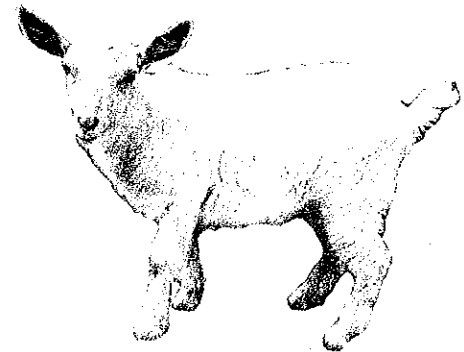




Operating Instructions

## DC ANIMAL HAIR CLIPPER



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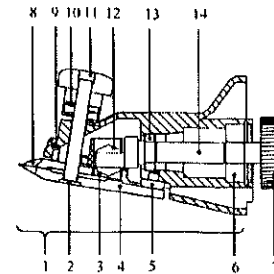
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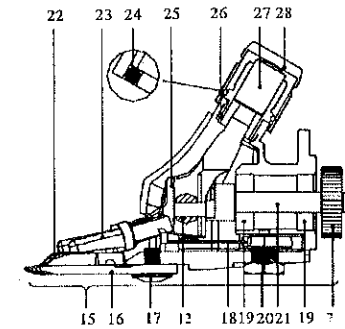
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## 1 Proper Use

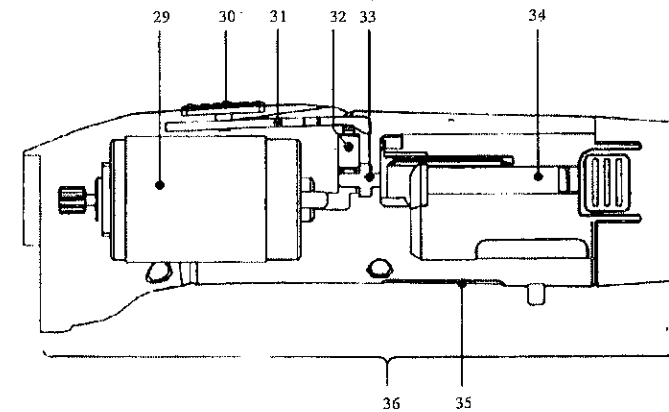
### 1.1 Overall View / Controls



Horse clipper head-L



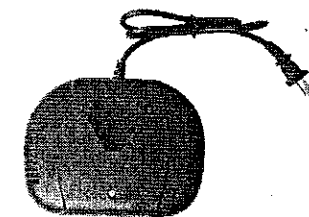
Sheep clipper head-S



Main body



A-battery



B-battery pack

## Component Names

1	Horse clipper head-L	13	Bearing	25	Driving carrier
2	Blade screw	14	Crank spindle-L	26	Lid Bush
3	Driving carrier	15	Sheep clipper head-S	27	Sliding Sleeve
4	Front blade-L	16	Comb	28	Tension Nut
5	Rubber pad	17	Blade Fixing Screw	29	Motor
6	Bearing	18	Tension-Ind Spring	30	ON / OFF Switch
7	Gear	19	Bearing	31	Switch bar
8	Back blade-L	20	Screw	32	Switch
9	Idler wheel	21	Crank Spindle -S	33	Machine contacts
10	Spring	22	Cutter	34	Battery or Linker
11	Tension knob	23	Pressure yoke/prong	35	Label
12	Steel ball	24	Tension lock Spring	36	Main body

## 1.2 Intended Use

The clipping machine is exclusively intended for use on big animal. For example cattle, horse, camel, goats and so on.

Other uses, in particular using the machine on people, are expressly prohibited.

Note: Danger of blockage! The machine must not be operated unless the blades are fitted.

## 1.3 Technical Data

### Shearing Machine

Model Designation: DC Clipper

Clipper head type: L , S .

Power supply : A---Battery

Technical data: See label on the machine.

### Charger

Model Designation: SL-08

Charging current: 3A

Weight: 320g

Charging time: ~ 1hr at 20°C ambient temperature

Max. Ambient Temperature: approx. 0°C - 30°C

Max. Air Humidity: 10% - 90% (relative)

Mains Voltage: see label on the charger

## Battery

Type:	Li-ion 12V
Storage	
Temperature:	0° – 30° C
Air Humidity:	10% – 75% (relative)
Operating (charging/discharging)	
Temperature:	10° – 30° C
Air Humidity:	10% – 75% (relative)

## 1.4 Equipment Items

- 1 Clipping Machine with Clipper Head
- 1 Screwdriver
- 1 Bottle of Special Lubricating Oil
- 1 Cleaning Brush
- 1 Set of Operating Instructions
- 1 Transport and Storage Case

### Choice parts:

- Battery
- Charger
- Linker
- DC wire
- Comb

## 2 Safety Regulations

### 2.1 Introduction

This section describes the mandatory safety regulations which must be observed when using the clipping machine.

**All persons undertaking work on or with the machine have an obligation to read the operating instructions.**

**The operating instructions must be kept safely in the storage case and accessible at all times.**

### 2.2 Symbols and Warning Signs

Various symbols are used in the operating instructions. They refer to potential dangers or point to technical information, the non-observance of which will lead to personal injury, damage to objects or inefficient operation.

#### Danger Symbols



#### Warning

indicates a potentially dangerous situation. If preventive action is not taken, death or very serious injury could result.



#### Caution

indicates a potentially dangerous situation. If preventive action is not taken, the

consequences could be slight or minor injuries.

## Information Symbols



### Note

Note, non-compliance with which can lead to operating malfunctions or damage.



### Pictorial Note

This symbol, together with its number, refers to the relevant illustration at the end of the instructions.

### 2.3 Proper Use

The use to which the machine is intended for is described in Section 1.2.

The following applies to safe operation:



The details at Section 1.3, "Technical Data", count as mandatory operating limits and ratings.

Clipping other animals, in particular dangerous animals such as beasts of prey and the like, counts as mis-use. This could lead to circumstances dangerous to life and limb.

The appliance is not intended for use by young children or infirm persons. If used with a cord extension device or portable outlet device, ensure such devices are positioned so as not to be subjected to splashing or ingress of moisture.

## 2.4 Safety Principles

### 2.4.1 Power Connections



Only insert the plug into undamaged sockets. Defective installations can cause an electrical shock or a short circuit. Outside sockets must be equipped with a fault current breaker (FI). Observe the relevant national regulations.

Never leave the machine unsupervised with a battery inserted or the charger with the lead plugged in. Keep children away from the working area and store the machine and charger out of their reach.

Only use undamaged, charged batteries as well as a charger in perfect working order. Observe the relevant national regulations.

Take the battery out of the machine when servicing and cleaning and disconnect the charger from the mains.

Remove the battery from the charging cavity when the charger is not connected to the mains.

Place the battery charger out of the reach of children on a firm, level, dry, clean and open surface, protected from damp and rain.

Ensure that a good connection has been made between charger and battery. For clipping, ensure that the batteries are properly secured by the snap closure.



### 2.4.2 Servicing and Checking Requirement

Only operate the clipping machine if it is undamaged and in a proper condition. If a fault is discovered with the housing, battery, charger or the electrical cable, it must be rectified by a repair and service centre.

### 2.4.3 Personal Protective Equipment

#### Wear Protective Goggles and Gloves!



For your personal protection we recommend that you wear protective goggles and gloves.



Personal protective equipment is to be provided by the operator.

### 2.4.4 Other Dangers

Should evidence of dangers or potential dangers, not directly related to the clipping of animals, occur during operation, we would ask you to inform us. This also applies to dangerous technical deficiencies.

### 2.5 Essential Operator Skills

Operating the machine safely makes only small demands of the operator. However, it is essential that they are observed and carried out.

- The operator must be experienced in handling the animals to be clipped.
- The operator must have read and understood the instructions or have been instructed by an expert in the machine's use and have had the potential dangers explained.

Children are not permitted to operate the equipment.



## 3 Putting into operation

### 3.1 Controls and Operating Notes



There are dangers inherent in the improper use of electrical equipment, especially stockbreeding equipment! Therefore, before using the machine, you should observe the following accident-prevention measures:

- Only the prescribed charger may be used. The voltage shown on the charger's label must coincide with that of the mains supply. In case of doubt contact a specialist.
- Only original batteries may be used.
- The charger and the battery must not be exposed to direct sunlight and dampness even during charging.
- Avoid touching any machine which is in contact with any liquids. Never clip wet animals. Any liquid which has got into the machine will lower the electrical insulation. There is then the danger of an electric shock or short circuit. Only clean the machine when dry using a brush or the cleaning brush provided.
- The battery must only be charged at a temperature of 10°C to 40°C. Lower



temperatures can cause dangerous overcharging.

- The ambient temperature around the battery may not exceed 40°C (direct sunlight, fire, etc.) since this could cause the battery to explode.
- Prevent metal and inflammable objects, etc. from penetrating the ventilation slots on the charger since this can lead to electric shocks, damage and to the charger catching fire.
- Directly after the battery has run down (clipping), there should be a pause of 15 minutes before recharging so that the battery can cool down.
- Never short-circuit the battery. A short-circuit produces overheating through the excess current. The battery can burn out or suffer other damage.
- Only charge up fully discharged batteries otherwise they will lose capacity. The battery may only be discharged by running the clipping machine, i.e. run the clipping machine until the machine switches itself off.
- Before starting to work, check that the battery has been correctly inserted.
- Never wrap the power cable around the charger and keep the power cable away from hot surfaces and objects. This may result in breaks and damage to the insulation. The cable should be regularly checked for damage.
- Switch the machine off before inserting or removing the battery.
- Batteries which can no longer be charged will damage the charger and must be replaced.
- Faulty or used-up batteries must be handed in to the purchasing point or to an official disposal centre.
- Opening up or incinerating the battery is prohibited. This can lead to severe caustic injury or injury from explosion. Observe the warning notes on the battery.
- Wear suitable work clothes. Do not wear any loose fitting clothing or items of jewellery which could get caught up in moving machine parts.
- Never insert any object into any of the machine's or the charger's apertures.
- Avoid all contact with the moving clipper blades.
- Noise from the machine can worry animals. Considerable injury can be caused as a result of being kicked by an animal or being crushed by its body weight. Tether the animal securely, approach it from in front and switch the machine on within the animals' range of vision.
- Animals should only be clipped if unauthorised persons have been excluded from the clipping area.
- Only clip in well-ventilated spaces (dust) and never near objects or gases likely to explode.
- Danger of blockage! The machine must not be operated unless the blades are fitted.



These safety notes must be complied with in all cases. It is recommended that a fault current safety plug always be used when working with electrical equipment.

### 3.2 Charging the Battery

In all cases observe Section 3.1, "Controls and Operating Notes".

New batteries or those which have not been used for a long time, and/or those at temperatures below 10°C will not yet be at full capacity. This is because of the way the battery functions and does not indicate a fault. Full working capacity will be reached again after the battery has been discharged and recharged a few times.

Plug in the mains plug and insert the battery into the charger from above without using any force. Check for clean contact surfaces/charging cavity.

If, after clipping, the battery becomes heated by external influences (sunlight, ambient temperature or the like), it may be that the battery cannot be charged (red charging light will not light up; If this happens, first let the battery cool down).

The red control light will be lit during the charging process. If the control light does not light up, check all contact surfaces and charging apertures for dirt and foreign bodies. If the control light still does not light up, a malfunction has occurred which can only be rectified by a specialist.

As soon as the battery is fully charged (charging time approx. 1hr), the green control light will light up and the charger will switch to "trickle charge".

Once charging is complete, hold the charger firmly with one hand and pull the battery out with the other. Disconnect the charger from the mains.

### 3.3 Inserting and Removing the Battery

Check the contact points on the machine and the battery for foreign bodies and dirt.

Switch the machine off before inserting or removing the battery.

Fully insert the battery into the shearing machine. Do not apply force to insert the battery. The battery should slide easily into the machine; if not, there is a fault.

To remove the battery, unlock the snap closure and pull the battery out of the machine.

### 3.4 Setting the Clipper Blades with the Adjusting Screw


Before putting into operation, make adjustments as follows:

#### Before clipping:

With the machine switched off, tighten the adjusting screw until the first resistance is noticeable. Then tighten the adjusting screw a further 1/4 turn.


### During clipping:


The patent clipping system guarantees long-term adjustment. When the blades cease clipping adequately the adjusting screw should be tightened a further 1/4 turn. If this adjustment does not produce the desired result, the clipper blades should be resharpened.

 The clipping system works with much less pressure having to be applied than with traditional animal clipping machines. Care should be taken, to ensure that the blade tension is not set too high. Slightly adjust the blade tension from time to time during clipping.

Hair may collect between the clipper blades if they are insufficiently tensioned at the start of clipping. This will have an adverse effect on further clipping progress or make it quite impossible. If this happens, the clipper blades must be disassembled, cleaned, oiled and re-fitted as described at 4.2.

### 3.5 Lubrication Before and During Clipping

 A thin layer of oil on the upper and lower blades is essential for good clipping results and so as to increase the life of the machine and its clipper blades. All other moving parts in the clipper head must also be well-oiled. Place a few drops of oil on the clipper blades and pour some into the lubricating holes provided on the clipper head. Only use our special oil or a paraffin oil meeting the ISO VG 15 specification. This oil is nontoxic and produces no irritation on contact with the skin or the mucous membranes. This paraffin oil degrades to some 20% after 21 days (CEC-L-33-T-82).

 Poor lubrication is the most frequent cause of unsatisfactory clipping results. Inadequately oiled clipper blades will overheat, leading to reduced blade life. The clipper blades and clipper head must be adequately lubricated during clipping (at least every 15 minutes) so that they do not run dry.

### 3.6 Switching On / Off

The switch has two positions. When the switch is first pushed forward, the machine is switched on. To switch the machine off, push the switch backward.

Always check the switch position before inserting the battery, the machine must be switched off.

### 3.7 Malfunctions

The machine possesses an electrical overload and total discharge protection. If the machine switches itself off during operation, this may be due to one of the following causes:

1. The clipping tension has been set too high and/or the blades are insufficiently oiled. Reduce the clipping pressure and oil the blades regularly so that they do not run dry. If you still do not get a satisfactory clip, have the clipper blades resharpened by a specialist workshop.
2. The clipper head is jammed. Remove the blockage.
3. So as to protect the battery from a damaging total discharge, the machine will switch itself off when the battery is flat. The battery must then be recharged. Switch off the machine in the event of 1, 2 or 3. After rectifying the cause, the machine can be used again as usual.

See the list of malfunctions in Section 5, "Repairs", for the rectification of malfunctions.

## 4 Servicing



The charger is maintenance-free. Before cleaning, pull the charger's plug out and remove the battery from the machine.

### 4.1 Cleaning Cleaning the Clipper Head and Clipper Blades


After clipping, remove all oil from the machine by rubbing it down with a dry cloth and carefully clean the clipper head and clipper blades with a dry brush. Then oil the parts to prevent rusting. Even the smallest rust spots on the blades can adversely affect clipping or make it completely impossible.


### Cleaning the Charger and Battery

Only clean the charger and battery with a dry cloth or a cloth slightly dampened with soapy water (not dripping wet).

Do not use any solvents since they can damage the charger and the battery.


### 4.2 Fitting the Clipper Blade

 A pair of clipper blades consists of a lower blade and an upper blade. When fitting the blades care should be taken to ensure that the correct surfaces come to rest against each other. The blades are fitted as follows:

 Loosen the pressure adjusting screw and place the machine on a hard surface so that the blade fixing screws lie uppermost.

Loosen the two blade fixing screws and remove the two old blades.

Ensure that the new clipper blades are clean. Particular care should be taken to ensure that the ground surfaces are free of dirt; if not, even newly ground clipper blades will not clip satisfactorily.

 Place the new upper blade in the guide points of the driving carrier; then place a few drops of oil on the ground surfaces. Now push the new lower blade between the loosened screws.

What is now important is that you adjust the blades against each other in such a

way that the ground surface of the lower blade projects approx. 1.5 -2.0 mm beyond the tips of the upper blade.

Once you have adjusted the clipper blades, set the position of the lower blade and tighten up the blade fixing screws.

### 4.3 Resharpener the Clipper Blades

Only work with sharp clipper blades. Replace blunt blades or those with missing teeth. Proper resharpener can only be done with a special machine and by a trained technician contactable through your service centre.

### 4.4 Storing the Clipping Machine

Only store the machine and charger in a dry place and in the case supplied. Do not switch on the machine if you suspect any liquid has got into it. There is then a risk of an electric shock or short circuit. Hand the clipping machine into a service centre.



Make it a habit to store the machine between use, store it well-cleaned, oiled and with tension slackened off, in its storage case, in a clean, dry place, out of the reach of children.

## 5 Repairs

### 5.1 Introduction

Actions to be taken to rectify malfunctions are indicated in the "Rectification" column of the malfunction lists. Those rectification notes printed on a dark background may only be carried out by an authorised service centre.

Details of authorised service centres are to be found at the end in the "Contact Addresses" section.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.



### 5.2 Malfunction Lists

Contact an authorised service centre in the event of malfunctions not contained in these instructions.

### Clipper Head

PROBLEM	CAUSE	SOLUTION
Front blades move too little	Crank drive block lost	Replace crank drive block
	Springs completely broken	Replace laminated springs on both sides
	Crank drive block and/or crank spindle are worn out (inadequate lubrication)	Replace crank drive block Have crank spindle replaced
Front blade does not move	Faulty cogwheel	Replace cogwheel
Pressure adjustment screw jams	Thread is faulty or rusty	Clean and oil thread
	Pressure spring has jammed	Have pressure spring replaced
There is play in the springs in the head anchorage	Fixing screws loose	Tighten fixing screws
Driving carrier has too much play	Springs and/or fixing screws are worn out	Have springs and/or fixing screws replaced
Driving carrier can only be moved up and down with difficulty	Centring bush lost	Have new centring bush fitted
Cuts badly or not at all	Clipper blades are blunt	Have front and back blades resharpened
	Clipper blades have not been correctly ground	
	Clipper blades are not oiled	Oil clipper blades every 5 minutes
	Clipping tension too low	Increase pressure by tightening clockwise
	Laminated springs are broken	Have laminated springs replaced
	The coat is wet	Only clip when dry
	Hairs jammed between front and back blades	Take blades off. Clean, refit blades & oil. Reset tension.
	Too much play in clipper head	Have clipper head inspected
	Spacing between front and back clipper blades incorrectly adjusted	Adjust spacing correctly

## Motor Section / Charger / Battery

MALFUNCTION	CAUSE	SOLUTION
Motor does not run	Battery flat	Charge battery
	Contacts dirty	Switch machine off and clean contacts.
	Smell of burning from the motor housing. Motor burned out	Have motor replaced
	Switch without contact	Have switch replaced
	The wire or linker without contact	Contact the wire or linker
Motor runs very slowly	Battery flat	Charge battery
	Wrong type of battery	Only use original batteries
Running time of a fully charged battery is too short and/or motor gets hot	Clipping tension too high	Reduce clipping tension and, if necessary, have blades resharpened
	Blades and clipper head were inadequately oiled	Oil blades and clipper head
	Flat, not fully charged or faulty battery being used	Only use intact, fully charged original batteries
	Faulty battery	Replace battery

## 6 Environmental Protection and Disposal

### 6.1 Introduction

The owner has a duty to dispose of the clipper blades as well as of the clipping machine properly at the end of its service life.

Faulty or used-up batteries must be handed over to the sales point or to an official disposal centre.

Please observe your relevant national regulations.

### 6.2 Material Categories

Please hand the machine to a service centre or to a specialist electrical dealer in your vicinity for disassembly.

Material	contained in items
ABS	30/31/24
Polyamide	3/11/36
Iron/Steel	2/4/6/7/8/9/10/12/13/14/16/17/18/
	19/20/21/22/23/24/25/26/27/28
Copper	29
Aluminium	1/15
Other materials	5/32/34/35

