

Erbauer®



ERB385DRL

2Year
Guarantee

900W PERCUSSION 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 further technical advice, spare parts or repair service (outside of guarantee) please contact the customer helpline number on 0845 607 6380.

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GENERAL SAFETY INSTRUCTIONS



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. 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.
- b) If the replacement of the supply cord is necessary, this has to be done by the manufacturer or his agent in order to avoid a safety hazard.**

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ADDITIONAL SAFETY POINTS FOR YOUR PERCUSSION DRILL

1. **Wear ear protectors when impact drilling.** Exposure to noise can cause hearing loss.
2. **Use auxiliary handle(s), if supplied with the tool.** Loss of control can cause personal injury.
3. **Hold power tool 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.
4. Do not use the drill near water.
5. Remove the plug from the socket before carrying out any adjustment, servicing or maintenance.
6. Fully unwind extension cords to avoid potential overheating.
7. When an extension cord is required you must ensure it has the correct ampere rating for your power tool and that it is in a safe electrical condition.
8. Ensure your supply voltage is the same as your tool rating plate voltage.
9. Your tool is double insulated for additional protection against a possible electrical insulation failure within the tool. 
10. Always check walls and ceilings to avoid hidden power cables and pipes.
11. After long working periods, external metal parts and accessories could be hot.
12. Wear eye protection when operating this tool.

 **Warning: Some dust particles created by power sanding, sawing, grinding, drill and other construction jobs contain chemicals known to cause cancer, birth defects or other reproductive harm.** Some examples of these chemicals are:

- Lead from lead-based paints.
- Crystalline silica from bricks and cement and other masonry products.
- Arsenic and chromium from chemically treated timber.

Your risk from these exposures varies, depending upon how often you do this type of work. To reduce your exposure to these chemicals:

- 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:	
Impact drilling into concrete	Vibration emission value $a_{hv}=14.68m/s^2$
	Uncertainty $K = 1.5m/s^2$
Drilling into metal	Vibration emission value $a_{hv}=2.36m/s^2$
	Uncertainty $K = 1.5m/s^2$

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 of the actual period off use can be difficult and the HSE website has further information.

The declared vibration emission 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 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.

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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 10°C 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 identify any vibration related diseases at an early stage, prevent disease progression and help employees stay in work.

Double insulation

The tool is double insulated. This means that all the external metal parts are electrically insulated from the mains power supply. This is done by placing insulation barriers between the electrical and mechanical components making it unnecessary for the tool to be earthed.

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.

SYMBOLS



To reduce the risk of injury, user must read instruction manual



Double insulation



Warning



Wear ear protection



Wear eye protection



Wear dust mask



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.

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.

900W PERCUSSION DRILL



-
1. KEYED CHUCK

 2. AUXILIARY HANDLE

 3. GEAR BOX SWITCH

 4. FORWARD AND REVERSE ROTATION CONTROL

 5. ON/OFF SWITCH

 6. SWITCH LOCK-ON BUTTON

 7. DEPTH STOP

 8. HAMMER OR DRILL SELECTOR

 9. CHUCK KEY
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900W PERCUSSION DRILL

TECHNICAL DATA

Rated voltage		230-240V~50Hz
Rated power		900W
Rated no-load speed	Gear 1	0-1300 /min
	Gear 2	0-2700 /min
Rated Impact rate	Gear 1	0-20800bpm
	Gear 2	0-43200bpm
Protection Class		□/II
Chuck capacity max.		13mm
Drilling capacity max	Steel	13mm
	Masonry	20mm
	Wood	40mm
Machine weight		2.7kg

NOISE AND VIBRATION DATA

A weighted sound pressure	L_{pA} : 95dB(A)
A weighted sound power	L_{wA} : 106dB(A)
K_{pA} & K_{wA} =3.0dB(A)	
Wear ear protection when sound pressure is over	80dB (A)



ACCESSORIES

Auxiliary handle	1pc
Masonry drill bit	2pcs
Wood drill bit	3pcs
Depth gauge	1pc
Chuck key	1pc

OPERATING INSTRUCTIONS



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

Intended Use

The machine is intended for impact drilling in brick, concrete and stone as well as for drilling in wood, metal and plastic.

1. ON/OFF SWITCH

Depress to start and release to stop your tool.

2. SWITCH LOCK-ON BUTTON

Depress on/off switch (5) then lock on button (6) (See Fig. 1), release on/off switch first and lock-on button second. Your switch is now locked on for continuous use. To switch off your tool just depress and release the on/off switch.

3. FORWARD AND REVERSE ROTATION CONTROL

For drilling and screwdriving use forward rotation marked “←” (lever is moved to the left). Only use reverse rotation marked “→” (lever is moved to the right) to remove screws or release a jammed drill bit (See Fig. 2).

Never change the direction of rotation when the tool is rotating, wait until it has stopped.



4. AUXILIARY HANDLE

Slide the handle onto the drill and rotate to the desired working position. To clamp the auxiliary handle rotate the handgrip clockwise. To loosen the auxiliary handle, rotate the hand grip anti-clockwise. Always use the auxiliary handle (See Fig. 3).

5. DEPTH STOP

Fit the drill bit or driver bit into the chuck. Loosen the depth stop by rotating the handle grip anti-clockwise. Slide the depth stop until the distance between the depth stop end and the drill/driver bit end is equal to the depth of hole/screw you wish to make. Then clamp the depth stop by rotating the handle clockwise.

6. HAMMER OR DRILLING CONTROL

When drilling masonry and concrete, choose the Hammer position . When drilling wood, metal, plastic and screwdriving choose the Drill position.  (See Fig. 4)

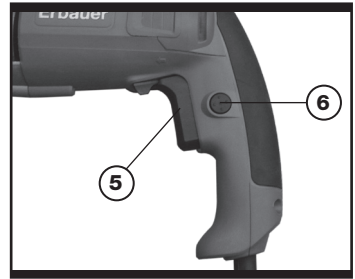


Fig. 1



Fig. 2

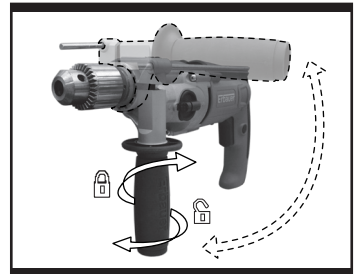


Fig. 3

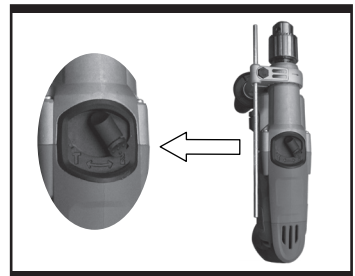


Fig. 4

900W PERCUSSION DRILL

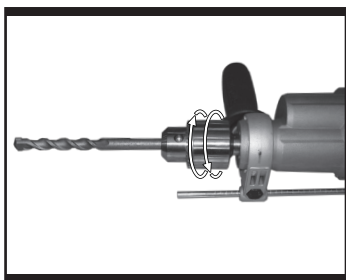


Fig. 5-1

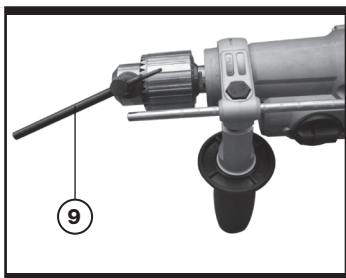


Fig. 5-2

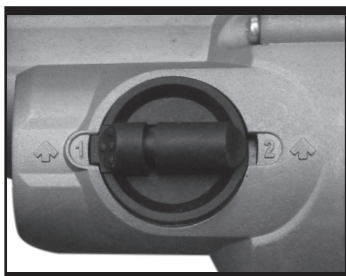


Fig. 6

7. INSERTING TOOLS KEYED CHUCK

Insert tool and tighten equally in all 3 bores with chuck key (9). Rotate chuck key (9) clockwise to tighten the chuck, and rotate it anti-clockwise to loosen the chuck. (See Fig. 5-1,5-2)

8. GEAR BOX SWITCH

Choose position 1 for high torque/low speed range for large diameter drill bits and screw driving. Choose position 2 for low torque/ High-speed range for small diameter drill bits. If the gears do not engage easily then rotate the chuck by hand to align the gears. Never change the gears when the tool is rotating, wait until it has stopped. (See Fig. 6)

WORKING HINTS FOR YOUR IMPACT DRILL

If your power tool becomes too hot, set the speed to maximum and run no load for 2-3 minutes to cool the motor. Tungsten carbide drill bits should always be used for concrete and masonry. When drilling in metal, only use HSS drill bits in good condition. Always use a magnetic bit holder when using short screwdriver bits.

Where possible use a pilot hole before drilling a large diameter hole.

MAINTENANCE

Remove the plug from the socket before carrying out any adjustment, servicing or maintenance.

Your power tool requires no additional lubrication or maintenance.

There are no user serviceable parts in your power tool. Never use water or chemical cleaners to clean your power tool. Wipe clean with a dry cloth. Always store your power tool in a dry place. Keep the motor ventilation slots clean. Keep all working controls free of dust. Occasionally you may see sparks through the ventilation slots. This is normal and will not damage your power tool. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

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.recycle-more.co.uk

900W PERCUSSION DRILL

PLUG REPLACEMENT (UK & IRELAND ONLY)

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

IMPORTANT

The wires in the mains lead are colored in accordance with the following code:

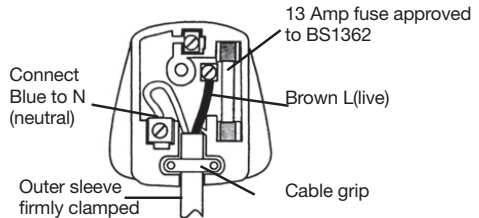
BLUE = NEUTRAL

BROWN = LIVE

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

EC DECLARATION OF CONFORMITY

We, Importer
Erbauer (UK) Ltd BA22 8RT

Declare that the product
Description: **900W Percussion drill**
Model: **ERB385DRL**

Complies with the following Directives,
EC Machinery Directive **2006/42/EC**
EC Electromagnetic Compatibility Directive **2004/108/EC**
EC Low Voltage Directive **2006/95/EC**

Restrictions of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment **2002/95/EC**
Waste Electrical and Electronic Equipment (WEEE) **2002/96/EC** and **2003/108/EC**

Standards conform to:

EN 55014-1
EN 55014-2
EN 61000-3-2
EN 61000-3-3
EN 60745-1
EN 60745-2-1

Authorised Signatory and technical file holder

Date: 07/04/11

Signature: P. C. Harries

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



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