

# amtech®

## 18V Li-ion cordless combi drill

Stock Code: V6515

### INSTRUCTION MANUAL & SAFETY GUIDE



DK Tools Ltd

Units 1 & 2 Northpoint Business Centre, Horton Road, West Drayton, Middlesex, UB7 8EQ

[www.amtechdiy.com](http://www.amtechdiy.com)



**IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. PLEASE NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THIS PRODUCT CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY. PLEASE KEEP THE INSTRUCTIONS SAFE FOR FUTURE USE.**

## 18V LI-ION CORDLESS COMBI DRILL

Stock Code: V6515

### SPECIFICATIONS:

Battery voltage: ..... 18V  
Battery: ..... Li-ion 1300mAh  
Two speed: ..... 0-350-0-1300rpm  
Maximum torque: ..... 26Nm  
21 torque settings + drill + hammer  
Keyless chuck: ..... 2-13mm  
Forward/reverse function  
Hammer function  
Integral LED work light

Protection class: ..... II

### CHARGER:

Input: 100-240V~50-60Hz 50W  
Output: 21V 1300mA  
Charging time: 1 hour

### Sound and vibration information:

Sound pressure LPA: ..... 85.41dB(A)  
Sound power LWA: ..... 96.41dB(A)  
Uncertainty K: ..... 3dB(A)

Weighted vibration ah: ..... 15.25m/s<sup>2</sup> (impact)  
Weighted vibration ah: ..... 2.629m/s<sup>2</sup> (drill)  
Weighted vibration ah: ..... 1.001m/s<sup>2</sup> (screwing)  
Uncertainty K: ..... 1.5m/s<sup>2</sup>

The sound intensity level for the operator may exceed 85dB(A) and sound protection measures are necessary. As part of our ongoing product development, specifications of Amtech products may alter without notice.

### CONTENTS:

1 x 18V Li-ion cordless combi drill, 1 x Li-ion 1300mAh battery, 1 x charger, 6 x driver bits, 1 x 60mm magnetic extension, 3 x HSS drill bits, 3 x masonry drill bits, 1 x storage case

**UNPACKING:** When unpacking, make sure the item is intact and undamaged.

**WARNING:** Always wear ear protection where the sound level exceeds 85dB(A) and limit the time of exposure if necessary. If sound levels are uncomfortable, even with ear protection, stop using the tool immediately and check the ear protection is correctly fitted and provides the correct level of sound attenuation for the level of sound produced by your tool.

**WARNING:** User exposure to tool vibration can result in loss of sense of touch, numbness, tingling and reduced ability to grip. Long term exposure can lead to a chronic condition. If necessary, limit the length of time exposed to vibration and use anti-vibration gloves. Do not operate the tool with hands below a normal comfortable temperature, as vibration will have a greater effect. Use the figures provided in the specification relating to vibration to calculate the duration and frequency of operating the tool.

Sound and vibration levels in the specification are determined according to EN60745 or similar international standards. The figures represent normal use for the tool in normal working conditions. A poorly maintained, incorrectly assembled, or misused tool, may produce increased levels of noise and vibration. The following website [www.osha.europa.eu](http://www.osha.europa.eu) provides information on sound and vibration levels in the workplace that may be useful to domestic users who use tools for long periods of time.

### GENERAL SAFETY:

**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.

### WARNING:

This appliance is not intended for use by persons (including children) with reduced, physical or mental capabilities or lack of experience or knowledge unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children must be supervised to ensure that they do not play with the appliance. Save all warnings and instructions for future reference.

## **GENERAL SAFETY (CONTINUED):**

The term "power tool" in the warnings refers to your (cordless) power tool.

### **WORK AREA SAFETY:**

- Keep work area clean and well lit. Cluttered or dark areas invite accidents.
- Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust. Power tools create sparks which may ignite the dust or fumes.
- Keep children and bystanders away while operating power tools. Distractions can cause you to lose control.
- Never leave power tools unattended.

### **PERSONAL SAFETY:**

- Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating power tools may result in serious personal injury
- Use personal protective equipment. Always wear eye protection. Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool. Carrying power tools with your finger on the switch or energising power tools that have the switch on invites accidents
- Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations
- Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.
- If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

### **POWER TOOL USE AND CARE:**

- Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- 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.
- Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.
- 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.

### **DRILL SAFETY:**

- If batteries are to be charged outdoors, ensure that the power supply and charger are protected against weather/moisture
- When using the drill, use safety equipment including safety glasses or shield, ear defenders, and protective clothing including safety gloves. Wear a dust mask if the drilling operation creates dust
- Use metal and voltage detectors to locate concealed electric, water or gas lines. Avoid touching live components or conductors

**DRILL SAFETY (continued):**

- Ensure that the lighting is adequate
- Ensure that the drill bit is securely fixed in the chuck. Insecure drill bits can be ejected from the machine causing a hazard
- Ensure that the drill bit is in contact with the work piece prior to starting up the tool
- Before drilling, check that there is sufficient clearance for the drill bit under the work piece
- Do not put pressure on the tool, to do so would shorten its service life
- Drill bits get hot during operation, allow to cool prior to handling them
- Never use your hands to remove sawdust, chips or waste close by the bit
- Before fitting, always check that drill bits and screwdriver bits are in good condition
- Replace blunt drill bits immediately
- If you are interrupted when operating the drill, complete the process and switch off before looking up
- Where possible, use clamps or a vice to hold your work
- Examine the chuck regularly for signs of wear or damage. Have damaged parts repaired by a qualified service centre
- Always wait until the drill has come to a complete stop before putting it down
- Periodically check all nuts, bolts and other fixings and tighten where necessary
- Do not leave the power tool unattended
- Store the drill and battery in a cool, dry place and keep out of the reach of children.

**INTENDED USE:**

General-purpose cordless combi drill for driving screws, drilling and light masonry drilling.

**SERVICE:**

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. Keep your machine clean. Always clean dust/particles away, and never allow ventilation holes to become blocked. Use a soft brush, or dry cloth to clean the machine, if available blow through the ventilation holes with clean, dry, compressed air.

**BATTERY CHARGER SAFETY:**

- Keep batteries away from children and pets.
- Remove the battery if out of use for long periods.
- Never dispose of batteries in a fire.
- Battery disposal, spent or expired batteries must be properly disposed of and recycled in compliance with local regulations. For detailed information, contact your local authority.
- Follow the battery manufacturer's safety, usage, and disposal instructions.

Do not attempt to use the charger with any batteries other than those supplied. Keep your battery charger clean; foreign objects or dirt may cause a short or block air vents. Failure to follow these instructions may cause overheating or fire

- 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

**WARNING:** NEVER attempt to recharge non-rechargeable batteries.

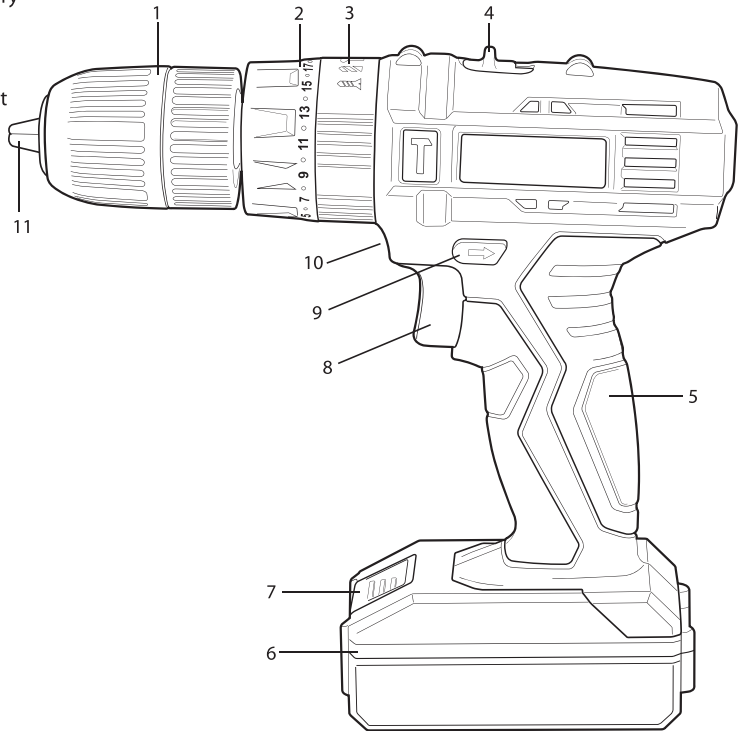
**Use batteries correctly**

- Only charge batteries using the charger provided.
- Only use batteries provided with this power tool, or others recommended by the supplier.
- Keep batteries clean; foreign objects or dirt may cause a short.
- Allow batteries to cool for 15 minutes after charging or heavy use.
- Failure to follow these instructions may cause overheating or fire.
- When not in use batteries should be stored at room temperature (approx. 20°C).
- Ensure that batteries cannot accidentally short in storage.



## PRODUCT DETAILS:

1. Keyless chuck
2. Torque setting dial
3. Function selector dial
4. Two-speed selection switch
5. Comfort TPR grip handle
6. 18V 1300mAh Li-ion battery
7. Battery release button
8. Variable speed trigger
9. Forward/reverse switch
10. Integrated LED work light
11. Chuck jaws



## BEFORE USE:

### Removing the battery from the drill

- To remove the Battery (6) from the drill, press and hold the battery release button (7) and carefully slide off the battery

**CAUTION:** Do not try to remove the battery without pressing the Battery Release button. The drill or battery could be damaged by doing so.

### Installing a charged battery

- To fit a charged battery, slide it in to the base of the drill until it clicks and locks into position

**Note:** Make sure the Battery and drill are lined up correctly. If the battery does not slide into the drill easily, don't force it. Instead, slide the Battery out of the drill again, check the top of Battery and the drill battery slot are clean and undamaged and that the contacts are not bent.

### Setting up the battery charger

1. Having removed the battery from the combi drill connect the socket end of the charger to the battery DC input

2. Insert the mains plug into a suitable mains socket.

**Note:** The red LED on the Battery will illuminate to indicate that the charger is ready to charge the battery, if the voltage is low.

**WARNING:** Only use this charger to charge the supplied battery or additional purchased batteries that are specifically designed for this tool.

**WARNING:** The charger is designed for indoor use only and must not be exposed to moisture and rain.

## **CHARGING THE BATTERY:**

**WARNING:** Failure to follow the correct procedure when charging batteries will result in permanent damage.

**Note:** Normal charging time is 1 hour for a recently discharged battery. However, if the Battery has been left in a discharged state for some time, it may take up to 1.5 hours to charge.

1. Connect the end of the charger DC socket to the battery input socket.
2. Once charging commences the LED will illuminate solid red.
3. When the battery is fully charged the LED will change colour to green and will remain illuminated whilst the charger is connected.

**Note:** If the LED does not change to green after 60 minutes charging, this may indicate a fault with the battery and/or the charger. Recheck the charger DC plug is fully inserted in the battery. Remove any material that may have fallen into the battery socket of the battery and make sure the contacts of both the battery and the charger socket are clean, untarnished metal and not damaged or bent.

### **Further notes about battery charging:**

- The battery should be charged at ambient temperatures between 10 and 40°C (ideally close to 20°C)
- After charging, allow 15 minutes for the battery to cool before use
- Ensure that the charger is disconnected from the mains supply after use, and is stored correctly
- DO NOT leave batteries on charge for extended periods and NEVER store batteries on charge
- Remove the battery once charging has been completed to maximise charge cycles of the battery and not waste power
- Batteries can become faulty over time, individual cells in the battery can fail and the battery could short. The charger will not charge faulty batteries. Use another battery if possible to check correct functionality of the charger and purchase a replacement battery if a faulty battery is indicated
- Do not store lithium-ion battery packs in a discharged state long term. This can damage the lithium-ion cells. For long-term storage, store batteries in a high-charge state disconnected from the power tool
- The capacity of batteries will reduce over time. After 100 charge cycles, the battery's operation time and the maximum torque performance of the drill will slightly reduce. This decline will continue until the battery has minimal capacity after 500 charge cycles. This is normal and not a fault with the battery pack.

## **FITTING DRILL BITS & ACCESSORIES:**

**WARNING:** Always remove the Battery from the drill before attaching, adjusting or removing accessories.

**WARNING:** Do not attempt to tighten drill bits (or any other accessory) by gripping the front part of the chuck and switching the tool on. This can lead to personal injury and can cause damage to the chuck.

**WARNING:** Never fit any accessory or bit with a maximum speed lower than the no load speed of the drill.

1. Open the Chuck Jaws (11) by holding the rear of the keyless chuck (1) whilst rotating the front of the chuck collar anti-clockwise
2. Place the drill bit or accessory centrally into the chuck
3. Tighten the chuck jaws by rotating the front of the collar clockwise while holding the rear of the collar
4. When the drill bit or accessory is securely fastened, carefully run the machine to test that it is running centrally, smoothly and evenly. If the bit is 'wobbling' or not running centrally, release the chuck, check the accessory for damage, correct its position, retighten and test again.

## **OPERATION:**

### **Direction control:**

**NEVER** change the direction of rotation while the tool is running.

- The direction of rotation can be set using the Forward/Reverse Switch (9)
- For anti-clockwise rotation, push the switch to the right
- For clockwise rotation, push the switch to the left

**Note:** When the Forward/Reverse Switch is in the central position, the drill is locked and cannot be switched on. Use this setting as a safety feature to prevent the drill from being switched on accidentally.

## Torque control

**Note:** The cordless drill is equipped with a torque control clutch allowing the machine to be set to the correct torque for the individual application.

- The torque settings are indicated by the numbers (1-21) on the Torque Selector (2)
- Rotate the Torque Selector to select the desired torque setting, the higher the number shown on the torque ring, the higher the torque output produced by the combi drill.

## Speed selection

- Select 1 on the Speed Selection Switch (4) for the higher torque. A lower speed (switch setting 1) is generally more suitable for driving screws and fasteners
- Select 2 on the Speed Selection Switch for the lower torque. A higher speed is for drilling and must not be used for driving screws and fasteners or drilling masonry

**Note:** Always read the documentation provided with drill bits and accessories for the recommended or maximum speed setting and use the most appropriate speed and torque.

## Switching on/off

**WARNING:** Always wear adequate personal protection equipment when setting up and operating this power tool.

1. To start the drill, squeeze the Variable Speed Trigger Switch (8)
  2. The built-in Work Light (10) will illuminate when the Trigger Switch is squeezed
- Note:** If the Trigger Switch cannot be pressed down, check that the Forward/Reverse Switch (9) is not set to its middle position, which locks the device (see "Direction control").
3. The variable speed of the drill is controlled by the movement of the on/off trigger: the further the trigger is pressed down, the faster the drill will run
  4. Release the on/off Trigger to stop the drill.

## Screwdriver use

**Note:** Always use a bit holder when working with screwdriver bits. Do not mount screwdriver bits directly into the chuck.

- Select speed 1 on the Two Speed Selection Switch (4)
- When driving screws NEVER use the machine in drill or hammer modes.
- Always adjust the drill to the appropriate torque setting (see "Torque control")

**Note:** If in doubt which torque setting best suits the application, start with a low setting and increase, should more torque be required (e.g. if the screw is not being driven far enough into the work piece).

## Drilling wood

- Select drilling mode using the Torque Setting Dial (3)
- Select the appropriate speed using the Speed Selection Switch (4)
- Ensure that drill bits are suitable for wood, and are within the maximum capacity of this machine

**WARNING:** DO NOT inhale wood dust. Wear adequate breathing protection. Some wood dusts may be toxic, particularly MDF (medium density fibre board).

## Drilling metal

- Select drilling mode using the Function Selector Dial (3)
- Select the appropriate speed using the Speed Selection Switch (4)
- Ensure that drill bits are suitable for the grade of metal being drilled, and are within the maximum capacity of the machine
- To ensure accuracy, mark the intended hole position using a hammer and centre punch

**WARNING:** The drill bit and the work piece will become very hot when drilling metal. DO NOT touch the bit and never allow it to come into contact with combustible materials when hot. Always use a suitable lubricant or cutting fluid, and drill at appropriate speeds.

- Only apply moderate pressure to the drill bit, ensuring efficient cutting and prolonged drill bit life
  - Use a countersink bit to remove sharp burrs from the hole, preventing cuts and other kinds of injury
- IMPORTANT:** If the power tool gets excessively hot in use, stop using the tool immediately and allow to cool before continuing work. The cooling period can be reduced by operating the drill at maximum speed with no load. Always make sure the motor vents are not blocked and do not allow dust to enter the body of the tool through the motor vents; dust, especially metallic dust, may damage the tool.

## **Drilling masonry**

- Select hammer mode (hammer logo) using the Function Selector Dial (3)
- Select the appropriate speed using the Speed Selection Switch (4)
- Ensure that drill bits are suitable for the brick block or concrete.
- When drilling masonry always wear eye protection, ear defenders and durable work gloves.
- Before drilling walls or floors always check for the location of buried water pipes and electrical cables.

## **ACCESSORIES:**

Amtech offer a full range of accessories including drill bits and screwdriver bits. Spare batteries & chargers are also available. Check with your local stockist or visit [www.amtechdiy.com/products](http://www.amtechdiy.com/products)

## **MAINTENANCE:**

**WARNING:** Always remove the charger from the mains socket before carrying out any maintenance/cleaning of the drill or charger. Remove the Battery before carrying out any maintenance/cleaning of the drill.

**Note:** Both the drill and the charger contain no user-serviceable parts. If the device does not perform as outlined in this manual, contact Amtech for advice/support.

## **Cleaning**

Keep your drill clean at all times. Dirt and dust will cause internal parts to wear quickly, and shorten the drill's service life. Clean the body of the drill with a soft brush, or dry cloth. If available, use clean, dry, compressed air to blow through the ventilation holes

## **Storage**

Store the tool and battery carefully in a secure, dry place out of the reach of children.

## **Disposal**

When the time comes to dispose of the tool that is no longer functional and not viable for repair, do not dispose of the drill, batteries or charger with your normal household waste. Contact your local authority for information on the correct way to dispose of battery powered electrical and electronic equipment (WEEE).

## **WARRANTY TERMS & CONDITIONS**

This Amtech product comes with a 2 year warranty. This warranty, and the warranty period, begins on the date of retail purchase as detailed on your sales receipt. If this product develops a fault within 30 days of purchase, return it to the stockist where it was purchased, with your receipt, stating details of the fault. If this product develops a fault after 30 days a warranty claim must be submitted. Your original receipt indicating the place and date of purchase must be submitted to validate the claim. We do not refund carriage. All products should be packaged carefully to prevent damage or injury during transportation. The replacement of the product will not extend, or renew the period of guarantee. Retained tools, or parts, for which a replacement has been issued, will become the property of DK Tools Ltd. The replacement of your product under this warranty provides benefits which are additional to, and do not affect, your statutory rights as a consumer. To request a warranty replacement, please submit a warranty claim form at [www.amtechdiy.com/warranty](http://www.amtechdiy.com/warranty)

## **What is covered**

The replacement of the product, once verified to the satisfaction of DK Tools, that the defect is due to faulty materials or workmanship. If any part is no longer available or out of manufacture, we may replace it with a functional replacement.

## **What is not covered**

Normal wear and tear caused by use in accordance with the operating instructions e.g. blades, brushes, belts, bulbs, batteries etc. Accidental damage, faults caused by: improper use, abnormal environmental conditions, overloading, insufficient maintenance, careless operation or handling of the product. Use of the product for anything other than normal intended purposes. Change or modification of the product in any way. Defects caused by the use of parts or accessories which are not Amtech genuine components. Claims, other than the right to correction of faults with the product covered by these conditions. Slight deviations from the specification that do not affect the functionality of the product.

## **Please note:**

The assembly drawing on page 9 is for information only to show the construction. This product does not contain any end user serviceable parts and spare parts are not available.

**IMPORTANT WARNING:**

Always wear suitable safety wear



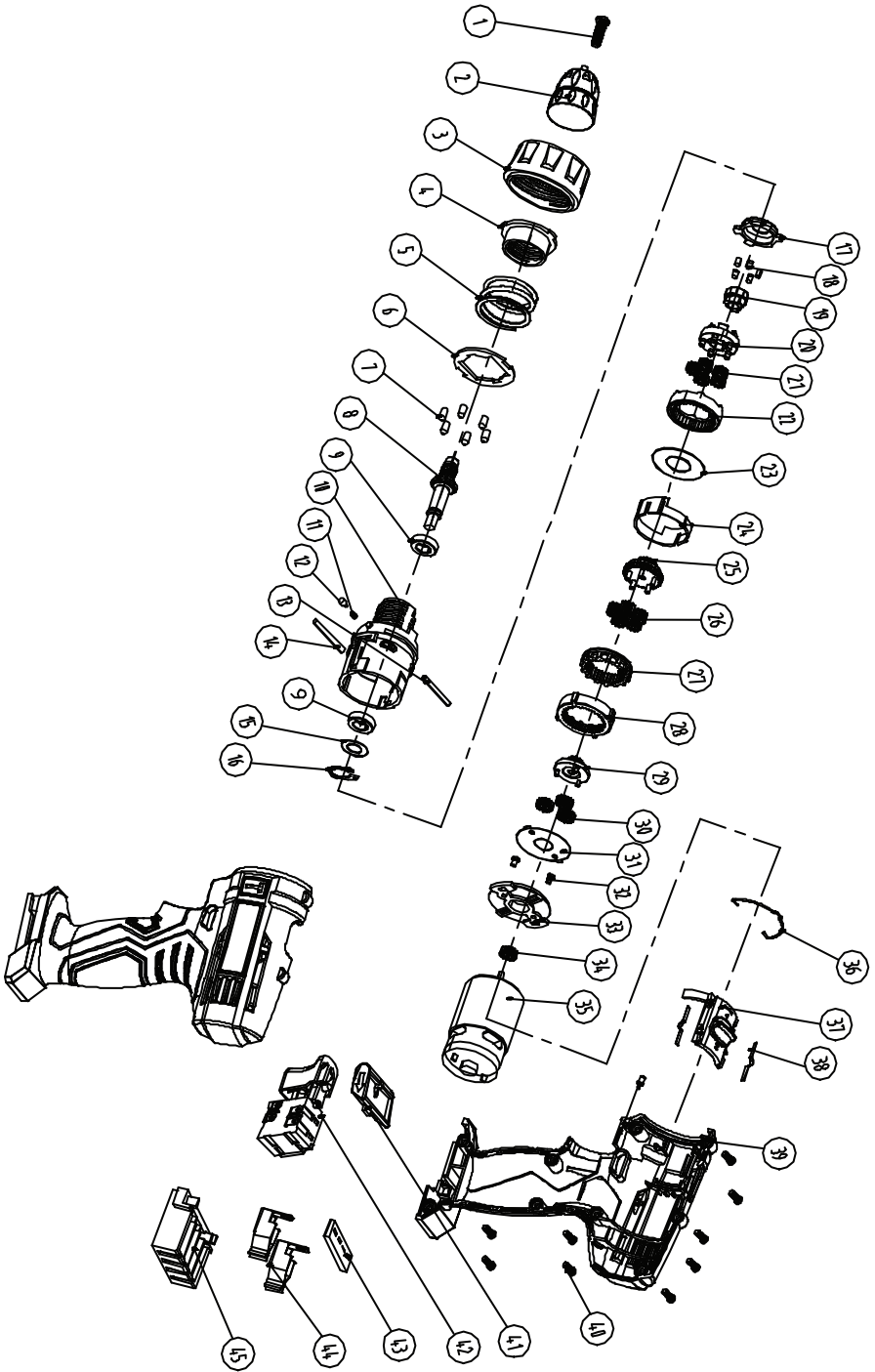
**WARNING:**

Using tools can be dangerous,  
Always take care and keep away  
from children, Wear protective  
eyewear in work area at all times,  
Always wear work gloves, Select  
the correct type and size of tool  
for work/application,



**IMPORTANT:**

No liability is accepted for the incorrect use of the product. Whilst every effort has been made to ensure accuracy of information contained in this manual the DK Tools Ltd policy of continuous improvement determines the right to make modifications without prior warning.



Item No.	Part Name	Qty
1	Left hand screw	1
2	2-13mm keyless chuck	1
3	Torque	1
4	Torque control panel	1
5	Torque spring	1
6	Torque chip	1
7	Liquid needle	1
8	Output axis	1
9	Oil axel sleeve	1
10	Gear box body	1
11	Teeth fork spring	1
12	Teeth fork	1
13	Stop shaft 1	1
14	Stop shaft 2	1
15	Output shaft pad	1
16	Output shaft bracket	1
17	Arresting disc	1
18	Self locking lock	5
19	Since lock block	1
20	Tertiary planet carrier	1
21	Tertiary planet wheel	5
22	Internal tooth mouth	1
23	Spacer (middle layer)	1
24	Gear lock inner sleeve	1
25	Secondary planet carrier	1
26	Secondary planet wheel	5
27	Pull tooth mouth	1
28	Compensation tooth mouth	1
29	Level of planet carrier	1
30	Level of planet wheel	3
31	Motor spacer gasket plate	1
32	Motor screw M3	2
33	Motor cover plate	1
34	106 motor gear	1
35	Motor	1
36	On/off switch wire	1
37	On/off switch	1
38	Switch gaskets	2
39	Outer case	2
40	Cross head drilling screw	9
41	Positive & negative push rod	1
42	Switch	1
43	Thrust angle seat cover	1
44	Plug pin	2
45	Under seat cover	1



## EC Declaration of Conformity

In accordance with EN ISO 17050-1:2010

We, DK Tools Ltd  
of Units 1&2 Northpoint Business Centre  
Horton Road  
West Drayton  
Middlesex  
UB7 8EQ

in accordance to the following Regulations & Directives:

2006/42/EC	The Machinery Directive
2014/35/EU	The Low Voltage Directive
2014/30/EU	The Electromagnetic Compatibility Directive
2011/65/EU	The Restriction of Hazardous Substances Directive
2012/19/EU	The WEEE Directive
SI 2008/1597	Supply of Machinery (Safety) Regulations 2008

hereby declare that:

Equipment	18.0V Li-ion cordless combi drill
Model number	D0181
Stock code	V6515

is in conformity with the applicable requirements of the following documents

Ref. No.

EN60745-1:2009+A11:2010	EN61000-3-2:2014
EN60745-2-1:2010	EN61000-3-3:2013
EN60745-2-2:2010	AfPS GS 2014:01
EK9-BE-88:2014	EN 55014-1:2006+A1:2009+A2:2011
EN 55014-2:2015	AfPS GS 2014:01 PAK

Sound & vibration information:

Sound pressure LPA: .....	85.41dB(A)
Sound power LWA: .....	96.41dB(A)
Uncertainty K: .....	3dB(A)
Weighted vibration ah: .....	15.25m/s <sup>2</sup> (impact)
Weighted vibration ah: .....	2.629m/s <sup>2</sup> (drill)
Weighted vibration ah: .....	1.001m/s <sup>2</sup> (screwing)
Uncertainty K: .....	1.5m/s <sup>2</sup>

I hereby declare that the equipment named above has been designed to comply with the relevant sections of the above referenced specifications and is in accordance with the requirements of the Directives.

Signed by:

Mr. P. Hawkes  
Quality Assurance Manager  
DK Tools Ltd

June 2017



The Technical File for the product is available on request from the above named person or the operations director.