

# 1300W circular saw

Stock Code: V6030

## **INSTRUCTION MANUAL & SAFETY GUIDE**







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.

## 1300W CIRCULAR SAW Stock Code: V6030

## SPECIFICATIONS:

Input voltage:	230V~50Hz
Power:	1300W
No load speed:	4700rpm
Protection class:	II
Ingress protection:	IP20
Weight:	4.3kg

Bevel degree:	0-45 degree
Blade diameter:	185mm
Saw blade bore size:	20mm
Max cutting depth at 90:	65mm
Max cutting depth at 45:	45mm
Cable length:	

## Sound and vibration information:

Sound pressure LpA:	.93dB(A)
Sound power LwA:	104dB(A)
Uncertainty K:	3dB
Weighted vibration ah:	4.03m/s <sup>2</sup>
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 1300W circular saw, 1 x 24T 185mm saw blade, 1 x parallel guide, 1 x hex key

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** 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 mains-operated (corded) 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.

#### **FLECTRICAL SAFETY:**

- 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.
- 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
- Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock
- 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.
- 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.
- 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.

#### 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.

#### POWER TOOL USE AND CARE (CONTINUED):

- 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.

#### 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.

**WARNING:** Before connecting a tool to a power source (mains switch power point receptacle, outlet, etc.) be sure that the voltage supply is the same as that specified on the rating label of the tool. A power source with a voltage greater than that specified for the tool can result in serious injury to the user, and damage to the tool. If in doubt, do not plug in the tool. Using a power source with a voltage less than the rating label rating is harmful to the motor.

## **DETAILED SAFETY WARNINGS FOR CIRCULAR SAW:**

- Inspect the work piece and remove all nails and other embedded objects prior to starting work
- DANGER: Keep hands away from cutting area and the blade. Keep your second hand on auxiliary handle, or motor housing. If both hands are holding the saw, they cannot be cut by the blade.
- Do not reach underneath the work piece. The guard cannot protect you from the blade below the work piece.
- Adjust the cutting depth to the thickness of the work piece. Less than a full tooth of the blade teeth should be visible below the work piece.
- Never hold the work piece being cut in your hands or across your leg. Secure the work piece to a stable platform. It is important to support the work properly to minimize exposure, blade binding, or loss of control.
- Hold the power tool only by the insulated gripping surfaces when performing an operation where the cutting tool may contact hidden wiring or its own cord. Contact with a "live" wire will also make exposed metal parts of the power tool "live" and shock the operator.
- When ripping always use a rip fence or straight edge guide. This improves the accuracy of cut and reduces the chance of blade binding.
- Always use blades with correct size and shape (diamond versus round) of arbour holes. Blades that do not match the mounting hardware of the saw will run eccentrically, causing loss of control.
- Never use damaged or incorrect blade washers or bolt. The blade washers and bolt were specially designed for your saw, for optimum performance and safety of operation.

## Causes and operator prevention of kickback:

- Kickback is a sudden reaction to a pinched, bound or misaligned saw blade, causing an uncontrolled saw to lift up and out of the work piece toward the operator.
- When the blade is pinched or bound tightly by the kerf closing down, the blade stalls and the motor reaction drives the unit rapidly back toward the operator.
- If the blade becomes twisted or misaligned in the cut, the teeth at the back edge of blade can dig into the top surface of the wood causing the blade to climb out of the kerf and jump back toward the operator. Kickback is the result of saw misuse and/or incorrect operating procedures or conditions and can be avoided by taking proper precautions as given below.
- Maintain a firm grip with both hands on the saw and position your arms to resist kickback forces. Position your body to either side of the blade, but not in line with the blade. but kickback forces can be controlled by the operator, if proper precautions are taken.
- When blade is binding, or when interrupting a cut for any reason, release the trigger and hold the saw motionless in the material until the blade comes to a complete stop. Never attempt to remove the saw from the work or pull the saw backward while the blade is in motion or kickback may occur. Investigate and take corrective actions to eliminate the cause of blade binding.
- Do not use high speed steel (HSS) saw blades. Such saw blades can easily break.
- Do not saw ferrous metals. Red hot swarf can ignite the dust extracted.
- When working with the machine, always hold it firmly with both hands and provide for a secure stance. The power tool is guided more secure with both hands.

#### **DETAILED SAFETY WARNINGS FOR CIRCULAR SAW (CONTINUED):**

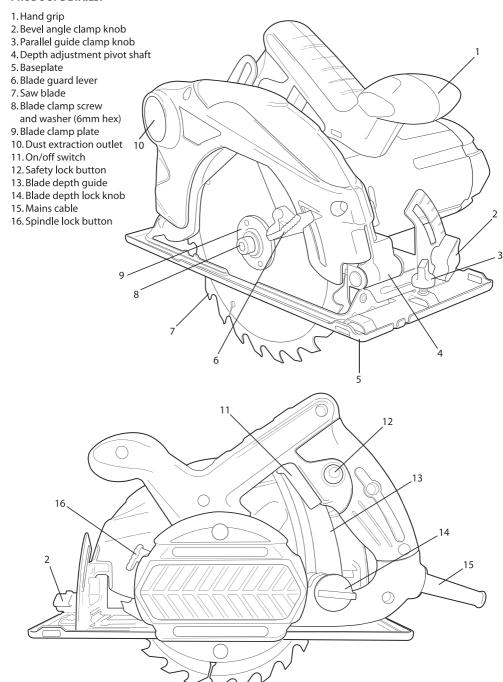
- Always wait until the machine has come to a complete stop before placing it down. The tool insert can jam and lead to loss of control over the power tool.
- Never use the machine with a damaged cable. Do not touch the damaged cable and pull the mains plug when the cable is damaged while working. Damaged cables increase the risk of an electric shock.
- When restarting a saw in the work piece, centre the saw blade in the kerf and check that saw teeth are not engaged into the material. If saw blade is binding, it may walk up or kickback from the work piece as the saw is restarted.
- Support large panels to minimise the risk of blade pinching and kickback. Large panels tend to sag under their own weight. Supports must be placed under the panel on both sides, near the line of cut and near the edge of the panel.
- Do not use dull or damaged blades. Unsharpened or improperly set blades produce narrow kerf causing excessive friction, blade binding and kickback.
- Blade depth and bevel adjusting locking levers must be tight and secure before making cut. If blade adjustment shifts while cutting, it may cause binding and kickback.
- Use extra caution when making a "plunge cut" into existing walls or other blind areas. The protruding blade may cut objects that can cause kickback.
- Check lower guard for proper closing before each use. Do not operate the saw if lower guard does not move freely and close instantly. Never clamp or tie the lower guard into the open position. If saw is accidentally dropped, lower guard may be bent. Raise the lower guard with the retracting handle and make sure it moves freely and does not touch the blade or any other part, in all angles and depths of cut.
- Check the operation of the lower guard spring. If the guard and the spring are not operating properly, they must be serviced before use. Lower guard may operate sluggishly due to damaged parts, gummy deposits, or a build-up of debris.
- Lower guard should be retracted manually only for special cuts such as "plunge cuts" and "compound cuts". Raise lower guard by retracting handle and as soon as blade enters the material, the lower guard must be released. For all other sawing, the lower guard should operate automatically.
- Always observe that the lower guard is covering the blade before placing saw down on bench or floor. An unprotected, coasting blade will cause the saw to walk backwards, cutting whatever is in its path. Be aware of the time it takes for the blade to stop after switch is released.
- Do not reach into the saw dust ejector with your hands. They could be injured by rotating parts.
- Do not work overhead with the saw. In this manner you do not have sufficient control over the power tool.
- Use suitable detectors to determine if utility lines are hidden in the work area or call the local utility company
  for assistance. Contact with electric lines can lead to fire and electric shock. Damaging a gas line can lead to
  explosion. Penetrating a water line causes property damage or may cause an electric shock.
- Do not operate the power tool stationary. It is not designed for operation with a saw table.
- When operating the saw, always use safety equipment including safety goggles, ear protection, dust mask and protective clothing including safety gloves.
- If you are interrupted when operating the saw, complete the process and switch off before diverting your attention.
- Do not attempt to free a jammed blade before first disconnecting the machine from power.
- Do not allow anyone under the age of 18 years to operate this saw.
- Hand-held power tools may produce vibration. Vibration can cause disease. Gloves may help to maintain good blood circulation in the fingers. Hand-held tools should not be used for long periods without a break.

Even when the tool is used as prescribed it is not possible to eliminate all residual risk factors. Always use with extreme care and caution. If you are unsure, do not use the tool and seek advice.

#### INTENDED USE:

This product is designed for DOMESTIC USE ONLY and not for business use. The circular saw is suitable for cutting soft and hard wood. Please note that the blade pre-installed in the saw as supplied is intended for use with soft wood only. The saw is NOT suitable for cutting metal or wood with nails. Any other use or modification of the tool constitutes improper use and can pose a serious risk of accident. The manufacturer is not liable for damage caused by improper use of the tool. The manufacturer shall not be liable for any modifications made to the tool nor for any damage resulting from such modifications.

## **PRODUCT DETAILS:**



#### **BEFORE USE:**

**WARNING:** ALWAYS disconnect the machine from the power supply before fitting or removing any accessory or making adjustments.

#### **Dust extraction**

• For a cleaner, safer work environment connect a dust extraction system or workshop vacuum cleaner to the dust extraction outlet (10).

#### Notes:

- Before you use your saw, it is recommended that you practice on scrap material. The settings of the machine
  are crucial to achieving a good quality finish, and your work could easily be damaged by using an incorrect
  setting.
- The supplied blade is pre-fitted. Make sure the blade clamp screw (8) is tightened securely before first use.

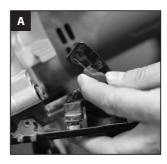
## ASSEMBLY INSTRUCTIONS:

## **Cutting depth adjustment**

- To adjust the blade cutting depth, face the saw away from you.
- Loosen the cutting depth adjustment knob which is located at the back of the saw guard.
- Hold the baseplate flat against the edge of the work piece and lift the main body until the blade is at the required depth.
- Firmly tighten the cutting depth adjustment screw.

## **Bevel cutting**

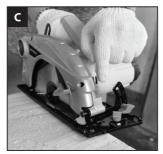
- For bevel cutting undo the bevel angle clamp knob (2) (Fig A)
- Loosen the cutting depth adjustment knob which is located at the back of the saw guard.
- Hold the baseplate flat against the edge of the work piece and lift the main body until the blade is at the required angle.
- Firmly tighten the bevel adjustment knob.

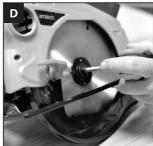


### **OPERATION:**

## Using the circular saw







## 1. On/off switch

The switch is locked off to prevent accidental starting. To operate the power switch for use, squeeze the safety lock button (12) and the power switch will operate freely. When the power switch is then released it will automatically become locked again (Fig B).

## 2. Using the parallel side fence:

The parallel side fence allows you to make parallel cuts in sheets of wood which are consistently the same width.

- 1. Slide the parallel side fence into position using the slots on the baseplate.
- 2. Adjust the side fence to the required width, and secure by tightening the securing screw (3). When you now use the saw, ensure that the edge of the side fence is resting against the edge of the wood to give a perfect parallel cut.

## 3. Operation:

Adjust the bevel angle and cutting depth to the required level and place front of the base plate on the work piece (do not allow the blade to touch the work piece at this time). Start the saw, when the saw is at maximum speed slowly push forward. Hold the saw securely with both hands (Fig C).

## Removal of the saw blade

- 1. Before you commence any work on the Circular Saw, ensure that the saw is turned off and unplugged from the power outlet.
- 2. Wear protective gloves when installing a saw blade. Contact with the saw blade can lead to injuries.
- 3. To change the saw blade, it is best to place the saw with the blade face pointing upwards.
- 4. Press the spindle lock button (16) keeping it pressed whilst turning the hex key in an anti-clockwise direction. Fully open the spring loaded blade guard and hold the blade guard lever (6). Remove the clamping bolt and washer (8) and clamping flange (9) and remove the saw blade from the spindle (Fig D).

## Mounting the saw blade

- 1. Clean the saw blade and all clamping parts to be assembled using a soft brush
- 2. Pull the automatic blade safety guard backwards and hold firmly.
- 3. Place the saw blade on to the mounting flange. The cutting direction of the teeth (direction of arrow on saw blade) and the direction of rotation arrow on the blade guard must correspond.
- 4. Place the clamping washer over the motor spindle, resting against the saw blade and screw in the blade clamp screw & washer. Ensure that the parallel flats on the clamping washer are correctly located on the motor spindle.
- 5. Press the spindle lock and keep it pressed.
- 6. With the 6mm hex key, tighten the clamping bolt firmly by turning in a clockwise direction.
- 7. Make sure that the blade is mounted correctly before use.

**Warning:** Always double check before using the saw that the blade is correctly fitted and tightened, with the teeth pointing towards the arrow.



Before any work commences on the Circular Saw, ensure that it is unplugged from the power outlet. For optimum use, regularly check to see if any dust or foreign matter has entered the ventilation slots near the motor and around the on/off switch. Use a soft brush if required. Wear safety glasses to protect your eyes whilst cleaning. If the body of the tool needs cleaning, wipe it with a soft damp cloth. A mild detergent can be used but not alcohol, petrol or other cleaning agents.

CAUTION: Water must never come into contact with the tool. Make sure the tool is thoroughly dry before use.

If the power cord is damaged, it must be replaced immediately.

Always check that the blade you are using is in good condition. Always use the correct blade type for the job you are undertaking. If in doubt do not use and seek advice.

## **STORAGE**

Store this tool carefully in a secure, dry place out of the reach of children

## **DISPOSAL**

Always adhere to national regulations when disposing of power tools that are no longer functional and are not viable for repair.

- Do not dispose of power tools, or other waste electrical and electronic equipment (WEEE), with household waste
- Contact your local waste disposal authority for information on the correct way to dispose of power tools



#### **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

## 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









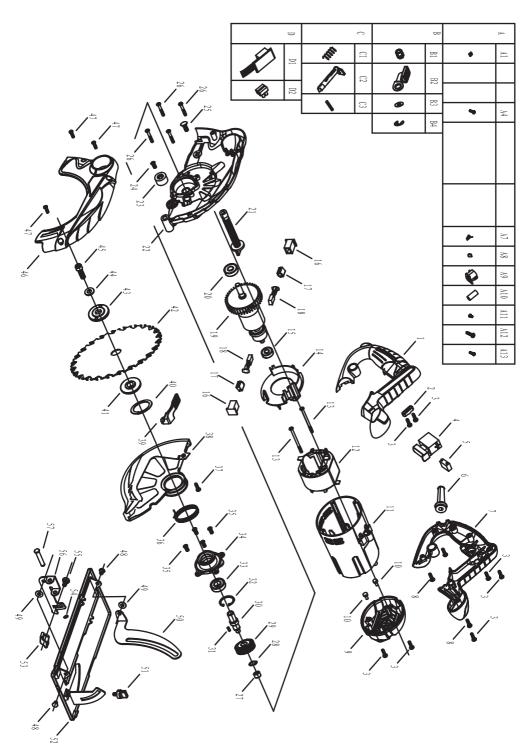
#### WARNING: Using tools can be dangerous.



Osing 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	Item No.	Part Name	Qty
1	Right handle	1	41	Lower blade clamping	1
2	Cable clamp	1	42	Blade 185	1
3	Cross tapping screw ST4X16	9	43	Upper blade clamping	1
4	Switch	1	44	Blade clamping washer	1
5	Inductor 0.22	1	45	M8×16 Cross screw	1
6	Cable cover	1	46	Right Aluminium Mask	1
7	Left handle	1	47	Cross tapping screwM5X12	3
8	Cross tapping screw ST4X20	2	48	Connect rivet	2
9	Back cover	1	49	Baseboard gasket	2
10	Brush holder Shim	2	50	Angle bracket	1
11	Motor housing	1	51	Guide clamping screw	1
12	Stator	1	52	Base	1
13	Cross tapping screw ST4X65	2	53	Angle clamping	1
14	Wind washer	1	54	Gear washer 7	1
15	Bearing 608	1	55	Spring M5x12	1
16	Brush holder	2	56	Height braket	1
17	Brush copper	2	57	Connect pole	1
18	Carbon brush	2	A1	Square nut M3	2
19	Armature settings	1			1
20	Bearing 6000	1			1
21	Height clamping	1	A4	Cross tapping screw M3X10	22
22	Left aluminium mask	1			
23	Stop washer	1			
24	Cross tapping screw M6X14	1			
25	Spring M6x20	1	A8	Copper connect piece	2
26	Cross tapping screw ST4X25	4	A9	Laser base	1
27	Oil bearing	1	A10	Laser head	1
28	Gear washer 12	1	A11	Cross tapping screw ST3X8	3
29	Gear	1	A12	Cross tapping screw ST4X10	1
30	Main bearing	1	A13	Cross tapping screw ST3X10	2
31	Flat 3x10	1	B1	Blade clamping screw	1
32	Hole washer 28	1	B2	Angle spanner	1
33	Bearing 6001	1	В3	Blade clamping washer	1
34	Bearing holder	1	B4	Split washer 9	2
35	Cross tapping screw M4X12	4	C1	Plunger latch spring	1
36	Guard wring spring	1	C2	Plunger latch	1
37	Cross tapping screwST4X8	1	C3	Spring round pin 4x24	1
38	Blade guard	1	D1	Soft start	1
39	Blade spanner	1	D2	Post head	1
40	Guard round spring	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 8EO

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 1300W 185mm Circular Saw

Model number M1Y-DU26-185

Stock code V6030

is in conformity with the applicable requirements of the following documents

Ref. No.

EN60745-1:2009+A11:2010 EN61000-3-2:2014 EN60745-2-5:2010 EN61000-3-3:2013

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: 93dB(A) Sound power LwA: 104dB(A)

Uncertainty K: 3dB

Weighted vibration ah: 4.26m/s<sup>2</sup>

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

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