

ENGLISH: Original instructions

LITTLE BEAVER

INSTRUCTION MANUAL

Hedge Trimmer

DUEHET-20V-4AH



Read before use.

SPECIFICATIONS

Model No	DUEHET-20V-4AH
Rated Voltage	20V d.c.
No-load Speed	1300 RPM
Blade Length	50cm
Blade Gap	16mm
Blade Type	Double, Laser Cut
Charing Time	up to 160 min
Run Time	up to 96 min
Protection	IPX1

Battery Charger

Model No	DUACHG1-20V-2AH/4A
Rating	input:100-240VAC 50/60Hz 45W max output:21VDC 1.5A 34W max
Protection	IPX4

Battery

Model No	DUABAT-20V-4AH
Technical data	20V 4Ah 80Wh
Protection	IPX0

Recommended operating temperature	14 – 104°F (-10– 40°C)
Recommended storage temperature	32 – 104°F (0 – 40°C)
Recommended charging temperature	41 – 95°F (5 – 35°C)

⚠WARNING: Only use the Authorized battery cartridges and chargers . Use of any other battery cartridges and chargers may cause injury and/or fire.

⚠WARNING: Do not use a corded power supply such as battery adapter or portable power pack with this machine. The cable of such power supply may hinder the operation and result in personal injury.

Intended use

Our hedge trimmer have been designed for trim-ming hedges, shrubs and brambles. This tool is intended for consumer use only.

Safety instructions

General power tool safety warnings



Warning! Read all safety warnings and all instructions. Failure to follow the warnings and instructions listed below may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains operated (corded) power tool or battery operated (cordless) power tool.

1. Work area safety

- Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2. Electrical safety

- Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs with earthed (grounded) power tools.** Unmodified plugs and matching outlets will reduce risk of electric shock.
- Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.**

Use of an RCD reduces the risk of electric shock.

3. Personal safety

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
 - Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
 - Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents.
 - Remove any adjusting key or wrench before turning the power tool on.** A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
 - Do not overreach. Keep proper footing and balance at all times.** This enables better control of the power tool in unexpected situations.
 - Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts.** Loose clothes, jewellery or long hair can be caught in moving parts.
 - If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used.** Use of dust collection can reduce dust-related hazards.
- #### 4. Power tool use and care
- Do not force the power tool. Use the correct power tool for your application.** The correct power tool will do the job better and safer at the rate for which it was designed.
 - Do not use the power tool if the switch does not turn it on and off.** Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
 - Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools.** Such preventive safety measures reduce the risk of starting the power tool accidentally.
 - Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or**

these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

- e. **Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use.** Many accidents are caused by poorly maintained power tools.
 - f. **Keep cutting tools sharp and clean.** Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
 - g. **Use the power tool, accessories and tool bits etc. In accordance with these instructions, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from those intended could result in a hazardous situation.
5. **Battery tool use and care**
- a. **Recharge only with the charger specified by the manufacturer.** A charger that is suitable for one type of battery pack may create a risk of fire when used with another battery pack.
 - b. **Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.
 - c. **When battery pack is not in use, keep it away from other metal objects, like paper clips, coins, keys, nails, screws, or other small metal objects, that can make a connection from one terminal to another.** Shorting the battery terminals together may cause burns or a fire.
 - d. **Under abusive conditions, liquid may be ejected from the battery; avoid contact. If contact accidentally occurs, flush with water. If liquid contacts eyes, additionally seek medical help.** Liquid ejected from the battery may cause irritation or burns.
6. **Service**
- a. **Have your power tool serviced by a qualified repair person using only identical replacement parts.** This will ensure that the safety of the power tool is maintained.

Additional power tool safety warnings

Warning! Additional safety warnings for hedge

@ trimmers

- ◆ **Keep all parts of the body away from the cutter blade. Do not remove cut material or hold material to be cut when blades are moving. Make sure the switch is off when clearing jammed material.** A moment of inattention

while operating the tool can result in serious personal injury.

- ◆ **Carry the hedge trimmer by the handle with the cutter blade stopped. When transporting or storing the hedge trimmer always fit the cutting device cover.** Proper handling of the hedge trimmer will reduce possible personal injury from the cutter blades.
- ◆ **Hold the power tool by insulated gripping surfaces only, because the cutter blade may contact hidden wiring.** Cutter blades contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
- ◆ The intended use is described in this instruction manual. The use of any accessory or attachment or performance of any operation with this tool other than those recommended in this instruction manual can present a risk of personal injury and/or damage to property.
- ◆ Do not carry the tool with your hands on the front handle, switch or the trigger switch unless the battery has been removed.
- ◆ If you have not used a hedge trimmer before, preferably seek practical instruction by an experienced user in addition to studying this manual.
- ◆ Never touch the blades while the tool is running.
- ◆ Never attempt to force the blades to come to a standstill.
- ◆ Do not put the tool down until the blades have come to a complete standstill.
- ◆ Regularly check the blades for damage and wear. Do not use the tool when the blades are damaged.
- ◆ Take care to avoid hard objects (e.g. metal wire, railings) when trimming. Should you accidentally hit any such object, immediately switch the tool off and check for any damage.
- ◆ Should the tool start to vibrate abnormally, immediately switch it off and remove the battery then check for any damage.
- ◆ If the tool stalls, immediately switch it off. Remove the battery before attempting to remove any obstructions.
- ◆ After use, place the blade sheath supplied over the blades. Store the tool, making sure that the blade is not exposed.
- ◆ Always ensure that all guards are fitted when using the tool. Never attempt to use an incomplete tool or a tool with unauthorised modifications.
- ◆ Never allow children to use the tool.
- ◆ Be aware of falling debris when cutting the higher sides of a hedge.

- ◆ Always hold the tool with both hands and by the handles provided.

Safety of others

- ◆ 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.

Residual risks.

Additional residual risks may arise when using the tool which may not be included in the enclosed safety warnings. These risks can arise from misuse, prolonged use etc.

Even with the application of the relevant safety regulations and the implementation of safety devices, certain residual risks can not be avoided. These include:

- ◆ Injuries caused by touching any rotating/moving parts.
- ◆ Injuries caused when changing any parts, blades or accessories.
- ◆ Injuries caused by prolonged use of a tool. When using any tool for prolonged periods ensure you take regular breaks.
- ◆ Impairment of hearing.
- ◆ Health hazards caused by breathing dust developed when using your tool (example:- working with wood, especially oak, beech and MDF.)

Vibration

The declared vibration emission values stated in the technical data and the declaration of conformity have been measured in accordance with a standard test method provided by EN 60745 and may be used for comparing one tool with another. The declared vibration emission value may also be used in a preliminary assessment of exposure.

Warning! The vibration emission value during actual use of the power tool can differ from the declared value depending on the ways in which the tool is used. The vibration level may increase above the level stated.

When assessing vibration exposure to determine safety measures required by 2002/44/EC to protect persons regularly using power tools in employment, an estimation of vibration exposure should consider, the actual conditions of use and the way the tool is used, including taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time.

Labels on tool

The following pictograms are shown on the tool along with the date code:

 **Warning!** To reduce the risk of injury, the user must read the instruction manual.

 Wear safety glasses or goggles when operating this tool.

 Wear ear protection when operating this tool.

 Do not expose the tool to rain or high humidity.

Electrical safety

Additional safety instructions for batteries and chargers

Batteries

- ◆ Never attempt to open for any reason.
- ◆ Do not expose the battery to water.
- ◆ Do not store in locations where the temperature may exceed 40 °C.
- ◆ Charge only at ambient temperatures between 5 °C and 35 °C.
- ◆ Charge only using the charger provided with the tool.
- ◆ When disposing of batteries, follow the instructions given in the section "Protecting the environment".

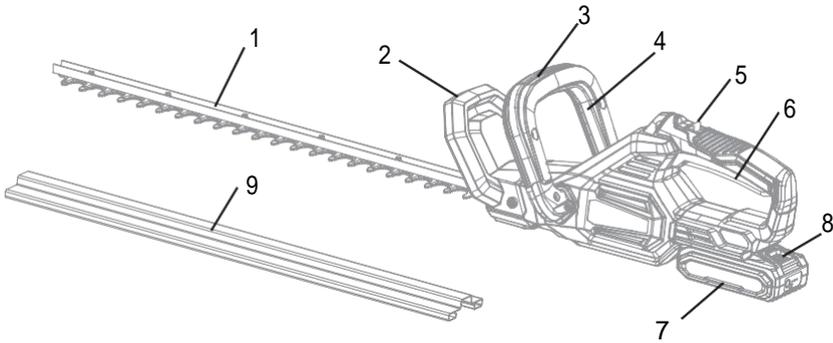
 Do not attempt to charge damaged batteries.

Chargers

- ◆ Use our authorized charger only to charge the battery in the tool with which it was supplied. Other batteries could burst, causing personal injury and damage.
- ◆ Never attempt to charge non-rechargeable batteries.
- ◆ Have defective cords replaced immediately.
- ◆ Do not expose the charger to water.
- ◆ Do not open the charger.
- ◆ Do not probe the charger.

 The charger is intended for indoor use only.

KNOWING YOUR HEDGE TRIMMER



- | | |
|--------------------|------------------------|
| 1. Blade | 6. Rear Switch |
| 2. Guard | 7. Battery Pack |
| 3. Front Handle | 8. Battery Locking Tab |
| 4. Front Switch | 9. Blade Cover |
| 5. Lock-Off Switch | |

FIG 1

ASSEMBLY AND ADJUSTMENTS

⚠ WARNING: Always be sure that the tool is switched off and the battery is disconnected before adjusting, adding accessories, or checking a function on the tool.

INSTALLING OR REMOVING THE BATTERY PACK (FIG 2)

IMPORTANT! The battery pack is not fully charged when it is purchased. Before using the hedge trimmer for the first time, charge the battery pack. Make sure to read all safety precautions and follow the instructions in the Charging Battery section.

⚠ WARNING: Always be sure that the tool is switched off before insertion or removal of the battery pack.

- To install the battery pack, slide the battery pack (7) into the end of the tool housing all the way until it locks in place with a click, as shown in FIG 2. Lightly pull on the battery to ensure it is locked into place and will not accidentally fall out of the tool.
- To remove the battery pack, pull the battery pack away from the tool while depressing the battery locking tab (8).

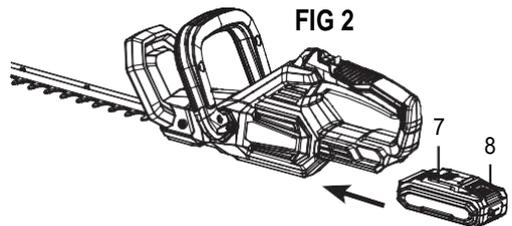


FIG 2

IMPORTANT! DO NOT remove the blade assembly unless it needs sharpening, straightening, or replacing. Take it to a qualified person for repair.

OPERATION

!WARNING: To avoid personal injury:

- Handle the blade with care.
- Do not place your fingers or hand between the notches in the blade or in any position where they could get pinched or cut.
- Never service the blade or hedge trimmer unless the battery pack is removed.
- Do not use if the blade assembly is damaged or bent. Take to a qualified person to straighten, replace, or sharpen.
- Always keep both hands on the hedge trimmer handles to prevent your hand from touching the blade.

APPLICATIONS

You may use this product for the purposes listed below.

- Trimming hedges, shrubs, and bushes with branch diameters less than 16mm

Before each use, inspect the entire product for damaged, missing, or loose parts such as screws, nuts, bolts, caps, etc. Securely tighten all fasteners and caps and do not operate this product until all missing or damaged parts are replaced.

HOLDING THE HEDGE TRIMMER

The unit has both a front and rear handle. With the blade directed away from you, hold the unit by both handles. The switch in the front handle can be activated on any of the three sides, giving you many choices for a comfortable grip when performing cutting operations.

!WARNING: Always keep both hands on the hedge trimmer handles. Never hold shrubs with one hand while operating the hedge trimmer with the other hand. Failure to heed this warning may result in serious injury.

STARTING AND STOPPING THE HEDGE TRIMMER (FIG 3)

The hedge trimmer has two switches and a lock-off button used together to prevent accidental start-ups.

1. Place one hand on the front handle (3). Depress the front switch (4) and hold.
2. Push the lock-off button (5) forward with thumb of your other hand, then squeeze the rear switch (6) to start the hedge trimmer.
3. Release the lock-off button. The hedge trimmer will stay on as long as both front and rear switches are squeezed on.
4. The hedge trimmer will stop if you release either front or rear switch.

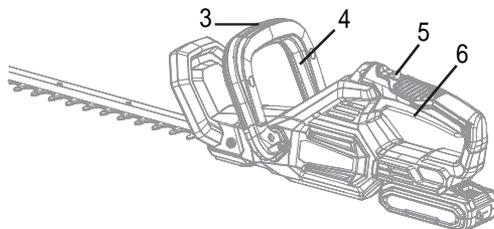


FIG 3

OPERATION

USING THE HEDGE TRIMMER

⚠WARNING: Clear the area to be cut before each use. Remove all objects such as cords, lights, wire, or loose string which can become entangled in the cutting blade and create a risk of serious personal injury.

- Before starting the hedge trimmer, maintain proper footing and balance and do not overreach. Wear safety goggles, non-skid footwear and rubber gloves.
- Hold the unit with both hands with the cutting blades directed away from you. Always use the hedge trimmer properly.
- Do not trim too much at one time. This can cause the blades to bind and slow, reducing the cutting efficiency.
- Do not force the hedge trimmer through heavy shrubbery. This can cause the blades to bind and slow down. If the blades slow down, reduce the pace of your work.
- Always cut stems or twigs that are less than 3/4" thick. Use a non-powered hand saw or pruning saw to trim large stems.
- When trimming new growth, use a wide sweeping action, so that the stems are fed directly into the cutting blade. Older growth will have thicker stems and will be trimmed most easily by using a sawing movement.
- Always hold hedge trimmer with both hands when operating. Use a firm grip on the handles. The unit is used for cutting in either direction in a slow, sweeping action from side to side.

MAINTENANCE

CLEANING

Avoid using solvents when cleaning plastic parts. Most plastics are susceptible to damage from various types of commercial solvents and may be damaged by their use. Use clean cloths to remove dirt, dust, oil, grease, etc.

⚠ WARNING: Do not at any time let brake fluids, gasoline, petroleum-based products, penetrating oils, etc., come in contact with plastic parts. Chemicals can damage, weaken or destroy plastic which may result in serious personal injury.

Electric tools used on fiberglass material, wallboard, spackling compounds, or plaster are subject to accelerated wear and possible premature failure because the fiberglass chips and grindings are highly abrasive to bearings, brushes, commutators, etc. Consequently, we do not recommend using this tool for extended work on these types of materials. However, if you do work with any of these materials, it is extremely important to clean the tool using compressed air.

SHARPENING THE CUTTING BLADE

1. Start and stop your hedge trimmer until the cutter blade and the guard are slightly offset. This will allow clearance for the file between cutter teeth and guard teeth.
2. Remove the battery pack from your hedge trimmer.
3. Clamp the blade assembly in a vise and file the exposed cutting surface of each blade tooth. Remove as little material as possible. Be sure to retain the original angle of each tooth when filing.
4. Remove the hedge trimmer from the vise; restart it and stop it to expose the unsharpened edges of the blade teeth.
5. Remove the battery pack and repeat the sharpening procedure above.

LUBRICATING THE BLADE

For best operation and longer blade life, lubricate the hedge trimmer blade with light weight machine oil before and after each use.

1. Remove the battery pack from the hedge trimmer.
2. Lay the hedge trimmer on a flat surface. Apply some light weight machine oil along the edge of the top blade. If you will be using the hedge trimmer for an extended period, it is advisable to stop, remove the battery, and oil the blade during use.

NOTE: Do not oil the blade while the hedge trimmer is running.

TRANSPORTING AND STORING

- Always place the blade cover on the blade before storing or transporting the hedge trimmer. Use caution to avoid the sharp teeth of the blade.
- Clean the hedge trimmer thoroughly before storing.
- Store the hedge trimmer indoors, in a dry place that is inaccessible to children.
- keep away from corrosive agents such as garden chemicals and deicing salts.

⚠ WARNING: Blades are sharp. When handling the blade assembly, wear non-slip, heavy-duty, protective gloves. Do not place your hand or fingers between blades or in any position where they could get pinched or cut. NEVER touch blades or service the unit with battery pack installed.

TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	SOLUTION
Motor fails to start when switch is depressed.	Battery is not secure. Battery is not charged.	To secure the battery pack, make sure the latches on the top of the battery pack snap into place. Charge the battery pack according to the instructions included with your model.
Motor runs but cutting blades do not move.	Hedge Trimmer damaged.	Call your Dealer. Do not use hedge trimmer.
Hedge trimmer smokes during operation.	Hedge Trimmer damaged.	Call your dealer. Do not use hedge trimmer.
Motor hums, blades do not move.	Debris or other may be jamming the blades.	Remove battery, clear debris blockage from blades.

Protecting the environment

Z Separate collection. Products and batteries marked with this symbol must not be disposed of with normal household waste.

Products and batteries contain materials that can be recovered or recycled reducing the demand for raw materials. Please recycle electrical products and batteries according to local provisions.