

# **DIRECT POWER**



**12** month  
Full Manufacturer's  
Warranty

## **SAFETY AND OPERATING MANUAL**

**24V COMBI DRILL**

**BPI1240**



# **DIRECTPOWER**

**Congratulations on your purchase of a DIRECTPOWER power tool from Screwfix Direct Ltd. We want you to continue getting the best performance from it so this handbook includes information on safety, handling and care. Please retain this handbook in case you need to refer to any of the information in the future.**

**Your DIRECTPOWER power tool comes with a 12-month guarantee, so should it develop a fault within this period contact Screwfix Direct Ltd on Freephone 0500 41 41 41.**

## **GUARANTEE**

This DIRECTPOWER product carries a Screwfix Direct Ltd guarantee of 12 months. If your product develops a fault within this period, you should, in the first instance contact Screwfix Direct Ltd on Freephone 0500 41 41 41. If the fault occurs within the first 12 months, you may return the goods for a full refund or we will repair or replace the goods if you prefer. When repair is not practical or identical goods are not available, alternative goods of similar specification and quality will usually be provided but, failing this, you will be offered a partial or full refund depending on the time period since purchase.

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
- Repairs attempted by anyone, unless authorised by Screwfix Direct Ltd.

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.

# SAFETY INSTRUCTIONS



**WARNING!** Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury.

SAVE THESE INSTRUCTIONS

## 1. Work area.

**a. Keep work area clean and well lit.** Cluttered and 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. Use a Residual Circuit Breaker on all 230V Power tools.** This can help minimise the risk of an electrical shock if an earth fault or short circuits occurs.

**g. If using a power cable extension ensure that the cable is fully unwound and that its length is less than 30m.** Lengths over 30 m will effect the tools performance as a result of voltage drop.

## 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 safety equipment. Always wear eye protection.** Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.

**c. Avoid accidental starting. Ensure the switch is in the off-position before plugging in.** Carrying power tools with your finger on the switch or plugging in 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 these devices 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 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 tools operation. If damaged, have the power tool repaired before use.** Poorly maintained power tools cause many accidents.

**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 and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed.** Use of the power tool for operations different from intended could result in a hazardous situation.

#### **5. Battery tool use and care (Where applicable)**

**a. Ensure the switch is in the off position before inserting battery pack.** Inserting the battery pack into power tools that have the switch on invites accidents.

**b. 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.

**c. Use power tools only with specifically designated battery packs.** Use of any other battery packs may create a risk of injury and fire.

**d. 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.

**e. Battery leakage may occur under extreme usage or temperature conditions.** If battery fluid comes into contact with skin, wash with soap and water and rinse with lemon juice and vinegar. If the fluid comes into contact with the eyes, flush with water for several minutes and contact a doctor immediately.

## **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.

### **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.

# ADDITIONAL SAFETY INSTRUCTIONS FOR YOUR 24V COMBI DRILL

- 1.If the charger supply cord is damaged have it replaced by a qualified person.
- 2.Never burn batteries, they can explode in a fire.
3. Do not charge a leaking battery.
- 4.Do not use machines, attachments and chargers for works other than those for which they are designed.
- 5.Before drilling holes or screwing into a wall, use a metal-/voltage detector to ensure that you are not breaking into an electricity, gas or water supply line.
- 6.Before you lay down the Drill/Screwdriver, make sure that all moving parts have come to a stop.
7. Only connect the charging device to an AC supply.
8. Charge Drill/Screwdriver battery only with the appropriate charging device.
- 9.The charging device and the Drill/Screwdriver must be protected from moisture!
10. Do not use the charging device in the open.
- 11.To protect the batteries from damage, you should never expose them to temperatures above 50°C.
- 12.Do not short out the contacts of battery or charger.
- 13.Respect the polarity "+/-" when charging.
14. When charging batteries, ensure that the battery charger is in a well-ventilated area and away from flammable materials. Batteries can get hot during charging. Do not overcharge any batteries. Ensure that batteries and chargers are not left unsupervised during charging
15. Always use the appropriate safety equipment that is required for the product. e.g. Goggles / Safety Spectacles, Ear defenders (essential with tools with a noise rating of over 85 dbA), Gloves and face masks. In all cases ensure that the safety equipment is in good condition.
16. Ensure that if a side handle or stabilising handle is provided with the power tool then these are adjusted into a comfortable position and that both handles are used to securely grip the power tool when in use.

## SYMBOLS



Read the manual



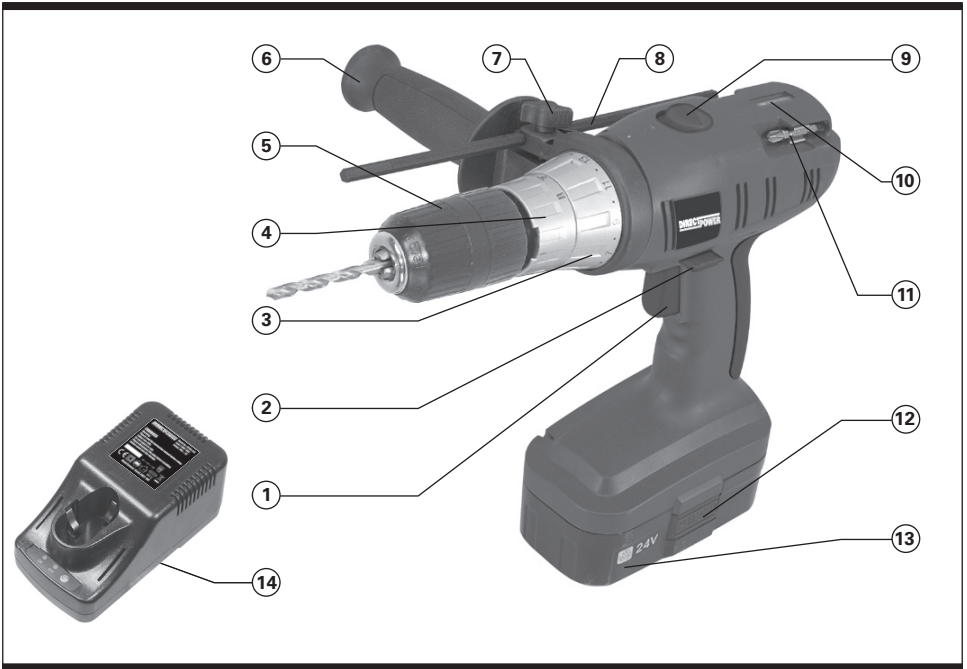
Warning



Wear gloves



Wear dust mask, eye & ear protection



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**1. VARIABLE SPEED TRIGGER SWITCH**

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**2. FORWARD REVERSE SWITCH**

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**3. TORQUE ADJUSTMENT RING**

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**4. HAMMER/DRILLING MECHANISM**

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**5. KEYLESS DRILL CHUCK**

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**6. HANDLE**

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**7. DEPTH GAUGE LOCKING SCREW**

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**8. DEPTH GAUGE**

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**9. TWO SPEED GEAR BOX SELECTOR**

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**10. BUBBLE LEVEL**

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**11. BIT STORAGE (ONE EACH SIDE)**

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**12. BATTERY RELEASE BUTTONS (ON BOTH SIDES)**

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**13. BATTERY PACK**

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**14. CHARGER**

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## TECHNICAL DATA

Battery Voltage:	24Vdc
Battery cell:	20 x 1.2Vdc
No load speed:	0~400/0~1200min <sup>-1</sup>
Chuck capacity:	2-13mm
Normal charging time:	1 hour
Battery capacity:	1.3Ah
Adaptor input data:	230Vac 50Hz
Adaptor output data:	24Vdc 2A
Weight:	2.6Kg

## NOISE AND VIBRATION DATA

Sound pressure level:	90dB (A)
Sound power level:	101dB (A)
Vibration level:	6.34m/s <sup>2</sup>

## ACCESSORIES

<b>Battery:</b>	<b>2pcs</b>
<b>Charger:</b>	<b>1pc</b>
<b>Drill bits:</b>	<b>6pcs(1.5 , 2.5 , 3 , 4 , 5 , 6 mm)</b>
<b>Screwdriver bits:</b>	<b>8pcs ( 2 Pozi , 2 PH , 2 Flat , 2 Double ended )</b> <b>( 1/2 1/2 4/5mm PH2/6mm Flat )</b>
<b>Bit adaptor:</b>	<b>1pc</b>

# RECHARGING BATTERIES

## 1. USING BATTERY PACKS

Before inserting the battery pack into drill: Ensure any fitting i.e. drill bits etc. have been fixed firmly and that any adjustment devices have been removed. The relevant fasteners have been secured tightly in place and the work piece is adequately secured. Always ensure the battery is disconnected before making any adjustments.

## 2. POWER CONNECTION

The fuse in the main plug on the charger should always be replaced with one of identical rating. Check the voltage given on the charger matches the supply voltage.

## 3. CHARGING THE BATTERY (see fig2)

The charger and drill in this pack are specifically designed to work together. Do not attempt to use the drill with any other charger or battery other than the charger and battery supplied with these products.

### Important notes for charging the battery

The battery is supplied UNCHARGED from the factory. It will be necessary to charge the battery for approximately 1 hour before use.

Do not charge a battery when it or the air temperature is below 4°C.

Between charges, rest the charger for at least 15 minutes.

In a warm environment or after heavy use, the battery pack may become too hot to permit charging. Allow time for the battery to cool down before recharging.

When the battery is charged for the first time and after prolonged storage, the battery will only accept approximately 60% charge. However, after several charge and discharge cycles the battery will accept a 100% charge.

## 4. TO CHARGE THE BATTERY (see fig3)

-Plug charger plug into a suitable 230-volt mains socket and insert the battery pack into the charger, the power indicator (green) will illuminate at this time.

-Press the 'Charging start button set' on the charger station the green light will switch off,

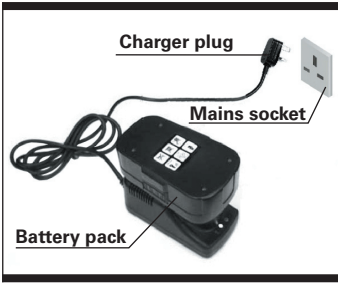


Fig 2

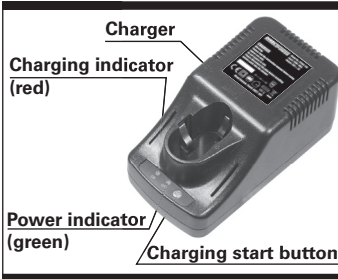


Fig 3

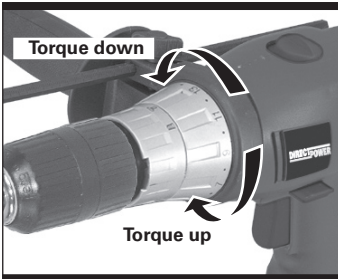


Fig 4

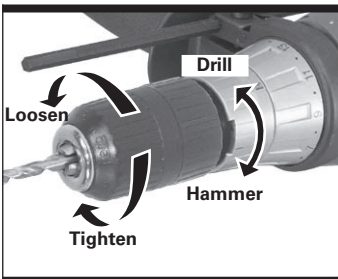


Fig 5

while the red light will illuminate to indicate that charging is taking place.

-When fully charged, the red light goes out but the green light switches back on. Switch off charger at the mains after charging.

**Note:** A fully discharged battery will take approximately 60 minutes to reach full charge after which the timer circuit inside the charger will activate to switch off the charging system. The battery pack is equipped with a safety cutout, which will operate if the internal temperature gets too high. When a partly discharged battery is charged, it may reach full charged before the time circuit is activated. In this case the safety cutout inside the battery pack will operate and terminate the charging process.

## OPERATING INSTRUCTIONS

### 1. TORQUE ADJUSTMENT (see fig4)

Your drill is fitted with a variable clutch, which is operated with the torque adjustment ring. Once adjusted, the clutch will work at a predetermined torque; this avoids screwing too deeply or damaging your drill. Torque adjustment varies with the types of screw used and the working material. Always start using a low torque and increase gradually to achieve suitable operation. For screwdriving action the arrow should be set at numbers 1 to 15 depending on the torque required for the job on hand.

For drilling action the arrow should be set at the drill symbol.

**Note:** If the torque is set too high, the drill bit may get stuck in the work piece! This is termed "stalling" immediately stop the drill to prevent overloading the motor and batteries.

### 2. DRILLING AND HAMMER (see fig5)

Drilling: Turn switch to drill symbol.

Hammer: Turn switch to hammer symbol.

-When drilling brickwork and stone:

Switch to hammer and use a suitable tungsten carbide tipped masonry drill bit.

-When drilling tiles:

Switch off hammer mechanism.

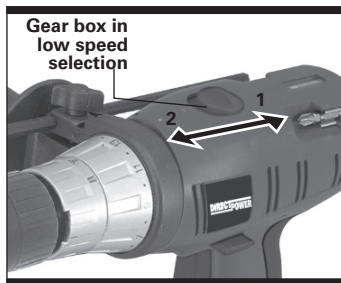


Fig 6

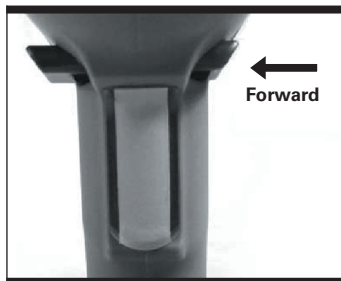


Fig 7

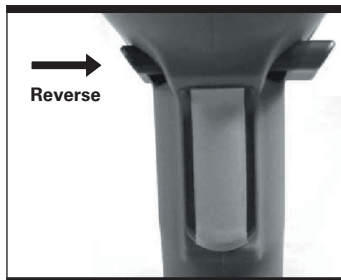


Fig 8



Fig 9



**Fig 10**

### **3. KEYLESS CHUCK-FITTING/REMOVING DRILLS**

To fit or remove a drill or adaptor open chuck by holding the bottom part of the chuck with one hand, and with the other hand turn the top part of the chuck anti-clockwise to open. Insert drill, drill must reach the bottom of the chuck. Turn top chuck clockwise to tighten.

### **4. TWO SPEED GEAR BOX SELECTOR**(see fig6)

To select high speed (0-1200min<sup>-1</sup>), slide selector to position "2"

To select low speed (0-400/min<sup>-1</sup>), slide selector to position "1"

### **5. ON/OFF SWITCH & VARIABLE SPEED CONTROL**

The variable speed control enables you to select the best speed for a particular job. The further you squeeze the control the fast the drill will operate.

### **6. FORWARD/REVERSE SWITCH**(see fig7, 8)

The forward /reverse switch enables you to change the rotation movement of the chuck, and also acts as a lock button. For forward rotation, release on/off switch, and then depress switch to right handle side, press switch to left hand side for reverse rotation, the centre position locks the drill to off. Always release the on/off switch when changing rotation. Note the first time you use the drill after changing rotation, you may hear a click when the drill is turned on, this normal and does not indicate a problem.

**Never change the forward/reverse switch whilst the drill is rotating as this can damage the drill.**

### **7. DRILLING WOOD AND PLASTIC**

To prevent splitting around the drill holes on the reverse side, place a scrap piece of timber under the material to be drilled. (see fig9)

### **8. DRILLING METAL**

Metals such as sheet steel, aluminum and brass maybe drilled. Mark the point to be drilled with a punch or nail to help the drill bit to locate. (see fig9)

### **9. SCREWDRIVER**

To prevent slip or damage to the screwhead, match the screwdriver bit to the screws, move

the direction switch to the Forward position and apply pressure to the screwhead and depress the trigger. (see fig10)

## **WORKING HINTS FOR YOUR COMBI DRILL**

### **1.GENERAL**

1. Your cordless drill is useful for both drilling holes and also for driving and removing screws.
2. Try to use the modern design of screws for easy driving and improved grip.
3. Use the correct speed for the job; don't try to drill on a slow speed; similarly don't try to drive screws on a high speed.
4. To prolong the life of your drill never overload the drill; if it slows down while drilling, remove and try again using less force on the drill. If the drill is straining because the battery pack charge is low, stop and recharge the battery pack.
5. Use slow speed for starting holes without a centre punch, drilling metals or plastic, driving screws and drilling ceramics, or any application requiring high torque.  
Use higher speeds for drilling wood and when using polishing accessories.
6. Always use only a soft, dry cloth to clean your drill; never use any detergent or alcohol. Disconnect the charger from the mains supply before cleaning.

### **2.HOLE DRILLING**

1. When attempting to drill a large diameter hole, it is sometimes best to start with a smaller drill bit then work up to the required size. This prevents overloading the drill.
2. Remember to use a "wood-pecker" action on deep holes to allow the swarf to be ejected from the hole.
3. If the drill bit snags, switch off the drill immediately to prevent permanent damage to the drill. Try a reverse drive to remove the bit.
4. Keep the drill in line with the hole. Ideally, the drill bit should enter at right angles to the work. If the angle is changed during drilling, this could cause the bit to snap off blocking the hole and perhaps causing injury.

### **3.SCREWDRIVING**

1. It is advisable to drill a pilot hole first, slightly longer and just smaller than the shank diameter of the screw to be fitted. The pilot hole will act as a guide for the screw and will also make tightening of the screw less difficult. When screws are positioned close to an edge of the material, a pilot hole will also help to prevent splitting of the wood.
2. Use the correct countersinking bit to accommodate the screw head so that it is not "proud" of the surface.
3. If the screw becomes difficult to drive home, remove and try a slightly larger or longer hole but remember there must be enough material for the screw to grip! If restarting a screw in a hole, locate and make the first few turns by hand. If the screw is still difficult (as when using very hard woods) try using a lubricant such as soap; liquid soap is usually best.
4. Keep sufficient pressure on the drill to prevent the turning out of the screw head. The screw head can easily become damaged making it difficult to drive it home or even remove it.

### **TROUBLESHOOTING**

Although your new cordless drill is really very simple to operate, if you do experience problems, check the following:

#### **1. Trigger will not depress**

The trigger will not depress if the forward/ lock/ reverse switch is in the locked position. Move to the forward or reverse position and try again.

#### **2. Trigger depresses but drill will not turn**

Movement of the drill is dependent upon sufficient charge in the battery pack. The battery charge will deplete if not used for long period of time. Try recharging the battery pack. Ensure that the battery pack is pressed fully home in the charger.

**NOTE:** The battery pack will only fit into the charge with + to + and – to –. The charge will not operate at extremes of temperature. The adaptor will get warm during charging but this is normal.

#### **3. Clutch ratchet prevents use**

The torque adjustment collar must be set to allow sufficient for the work in hand. Try setting the collar to the next higher setting.

#### **4. Battery pack leaks**

A small amount of leakage may occur at extremes of temperature or after heavy use. Wash off any leakage from hands, skin or clothes immediately with soap and water.

#### **5. Battery will not charge, light on charge will not show.**

If the battery will not charge check to see if the battery is properly inserted into the charging base, and make sure the indicator light is on, if not check that the charger plug from the charger is properly inserted into base unit. If not check the plug is connected with main socket, if not check the fuse in the plug.

#### **6. The drill body gets hot following extensive use**

Under normal load conditions the body, trigger and battery pack may heat up as energy absorbed during the drilling operation produces heat. This is quite normal. Simply allow the drill to cool off for 5 minutes.

#### **7. The battery pack gets warm during use**

The power-draw from the battery generates heat. This is increased as the energy draw increases. You will not damage the battery pack and the generated heat is normal. simply allow the drill to cool off prior to continuing work.

#### **8. The battery pack gets warm when charging**

This is normal, It is a result of the chemical reactions inside the batteries during the charging process.

#### **9. What does the two speed gearbox actually do?**

The two speed mechanical gearbox is similar to that used in a car. The low gear gives you a lot of torque (turning power). Use this gear when starting large holes, in steel and masonry, it will prevent stalling the chuck, The high position has reduced torque (turning power) but allows the drill to run at an increased RPM. The drill can then run at high speed and easily cut through wood and thin steel.

#### **10. The charger will get warm during charging**

This is normal, it's a result of the stepping down of the main supply from 230Vac to 24Vdc.

## 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.

## PLUG REPLACEMENT

The fuse in the main plug of your fast charger always is replaced with one of identical rating.

Check the voltage given on your fast charger matches the supply voltage.

The fast charger included with your power tool is supplied with a fitted plug, however if you should need to fit a new plug follows the instruction below.

### IMPORTANT

The wire in the mains lead are coloured in accordance with the following code:

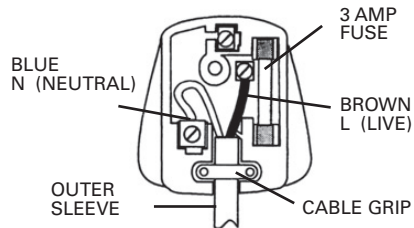
**Blue ---Neutral**

**Brown ---Live**

The wire that is coloured **blue** must be connected to the terminal that is marked with the letter **N**.

The wire that is coloured **brown** must be connected to the terminal that is marked with the letter **L**.

A 13AMP (BS1363 or BS1363/A) plug must be used and a 3 AMP fuse must be fitted.





**24V COMBI DRILL**

**BPI1240**



## Declaration of Conformity

We, Importer

**Screwfix Direct Ltd**

**Mead Avenue**

**Houndstone Business Park**

**Yeovil**

**BA 22 8RT**

Declare that the product

**COMBI DRILL**

**BP11240**

Complies with the essential health and safety requirements of the following directives:

**89/336 EEC, 93/68 EEC.** –EMC Directive.

**73/23 EEC, 93/68 EEC.** –Low Voltage Directive

**98/37 EC.** –Machinery Directive.

Standards and technical specifications referred to:

**EN 60745-1:2003/A1:2003**

**EN 60745-2-1:2003**

**EN 60745-2-2:2003**

**EN 55014-1:2000/A1:2001**

**EN 55014-2:1997/A1:2001**

**EN 61000-3-2:2000**

**EN 61000-3-3:1995/A1:2001**

**EN 60335-1:1994/A11:1995/A12,A1:1996/A13,A14:1998/A15,A2:2000/A16:2001**

**EN 60335-2-29:1996/A11:1997**

### Authorised Signatory

Date: 03/15/05

Signature: P.C. Harries

Name: Peter Harries  
Screwfix Direct Ltd  
Quality Manager



2005

**24V COMBI DRILL**

**BPI1240**

***DIRECT* POWER**