Erbauer®

ERF437SDS

2 Year Guarantee

24V SDS PLUS HAMMER DRILL

Original Instructions
(Version 1.0)

Erbauer®

Congratulations on your purchase of a quality power tool from Erbauer (UK) Ltd. This product should give you reliable service but for your peace of mind this Erbauer power tool does carry a 2 year guarantee, the terms of which are detailed below.

If this product develops a fault within the guarantee period contact your retailer.

Please retain this handbook in case you need to refer to safety, care or guarantee information in the future.

GUARANTEE

This Erbauer product carries a 2 year guarantee. If your product develops a fault within this period, you should in the first instance contact the retailer where the item was purchased.

This guarantee specifically excludes losses caused due to:

- Fair wear and tear
- Misuse or abuse
- Lack of routine maintenance
- Failure of consumable items (such as batteries)
- Accidental damage
- Cosmetic damage
- Failure to follow manufacturer's guidelines
- Loss of use of the goods

This guarantee does not affect your statutory rights. This guarantee is only valid in the UK.

For any enquiries relating to the guarantee please refer to your retailer.

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24V SDS PLUS HAMMER DRILL

⚠ CAUTION

This is a very powerful Drill.
When using this drill it is essential that the following rules for use are followed!

1. **When drilling it is common that the drill bit jams in the material being drilled. This will result in the drill trying to rotate around the drill bit and potentially come out of your grip. This SDS Drill has a safety clutch mechanism. This safety clutch mechanism will be activated and stop the drive to the drill bit BUT only if you resist the initial forces caused by the jamming by securely holding the drill with both hands. As this is a very powerful drill these forces are significant.**
2. **ALWAYS ensure that the front handle is firmly affixed and secure.**
3. **The Front and rear handle must be firmly held to resist any movement of the drill when the drill or drill bit becomes jammed.**
4. **ALWAYS use this drill when standing on a firm and secure platform or the ground. (DO NOT USE ON LADDERS OR STEPS)**
5. **NEVER Start the Drill with the core or drill jammed in position.**
6. **DO NOT stretch to hold the drill. Do not drill above shoulder height or below Knee height, as the drill cannot be securely held.**
7. **This unit is not suitable for use with TCT core drill bits and diamond core drill bits and diamond drill bits.**

GENERAL POWER TOOL SAFETY WARNINGS

Warning! Read all safety warnings and all instructions. Failure to follow the warnings and instructions 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**
   a. Keep work area clean and well lit. Cluttered or dark areas invite accidents.
   b. 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.
   c. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2. **Electrical safety**
   a. 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.
   b. 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.
   c. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
   d. 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.
   e. 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.
   f. 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**
   a. 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.
   b. 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.
   c. 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.
   d. 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.
   e. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.

f. 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.
g. 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**
a. 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.
b. 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.
c. 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.
d. 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 tool's 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 designed 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 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 SAFETY INSTRUCTIONS FOR YOUR ROTARY HAMMER

1. Always wear ear protectors. Exposure to noise can cause hearing loss.
2. Always use auxiliary handles supplied with the tool. Loss of control can cause personal injury.
3. Safety boots are recommended at all times especially when using the chisel actions.
4. Wear work gloves to protect fingers from bruising and abrasions.
5. When using chisel a dust mask is necessary because of the cement dust created by the action.
6. Hold power tools by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring or its own cord. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
7. Use clamps or a vice to hold workpiece, if possible.
8. This heavy duty high torque machine should not be used while standing on a ladder.
9. Before starting to work always check that the chisel or drill bit is properly locked in the chuck.
10. Hold the tool firmly with both hands while working and provide for secure footing. The tool is more securely guided with both hands.
11. Wait until the machine has come to a standstill before placing it down. The insertion tool can be come caught and lead to loss of control over the machine.
12. Do not use drill bit larger than recommended for this tool.
13. Do not touch the bit or parts close to the bit immediately after operation. They may be extremely hot and could burn your skin.
14. In cold weather or when the tool has not been used for a long time, let the tool warm up for a while by operating it under no load. This will loosen up the lubrication.
15. Some material contains chemicals which may be toxic. Take caution to prevent dust inhalation and skin contact. Follow material supplier safety date.
16. Rags, cloths, cord, string and the like should never be left around the work area.

ADDITIONAL SAFETY RULES FOR CHARGER

1. Before using the charger, read all the instructions and cautionary markings on the charger and battery pack as well as the instructions on the battery pack.
2. Only charge your battery pack indoors as the charger is designed for indoor use only.
3. DANGER: If the battery pack is cracked or damaged in any way, do not insert it in the charger. There is a danger of electric shock or electrocution.
4. Do not allow any liquid to come into contact with the charger. There is a danger of electric shock.
5. The charger is not intended for any use other than charging the exact type of rechargeable battery pack as supplied with the charger. Any other use may result in the risk of fire, electric shock or electrocution.

6. The charger and battery pack supplied with it are specifically designed to work together. Do not attempt to charge the battery pack with any other charger than the one supplied.
7. Do not place any object on top of the charger as it could cause overheating. Do not place the charger near any heat source.
8. Pull on the plug to disconnect it from the power source. Do not pull on the lead.
9. Make sure that the charger lead is positioned where it will not be stepped on, tripped over or otherwise subjected to damage or stress.
10. Do not use an extension cord unless it is absolutely necessary. The use of an improper extension cord could cause the risk of fire, electric shock or electrocution.
11. Do not use the charger if it has been subjected to a heavy knock, dropped or otherwise damaged in any way. Take the charger to an authorised service centre for a check or repair.
12. Do not disassemble the charger. Take it to an authorised service centre when service or repair is required. Incorrect re-assembly may result in the risk of fire, electric shock or electrocution.
13. To reduce the risk of an electric shock unplug the charger from the power supply before attempting to clean it. Removing the battery pack alone does not reduce the risk.
14. The charger is designed for use from a standard household electrical supply. Do not attempt to connect the charger to a supply with a different voltage.

ADDITIONAL SAFETY RULES FOR BATTERY PACK

1. To ensure the longest battery life and best battery performance, always charge the battery when the temperature is between 18-24℃(65-75° F). Do not charge the battery pack when the temperature is below 0℃(32° F), or above 40℃(104° F). This is important. Failure to observe this safety rule could cause serious damage to the battery pack.
2. Do not incinerate the battery pack even if it is seriously damaged or can no longer hold a charge. The battery pack can explode in a fire.
3. A small leakage of liquid from the battery pack may occur under extreme usage or temperature. This does not necessarily indicate a failure of the battery pack. However, if the outer seal is broken and this leakage comes into contact with your skin:
   - Wash the affected area quickly with soap and water.
   - Neutralise the liquid with a mild acid such as lemon juice or vinegar. If the leakage gets in your eyes.
   - Flush your eyes with clean water for a minimum of 10 minutes and seek immediate medical attention.
4. Never attempt to open the battery pack for any reason. If the plastic housing of the battery pack breaks open or cracks, immediately discontinue its use and do not recharge it.
5. Do not store or carry a spare battery pack in pocket or toolbox or any other place where it may come into contact with metal objects. The battery pack may be short circuited causing damage to the battery pack, burns or a fire. If storing or disposing the battery pack, cover the terminals with a heavy insulation tape to ensure short circuit can not occur. Batteries, when stored for a long period of time, will discharge.
6. Do not store or use the tool and battery pack in locations where the temperature may reach or exceed 40℃(104° F) such as alongside sheds or metal structures in the summer.

HEALTH ADVICE

Warning! When drilling, sanding, sawing or grinding, dust particles will be produced. In some instances, depending on the materials you are working with, this dust can be particularly harmful to you (e.g. lead from old gloss paint).
You are advised to consider the risks associated with the materials you are working with and to reduce the risk of exposure. You should:
-Work in a well-ventilated area.
-Work with approved safety equipment, such as those dust masks that are specially designed to filter microscopic particles.

VIBRATION

The European Physical Agents (Vibration) Directive has been brought in to help reduce hand arm vibration syndrome injuries to power tool users. The directive requires power tool manufacturers and suppliers to provide indicative vibration test results to enable users to make informed decisions as to the period of time a power tool can be used safely on a daily basis and the choice of tool.
Further Advice can be found at www.hse.gov.uk

Vibration total values (triax vector sum) determined according to EN 60745:	
Work mode description 1 (hammer & drill mode)	Vibration emission value $a_{h,HD}$=7.62m/s² (main handle)
	Vibration emission value $a_{h,HD}$=7.21m/s² (auxiliary handle)
	Uncertainty K=1.5m/s²
Work mode description 2 (only hammer mode)	Vibration emission value $a_{h,Cheq}$ =7.42m/s² (main handle)
	Vibration emission value $a_{h,Cheq}$ =4.05m/s² (auxiliary handle)
	Uncertainty K = 1.5m/s²

The declared vibration emission value should be used as a minimum level and should be used with the current guidance on vibration.
Calculating the actual period off use can be difficult and the HSE website has further information.

The declared vibration emission has been measured in accordance with a standardised test stated above and may be used to compare one tool with another tool.
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 dependant on the following examples and other variations on how the tool is used:
How the tool is used and the materials being cut or drilled.
The tool being in good condition and well maintained.
The use of the correct accessory for the tool and ensuring it is sharp and in good condition.
The tightness of the grip on the handles.
And the tool is being used as intended by its design and these instructions

While working with this power tool, hand/arm vibrations occur. Adopt the correct working practices in order to reduce the exposure to vibration.

This tool may cause hand-arm vibration syndrome if its use is not adequately managed.

Warning: Identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (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).Note The use of other tools will reduce the users' total working period on this tool.

Helping to minimise your vibration exposure risk.
ALWAYS use sharp chisels, drills and blades.
Maintain this tool in accordance with these instructions and keep well lubricated (where appropriate).
Avoid using tools in temperatures of 10ºC or less.
Plan your work schedule to spread any high vibration tool use across a number of days.

Health Surveillance
All employees should be part of an employer's health surveillance scheme to help identity any vibration related diseases at an early stage, prevent disease progression and help employees stay in work.

Important Note
Be sure the supply is the same as the voltage given on the rating plate. The tool is fitted with a two-core cable and plug.
Remove the mains plug from socket before carrying out, any adjustment or servicing.
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.

Torque Limiter
There is a clutch in your hammer drill.
The torque limiter will actuate when a certain torque level is reached. The motor will disengage from the output shaft. When this happens, the bit will stop turning.
As soon as the torque limiter actuates, release the trigger and remove the tool and bit immediately. This will help prevent premature wear of the tool.

SYMBOLS

 Read the manual

 Warning

 Conforms to relevant safety standards

 Wear gloves

 Wear dust mask

 Wear ear protection

 Wear eye protection

 Indoor use only

 Do not expose to rain or wate

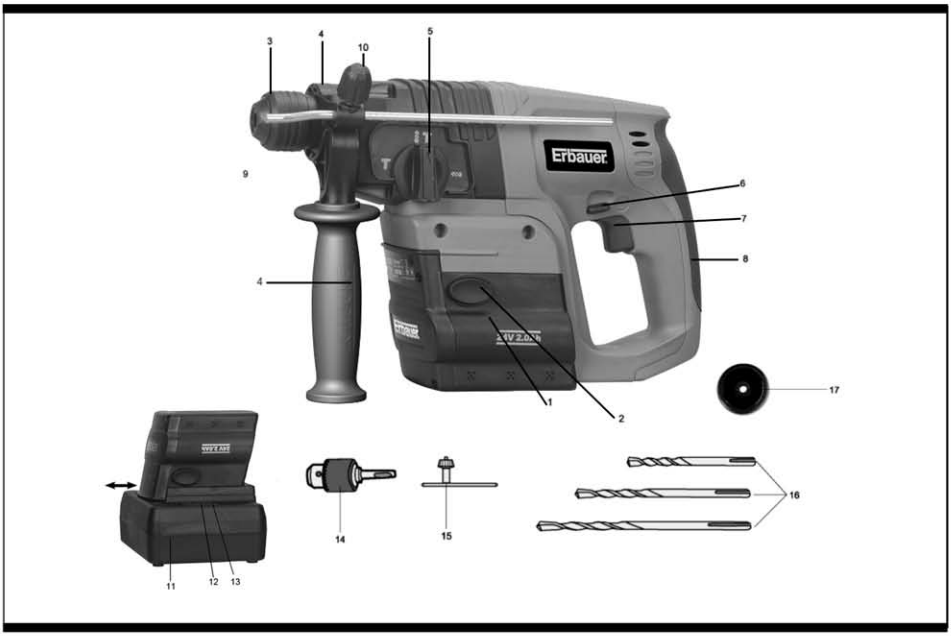
 Do not burn

 Do not dispose of batteries. Return exhausted batteries to your local collection or recycling point.

Always charge the battery pack between temperatures 0°C to 30°C

70 Min. charging time

RyyWxx Manufacturing date code; Year of manufacturing (20yy) and week of manufacturing (Wxx); “R”: Complies with Directive 2002/95/EC on the restriction of the use of certain hazardous substances in electrical and electronic equipment.



1. BATTERY PACK
2. BATTERY PACK RELEASE BUTTONS
3. SDS DRILL CHUCK
4. AUXILIARY HANDLE
5. IMPACT OR DRILL OR CHISEL FUNCTIDH SELECTION SWITCH
6. FORWARD AND REVERSE ROTATION SWITCH
7. ON/OFF SWITCH
8. HANDLE
9. DEPTH GAUGE
10. DEPTH GAUGE LOCK KNOB
11. BATTERY CHARGER
12. RED LIGHT(CHARGING INDICATOR)
13. GREEN LIGHT(CHARGING INDICATOR)
14. 13MM KEYED DRILL CHUCK* (Not for use in hammer action)
15. DRILL CHUCK KEY
16. SDS DRILL BITS
17. DUST CAP

* Keyed drill chuck can only be used in rotary mode. It is not suitable for chisel or hammer action.

TECHNICAL DATA

Voltage	24V ⎓
No load speed	0-800/min^{-1}
Impact rate	0-4,250min^{-1}
Impact energy	1.7J
Drilling capacity in wood	20 mm
Drilling capacity in steel	10 mm
Drilling capacity in masonry	20 mm
Charger input	230-240V~50Hz 1.07-0.57A
Charger output	25.8V⎓ 2.0A
Battery capacity	2.0Ah Ni-Cd
Charging time	Approx. 70min
Net weight	4.1 kg

NOISE DATA

Sound pressure level:	86dB(A)
Sound power level:	97dB(A)
Uncertainty:	3dB(A)
Wear ear protection when sound pressure is over	85dB(A)

ACCESSORIES

Auxiliary handle & depth gauge	1pc
SDS drill bits(6X120/8X150/10X150mm)	3pcs
Charger	1pc
Battery pack(2.0Ah Ni-Cd)	2pcs
***Keyed drill chuck**	1pc
Chuck key	1pc
Dust cap	1pc

Warning:

The keyed chuck can only be used in rotary mode, eg drilling wood. So it is not suitable for chisel or hammer action.

CHARGING PROCEDURE

NOTE: Before using the tool, read the instruction book carefully.

This DC tool is a 24V SDS plus drill hammer with 3 mode function, drill, hammer drill and chisel facility, supplied with 2 x 2,0Ah Ni-Cd batteries.This drill hammer is intended for the drilling of concrete, stone, and brick, as well as for light chisel work.

1.BEFORE USING YOUR CORDLESS HAMMER DRILL

The battery pack for this tool has been shipped in a low charge condition. You should charge the battery pack fully before use.

When you charge new batteries or batteries that have not been used for long periods of time they may not reach full charge until they have been fully discharged in use and recharged several times.

Warning: The charger and battery pack supplied with this unit are specifically designed to work together. Do not attempt to use other batteries or battery chargers. Never insert or allow metallic objects into your charger or battery pack connections because an electrical failure and hazard will occur.

2. TO CHARGE THE BATTERY PACK (See Fig.1)

Connect the battery charger to the correct power supply and the green light (13) will flash. Then fully insert the battery pack into the charger to make the connections and the red light (12) will illuminate to show charging has started. A discharged battery at normal room temperature will take approximately 70 minutes to reach full capacity.

When charging is completed the green light (13) will illuminate to indicate end of charge. Unplug the charger and then remove the battery pack. ALWAYS disconnect the charger from the power source when it is not in use.

Warning: When battery runs out after continuously use or exposure to direct sunlight or heat, the battery will become hot. It can't start charging immediately.

Fig 1

The red light (12) will flash to indicate a battery is too hot to begin re-charging. Allow time for the battery to cool down before re-charging (it may take more than one hour which depends on the room temperature).

Note: Green Light flashing = charger power on, battery was not inserted.

Red Light on=charging
Green light on=fully charged
Red Light flashing=Battery is too hot to re-charging

3. TO REMOVE OR INSTALL BATTERY PACK

To remove the battery pack (1) from the tool, firmly press and hold on the battery pack release button (2) and slide the battery pack out of the tool. To install the battery pack (1).align the raised ribs on the battery pack (1) with the grooves inside the tool, firmly press and hold on the battery pack release button (2) and slide the battery pack fully onto the tool until the battery pack "clicks' into position. Make sure the release button on the battery pack snaps back in place and battery pacts is secured in the tool before operating.

OPERATING INSTRUCTIONS

1. ADJUSTING THE AUXILIARY HANDLE

(See Fig.2）

Turn the handle grip clockwise to loosen the collar and slip it over the chuck onto the tool.

Adjust the position of the auxiliary handle to suit the application, locate the keyway on the collar of the drill into the appropriate slot in the clamp of the auxiliary handle, then tighten the handle anti-clockwise to secure it in place.

Fig 2

The auxiliary handle can be swivelled around 360° to find the position that offers most comfort and the easiest operation. To change the position of the handle, loosen the clamp by turning the handle, partially remove the handle to free the keyway from the slot, reposition the handle and then retighten it.

Warning! For reasons of safety, only use the drill when it is fitted with the auxiliary handle, making sure the auxiliary handle is sufficiently tightened to stop movement in use.

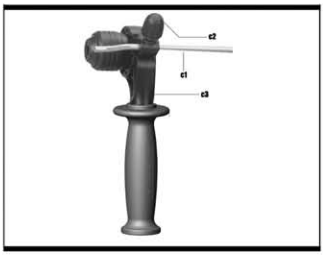


Fig 3

2. INSTALLIHG THE DEPTH GAUGE (See Fig.3)

The depth gauge (C1) helps keep an accurate depth when drilling holes to a set depth. To use the depth gauge, loose the lock knob(C2),insert the depth gauge through the hole in the handle, slide the depth gauge through the hole to a position that you want to set the depth. Tighten the lack knob(C2) will lock the depth gauge in the set position.

To set the drilling depth for your work, place the drill bit tip onto the work piece,loose the lock knob (C2) and slide the depth gauge through the hole until it makes contact with the work piece. Determine the depth of hole required and slide the depth gauge back from the work piece by this amount, checking the depth with a steel ruler for more accurate measurement if necessary. Tighten the lock knob(C2) to lock the gauge in position. Drill into the work piece until the depth gauge touch the work piece.

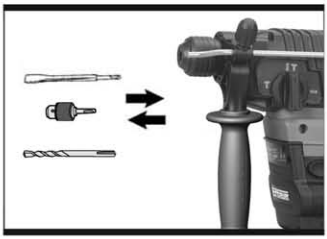


Fig 4

3. FITTING SDS TOOLS (See Fig.4)

Clean the bit shank and apply a little grease before installing the bit. Hold the rotary grip, pull back the lock sleeve and insert the SDS tool into the bit holder. Turn the bit and push it in until a resistance is felt, the shaft drops completely into bit holder.
Once you are satisfied it has seated, release the black lock sleeve. This should lock the SDS tool into position.
After installing always make sure that the tool is securely held in bit holder by trying to pull it out.
If the SDS drill bit is not located repeat the installation operation again.

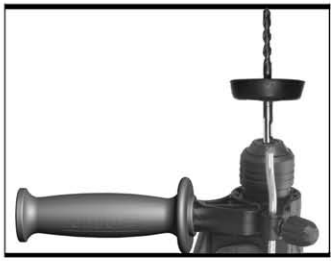


Fig 5

4. USING THE DUST CAP (See Fig.5)

The dust cap (19) can be used to give added protection against dust and debris entering the SDS chuck. Place the cap over the shank of the bit and slide it forward until it rests against the shoulder of the bit.
Insert the SDS tool into the SDS chuck as normal.

5. REMOVE SDS TOOL(See Fig.4)

To remove the tool, pull back the locking sleeve, hold and pull the toot out

6. OPERATING THE ON/OFF SWITCH (See Fig.6)
Start the tool by squeezing the variable speed trigger switch. Release the trigger to stop the tool.

7. USING THE VARIABLE SPEED CONTROL (See Fig.6)
This tool has a variable speed switch (7) that delivers higher speed and torque with increased trigger pressure. Speed is controlled by the amount of switch trigger depression. The variable speed feature enables you to select the best speed for aparticular application.

NOTE: It is recommended that the variable speed feature is used for a short time only. Running at a very low speed for a long time may make the motor overheated.

8. FORWARD/REVERSE CONTROL (See Fig.7)
To select forward rotation, release the trigger switch and push the forward/reverse control (6) to the right side of the tool. To select reverse, push the forward/reverse control (6) to the left side of the tool. The centre position of the control locks the trigger (7) in the off position.

Warning: When changing the position of the forward /reverse control (6), make sure the trigger switch (7) is released and the motor is stationary.

9. HAMMER DRILL FUNCTION (See Fig.8)
1) For drilling concrete, masonry etc, turn the selector switch to make the triangle point to the action "T"
2) You are new set up for drilling & hammer function.

10. DRILLING FUNCTION (See Fig.9)
1) Turn the selector switch to make the triangle point the action "T"
2) You are now set up for drilling function.

Fig 6

Fig 7

Fig 8

Fig 9

24V SDS PLUS HAMMER DRILL

11. CHISEL FUNCTION (See Fig.10)

1) Turn the selector switch to make the triangle point to the action "T".

2) You are now set up for chisel function.

Warning: You must make sure that the selector switch is positively locked in chisel mode position. If not, it could cause a hazard.

Fig 10

12. USING THE KEYED DRILL CHUCK (See Fig.11)

This cordless hammer drill comes supplied with a 13mm drill chuck with a SDS adaptor. This drill chuck is used for drilling on wood and steel or used for screw driving. Do not use this drill chuck for hammer drilling or chiseling on any work piece.

Fit the drill chuck to the SDS chuck holder as section 3 (Fitting SDS tools).

Used the chuck key to tighten or loosen the drill bits. Turning the key clockwise firmly to tighten the drill bit. Please firmly tighten the drill bit by turning the tree positions on the chuck.

Turning the key anti-clockwise to loosen the drill bit.

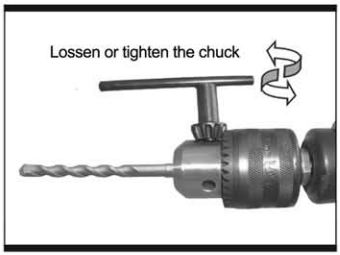


Fig 11

Warning: DO NOT use the keyed drill chuck for hammer drilling action or chiselling action! Remove the key from the chuck before starting the tool!

13. DISPOSAL OF AN EXHAUSTED BATTERY PACK

Please recycle or dispose of the battery pack properly. This battery pack contains nickel cadmium batteries. Consult your local waste authority for information regarding available recycling and/or disposal options. Discharge your battery pack by operating your tool, then remove the battery pack from the tool and cover the battery pack terminals with heavy duty adhesive tape to prevent short circuit. Do not attempt to open or remove any of the components.

WORKING HINTS FOR YOUR TOOL

1,Reduce the pressure on the drill bit when it is about to break through. This will prevent the drill from jamming.
2.When drilling a large hole on steel plate, first drill a pilot hole using a smaller drill bit.
3.Always apply pressure to your drill bit in a straight line, and if possible at right angles to the workpiece.
4.Never change the operating mode while the drill is running.
5.Do not apply excessive pressure to the tool when chiseling. Expressive force does not speed up the work.
6.To attain the best life from the battery.
Never allow the battery to completely discharge before recharging. The battery pack should be placed on the charger whenever the battery pack is noticeably running down or the tool no longer performs a task it previously performed. Avoid conducting short charges. Make sure that the battery is fully charged every time by allowing the charger to complete its full charging cycle. Avoid allowing lose items like screws or nails etc.,to be stored with battery packs as these or similar items can short battery packs and cause a fire or explosion. Always unplug the charger when not in use and store in a dry secure place. Avoid charging or storing your battery in temperatures below 0° C（32° F）and above 40° C(104° F). Allow hot battery packs to cool down for approximately 30 minutes before attempting to recharge.

MAINTENANCE

1, Always grease the shank end of bits before insertion.
2, Never use water or chemical cleaners to clean your power tool. Wipe clean with a dry cloth.
3, Always store your power tool in a dry place.
4, Keep the motor ventilation slots clean.
5, If you see some sparks flashing in the ventilation slots, this is normal and will not damage your power tool.
6, Carbon brushes are used inside this tool. Carbon brushes may be worn out after a period of use. Take the machine to the qualified repair person for replacement of carbon brushes.
7, Periodically check that all nuts, bolts and other fixings of the tool are properly tightened.

8, If the charger supply cord needs replacing, the task must be carried out by the manufacturer, and the manufacturer's agent, or an authorised service centre in order to avoid a safety hazard.

TROUBLESHOOTING

1. REASONS FOR DIFFERENT CHARGING TIMES

Battery charge time can be effected for many reasons. These are not defects in your product. If the battery pack is only partly discharged it may be re-charged in less than 70 minutes. If the battery pack and ambient temperature are very cold then re-charging may take 2 hours. Please allow battery packs to cool to room temperature before recharging. ALWAYS ALLOW AT LEAST 15 MINUTES BETWEEN BATTERY PACK CHARGING. The battery charger can become overheated and will not charge battery packs until it has cooled to room temperature.

2. REASONS FOR DIFFERENT BATTERY PACK WORKING TIMES

Charging time issues, as detailed above, and having not used a battery pack for a prolonged time will reduce the working life of the battery pack. This can be corrected after several charge and discharge operations by charging & working with your drill. Heavy working conditions such as drilling into hard concrete will use up the battery pack energy faster than lighter working conditions. Do not re-charge your battery pack below 0° C and above 30° C as this will affect performance.

3. CARBON BRUSHES ARE USED INSIDE THIS TOOL.

Carbon brushes may be worn out after a period of use, if the machine runs erratically and/or noisily or can not start, the brushes may be worn. Please take the machine to the qualified repair person for replacement of carbon brushes.

ENVIRONMENTAL PROTECTION

Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice. For further information visit www.recyclemore.co.uk

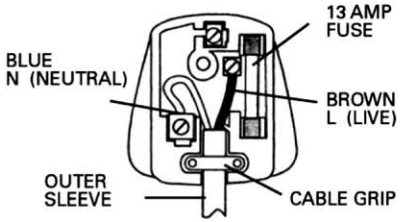
PLUG REPLACEMENT

If you need to replace the fitted plug of the charger then follow the instructions below.

IMPORTANT
The wires in the mains lead are coloured in accordance with the following code:
BLUE =NEUTRAL
Brown = Live

As the colour of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows. The wire which is coloured blue must be connected to the terminal which is marked with N. The wire which is coloured brown must be connected to the terminal which is marked with L.

Warning:Never connect live or neutral wires to the earth terminal of the plug. **Only fit an approved 13AMP BS1363/A plug and the correct rated fuse.**
Note: If a moulded plug is fitted and has to be removed take great care in disposing of the plug and severed cable, it must be destroyed to prevent engaging into a socket.



Erbauer®

Declaration of Conformity

We, Importer
Erbauer (UK) LTD BA22 8RT

Declare that the product
24V SDS PLUS HAMMER DRILL
ERF437SDS

Complies with the essential health and safety requirements of the following directives:
2006/42/EC Machinery Directive
2006/95/EC Low Voltage Directive
2004/108/EC Electromagnetic Compatibility Directive
2002/95/EC Restrictions of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment
2002/96/EC and 2003/108/EC Waste Electrical and Electronic Equipment (WEEE)

Standards and technical specifications referred to:

EN 60745-1
EN 60745-2-6
EN 60335-1
EN 60335-2-29
EN 55014-1
EN 55014-2
EN 61000-3-2
EN 61000-3-3
EN 62233

Authorised Signatory and technical file holder
Date: 20/12/2012

Signature: P.C.Harries

Name: Peter Harries
Erbauer (UK) Ltd. Trade House, Mead Avenue, BA22 8RT
Quality Manager

CE

24V SDS PLUS HAMMER DRILL

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