ENERGER

GUARANTEE
YEAR 1 YEAR
GUARANTEE

SAFETY AND OPERATING MANUAL

Original Instructions V7.0

3.6V Li-Ion SCREWDRIVER ENS460DRS

ENERGER

Read all safety warnings and all instructions before use. 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.

GENERAL SAFETY INSTRUCTIONS

WARNING. Read all safety warnings and instructions.
Failing to follow the warnings and instructions can result in an electric shock, a fire and/or a serious injury.

Keep all warnings and all instructions to be able to refer to them later on.

The term “tool” in the warnings refers to your electrical mains powered tool (with power cord) or your battery operated tool (without power cord).

1 Safety of the work area
a) **Keep the work area clean and well lit.** Cluttered and dark areas invite accidents.
b) **Do not operate electric tools in explosive atmospheres, for example in the presence of flammable liquids, gases or dust.** Electric tools create sparks that can ignite the dust or fumes.
c) **Keep children and bystanders away while operating the tool.** Distractions can cause you to lose control of the tool.

2 Electrical safety
a) **The electric tool plugs must match the outlet. Never modify the plug in any way. Do not use adapters with earthed (grounded) tools.** Unmodified plugs and matching outlets will reduce the risk of electric shock.
b) **Avoid any body contact with earthed or grounded surfaces such as pipes, radiators, cookers and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
c) **Do not expose tools to rain or wet conditions.** Water entering a tool will increase the risk of electrical shock.
d) **Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the tool. Keep the cord away from heat, lubricants, edges and moving parts.** Damaged or entangled cords increase the risk of electric shock.
e) **When using a tool outside, use an extension cable suitable for outside use.** Use of a cord suitable for outside use reduces the risk of electric shock.
f) **If use of a tool in a humid location is unavoidable, use a supply protected by a residual current differential device (RCD).** The 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 the tool. Do not use the tool when you are tired or under the influence of drugs, alcohol or medication.** One moment of carelessness while using a tool can result in serious personal injury.
b) **Use safety equipment. Always wear eye protection.** Safety equipment such as dust masks, non-slip safety shoes, a hard hat and hearing protection used for appropriate conditions will reduce personal injuries.
c) **Avoid unintentional starting. Make sure that the switch is in the off position before plugging the tool into the mains and/or fitting the batteries, picking it up or carrying it.** Carrying tools with your finger on the switch or plugging in tools with the switch in the on position is a cause of accidents.
d) **Remove any adjustment key before operating the tool.** A key left attached to a rotating part of the tool can result in personal injury.
e) **Do not overreach. Keep a proper position and balance at all times.** This enables better control of the tool in unexpected situations.
f) **Dress in a suitable manner. Do not wear loose clothing or jewellery. Keep hair, clothing and gloves away from moving parts.** Loose clothing, jewellery or long hair can be caught in moving parts.
g) **If devices are provided for the connection of dust extraction and collection equipment, make sure that they are connected and used correctly.** Using dust collectors can reduce the dust-related risks.

4 Use and maintenance of the tool

a) **Do not force the tool. Use the correct tool for your application.** The correct tool will do the work better and safer in the conditions for which it was manufactured.

b) **Do not use the tool if the switch does not make it possible to change from the operating condition to stop and vice versa.** Any tool which cannot be controlled by the switch is dangerous and should be repaired.

c) **Disconnect the power cord before any adjustment, changing an accessory or before storing the tool.** Such preventive safety measures reduce the risk of starting the tool accidentally.

d) **Keep idle tools out of the reach of children and do not allow persons unfamiliar with the tool or these instructions to operate it.** Tools are dangerous in the hands of untrained users.

e) **Maintain the tool. Check that there is no misalignment or obstruction of the moving parts, broken parts or any other condition that could affect the operation of the tool. In the event of damage, have the tool repaired before using it.** Many accidents are due to badly maintained tools.

f) **Keep cutting tools sharp and clean.** Properly maintained tools with sharp cutting edges are less likely to bind and are easier to control.

g) **Use the tool, accessories and blades etc., in accordance with these instructions, while taking into account the work conditions and the work to be done.** The use of the tool for operations other than those intended could result in dangerous situations.

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.

SPECIAL SAFETY INSTRUCTIONS

1. Hold power tool by insulated gripping surfaces, when performing an operationwhere the fastener may contact hidden wiring or its own cord. Fasteners contacting a"live" wire may make exposed metal parts of the power tool "live" and could give theoperator an electric shock.
2. Remove the battery pack from the drill before carrying out adjustments.
3. Do not expose to rain or water.
4. Do not store the battery pack in temperatures over 40°C.
5. Always charge the battery pack between temperatures 0°C to 30°C. Ideal charging temperature is 18°C to 24°C.
6. Only use the charger and the battery pack provided no others.
7. Do not charge a damaged battery pack.
8. Replace any damaged supply cords on your charger.
9. Always disconnect the charger from power supply before making or breaking the connections to the machine.
10. Battery and charger will be warm during charging, this is normal.
11. When not in use, remove a charged machine from the charger.
12. Always remove the battery pack from the charger immediately after re-charging is completed.
13. Do not dispose of batteries in fire, or with household waste. Return exhausted batteries to your local collection or recycling point.
14. Always check walls, floors and ceilings for hidden power cables and pipes.

WARNING!

Some dust created by power sanding, sawing, grinding, drilling, and other construction activities contains 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, and
- arsenic and chromium from chemically-treated lumber.

Your risk from these exposures varies, depending on how often you do this type of work. To reduce your exposure to these chemicals: work in a well ventilated area, and work with approved safety equipment, such as those dust masks that are specially designed to filter out microscopic particles

SAFETY ADVICE FOR RECHARGEABLE BATTERY AND CHARGER

WARNING! During the use of tools supplied with batteries, the basic safety measures must be followed in order to reduce fire hazards, electrolyte leakage and personal injury, including the following precautions:

Ensure that the battery/ battery pack is suitable for the tool.

Ensure that outside surface of the battery pack is clean and dry before connecting it to the charger.

Ensure that the batteries are charged using the correct charger recommended by the manufacturer. Incorrect use can create a risk of electric shock, overheating or the leaking of corrosive liquid from the battery.

If there is an electrolyte leak, avoid any contact with the skin. In the event of a leak, wipe with a rag. If the liquid comes into contact with the skin, rinse abundantly with water. In the event of a reaction or contact with the eyes or mucous membranes, consult a doctor.

Ensure that the appliance is properly switched off before inserting the battery into the appliance. Inserting a battery into a appliance while it is switched on can cause accidents.

Use the appliance only with the type of battery/ battery pack indicated in the instructions. Using another type of battery/ battery pack can create a serious risk of injury and cause a fire.

When the battery/ battery pack is not in use, keep it away from metal objects such as trombones, coins, keys or other small metal objects that can create a connection between one terminal and the other. Short-circuiting the terminals of batteries can cause burns to the user and cause a fire.

Dispose of batteries
Ensure that the battery is properly disposed of:

1-Do not throw it away
2-Do not to burn it
3-Do not throw it in a river
4-Dispose of it in the designated collection containers (ask your retailer)

FOR CHARGER

1. 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.
2. Charger is double insulated for additional electrical safety.
3. Charger is for indoor use only.
4. Never charge damaged batteries as these can short circuit and over heat.
5. When the charger is in use it MUST be supervised , if there is any evidence of overheating then IMMEDIATELY disconnect the charger from the power supply.
6. If gas or smoke is emitted from the battery during charging switch off the power supply and move to a well vented area to allow the fumes to vent to atmosphere.
Caution is there is leaking liquid from the battery wear protective clothing, glasses and clothes as this can be acidic.
7. Always disconnect battery charger and remove battery from charger when the charging is complete.
8. Only use the battery charger specifically stated on the base of the battery.

NOISE INFORMATION

Wear hearing protection!

Measured sound values determined according to EN 60745.
The noise figures quoted are emission levels and are not necessarily safe working levels. Whilst there is a correlation between the emission and exposure levels, this cannot be used reliably to determine whether or not further precautions are required. Factors that influence the actual level of exposure of work-force include the characteristics of the work room, the other sources of noise, etc. i.e. the number of machines and other adjacent processes, and the length of time for which an operator is exposed to the noise. Also the permissible exposure level can vary from country. This information, however, will enable the user of the machine to make a better evaluation of the hazard and risk.

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:	
Screwdrivers without impact	Vibration emission value a_h = 0.494 m/s²
	Uncertainty K = 1.5 m/s^2

The declared vibration emission value should be used as a minimum level and should be used with the current guidance on vibration.

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 dependent on the following examples and other variations on how the tool is used:
How the tool is being 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).

Vibration and noise reduction

To reduce the impact of noise and vibration emission, limit the time of operation, use low-vibration and low-noise operating modes as well as wear personal protective equipment.
Take the following points into account to minimize the vibration and noise exposure risks:
1.Only use the product as intended by its design and these instructions.
2.Ensure that the product is in good condition and well maintained.
3.Use correct application tools for the product and ensure they in good condition.
4.Keep tight grip on the handles/grip surface.
5.Maintain this product in accordance with these instructions and keep it well lubricated (where appropriate).
6.Plan your work schedule to spread any high vibration tool use across a number of days.

Emergency

Familiarise yourself with the use of this product by means of this instruction manual. Memorise the safety directions and follow them to the letter. This will help to prevent risks and hazards.
1.Always be alert when using this product, so that you can recognise and handle risks early. Fast intervention can prevent serious injury and damage to property.
2.Switch off and disconnect from the power supply if there is any malfunction. Have the product checked by a qualified specialist and repaired, if necessary, before you put it into operation again.

Residual risks

Even if you are operating this product in accordance with all the safety requirements, potential risks of injury and damage remain. The following dangers can arise in connection with the structure and design of this product:

1. Health defects resulting from vibration emission if the product is being used over long periods of time or not adequately managed and properly maintained.
2. Injuries and damage to property due to broken application tools or the sudden impact of hidden objects during use.
3. Danger of injury and property damage caused by flying objects.

WARNING!

This product produces an electromagnetic field during operation! This field may under some circumstances interfere with active or passive medical implants! To reduce the risk of serious or fatal injury, we recommend persons with medical implants to consult their doctor and the medical implant manufacturer before operating this product!

Intended use

The machine is intended for driving in and loosening screws and bolts as well as for tightening and loosening nuts within the respective range of dimension.

SYMBOLS

The symbols shown on the product has great significance for the safe use of the product.

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

Wear safety gloves

Wear eye protection
Wear ear protection
Wear respiratory protection

Double insulation Class **II**

Conforms to all relevant safety standards**.**

3-5 h

Charging time 3-5 h

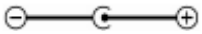
Do not dispose of batteries in a fire.
They explode and result in injury.

For indoor use only

This product contains a safety transformer

Always charge the tool between temperatures 0°C to 30°C

Warning



The polarity of the charger plug

Do not throw this product into rivers or immerse in water.

yyWxx Manufacturing date code:
Year of manufacturing (20yy) and week of manufacturing (Wxx);

Components and controls

1	Bit holder
2	LED Working light
3	On/off switch
4	Forward/reverse lever
5	Power/Rotation direction Indicator Light green=forward/red=reverse
6	Charger
7	Belt holster

TECHNICAL DATA

	ENS460DRS
Rated voltage:	3.6V⎓
No load speed:	180 min^{-1}
Machine weight:	0.37kg
Normal charging time:	3-5 hours
Battery	3.6V li-ion, 1300mAh 4.68Wh
Charger	PRI: 230-240V~50Hz 4W SEC: 5V⎓300mA

NOISE INFORMATION

Sound pressure level : L_{pA} = 58.9 dB(A) Uncertainty K=3dB(A)
Sound power level : L_{wA} =69.9 dB(A) Uncertainty K=3dB(A)

Wear ear protection when sound pressure is over 80dB(A)

ACCESSOIRES

The machine comes with the following accessories :

- 9pcs 50mm bits: 4mm, 5mm, 6mm, PH1, PH2, PH3, PZ1, PZ2, PZ3
- 1pc charger
- 1pc belt holster

CHARGING PROCEDURE

1. BEFORE USING THE SCREWDRIVER

If the machine is new, the battery must first be charged.
A new battery or one which has not been used for an extended period achieves full performance only after few times charging and discharging cycles.

Attention!
After storing for a long time, the battery capacity will be reduced.

A substantial drop in operating period per charge indicates that the battery is worn out.

Warning!
The charger and battery are specifically designed to work together so do not attempt to use any other devices. Never insert or allow metallic objects into charger or battery connections because an electrical failure and hazard will occur.

2. TO CHARGE THE MACHINE

The power voltage supply must conform to that specified on the rating plate of the charger.
Always inspect the battery charger, cord and plug for signs of damage before use.

Connect the battery charger to the power supply and the red Indicator Light (5) will illuminate to show charging has started. A discharged battery at normal ambient temperature will take approximately 3-5 hours to reach full charge. When charging is completed the green light will illuminate to indicate end of charge.

ALWAYS disconnect the charger from the power source when it is not in use.

Note:

Red Light = charging
Green Light = charging complete

Warning!
When battery charge runs out after continuous use or exposure to direct sunlight or heat, allow time for the tool to cool down before re-charging to achieve the full charge.

Operating instructions

Fig.1

1. INSTALLING AND REMOVING BITS

1.To fit a screwdriver bit, push it into the bit holder until it locates.
2.To remove a screwdriver bit, pull it straight from the bit holder.(Fig.1)

Make sure it is fully in place before use.

2. ON/OFF SWITCH

1.Start the tool by squeezing the On/Off Switch(3).
2. Release the switch to stop the machine.

Fig.2

3. SWITCH LOCK

The On/Off switch trigger can be locked in OFF position. This helps to reduce the possibility of accidental starting when not in use. To lock the switch, place the forward/reverse rotation control in the center position.

4.LED WORKING LIGHT

On the head of the tool equipped with LED working light.

You can use the tool in the dark area.(Fig.2)

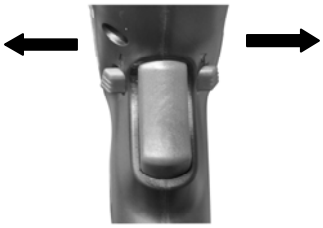


Fig.3

5. REVERSIBLE

The forward/reverse rotation control located above the On/Off switch controls the direction of rotation.
For screw driving use forward rotation, slide the rotation lever to the right. To use reverse rotation, slide the rotation lever to the left to remove screws or release a jammed drill bit. (Fig.3)

Warning!
Never change the direction of rotation when the chuck is rotating, Wait until it has stopped.

Fig.4

6. ROTATION DIRECTION INDICATOR LIGHT

This machine equipped with two direction indicator light on the top of the tool.(Fig.4)

When the machine with forward rotation, the ahead green light will illuminate.

When the machine with reverse rotation, the back red light will illuminate.

TERMS OF USE

When all precautions have been taken and the previous operations were done, you can start working.
Always secure the work piece especially if it is small and the sheets.
Use the appropriate drill bit and the material at the correct speed.

Stay in the extension of the machine, perpendicular to the surface to be drilled.

CARE AND MAINTENANCE

This machine requires no special mechanical maintenance such as greasing the bearings.
Do not try to open or disassemble your drill or feeder to intervene yourself. Do not open and replace the battery cells.
Do not let the drill dead load.
Always use the correct charger recommended. Improper use may cause risk of electric shock, overheating or leakage of electrolyte. To protect the batteries from damage, do not expose to temperatures above 40℃
Cleaning of plastic parts is unplugged charger and battery removed, using a soft damp cloth and a mild soap.
Never immerse the machine and do not use detergent, alcohol, gasoline, etc..
In case of problems or for a deep cleaning, consult the manufacturer, its service agent or a similarly qualified person to avoid a hazard.

GUARANTEE

This ENERGER product carries a guarantee of 12 months.

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
- 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.

ENVIRONMENTAL PROTECTION

This product is marked with the selective sorting symbol on waste electrical and electronic equipment. This means that this product should not be disposed of with household waste but must be supported by a collection system in accordance with Directive 2002/96/EC. It will then be recycled or dismantled to minimize impacts on the environment, electrical and electronic products are potentially hazardous to the environment and human health due to the presence of hazardous substances.

li-ion

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

Declaration of Conformity

We, Importer
Powersmith (UK) LTD.
Trade house, Mead Avenue, BA22 8RT

Declare that the product:
Designation: SCREWDRIVER 3.6V
Model: ENS460DRS

Complies with the following Directives:
2004/108/EC Electromagnetic Compatibility Directive
2006/42/EC Machinery Directive
2006/95/EC Low Voltage Directive
2011/65/EU 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 55014-1
EN 55014-2
EN 61000-3-2
EN 61000-3-3
EN 60745-1
EN 60745-2-2
EN 60355-2-29
EN 60335-1
EN 62233

Authorised Signatory and technical file holder

Date : 11/09/2012

Signature:_____

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