

MOBISHEAR

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**100% CORDLESS
HORSE & CATTLE CLIPPER**

INSTRUCTION MANUAL

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1 Proper Use

Thank you for purchasing a GTS clipper.

1.1 Equipment Items

Clipping machine with clipper head	1
Battery cartridge	2
Clipping blades	1 pair
Battery charger	1
Special Lubricating Oil	1
Cleaning Brush	1
Operating Instructions	1
Special Screwdriver	1

1.2 Overall View / Controls

Component Names(Illustration 1)

1	Battery cartridge	2	Clipping machine	3	Clipper head
4	Screw				
Clipping machine					
5	Housing seat	6	Trademark sticker	7	Switch push button
8	Connector piece	9	Switch	10	Switch push plate
11	Motor	12	Pinion	13	Housing cover
14	Nameplate sticker	15	Screw		
Clipper head (Include Clipping blades)					
16	Retaining ring	17	Gear	18	Crank spindle sleeve
19	Crank spindle	20	Screw	21	Stop screw
22	Adjusting screw	23	Pressure spring	24	Head shell
25	Screw	26	Pressure plate	27	Laminated spring
28	Lower blade	29	Blade fixing screw	30	Driving carrier
31	Screw	32	Crank drive block	33	Upper blade
Charger					
34	Charger cover	35	Screw	36	LED PCB
37	PCB	38	Charger base	39	Power cord
40	Screw				

1.3 intended use

The clipper gives you the freedom to clip how and where.

The clipper machine exclusively intended for use on cattle and horses. Clipping horses and ponies for competition, for leisure, for housing and for health. Clipping cattle for shows, for market, and for cleaning. Clipping the tail areas of sheep, goats, llamas, and alpacas for hygiene. Not suitable for full shearing of sheep wool.

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 fitter.

1.4 Technical data

Clipper

Model designation	GTS-2013
Voltage	10.8V
Motor power	45W
Speed	2300rpm
Amplitude of swing	6.5mm
Dimensions (W/H/L)	Approx.80mm×80mm×315mm (Include Battery cartridge)
Weight	

Battery cartridge

Battery cells	6×3.6V Li-ion battery cells
Voltage	10.8V
Capacity	3000mAh
Overload current	
Weight	

charger

AC input	100-240V 50/60Hz 35W
DC output	13.7V 2A
Operating temperature	0-40°C
Weight	

2 Safety regulations

Never connect the clipper directly to the mains supply.

- Clipping large animals can be hazardous, take all appropriate safety precautions.
- Wear suitable clothing and eye protection. Tie up long hair and remove jewellery. Head protection is recommended when clipping large animals
- Regularly check moving parts for damage.
- Repairs must be carried out by a qualified repairer using genuine GTS parts.
- Use this product only for the applications intended.
- Do not use accessories or attachments other than those recommended by GTS.
- Do not burn or incinerate the Battery cartridge.

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 Proper Use

The use to which the machine is intended for is described in Section 1.3.

The following applies to safe operation:

The details at section 1.4, “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.

2.3 Safety Principles

2.3.1 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 Observe the relevant national regulations.

Cleaning and servicing should only be done with the mains plug pulled out. Never let a machine with its cable plugged in, lie around unsupervised. Keep children away from the working area and store the machine out of their reach.

2.3.2 Servicing and Checking Requirement

Only operate the shearing machine if it is undamaged and in a proper condition. Any defects to the housing or the electrical cable should be rectified by a repair or service agent.

2.3.3 Noise emission/Personal Protective Equipment

Wear Ear Protectors!

Typical sound emissions when working are 93 db(A). We recommend that ear protectors should always be worn when

working.

Wear Protective Goggles and Gloves!

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

Personal protective equipment is to be provided by the operator.

2.3.4 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 applied to dangerous technical deficiencies.

2.4 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 shorn.
- 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.

2.5 Safety Instructions for charger & battery cartridge

1. **SAVE THESE INSTRUCTIONS** - This manual contains important safety and operating instructions for battery charger.
2. Before using battery charger, read all instructions and cautionary markings on(1) battery charger, (2) battery, and (3) product using battery.
3. **CAUTION** - To reduce risk of injury, charge only GTS rechargeable batteries marked on the charger label. Other types of batteries may burst causing personal injury and damage.
4. Do not expose charger to rain or snow.
5. Use of an attachment not recommended or sold by the battery charger manufacturer may result in a risk of fire, electric shock, or injury to persons.
6. To reduce risk of damage to electric plug and cord, pull by plug rather than cord when disconnecting charger.
7. Make sure cord is located so that it will not be stepped on, tripped over, or otherwise subjected to damage or stress.
8. Do not operate charger with damaged cord or plug - replace them immediately.
9. Do not operate charger if it has received a sharp blow, been dropped or otherwise damaged in any way; take it to a qualified serviceman.
10. Do not disassemble charger or battery cartridge; take it to a qualified serviceman when service or repair is required, Incorrect reassembly may result in a risk of electric shock or fire.
11. To reduce risk of electric shock, unplug charger from outlet before attempting any maintenance or cleaning. Turning off controls will not reduce this risk.
12. The battery charger is not intended for use by young children or infirm persons without supervision.
13. Young children should be supervised to ensure that they do not play with the battery charger.
14. If operating time has become excessively shorter, stop operating immediately. It may result in a risk of overheating, possible burns and even an explosion.
15. If electrolyte gets into your eyes, rinse them out with clear water and seek medical attention right away. It may result in loss of your eyesight.

2.6 Additional safety rules for charger & battery cartridge

1. Do not charge Battery Cartridge when temperature is BELOW 0°C (40°F) or ABOVE 40°C (104°F).

2. Do not attempt to use a step-up transformer, an engine generator or DC power receptacle.
3. Do not allow anything to cover or clog the charger vents.
4. Always cover the battery terminals with the battery cover when the battery cartridge is not used.
5. Do not short the battery cartridge:
 - (1) Do not touch the terminals with any conductive material.
 - (2) Avoid storing battery cartridge in a container with other metal objects such as nails, coins, etc.
 - (3) Do not expose battery cartridge to water or rain. A battery short can cause a large current flow, overheating, possible burns and even a breakdown.
6. Do not store the tool and Battery Cartridge in locations where the temperature may reach or exceed 50°C (122°F).
7. Do not incinerate the Battery Cartridge even if it is severely damaged or is completely worn out. The battery cartridge can explode in a fire.
8. Be careful not to drop, shake or strike battery.
9. Do not charge inside a box or container of any kind. The battery must be placed in a well ventilated area during charging.

3 Putting into operation

3.1 Controls and Operating Notes

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

- The mains voltage must be the same as that show on the nameplate. The charger may only be connected to an AC supply.
- Avoid all contact with the moving shearing blades.
- Even when the machine is switched off, do not handle the area of the shearing blades as long as the machine is connected to a battery cartridge. Always disconnect the power supply before corking on the shearing blades/shearing head.
- Avoid touching any machine which is in contact with any liquids. Never shear 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.
- An electric cable lying loose on the ground for any distance can snag and become a source of danger. Before starting to charging, lay the cable out carefully and safely. Avoid any kinks in the power cable and prevent it becoming entangled. Animals must not stand on or walk across the power cable or caught in it. Never wrap the power cable around the machine and keep it 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 to OFF (**Figure 2**) before replace the battery cartridge.
- Wear suitable work clothes. Do not wear any loose fitting clothing or items of jewellery which could get caught up in moving machine parts. We would recommend in the strongest terms that protective goggles and ear protectors are worn.
- Never insert any object into any of machine's apertures.
- 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 unauthorized 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 setting the clipper blades with the Adjusting screw

Before putting into operation, make adjustment as follows:

Before clipping:

With the machine switched off, tighten the Adjusting screw (part 22) until the first resistance is noticeable. Then tighten the adjusting screw a further 1/4 turn. (**Figure 3**)

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 (**Figure 3**). If this adjustment does not produce the desired result, the clipper blades should be reshaped.

The clipping system works with much less pressure having to be applied than with traditional animal clipping machines. Care should be taken, therefore, to ensure 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.

3.3 lubrication

Before and During clipping

A thin layer of oil on the upper and lower blades (**Figure 4, part 28+33**) is essential for good clipping result and so as to increase the life of the machine and its clipper blades. All other moving parts in the clipping head must also be well-oiled. Place a few drips of oil on the clipper blades and pour some into the lubricating holes provided on the clipper head (**Figure 4, part 3**).

Only use our special oil or a paraffin oil meeting the ISO VG15 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.

Poor lubrication is the most frequent cause of unsatisfactory clipping results. Inadequately oiled clipper blades will overheat, leading to reduced blade life.

The clipping blades and clipper head must be adequately lubricated during clipping (at least every 15 minutes) so that they do not run dry.

3.4 Switching On/Off

There are two positions on the slide switch (**Figure 2**).

Position 1: Machine switched on

Position 2: Machine switched off

Always use the slide switch (**Figure 2**) when switching the machine on and off.

Check the switch position before replacing battery cartridge.

3.5 Replace battery cartridge

1. Always switch off the tool before insertion or removal of the battery cartridge.
2. To remove the battery cartridge, withdraw it from the clipper while pressing the buttons on both sides of the battery cartridge. (**Figure 5**)
3. To insert the battery cartridge, align the tongue on the battery cartridge with the groove in the housing and slip it into place. Always insert it all the way until it locks in place with a little click. If not, it may accidentally fall out of the tool, causing injury to you or someone around you.

4. Do not use force when inserting the battery cartridge. If the battery cartridge does not slide in easily, it is not being inserted correctly.
5. A full charge lasts approximately 1.5-2 hours. Battery cartridge is automatically stopped when the output power is low (output voltage is less than 8V).

CAUTION:

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

3.6 Charging

1. Plug the battery charger into the proper AC voltage source. The charging light will flash in green color.
2. Insert the battery cartridge so that the plus and minus terminals on the battery cartridge are on the same sides as their respective markings on the charger. Insert the cartridge fully into the port so that it rests on the charger port floor.
3. When the battery cartridge is inserted, the charging light color will change from green to red and charging will begin. The charging light will remain lit steadily during charging.
4. When the charging light color changes from red to green, the charging cycle is complete.
5. If you leave the battery cartridge in the charger after the charging cycle is complete, the charger will switch into its “trickle charge (maintenance charge)” mode.
6. After charging, unplug the charger from the power source.
7. A full charge takes between 2 and 3 hours.

NOTE:

- The battery charger is for charging GTS battery cartridge. Never use it for other purposes or for other manufacturer’s batteries.
- When you charge a new battery cartridge or a battery cartridge which has not been used for a long period of time, it may not accept a full charge. This is a normal condition and does not indicate a problem. You can recharge the battery cartridge fully after discharging it completely and recharging a couple of times.
- If you charge a battery cartridge from a just operated tool or a battery cartridge which has been left in a location exposed to direct sunlight or heat for a long time, the charging light may flash in red color. If this occurs, wait for a while. Charging will begin after the battery cartridge cools. The battery cartridge will cool faster if you remove the battery cartridge from the battery charger.
- If the charging light flashes alternately in green and red color, charging is not possible. The terminals on the charger or battery cartridge are clogged with dust or the battery cartridge is worn out or damaged.

3.7 malfunctions

See the list of malfunctions in section 5 “Repairs” for the rectification of malfunctions.

4 Servicing

Before starting any servicing work .disconnect the power supply; remove the battery cartridge. 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 / clipper head .always first disconnect the power supply.

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.

4.2 Fitting the clipper blade

A pair of clipper blades consists of a lower blade (**Figure 6, part 28**).and an upper blade (**Figure 6, part 33**).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 (**Figure 7, part 22**) and place the machine on a hard surface so that the blade fixing screws (**Figure 6, part 29**) 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 surface (**Figure 7**). Now push the new lower blade between the loosened screws (**Figure 7**)

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. (**Figure 8**)

Once you have adjusted the clipper blades. Set the position of the lower blade and tighten up the blade fixing screws. (**part 29**)

4.3 Resharpener the clipper blades

Only work with sharp shearing 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 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 on a dark background may only be carried out by an authorized service centre.

Details of authorized service centre are be found at the end in the “contact addresses” section.

5.2 Mclfunction Lists

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

MALFUNCTION	CAUSE	RECTIFICATION
Upper blades move little	Crank drive block (part 32) lost	Replace Crank drive block
	Laminated spring (part 27) completely broken	Replace Laminated springs on both sides
	Crank drive block (part 32) and/or Crank spindle (part 19) are worn out	Replace Crank drive block Have Crank spindle replaced
Upper blade does not move	Faulty Gear (part 17)	Replace Gear
Pressure adjustment screw jams	Thread is fouled or rusty (part 22)	Clean and oil thread
	Pressure spring (part 23) has jammed	Have Pressure spring replaced
There is play in the Laminated spring in the head anchorage	Fixing screws loose	Tighten fixing screws
Driving carrier has too much play between the laminated springs	Laminated spring and/or fixing screws are worn out	Have Laminated spring and/or fixing screws replaced
Driving carrier can only be moved up and down with difficulty	Centering bush lost	Have new Centering bush fitted
Cuts badly not at all	Clipper blades are blunt	Have upper and lower blade resharpened by service centre
	Clipper blades have not been correctly ground	
	Clipper blades are not oiled	Oil clipper blades every 15 minutes
	Clipper tension too low	Increase pressure by tightening the regulating screw (Figure 3)
	Laminated spring are broken	Have Laminated spring replaced
	The animal's hair is wet	Only clip when dry
	Hair jammed between upper and lower blades	Disassemble blades, clean well and oil; then refit and increase pressure
	Too much play in clipper head	Have clipper head inspected
	Spacing between upper and lower clipper blades incorrectly adjusted	Adjust spacing correctly
Power cuts out	Battery cartridge is be overloaded	Unplug clipper. Clean, oil, and correctly tension the blades.
	Battery cartridge charge is low	Recharge the Battery cartridge
	Switch is broken	Replace Switch
	Motor is broken	Have Motor replaced
	Switch push plate is broken	Have Switch push plate replaced
Loose connection	Use a qualified repairer	
Other	Possible malfunction	Have clipper checked by a qualifies repairer

6 Environmental protection and disposal

6.1 Introduction

The owner has a duty to disuse of the clipper blades as well as of the clipping machine properly at the end of its service life. Please observe your relevant national regulations.

6.2 Recycling the Battery

The only way to dispose of a GTS battery is to recycle it. The law prohibits any other method of disposal. To recycle the battery:

1. Remove the battery from the tool.
2. a) Take the battery to your nearest GTS Factory Service Center.
b) Take the battery to your nearest GTS Authorized Service Center or Distributor that has been designated as a GTS battery recycling location.

Call your nearest GTS Service Center or Distributor to determine the location that provides GTS battery recycling.

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 from illustration
Rubber	39
Polyamide	1/5/7/9/10/11/13/34/38
Iron/steel	1/4/11/12/15/16/17/18/19/20/21/22/23//25/26/27/28/29/30/31/32/33/35/40
Copper/ Brass	1/5/8/9/11/13/36/37/39
Aluminum	24/36/37
battery	1
Other materials	1/6/9/11/14/17/36/37/39

Illustration

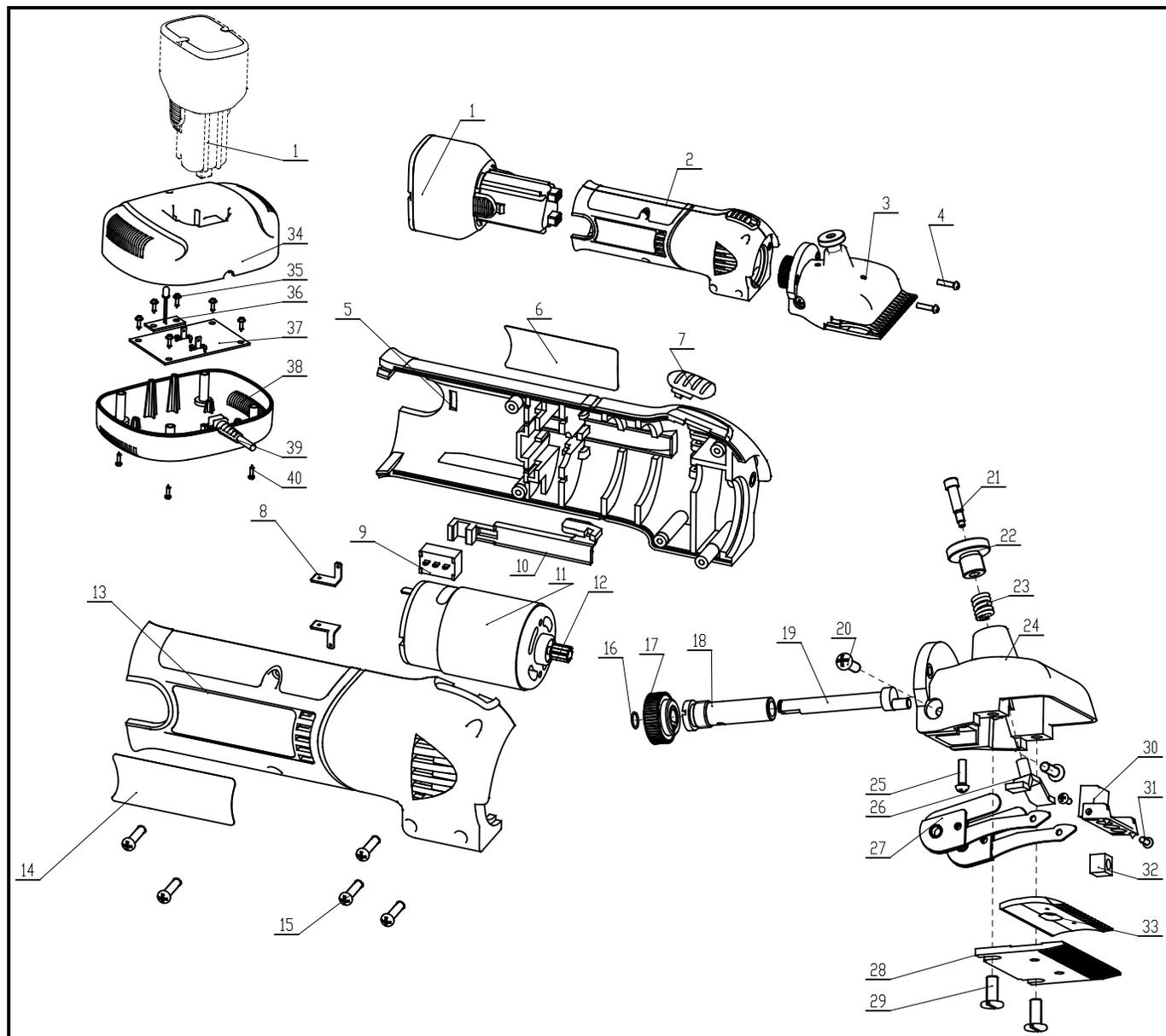


Figure 1

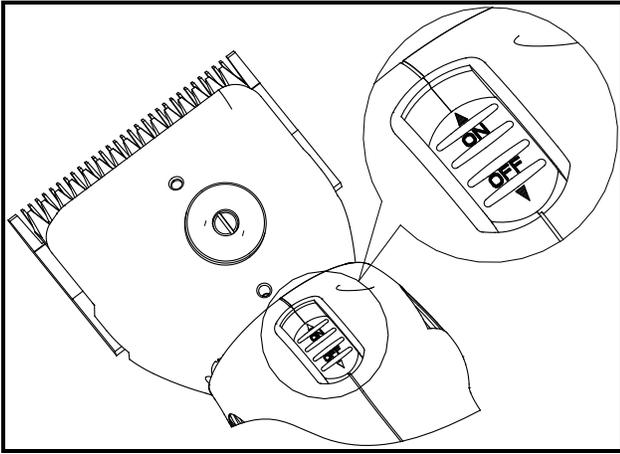


Figure 2

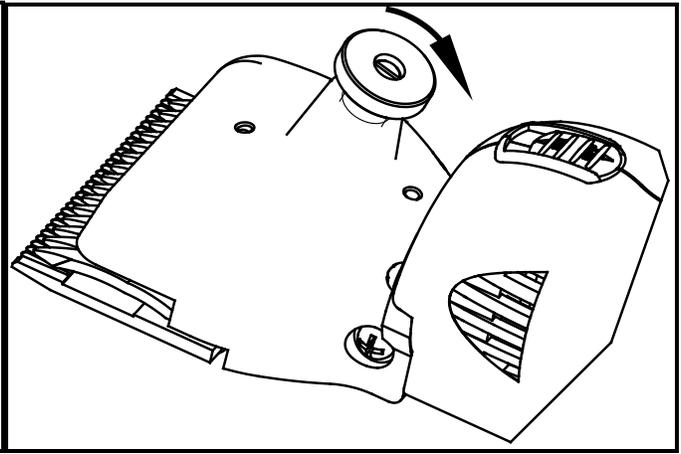


Figure 3

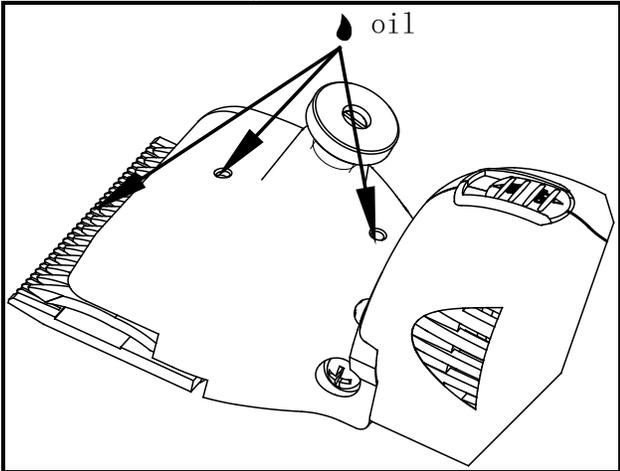


Figure 4

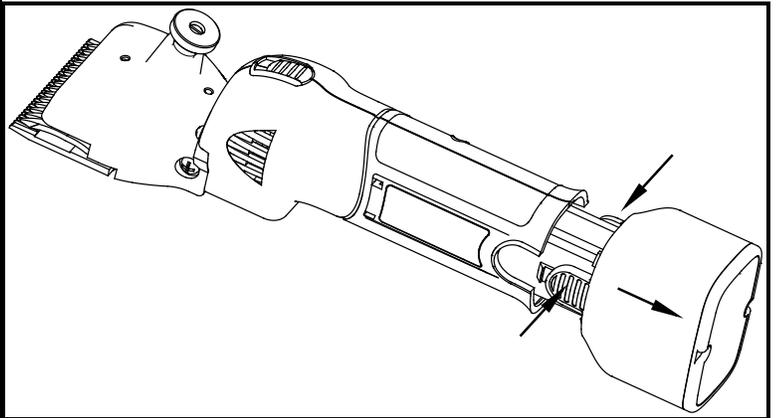


Figure 5

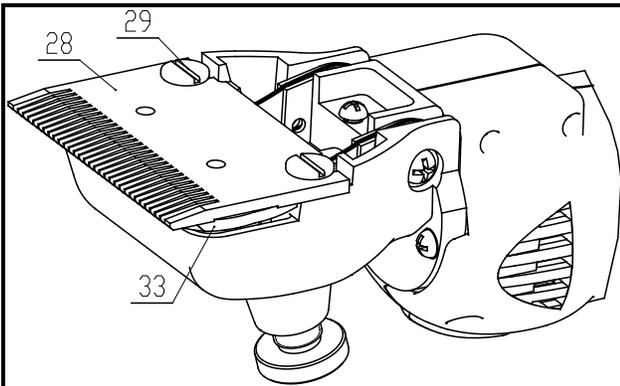


Figure 6

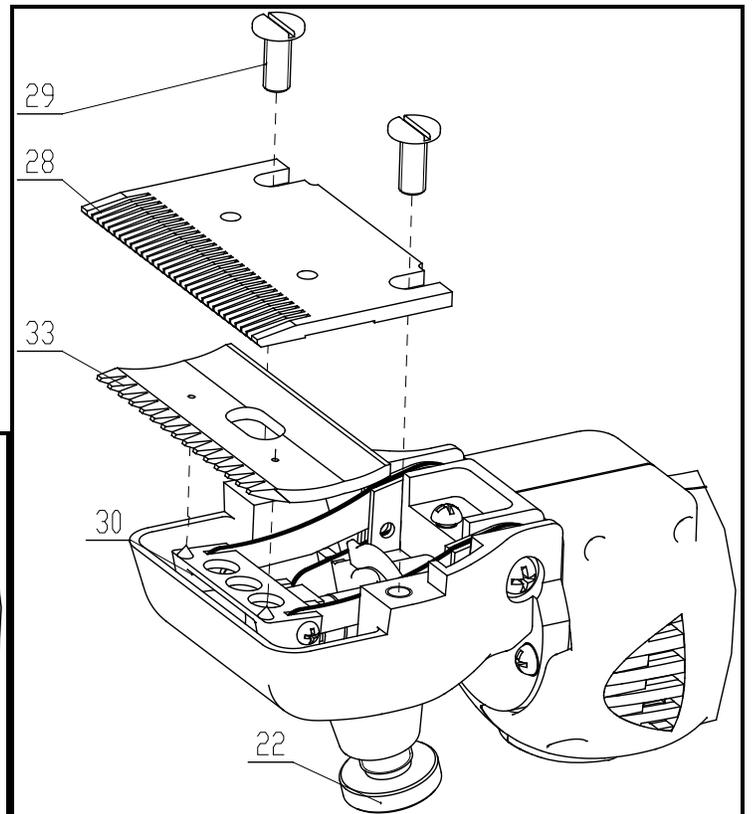


Figure 7

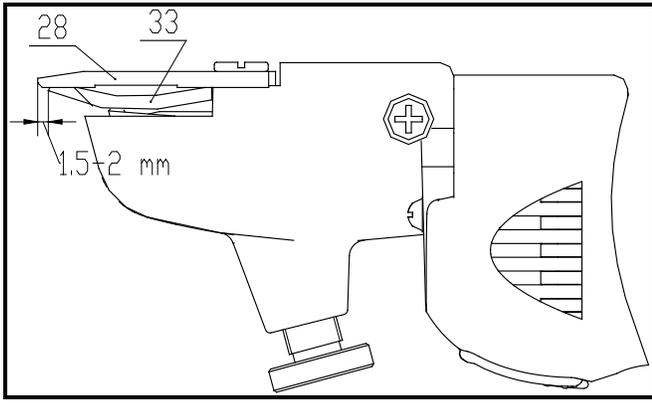


Figure 8

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