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1 Safety

The non-observance of the instructions and safety regulations mentioned in this manual can cause operating malfunctions or serious injury to persons.

1.1 Personal

- The operator must be experienced in handling the animals to be clipped.
- Children are not permitted to operate the equipment.

Operation of the clipper is only permitted by personal expected to do their work reliably. Persons, whose reactivity is affected by drugs, alcohol or pharmaceuticals, are not permitted to operate the equipment.

1.2 Symbols and warning notes

Various symbols are used in the operating instructions. These symbols indicate possible hazards or bring to the user's attention such technical information that, if not complied with, may lead to personal injury and material damage or to uneconomic operation.

Hazard symbols



WARNING!

Denotes a possibly hazardous situation. Serious injury and even death can result if such situations are not avoided.



CAUTION!

Denotes a possibly hazardous situation. Light or slight injury can result if such situations are not avoided.

Information symbols



NOTE!

A note which, if not complied with, can lead to operational stop-pages or damage.

1.3 Stipulated usage

The equipment is exclusively designed and conceived for the here described use and intention.

The equipment is exclusively intended for use on dogs, cats, cattle and horses.

The compliance of all indications in this manual is part of the intended use.

Other uses are expressly prohibited.

The appliance is only to be used with the power supply unit provided.



WARNING!

Expressly prohibited are:

- Using the machine on persons.
- Clipping other animals, in particular dangerous animals such as beasts of prey.

1.4 Personal protective equipment

Antislip shoes. For protection against slipping on slippery underground.

1.5 Power supply



WARNING!

There is a danger to life from contact with live components. Therefore:

- ▶ If you unplug the plug, always pull directly on the plug. Never pull on the cable, it could get damaged.
- ▶ If the isolation is damaged, disconnect immediately the power supply and arrange reparation.
- ▶ Before connecting to the power supply, compare the technical data with the data of the power supply system and only connect in case of concordance.
- ▶ Only plug the charging station in undamaged outlets.
- ▶ Never wrap the cable around the machine and keep it away from hot underlays and objects. Keep humidity away from the machine. This can cause a short circuit.
- ▶ Never clip wet animals.
- ▶ Just clean the machine dryly with a brush and the cleaning brush.
- ▶ Generally, never plunge the clipper and clipperhead into liquids such as water, soapy water, diesel, petrol, etc. This may cause serious injury to mechanics and motor.

- ▶ Do not switch-on the clipper or the charging station if you suspect liquid to be penetrated. Hand it over to a service centre.
- ▶ Before commencing any maintenance work disconnect the electrical power supply by pulling out the plug. Even with the machine switched off, do not handle the area round the clipper blades as long as the machine is still connected to a power source. Whenever working on the clipper blades/clipperhead, always first disconnect the power supply.

1.6 Animals



WARNING!

The noise of the clipper can trouble animals. A kick, an attack or the weight of the animal can cause serious injuries. Therefore:

- ▶ Just persons being experienced in handling with animals are allowed to clip the animals.
- ▶ Fix and calm the animal sufficiently before clipping.
- ▶ Work carefully.
- ▶ Unauthorised persons are not permitted to approach the clipping place

1.7 Battery



WARNING!

Danger of injury from incorrect handling of battery!

The rechargeable battery must be handled with particular care.

Therefore:

- ▶ Just use original batteries.
- ▶ Do not throw the battery into the fire or expose to high temperatures. There is a risk of explosion.
- ▶ Just use undamaged batteries.
- ▶ Battery and charging station must never be exposed to direct sunlight or humidity.
- ▶ Never short-circuit the battery. Because of overheating the battery can blow out.
- ▶ Never open the battery. In case of incorrect use, escaping liquid can cause skin irritation. Avoid any contact with the liquid of the battery. In case of contact wash up the liquid with a lot of water. If the liquid enters in the eyes, wash out immediately for 10 minutes and call on a doctor without delay.



CAUTION!

Reduced lifetime of battery if handled incorrectly!

The efficiency of the battery may be reduced by incorrect handling. Therefore:

- ▶ Just use the original charging station. Other charging stations could destruct the battery.
- ▶ When not in use for a longer time, separate the charging station from the power supply.
- ▶ Remove the battery and clipper from the charging station, when the station is not connected to the power supply.
- ▶ Never insert any objects into any opening of the charging station or into the charging cavity of the clipper.
- ▶ A battery no longer capable of being charged will damage the charging station and must be replaced.

1.8 Blades



WARNING!

Moving blades and sharp edges of the blades can cause injuries on the skin. Therefore:

- ▶ Work carefully.
- ▶ Avoid any contact with the moving blades.

1.9 Children



WARNING!

Never let the equipment unsupervised und use it very carefully when children or persons who cannot judge the dangers are nearby. Children are not permitted to operate the equipment.

2 Generalities

This manual facilitates a safe and efficient machine handling. Read these instructions carefully before starting operation. Basic requirements for a safe operation are the adherence of all the information regarding safety and operation in this manual. Keep this manual permanently. If you hand on the equipment to other persons, provide them with this manual.

2.1 Guarantee conditions

The guarantee conditions are included in the general terms and conditions of the manufacturer.

2.2 Customer service

For technical information, our customer service and our authorised service centres are at your disposal. Furthermore, our staff is interested in new information and experience resulting from the operation which could be useful for the improvement of our products.

2.3 Limitation of liability

All data and information in this instruction manual were arranged in consideration of the current standards and regulations and state of the art as well as our realizations and experiences of many years.

The manufacturer assumes no liability for disadvantages due to:

- Non-observance of the instruction manual.
- Operation of the clipper for not intended use.
- Assignment of not instructed personal.
- Technical modifications.
- Use of not approved spare parts.

The actual scope of delivery can differ from specially designed models, from additional ordering options or due to the latest state of the art from the here described annotations and illustrations.

This product has been developed and assembled using the best individual components available. It is designed to give longevity and high performance. If spare parts are used during the life of this product, please ensure that they are genuine Heiniger parts. Failure to use genuine Heiniger spares may reduce the performance of this precision engineered product and will void any warranty claim.

3 Technical data

3.1 General information

Clipper	Length	204 mm
	Width	50 mm
	Height	41 mm
	Weight with battery	0,44 kg
Charging station	Charging time at 20 °C	60 min
Battery	Type	Li-Ion
	Voltage	according rating plate
	Capacity	according rating plate

3.2 Mains voltage

Electrical (charging station)	Voltage	100–240 V
	Charging rate, maximum	according rating plate

3.3 Operating conditions

Environment	Temperature range	0–40 °C
	Relative humidity, maximum	75%
	Vibration a_{hv}	< 2,5 m/s ²
	Noise emission (L_{pAm}):	< 70 dB

4 Assembly and function

4.1 Scope of delivery

Clipper	1 pce
Clipperhead (equipment oriented)	1 pce
Spare battery (equipment oriented)	1 pce
Charging station	1 pce
Oil dispenser	1 pce
Cleaning brush	1 pce
Operating instructions	1 pce
Packaging for transport and storage	1 pce

4.2 Overview

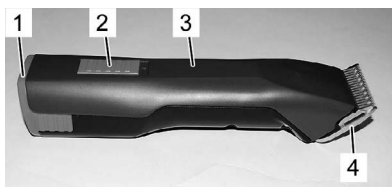


Fig. 1

- 1 Battery
- 2 Switch lever
- 3 Clipper
- 4 Clipperhead
- 5 Interlock clipperhead
- 6 Interlock battery



Fig. 2

4.3 Abstract

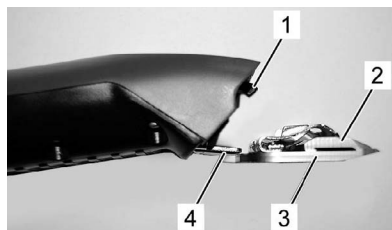


Fig. 3

The clipper serves to clip dogs, cats, cattle and horses. Two comb-shaped blades are the cutting tool. The bottom blade facing the skin (3) is standing firm and is fixed on the blade hinge (4). The top blade (2) is agitated crossways that one. The top blade is moving by the help of a turning lever (1).

4.4 Operating elements

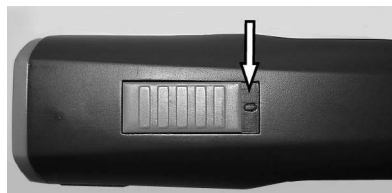


Fig. 4 Switch in OFF-position ("0")

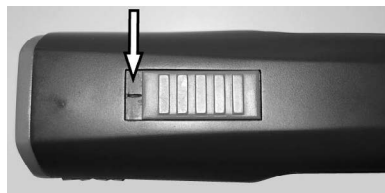


Fig. 5 Switch in ON-position ("1")



Fig. 6 Interlock clipperhead



Fig. 7 Interlock battery

4.5 Charging station

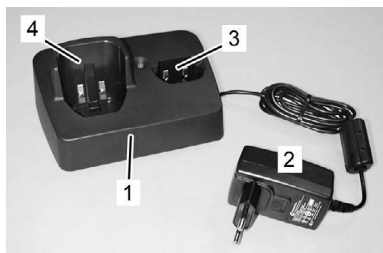


Fig. 8

- 1 Charging station
- 2 Power adapter
- 3 Apart charging cavity for the battery
- 4 Charging cavity for the clipper with integrated battery

4.6 Battery

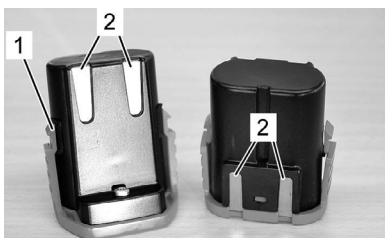


Fig. 9

- 1 Interlock battery
- 2 Contacts

5 Transport, packaging and storage

Check the delivery on receipt immediately on completeness and damage in transit.



NOTE!

Complain any damage as soon as you discover it. Claims for damages only may be made within the valid time.

For the packaging, just non-polluting material is being used.

The packaging is to protect the individual components from transport damage, corrosion and other forms of damage prior to use.

Store clipper and accessories on the following conditions:

- ▶ Always store in the packaging supplied with it.
- ▶ Do not store outdoor.
- ▶ Store dry and dust-free.
- ▶ Protect against solar irradiation.
- ▶ Avoid mechanical shocks.
- ▶ Storage temperature: 0 until 40 °C.
- ▶ Relative humidity: max. 75%. When storing longer than 3 months, check periodically the general condition of all parts. If necessary, refresh or renew the conservation.

6 Operation



WARNING!

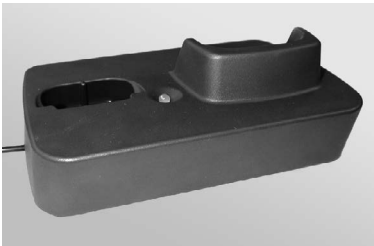
Incorrect operation may cause damage on persons or objects. Therefore:

- Do all the steps of operation according to the indications in this instruction manual.

6.1 Initial start-up

6.1.1 Setting up the charging station

- Observe all technical data according to the operating conditions (3 Technical Data).
- The installation surface must be even and must dispose of sufficient stability and payload.
- The location of installation must be protected against humidity and rain.
- Power outlets in the outer area must be equipped with a residual current circuit breaker (FI).
- The workplace must dispose of sufficient illumination and ventilation.
- The location of installation must be out of reach of children.



1. Place the charging station on a firm, even, dry, clean and free underground.
2. Plug the charging station in the power outlet.

Fig. 10

3. The charging station has electronics that constantly check its functions. A switchover may therefore last up to 3 seconds.
4. The permanent light of the green LED signalises, that the plug is connected correctly to the power outlet and the charging station is ready for use.
5. If the battery is very depleted, the charging station wakes the battery. This may require up to 5 minutes. After that the normal charging process will start.

6.1.2 Charge battery

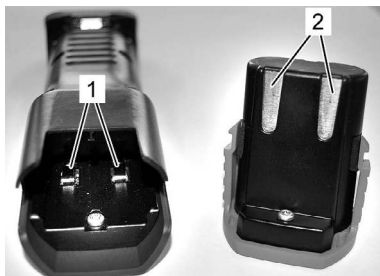


Fig. 11

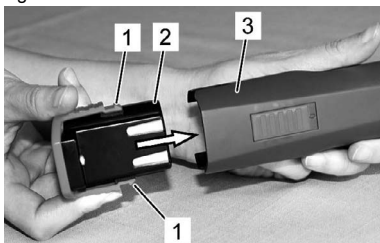


Fig. 12

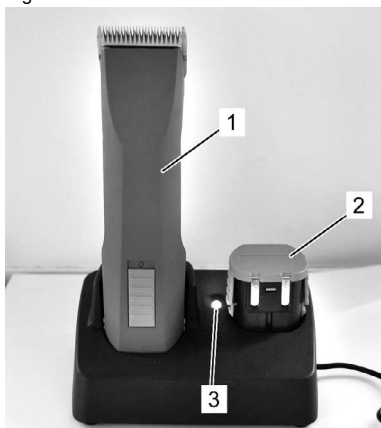


Fig. 13

1. Test the contacts of the clipper (1) and the battery (2) for foreign particles and contamination.
2. Assure, that the switch lever of the clipper is in OFF-position ("0") (fig. 4).

3. Insert the battery (2) in the clipper (3), until the battery interlock (1) is engaged on both sides.

4. Put the clipper with the inserted battery (1) or spare battery (2) from above without force into the provided charging cavity of the charging station.
5. Waiting for the battery charging time (3 specifications).
6. Battery is charging. During the charging time the control light is illuminating red (3). As soon as the battery has been charged to a min. 90%, the indicator lamp will change to green and the charging station switch to "trickle charging".

7. Hold the charger firmly with one hand and pull the clipper (1) or the battery (2) out with the other.



NOTE!

If the shearer (1) and the reserve battery (2) are both on the charging station at the same time, the battery in the shearer (1) will be charged up first. The reserve battery (2) will only be charged up when the shearer is charged.

6.1.3 Fitting the clipperhead

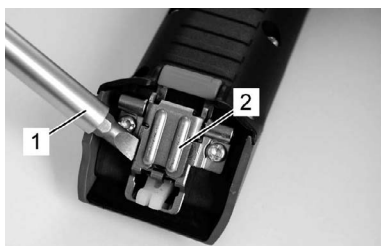


Fig. 14

1. If the blade hinge (2) is accidentally closed, lift the latter up using a screwdriver (1) while simultaneously pressing the blade lock.

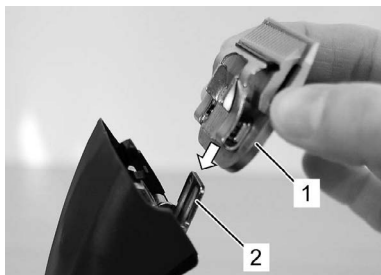


Fig. 15

2. Fit the clipperhead (1) on the open blade hinge (2).

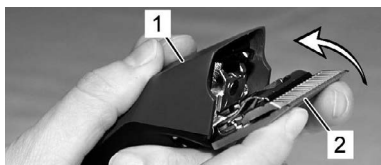


Fig. 16

3. Fold the clipperhead (2) by light pressure on to the clipper (1) which is switched on.

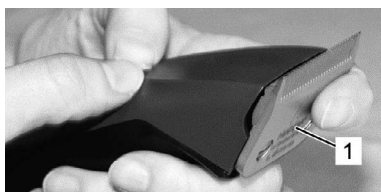


Fig. 17

4. Make sure, that the clipperhead (1) is engaged firmly.



NOTE!

For proper operation make sure that the clipperhead (1) is engaged correctly.

6.2 Activities during operation

6.2.1 Clipping

1. Fix and calm the animal sufficiently before clipping.
2. Switch on the clipper already in the field of vision of the animal.
3. Approach to the animal from ahead.
4. During clipping, look at the behaviour of the animal.

6.2.2 Changing the battery

When the battery is unloaded, the clipper is turned off by a protective circuit.

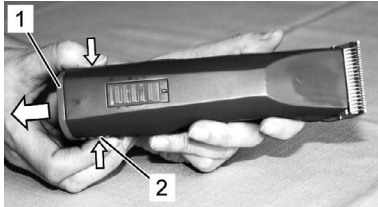


Fig. 18



Fig. 19

1. Move the switch to position "0" (fig. 4).
2. Push the battery interlock (2) on both sides inward and pull the battery (1) out of the clipper.
3. Insert charged battery (1) into the shearer (2), until the battery lock is locked in on both sides.

6.2.3 Changing the clipperhead



Fig. 20

1. Move the switch to position "0" (fig. 4).
2. Push the interlock clipperhead.

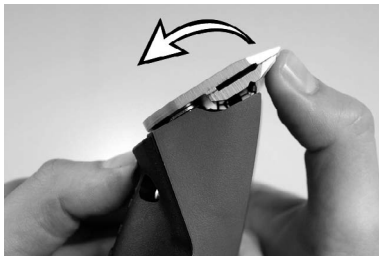


Fig. 21

3. Fold the clipperhead ahead when the interlock clipperhead is pressed.
4. Take off the clipperhead.
5. Clean the opened hinge by the help of the provided brush.

6. Fit the favoured clipperhead to the blade hinge and fold it on to the switched-on clipper by light pressure. (fig. 15, 16, 17).



NOTE!

Only work with sharp blades, replace blunt or defective blades without teeth. The correct resharpening of blades is only to do by special machines or by a specialist. In that case, contact your service centre.

6.2.4 Lubrication

To receive good clipping results and to increase the durability of the clipper and the clipperhead, it is necessary to apply a thin oil coat between top and bottom blade (fig. 22).



CAUTION!

Unsufficient lubrication of the clipperhead causes heating and a reduced durability of clipper and blades, as well as a reduction of the battery runtime. Therefore:

- ▶ Lubricate the blades sufficiently during the clipping (at least every 15 minutes), so that they do not drain (fig. 22).
- ▶ Only use the lubricants prescribed by the manufacturer.



NOTE!

Only use our special oil or a paraffin oil meeting the ISO VG 15 specification. The provided oil is non-toxic and produces no irritation on contact with the skin or the mucous membranes. This paraffin oil degrades to some 20% after 21 days (CEL-L-33-T-82).

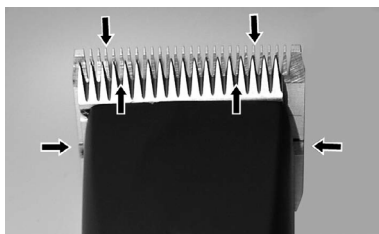


Fig. 22

The blades must be oiled before, during and after every use. When the blades of the clipper are leaving stripes or are running with reduced speed, this is a signal that oil is required. Place a few drops of oil ahead and laterally on the clipper blades (see arrows in fig. 22). Wipe off the excessive oil with a smooth, dry cloth. Lubrication sprays do not have sufficient oil for a good lubrication, but serve for cooling the blades. Immediately change damaged or crenated blades to avoid injuries.



CAUTION!

Remove all the leaking, used up or excessive grease from all the lubrication points, and it is to be disposed in accordance with the local regulations.

6.2.5 Cleaning

To receive good clipping results and to increase the durability of the clipper and the clipperhead, it is necessary to apply a thin oil coat between top and bottom blade (6.2.4 Lubrication).

Clipperhead and hinge

Clean clipperheads and hinge between the different clippings.

Charging station

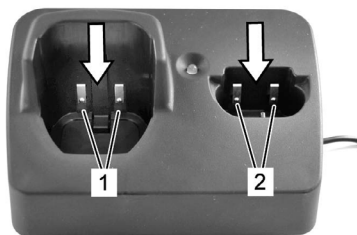


Fig. 23

1. Disconnect the charging station from the power supply.
2. If necessary, take away hairs from both charging cavities.
3. If required, clean the contacts (1) and (2) with a dry cloth.

Contacts

Clean the contacts of the battery and the shearer with a dry cloth as necessary.



NOTE!

If not using daily, store shearer and charging station in the packaging supplied with them. When in use daily, we recommend to put clipper and reserve battery in the charging station.

7 Troubleshooting

- The here described tasks for troubleshooting can be done mostly by the operator.
- Some tasks only may be done by especially trained personal or by an authorised service centre. These tasks are marked with (S).

Malfunction	Cause	Rectification
Top blade does not move	Clipperhead is not well engaged	Engage the clipperhead correctly when the motor is running
	Turning lever is defective	Replace turning lever (S)
Clipper cuts badly or not at all	Clipper blade is blunt	Have top and bottom blades re-sharpened by service centre (S)
	Clipper blades have not been correctly ground	
	Clipper blades are not oiled	Oil clipper blades every 15 minutes
	The animal's hair is wet	Only clip dry hair
	Hairs jammed between top and bottom blades	Take off clipperhead, push the top blade half away from the clipperhead, take away hairs between top and bottom blade
	Clipperhead has too little clipping pressure	Have clipperhead inspected (S)
Motor is not running	Battery is dead	Charge battery
	Contacts dirty	Switch clipper off and clean the contacts
	Faulty battery	Replace battery
	Smell of burning from the motor housing. Motor burned out	Have motor and / or electronics replaced (S)
Motor does not work	Faulty motor and / or electronics	Have motor and / or electronics replaced (S)
	Clipperhead blocked	Clean and oil clipperhead
Motor runs very slowly	Clipper blades were not oiled sufficiently	Oil clipper blades
Running time of a fully charged battery is too short and / or blades are getting hot	Clipper blades were not oiled sufficiently	Oil clipper blades
	Dead, not fully charged or defective battery has been used	Only use intact and completely charged original battery
The control light of the charging station is not on	Charging station is not connected to the power supply	Connect the charging station to the power supply
	Charging station is faulty	Have charging station inspected (S)

Malfunction	Cause	Rectification
When battery is unloaded the light does not change from green to red	Contacts of battery and/or charging station are dirty	Clean contacts
	Faulty battery	Replace battery
	Contacts of the charging station are deformed	Have the charging station repaired (S)
LED flashes alternately red / green	Faulty battery	Replace battery. Individually test batteries if two batteries are inserted into the charging station at the same time.

8 Spare parts

See illustration spare parts at the end of this instruction manual.



WARNING!

Faulty spare parts may cause damages, malfunctions or total loss and may reduce security. Therefore:

- ▶ Only use original spare parts from the manufacturer. Purchase the spare parts at the official distributor or directly at the manufacturer.
- ▶ If using no original spare parts all warranty and service claims are expiring.

Pos. No.	Description	Quantity
1	Complete housing set	1x
3	Battery	1x
4	Motor complete	1x
5	PCB shearer	1x
6	Rubber tap	1x
7	Turning lever	1x
8	Seal	1x
9	Circlip	1x
10	Washer	1x
11	Eccentric cogwheel, pre-assembled	1x
14	PT-screw Kombitorx KA30x16	12x
15	Blade support	1x
16	Blade interlock	1x
17	PT-screw Kombitorx KA30x8	1x
18	Clipping pressure spring	1x
19	Blade guidance	1x
20	Clamp holder	1x
21	Top blade	1x
22	Bottom blade	1x
23	Screw M3,5x4	2x

Pos. No.	Description	Quantity
24	Charging station upper housing part	1x
25a	PCB charging station with round pin socket	1x
25b	Power supply with plug	1x
26	Charging station base plate	1x
27	Rubber foot	4x
28	Plug EU	1x
29	Plug AU	1x
30	Plug GB	1x
31	Plug US	1x
32	Charging station with EU/GB/AU/US plug	1x
34	ARG plug	1x

9 Disposal



CAUTION!

Environmental damages when disposing incorrectly!

Electronic scrap, batteries, lubricants and other indirect materials are subject to hazardous waste treatment and may only be disposed of by approved specialist companies!



NOTE!

For disposal hand the clipper and charging station over to a nearby service centre or specialist shop for electronics.

