

Sheep shearing machine

Translation of the original instructions



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1 IMPORTANT SAFEGUARDS

DANGER

Commercial Clipper. When using an electrical appliance, read all instructions before use.

To reduce the risk of electric shock:

- ▶ Do not reach for an appliance that has fallen into water. Unplug immediately.
- ▶ Do not place or store appliance where it can fall or be pulled into a tub or sink.
- ▶ Do not place in or drop into water or other liquid.
- ▶ Unplug this appliance before cleaning, putting on, or taking off parts.
- ▶ Keep unit dry at all times.

CAUTION

Commercial Clipper. When using an electrical appliance, read all instructions before use.

To reduce the risk of burns, fire, electric shock, or injury to persons:

- ▶ An appliance should never be left unattended when it is plugged in (except for charging).
- ▶ Close supervision is necessary when this appliance is used by vulnerable persons.
- ▶ Use this appliance only for its intended use as described in this manual. Do not use attachments not recommended by the manufacturer.
- ▶ Never operate this appliance if it has a damaged cord or plug, if it is not working properly, if it has been dropped or damaged, or dropped into water. Return the appliance to a service center for examination and repair.
- ▶ Keep the charger cord away from heated surfaces.
- ▶ Never drop or insert any object into opening.
- ▶ Do not use this appliance with a damaged or broken comb or blade, as cut or scratched skin may result.
- ▶ Do not wrap cord around unit when storing. Continuous stress on the charger cord can damage cord insulation and result in a shock hazard.
- ▶ Avoid contact with moving blades.
- ▶ To disconnect, move the on/off switch to “OFF”, then remove plug from outlet.
- ▶ During use, do not place or leave the appliance where it is expected to:
 - ◆ subject to damage by animal, or
 - ◆ exposed to weather.
- ▶ This appliance is for clipping and trimming animals only.
- ▶ Avoid tangling or kinking the cord while clipping. Should the cord become tangled or kinked, stop clipping and straighten the cord.

Continued on next page

- ▶ 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.
- ▶ Ensure that your clipper is serviced only by a qualified repair person.

DO NOT USE THIS CLIPPER UNTIL YOU HAVE READ THESE OPERATING INSTRUCTIONS.

OPERATE ON VOLTAGE SPECIFIED ON CLIPPER.

SAVE THESE INSTRUCTIONS.

2 General

These instructions make it possible for you to use this device safely and efficiently. Read these instructions carefully before beginning to use the device.

A basic prerequisite for working safely is respecting all stated safety instructions and handling instructions in this manual.

Retain these instructions permanently. If you pass on the device to a third party, also give them these instructions.

2.1 Warranty provisions

Warranty provisions may be found in the manufacturer's General Terms and Conditions.

2.2 Customer service

Our customer service department and our authorised service centres are available for technical information.

In addition, our employees are always interested in new information and feedback resulting from usage, which could be valuable in improving our products.

2.3 Limitation of liability

All statements and tips in this manual were assembled by taking into consideration applicable standards and regulations, the latest technology and insights gained from our many years of experience.

The manufacturer takes no responsibility for damages resulting from:

- Ignoring the manual.
- Non-intended uses of the device.
- Use by untrained personnel.
- Technical alterations.
- Use of non-original spare parts.

The actual goods delivered can deviate from the explanations and images presented here

in the case of special versions, the utilization of additional ordering options or as a result of the latest technical upgrades.

2.4 Copyright

This document is copyright-protected. Any reproduction or copying, in whole or in part, as well as the reproduction of images, even when changed, can only be carried out with the written agreement of the manufacturer.

2.5 Symbols used

DANGER

A warning at this danger level designates an imminently dangerous situation.

If the dangerous situation is not avoided, it will lead to death or serious injury.

► To avoid the danger, follow the instructions shown.

CAUTION

A warning at this danger level designates a possibly dangerous situation.

If the dangerous situation is not avoided, it can lead to injury.

► To avoid the danger, follow the instructions shown.

NOTICE

A warning at this danger level designates possible property damage.

If the dangerous situation is not avoided, it can lead to property damage.

► To avoid the danger, follow the instructions shown.

NOTE

► This advice designates additional information that simplifies operation of the device.

2.6 Intended use

The device is exclusively for shearing sheep, goats and llamas, alpacas and other camelidae.

Any other use or use extending beyond the above is considered unauthorised.

CAUTION

Danger from unauthorised use!

Danger can result from unauthorised and/or other kind of use.

► Use the device only as intended.

► Limit yourself to the procedures described in this manual.

Claims of any nature for damage resulting from unauthorised use will not be recognised.

Such use is entirely at the own risk of the operator.

CAUTION

Danger resulting from misuse!

In particular, the following applications of the device are prohibited:

- ▶ Use of the device on humans.
- ▶ Clipping of other types of animals, especially dangerous animals such as predators.

3 Safety

3.1 General

DANGER

Danger from not respecting the safety instructions!

Ignoring the manual and safety precautions presented in this manual will lead to serious injury as well as damage to the device and people.

- ▶ The warnings and instructions in this manual must be observed.

Observe the following safety instructions:

- Do not leave the clipper unattended as long as the plug is plugged in.
- Store the clipper out of reach of children.

3.2 Personnel requirements

- This clipper may only be operated by persons who one can expect to carry out their work responsibly. Persons whose ability to react is undermined by, for example, drugs, alcohol or medication should not be allowed to use the device.
- The operator must be experienced in dealing with the animals to be clipped.
- Children are strictly prohibited from operating the device.

Unauthorised persons

CAUTION

Danger for and from unauthorised persons!

Unauthorised persons who do not meet the requirements described here will not be able to recognise dangers in the work area.

- ▶ Prohibit access by unauthorised persons to the location where the clipping is being performed.
- ▶ If in doubt, approach the persons and instruct them to leave the work area.
- ▶ Stop your work until unauthorised persons have left the work area.

3.3 Dangers that can be caused by the device

3.3.1 Danger from electrical current

DANGER

Mortal danger from electrical current!

Mortal danger can result from contact with current-carrying conductors or components!

- ▶ Always disconnect the power cable of the clipper from the mains by pulling the plug, not the cord.
- ▶ Before every use, check the clipper for externally visible damage. Do not operate a damaged clipper.
- ▶ Only ever insert the electrical plug of the clipper into an undamaged socket.
- ▶ Never wrap the power cable around the clipper and keep it away from hot surfaces and objects.
- ▶ Only permit repairs to the clipper to be made by authorised dealers or the factory customer service department; this applies especially to the replacement of a damaged power cord.
- ▶ Before plugging the clipper in, compare the electrical connection data (voltage and frequency) on the nameplate with that of your electric mains. These data must be identical so that no damage occurs to the device. When in doubt, ask your specialised electrical dealer.
- ▶ Do not, under any circumstances, open the housing of the clipper. If voltage-bearing connectors are disturbed or the electrical and mechanical construction is modified, there is risk of electric shock.
- ▶ Keep moisture away from the clipper. It can lead to short circuits. If you suspect that moisture has penetrated the device, do not switch it on again and take it to a repair shop.
- ▶ Never clip wet animals.
- ▶ Only clean the clipper when dry, using a brush or the enclosed cleaning brush.
- ▶ Never submerge the clipper in water or other liquids.
- ▶ Always switch the clipper off before working on it. Pull the plug from the socket to prevent the device from being switched on inadvertently.
- ▶ Never operate this appliance with the air openings blocked or while on a soft surface, such as a bed or couch, where it is possible for the air openings to be blocked. Keep the air openings free of lint, hair, and similar objects.

3.3.2 Animals

CAUTION

Danger of injury by animals!

The noise of the device can disturb animals. A kick, an attack or the body weight of the animal can lead to injuries.

- ▶ Only persons who have experience with the animals to be clipped are permitted to clip the animals.
- ▶ Before beginning shearing, remove foreign objects from the coat (wire, wood etc.).
- ▶ Secure the animal sufficiently and calm it before starting work.
- ▶ Proceed with caution when working.
- ▶ Call in a second person if necessary.

3.3.3 Clipping blade

CAUTION

Danger from moving components!

The moving clipping blade and its sharp edges can cause injuries.

- ▶ Proceed with caution when working.
- ▶ Avoid any contact with the moving clipping blades.
- ▶ Do not touch the area around the clipping blade while it is still plugged into a power source, even when the device is turned off. For work on the clipping blade/clipping head, always disconnect the electrical power first.
- ▶ Do not use damaged shears with blunt or missing teeth. Only work with sharp shears sharpened by a specialist workshop.
- ▶ The upper blade of the shearing head is only held by the tapered pins of the chicken feet drive. If the shear-pressure adjustment head is released too much, the upper blade can fly off and result in injuries.

CAUTION

Danger of burns!

Insufficient oiling of the clipping head leads to warming. This may agitate the animals.

- ▶ When clipping, oil the clipping blades and clipping head through the lubrication opening provided for this purpose at least every 15 minutes so that the blades do not run dry.

3.4 Personal protective equipment (PPE)

CAUTION

Danger of injury through incorrect or missing protective equipment!

Personal protective equipment is required when working, in order to minimise the possibility of endangering health.

- ▶ Always wear the protective equipment required for the current task when performing work.



Slip-resistant shoes to protect against slipping on slippery surfaces.



Protective goggles to protect eyes from flying parts.



Close-fitting protective clothing with low tensile strength, tight sleeves and no protruding parts. The main purpose of this is to protect against clothing being caught by moving device parts.

Do not wear rings, necklaces or other jewellery.



Work gloves to protect against injury.



The acoustic emission while operating the device is typically 79 dB(A). We recommend that you always wear ear protection when working with the device.

4 Specifications

Handle	Ø 54 mm
Length	301 mm
Weight (without cable)	1.24 kg
Voltage	} See nameplate on the device
Maximum current	
Frequency	
Power drawn	
Speed	
Noise emission (L _{PA})	79 dB(A) (EN 60745-1:2009)
Uncertainty K	3 dB
Ambient temperature range	0 - 40 °C
Maximum relative humidity	10 - 90%

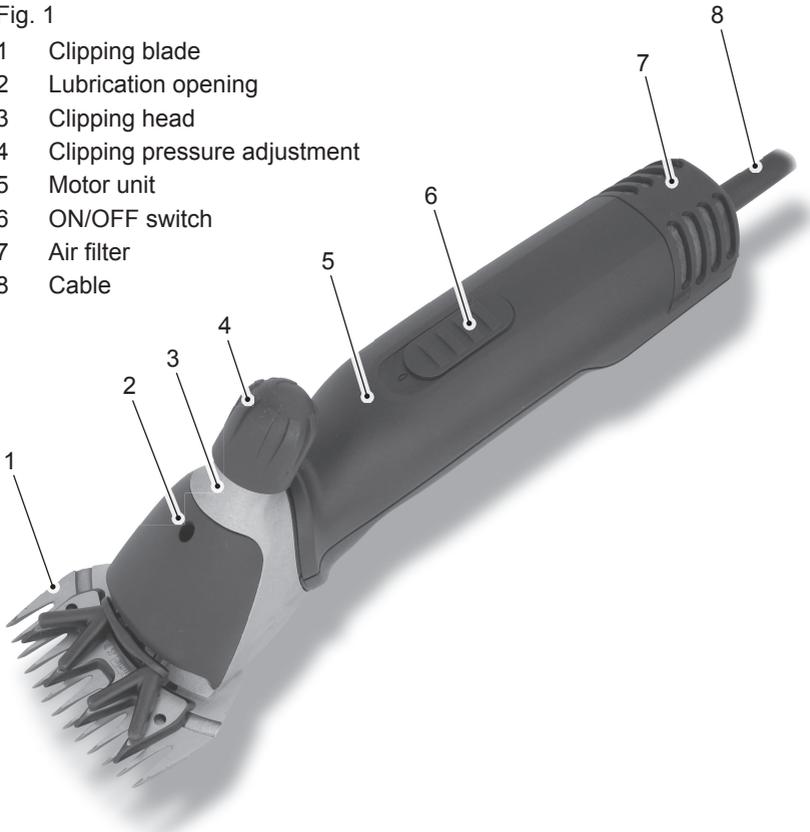
We reserve the right to make technical changes and improvements without notice.

5 Design and function

5.1 Design

Fig. 1

- 1 Clipping blade
- 2 Lubrication opening
- 3 Clipping head
- 4 Clipping pressure adjustment
- 5 Motor unit
- 6 ON/OFF switch
- 7 Air filter
- 8 Cable



5.2 Functional description

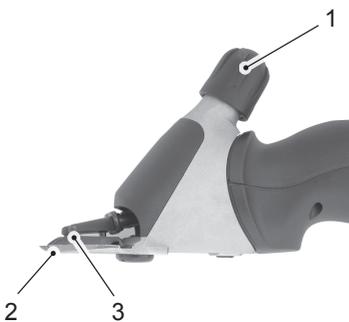


Fig. 2

The shearing machine is used to shear sheep, goats and llamas, alpacas and other camelidae. Two comb-like blades serve as cutting tools. The comb plate (2) closest to the skin of the animal is fixed and attached to the housing. The upper blade (3) moves back and forth against the lower blade. The upper blade is set in motion with the help of two chicken feet. The clipping pressure between the blades is adjusted via the adjustable head (1).

6 Transport, packaging and storage

6.1 Box contents

- 1 clipper
- 1 pair of clipping blades
- 1 special screwdriver
- 1 bottle of special lubricating oil
- 1 cleaning brush
- 1 case for transport and storage
- 1 manual

NOTE

- ▶ Check to ensure the completeness of the contents and that there is no damage. Please report incomplete package contents or any apparent damage immediately to your supplier/dealer.

6.2 Packaging

Only environmentally friendly materials are used for packaging.



The return of the packaging saves raw materials and reduces the volume of waste. Dispose of packaging materials that are no longer needed in accordance with locally applicable regulations.

6.3 Storage

Store the clipper and its accessories under the following conditions:

- Do not store out of doors.
- Store in a dry and dust-free area.
- Protect from direct sunlight.
- Avoid mechanical shock and vibration.
- Storage temperature: 0 to 40 °C.
- Relative humidity: max. 90%.
- If stored for longer than three months, check the general condition of all parts regularly.
- When not using the clipper, store it in the case making sure it is well cleaned, lubricated and that the clipping elements are not spring loaded (risk of corrosion).

7 Operation

7.1 Requirements at the place of use

- Observe the manual (see chapter **Specifications**).
- Outdoor electrical sockets must be fitted with a residual current device (RCD).
- The work place must have adequate lighting.
- The electrical socket must be easily accessible so that the device can be quickly disconnected from the mains.
- The cable must not be taut or kinked.
- Make sure there is adequate ventilation.

7.2 Adjusting the clipping pressure



Fig. 3

Set the clipping pressure as follows before you start clipping:

- ◆ Before beginning shearing when the machine is switched off, check to make sure that the tapered pins of the chicken feet drive exactly engage in the positioning holes of the upper blade.
- ◆ Turn the adjusting knob in the direction of the arrow until you feel resistance.
- ◆ Turn the knob another 1/4 turn in the direction of the arrow.
- ◆ If the clipping quality deteriorates, increase the clipping pressure by turning the adjusting knob another 1/4 turn in the direction of the arrow. If this does not produce the desired result, the blades must be replaced or sharpened.

CAUTION

- ▶ The upper blade of the shearing head is only held by the tapered pins of the chicken feet drive. If the shear-pressure adjustment head is released too much, the upper blade can fly off and result in injuries.

NOTE

- ▶ If the clipping pressure is too low, hair can gather between the clipping blades. This results in a poor clipping quality. In this case, clean the clipping blades as described in **chapter 7.7**.

7.3 Switching the clipper on and off



Fig. 4

- ◆ To switch the clipper on, slide the ON/OFF switch to the position **1**.
- ◆ To switch the clipper off, slide the ON/OFF switch to the position **0** (see Fig. 4)

7.4 Using the clipper

- ◆ Approach the animal from the front.
- ◆ Secure the animal to be clipped and calm it down.
- ◆ Plug the power plug into the socket.
- ◆ Switch the clipper on while you are in the visual range of the animal.
- ◆ Observe the animal's behaviour while clipping.
- ◆ Switch the clipper off after you have finished clipping and pull the plug from the socket.

7.5 Replacing the clipping blades



Fig. 5

- ◆ Switch the clipper off by sliding the switch to the position "0".
- ◆ Pull the plug from the socket.
- ◆ Turn the adjusting knob in the direction of the arrow until the resistance decreases.
- ◆ Place the clipper with the comb plate screws facing up onto a flat surface.



- ◆ Release the comb plate screws and pull the comb plate from the shearing head.
- ◆ Remove the upper blade.

Fig. 6

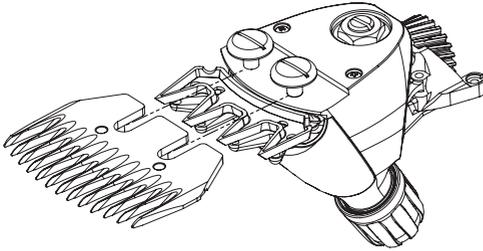


Fig. 7

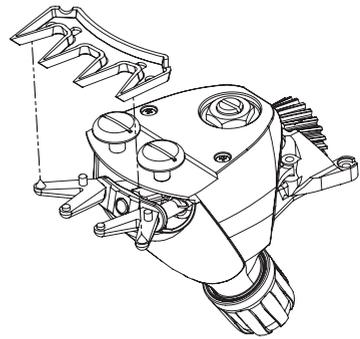


Fig. 8

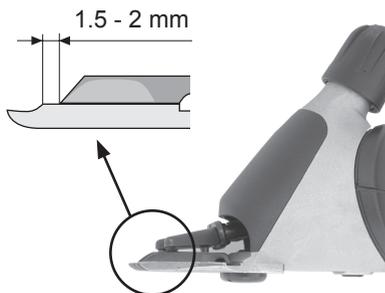


Fig. 9

- ◆ Place the new upper blade in the tapered pins of the chicken feet drive
- ◆ Apply a few drops of oil on the polished surfaces of the upper blade.

NOTE

- ▶ Make sure the clipping blades are positioned correctly when installing the new or sharpened blades.
- ▶ The tapered pins of the chicken feet drive must engage exactly in the positioning holes of the upper blade.



- ◆ Install the new comb plate. Align it so that the ground surface of the comb plate protrudes approx. 1.5 - 2 mm above the point of the upper blade.
- ◆ Tighten the comb plate screws.

Fig. 10

NOTE

- ▶ Work only with sharp clipping blades and replace dull blades and blades with missing teeth. Proper sharpening of clipping blades is only possible by an expert using specialised equipment. When faced with the need to sharpen the blades, contact your service centre.

7.6 Lubrication



To ensure a well-clipped animal and to increase the life of the device including the shearing head, it is necessary to apply a thin coat of oil between the upper blade and comb plate. All other moving parts of the clipping head must also be lubricated.

- ◆ Apply some drops of oil onto the clipping blades and into the lubrication opening.

Fig. 11

NOTICE

Possible damage to the clipper!

Insufficient oiling of the clipping head will lead to warming and will shorten the life of the clipper and its blades.

- ▶ Oil the clipping blades adequately during the clipping session, at least once every 15 minutes, so that they do not run dry.
- ▶ Only use the special oil supplied or a paraffin oil conforming to the ISO VG 15 specification.

NOTE

- ▶ The supplied oil is free of poisonous substances and will not cause irritations on either skin or mucous membranes. After 21 days, it will have degraded to about 20% (CELL-33-T-82).

- Oil the blades before, during and after every use.
- Oil the blades at the latest when the blades leave streaks or slow down.
- Apply several drops of oil on the front and on the sides of the clipping blades (see Fig. 11)
- Wipe excess oil off with a soft, dry cloth.
- Lubricating sprays do not contain enough oil for good lubrication, but are suitable for cooling the clipping blades.
- Immediately replace damaged or notched blades in order to avoid injuries.

7.7 Cleaning

NOTICE

Improper cleaning.

Risk of damaging the clipper.

- ▶ Use only a dry cloth and the brush provided to clean the clipper. Use only a dry brush to clean the air filter.
- ▶ Never use compressed air for cleaning.

Housing of the clipper

- ◆ Clean the housing of the clipper with a dry cloth.

Shearing blade and shearing head

- ◆ Use the brush supplied to clean the shearing blade and shearing head.
- ◆ Lubricate the clipping blades as described in **chapter 7.6**.
- ◆

Air filter



- ◆ Remove the air filter from the clipper.
- ◆ Clean the air filter with a dry brush or a nailbrush. Make sure no foreign objects get into the device while cleaning it.
- ◆ Slide the air filter back on the clipper.

Fig. 12

NOTICE

Possible damage to the clipper!

Operating the clipper without the air filter can damage the clipper.

- ▶ Only use the clipper with a properly fitted air filter.

8 Troubleshooting

8.1 Safety information

DANGER

Mortal danger from electrical current!

Mortal danger can result from contact with current-carrying conductors or components!

- ▶ Pull the plug from the socket before you start troubleshooting.
- ▶ Repairs to electrical devices must only be carried out by the factory service department or specialists who have been trained by the manufacturer.

During the warranty period the device must be opened only by personnel authorised by the manufacturer, else the warranty will be void.

8.2 Causes of malfunctions and their rectification

Malfunction	Possible cause	Corrective measure
The upper blade does not move across the full bearing surface.	Retaining spring broken.	Notify customer service.
	Crankshaft and/or ball and shearing head are worn (insufficient lubrication).	
	Bearing is heavily worn.	
Upper blade does not move.	Defective gear.	Notify customer service.
	Crankshaft is broken or bent.	
	Ball is missing.	
Shearing pressure adjustment-knob is jammed	Thread is dirty or rusty.	Notify customer service.
	Tension retaining ring is jammed.	
Shearing pressure adjustment-knob automatically releases.	Snap ring missing.	Notify customer service.
	Threaded insert is loose.	
Not enough pressure can be applied to the upper blade.	Retaining spring broken.	Notify customer service.
	Sliding sleeve is missing.	
	Sliding sleeve is worn.	
	Swivelling fork is worn.	
	Chicken feet are worn.	
Chicken feet fall out.	Securing cams on the retaining spring are broken.	Notify customer service.

Malfunction	Possible cause	Corrective measure
Motor does not run or stops immediately.	Clipping pressure too strong.	Reduce the clipping pressure, as described in chapter 7.2 . Have the blades sharpened.
	Burnt smell emanating from the motor housing; motor burnt.	Notify customer service.
	Motor and/or electronics defective.	
Motor runs very slowly.	Clipping blades not lubricated adequately.	Lubricate the clipping blades.
	Motor and/or electronics defective.	Notify customer service.
Clipper is cutting poorly or not at all.	Cutting blades are dull.	Notify customer service.
	Clipping blades are not properly sharpened.	
	Clipping pressure too low.	Increase the clipping pressure by turning the adjusting knob as described in chapter 7.2 .
	Shearing blade is incorrectly installed and/or aligned.	Correctly install the shearing blade, as described in chapter 7.5 . Align the clipping blades correctly, see Fig. 10 .
	The animal's hair is too wet.	Only clip dry hair.
	Hairs are stuck between upper and lower blade.	Remove the clipping blades; clean, lubricate and install them again; set the clipping pressure.
Motor unit heats up.	Air filter clogged.	Clean or replace the air filter.
	Clipping pressure too high.	Reduce the clipping pressure.
	Defective bearing.	Notify customer service.

9 Spare parts

See spare parts list at the end of this manual.

CAUTION

Incorrect or defective spare parts can lead to damage, malfunction and complete failure and can jeopardise safety.

- ▶ Use only original spare parts from the manufacturer. Obtain spare parts from an authorised dealer or directly from the manufacturer.

NOTE

- ▶ If non-approved parts are used, all warranty, service, compensation and liability claims against the manufacturer or its employees, dealers and representatives will be forfeited.

During the warranty period the device must be opened only by personal authorised by the manufacturer, else the warranty will be void.

Item No.	Description	Quantity	Item No.	Description	Quantity
	Clipper		31	Slide switch	1
1	Sheep clipping head, complete	1	32	Upper housing cover	1
2	Adjusting knob, sheep	1	33	Switch detent	1
3	Sheep shearing head cover	1	34	Motor, complete	1
4	Retaining spring	1	35	Front bearing flange	1
5	Swivelling fork	1	36	Stator	1
6	Gauge plate	1	37	Ball bearing 8-19-6	2
7	Chicken feet, right	1	38	Lock washer	1
8	Chicken feet, left	1	39	Rotor incl. ball-bearing	1
9	PH screw M4x8	2	40	Play compensation disc 626	1
10	Ball	1	41	Bearing flange, rear, with carbon brush springs	1
11	Crankshaft sheep	1	42	Carbon brush spring	2
12	Ball bearing 608-2RS	1	43	PH screw M4x10	1
13	Comb screw Sheep	2	44	Impeller	1
14	Locknut	1	45	Carbon brush	2
15	Centre post	1	46	Motor bracket	4
16	Sheep shearing-head case	1	47	Bottom housing cover	1
17	Ball bearing 608-2Z	1	48	Cable grip	1
18	Gear Z22, sheep	1	49	Anti-kink sleeve	1
19	Lock washer	1	50	PCB	1
20	Tension nut bushing screw	1	51	Contact wire	1
21	Snap ring	1	52	PT-screw Kombitorx KA30 x 16	13
22	Sliding sleeve	1	53	Cable	1
30	Air filter	1			

10 Disposal



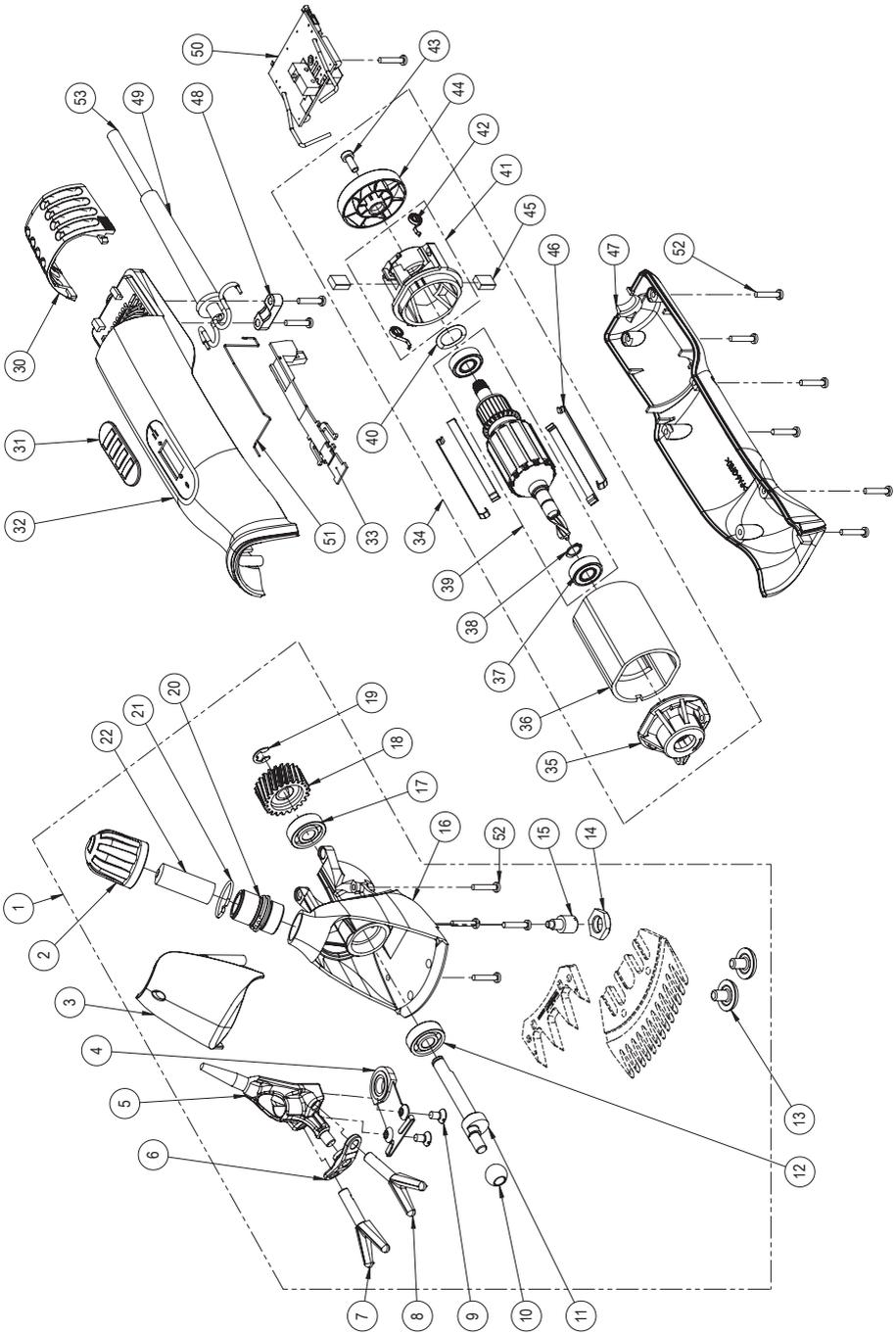
NOTICE

Environmental damage if improperly disposed of!

- ▶ Special waste handling is required for electrical waste, lubricants and other tools. These can only be disposed of through qualified specialists!

NOTE

- ▶ Dispose of the clipper at a service centre or nearby electrical workshop.



We reserve the right to make technical changes and improvements without notice.

This piece of equipment complies with directive:

2006/95/EC, incl. amendments

2004/108/EC, incl. amendments

93/68/EEC

92/31/EEC



Warranty

Item

Serial no.

Date of purchase

Stamp and signature

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