare Parts	18	Tapping Screw ST3x8	40	Guide Wire
3	VDE 0.75mm <sup>2</sup>	19	Locating Ring	41	Flat Washer
4	18V Integrated Chip Holder	20	Inserted Slice 2	42	Steering Rod
5	Machine Control Panel	21	Socket Cover 2	43	Flat Washer
6	Switch Trigger Spring	22	Plug Cover 2	44	Connector Spring
7	Switch Button	23	Inserted Slice 1	45	Positioning Plate
8	Right Handle	24	Outer Thread Right Locking Sleeve	46	Cup Head Screw M5x10
9	Self-Locking Push Block Spring	25	Outer Thread Left Locking Sleeve	47	Motor Shaft Sleeve
10	Self-Locking Block	26	VDE 0.75mm <sup>2</sup> (Red)	48	Fan Blade (With Clamp Pieces)
11	Tapping Screw ST3.5x14	27	VDE 0.75mm <sup>2</sup> (Black)	49	Coil
12	Upper Pipe	28	Lower Pipe	50	Eye Of The Coil
13	Hex Nut M6	29	Left Connector	51	Slider Spring
14	Secondary Handle Holder	30	Right Connector	52	Automatic Slider
15	Secondary Handle	31	Adjusting Piece	53	Counter-Balancing Mass1
16	Secondary Handle Knob	32	Left & Right Decorative Cover	54	Counter-Balancing Mass2
		33	Right Casing	55	Screw Cap
		34	Guide Sleeve	56	Shield
		35	Pedal	57	Tapping Screw ST4.2x12
		36	Sponge Mat	58	Blade
		37	Multiplayer Ceramic Chip Capacitors	59	Tapping Screw ST4.2x8
		38	887 Electromotor	60	Inductance Component
				61	Tapping Screw ST4x16