

RAZOR



INSTRUCTION BOOKLET

Introduction

These instructions must be read by any person intending to use or maintain this machine.

Purpose of use

This equipment is expressly designed and intended for use for the shearing of sheep, goats and animals of the Camelidae family.

All maintenance should be carried out by suitably trained personnel

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Safety Information

Improper use or incorrect set up of this sheep shearing machine can lead to serious injury.



It is advised that any person using this machine attend a sheep shearing training course to ensure correct usage of this machine.

Adequate protective clothing should be worn at all times whilst shearing.

You should be aware of sharp objects and moving parts, in particular the cutter.

The shearer should check the wool for any foreign objects before starting shearing.

Always remove the battery from the machine when it is not in use, when undergoing essential set up and/or maintenance.

The machine should be used in a tidy, dry environment.

BATTERY & ELECTRICAL SAFETY

Warning: to reduce the risk of electric shock, do not expose this charging unit to rain or moisture.

- Charge only on a 220-240 volt AC 50 Hz electricity supply.
- Use machine only with a 11.1 volt battery.
- Only use genuine batteries designed for this machine.
- Use a 3 amp fuse in the charging unit.
- Don't insert a damaged plug into a socket.
- Check the machine battery for defects before use. Never use damaged batteries.
- Do not use charger if the electric cable is damaged or if the charger has been in contact with water.
- Keep your batteries out of direct sunlight and away from naked flames.
- Never attempt to open the battery.

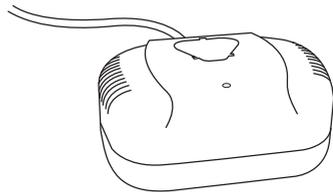
For optimum lifespan store batteries at full charge for longer than 24 hours, if they are to be stored for longer time periods discharge to around 50% capacity.

Charging Your Batteries

To remove the battery to recharge it, simply squeeze the clips securing the battery to the machine and pull.

Sit the charging unit on a flat, dry, solid surface and plug it into the power socket.

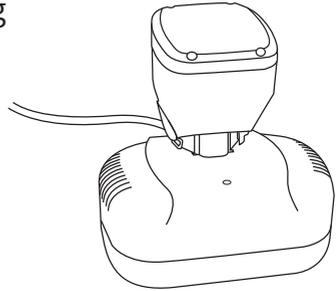
A green, LED light will appear, this indicates that the charging unit is connected to the power outlet correctly and is ready to use.



CHARGING BATTERIES

Ensure that the battery is clean and free from any foreign objects before inserting it into the charging unit.

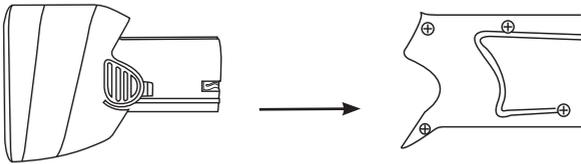
Position the battery into the charging unit, once this is done the green light will change to red, indicating the battery is charging.



Once the battery is fully charged, the red light will turn to green.

Remember that when you are not using the machine the battery must be disconnected.

When it is time to use the machine, connect the battery by pushing it into the machine until the clips are securely fixed on both sides.



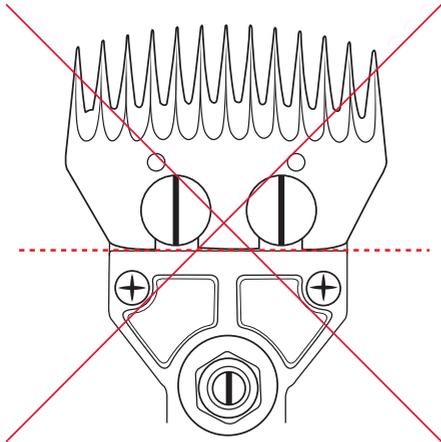
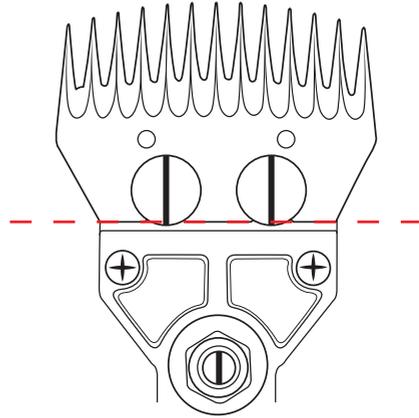
COMB & CUTTER SET UP

Positioning Your Comb and Cutter

Before you start, ensure the comb screws and tension knob are slack.

Hold the machine so that you are looking at its under side and so you can clearly see both comb screws.

Place your comb in the machine so that the sharp side faces the forks and adjust the comb until the heel is level with the back edge of the comb screws.



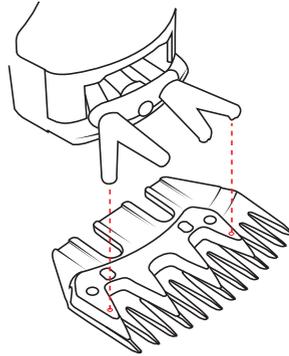
DO NOT position the heel of the comb to the back of the comb bed.

Tighten the comb screws finger tight, holding the comb in place. Not too tight, you may need to adjust this further.

COMB & CUTTER SET UP

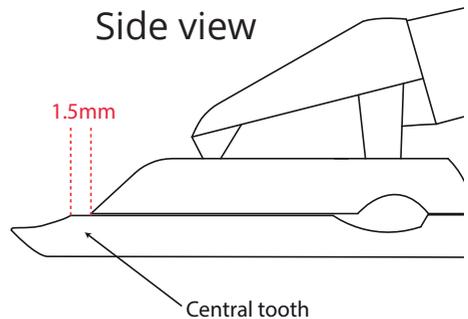
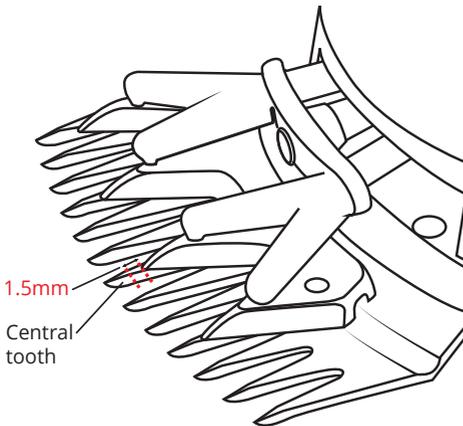
Turn over the machine and place your cutter onto the comb. The sharpened sides of both the comb and cutter should face each other. Locate the cutter onto the conical pins on the forks.

Secure the cutter by turning the tension knob clockwise. Apply enough tension to secure the cutter.



Setting the Lead

Adjust the comb so that as the cutter travels over the comb's central tooth, at least 1.5 mm of the comb tooth's flat ground surface is clear of the cutter's tip.



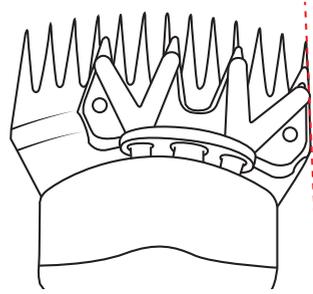
Finally, firmly tighten the comb screws.

COMB & CUTTER SET UP

Setting the Throw

It is normal for the clipper forks to lock in position either side of the throw.

Whichever side the forks are positioned at, this is the side you will set the throw from. If the forks are positioned in the centre, push your forks to the right if you are right-handed, or to the left if you are left-handed.



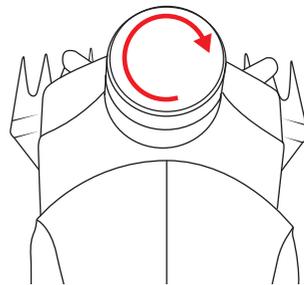
Adjust the comb so that the outside edge of both the comb and cutter align. Firmly tighten the comb screws and then turn the tension knob clockwise to apply tension and secure the cutter in place.

Setting the Tension

Tighten the tension knob by turning it clockwise.

Too little tension causes 'feathering' which compromises the quality of the cut.

Too much tension will cause the comb and cutter to overheat, resulting in your combs and cutters becoming blunt faster.



Comb and Cutter Usage

Never tighten the tension when the comb or cutter starts to become blunt, this will damage your equipment. When your combs and cutters do start to go blunt, change them.

Once blunt, you should have your combs and cutters sharpened on a specialist grinder.

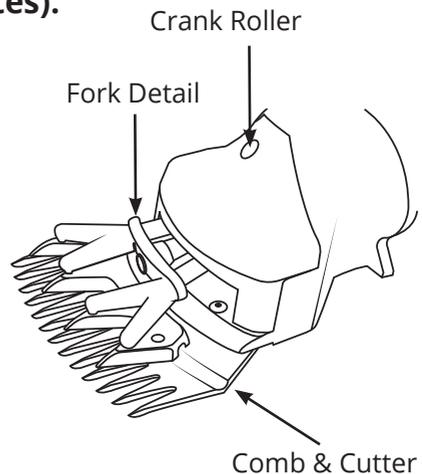
For professional shearers the recommended cutter to comb ratio is three cutters to one comb. However, we advise that general farm shearers can lower that ratio to 2:1.

Lubrication

Only use specialised shearing oil to keep your machine lubricated.

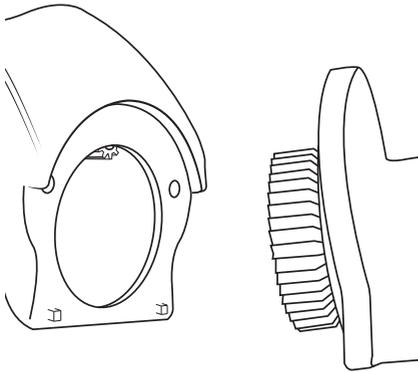
Before shearing commences you should prepare your machine by oiling every oil point indicated on the diagram below. We recommend oiling these points on every cutter change (**approximately 20 minutes**).

- Lack of oiling causes the head to overheat and causes excessive wear.
- Inadequately oiled combs and cutters will get hot and go blunt quickly.



GREASING POINTS

We recommend that you grease the points indicated below before you commence shearing and check your machine daily.



Drive Gears

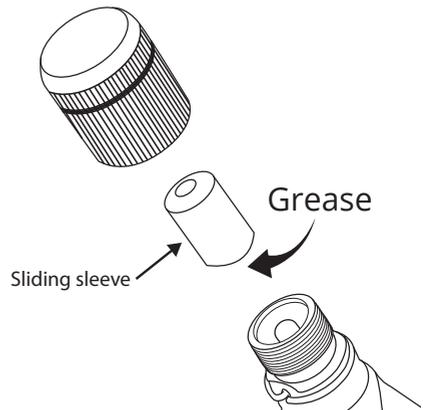
To apply grease to the drive gears, the head will have to be removed from the body by unscrewing the two Phillips head screws.

Sliding Sleeve

Pack the sliding sleeve with grease. To do this, remove the tension knob by twisting anti-clockwise. Lift fork detail, remove the sliding sleeve and pack the hollow area with grease.

DO NOT grease inside the tension knob, as this will cause the machine to vibrate and lose tension when shearing.

DO NOT grease the outside of the sliding sleeve, instead apply a small amount of shearing oil.



TROUBLESHOOTING

PROBLEM	DIAGNOSIS	SOLUTION
Machine not cutting correctly	Comb and cutter not set correctly in machine	Refer to set up page 6 - 9
	Comb and cutter incorrectly sharpened	Have your combs and cutters professionally sharpened
	Not enough tension on comb & cutter	Re-set tension
	No rise in sheep's wool	Leave sheep longer or select a different style of comb
Cutter not sitting in position	Forks worn (conical pins)	Replace forks. This is best done in pairs
Comb not staying in position	Comb screws are worn or not tightened properly	Replace comb screws
Forks falling out of fork detail	Tension link spring broken	Have tension link spring replaced
Machine not tensioning/comb and cutter losing tension	Fork detail and sliding sleeve worn	Replace fork detail and sliding sleeve
	Tension lock ring damaged, worn or stuck	Replace tension lock ring
Machine vibrating excessively	Tension link spring worn or broken	Have tension link spring replaced by trained technician
	Post nut and post loose	Tighten the nut and post. If damaged, replace the nut and post
Normal charging does not start when the battery is inserted into charging unit	Battery terminal dirty	Clean the terminals
	Charging unit terminals dirty	Clean the charging terminals
	Battery is faulty	Replace battery
	Electronics are defective	Notify customer service

Machine & Battery Specifications

Machine	Motor power	200w
	Cut speed	2,800 RPM
	Running time (approx)	1 hour (per battery)
Battery	Type	Li-Ion
	Voltage	11.1V
	Charging time	2 hours

*Running time will depend on clipping and battery conditions.

The logo for RAZOR features the word "RAZOR" in a bold, black, sans-serif font. The letter "Z" is stylized with a thick, green, brush-stroke-like texture, giving it a dynamic and energetic appearance. The "Z" is positioned between the "A" and the "O", and its strokes extend slightly above and below the baseline of the other letters.