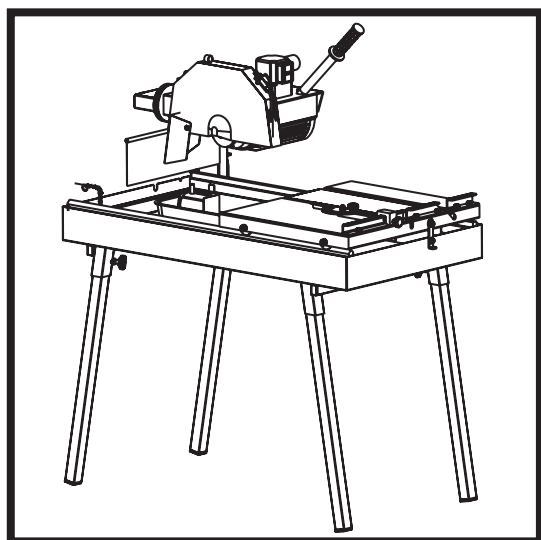




# BELLE BC 350 BRICK SAW

870/30009/5  
03/25



**(GB)** Operators Manual

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**2**

UKCA Declaration of Conformity

**3**

EC/EU Declaration of Conformity

# Declaration Of Conformity (DOC)

We, **Altrad Belle, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB** declare that the DoC is issued under our sole responsibility and belongs to the followings product(s):



PRODUCT TYPE .....  
MODEL.....  
SERIAL No.....  
DATE OF MANUFACTURE  
SOUND POWER LEVEL  
MEASURED /  
.....(GUARANTEED)  
WEIGHT.....



## Object of the Declaration:

Petrol engine / electric motor powered circular bench saw for cutting various types of stone & masonry.

The object of the declaration described above is in conformity with the relevant **Statutory Requirements**:

- **2008 No. 1597** Supply of Machinery (Safety) Regulations 2008
- **2001 No. 1701** Noise Emission in the Environment by Equipment for use Outdoors Regulations 2001
- **2016 No. 1091** Electromagnetic Compatibility Regulations 2016
- **2012 No. 3032** The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012

The following designated standards and technical specifications have been applied:

- **EN ISO 12100:2010** Safety of machinery
- **BS EN 12418:2000+A1:2009** Masonry and stone cutting-off machines for job site. Safety
- **BS EN 61029-2-1:2012** Safety of transportable motor-operated electric tools. Particular requirements for circular saw benches
- **ISO 3744:2010** Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure

Technical Files are held by **Ray Neilson** at the Altrad Belle address stated above:-

## Place of Declaration:-

Sheen,  
Nr. Buxton,  
Derbyshire,  
SK17 0EU,  
UK

## Date of Declaration:-

February 2022

Signed by:

Ray Neilson

**Managing Director**  
On behalf of Altrad Belle  
Sheen, Derbyshire, UK



## EC Declaration Of Conformity (DOC)



We, **Altrad Belle, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB** declare that the DoC is issued under our sole responsibility and belongs to the followings product(s):



PRODUCT TYPE .....

MODEL.....

SERIAL No.....

DATE OF MANUFACTURE .....

SOUND POWER LEVEL  
MEASURED /  
.....(GUARANTEED)

WEIGHT.....

Signed by:

**Ray Neilson**

**Managing Director**

*On behalf of Altrad Belle, Sheen, Derbyshire, UK*

**Place of Declaration:-**

*Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK*

**Date of Declaration:-**

*March 2022*

### Object of the Declaration:

Petrol engine / electric motor powered circular bench saw for cutting various types of stone & masonry.

The object of the declaration described above is in conformity with the relevant **Union Harmonisation Legislation:**

- **2006/42/EC** - New machinery directive

- **2000/14/EC** - Noise - equipment for use outdoors

The following harmonised standards and technical specifications have been applied:

- **EN ISO 12100:2010** Safety of machinery
- **BS EN 12418:2000+A1:2009** Masonry and stone cutting-off machines for job site. Safety
- **BS EN 61029-2-1:2012** Safety of transportable motor-operated electric tools. Particular requirements for circular saw benches
- **ISO 3744:2010** Acoustics — Determination of sound power levels and sound energy levels of noise sources using sound pressure

Technical Files are held by **Armand Trenel** at the following address:-

**Altrad Investment Authority SAS:** 150 Rue Le Pérugin, 34000 Montpellier, France.



## EU Declaration Of Conformity (DOC)



We, **Altrad Belle, Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB** declare that the DoC is issued under our sole responsibility and belongs to the followings product(s):



PRODUCT TYPE .....

MODEL.....

SERIAL No.....

DATE OF MANUFACTURE .....

SOUND POWER LEVEL  
MEASURED /  
.....(GUARANTEED)

WEIGHT.....

Signed by:

**Ray Neilson**

**Managing Director**

*On behalf of Altrad Belle, Sheen, Derbyshire, UK*

**Place of Declaration:-**

*Sheen, Nr. Buxton, Derbyshire, SK17 0EU, UK*

**Date of Declaration:-**

*March 2022*

### Object of the Declaration:

Petrol engine / electric motor powered circular bench saw for cutting various types of stone & masonry.

The object of the declaration described above is in conformity with the relevant **Union Harmonisation Legislation:**

- **2014/30/EU** - EMC Directive

- **2011/65/EU** - Restriction of Hazardous Substances Directive

The following harmonised standards and technical specifications have been applied:

- **EN ISO 12100:2010** Safety of machinery
- **BS EN 12418:2000+A1:2009** Masonry and stone cutting-off machines for job site. Safety
- **BS EN 61029-2-1:2012** Safety of transportable motor-operated electric tools. Particular requirements for circular saw benches
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Technical Files are held by **Armand Trenel** at the following address:-

**Altrad Investment Authority SAS:** 150 Rue Le Pérugin, 34000 Montpellier, France.



# How To Use This Manual

This manual has been written to help you operate and service the BC350 Bench Saw safely. This manual is intended for dealers and operators of the BC350 Bench Saw.

## Foreword

The '**Machine Description**' section helps you to familiarise yourself with the machine's layout and controls.

The '**Environment**' section gives instructions on how to handle the recycling of discarded apparatus in an environmentally friendly way.

The '**General Safety**' and '**Health and Safety**' sections explain how to use the machine to ensure your safety and the safety of the general public.

The '**Operating Instructions**' helps you with the setting up and use of the machine.

The '**Trouble Shooting Guide**' helps you if you have a problem with your machine.

The '**Service & Maintenance**' section is to help you with the general maintenance and servicing of your machine.

The '**Warranty**' Section details the nature of the warranty cover and the claims procedure.

The '**Declaration of Conformity**' section shows the standards that the machine has been built to.

## Directives with regard to the notations.

Text in this manual to which special attention must be paid are shown in the following way:



### CAUTION

*The product can be at risk. The machine or yourself can be damaged or injured if procedures are not carried out in the correct way.*



### WARNING

*The life of the operator can be at risk.*



## WARNING



### WARNING

*Before you operate or carry out any maintenance on this machine **YOU MUST READ** and **STUDY** this manual.*

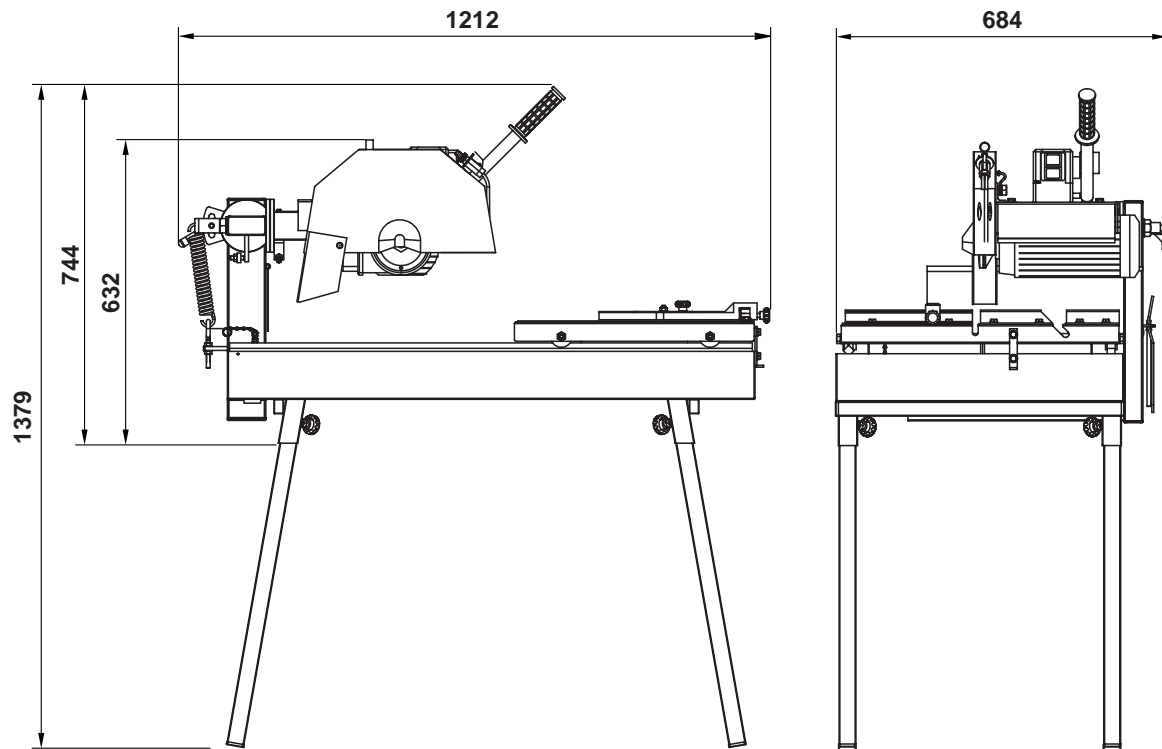
**KNOW** how to safely use the unit's controls and what you must do for safe maintenance. (NB Be sure that you know how to switch the machine off before you switch on, in case you get into difficulty.)

**ALWAYS** wear or use the proper safety items required for your personal protection. If you have **ANY QUESTIONS** about the safe use or maintenance of this unit, ASK YOUR SUPERVISOR OR CONTACT: **ALTRAD BELLE (UK): +44 (0) 1298 84606**



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Model	110v	230v
Motor Power (kW / Hp)	2.2 / 3.0	2.2 / 3.0
Motor Voltage (V)	110	230
Motor RPM	2800	2800
Minimum Transformer Size (kVA)	5	N/A
Current Supply (Amp)	32	16
Pump Voltage (V)	110	230
Blade Diameter (mm)	350 x 25.4	350 x 25.4
Maximum Cut Length (mm)	650	650
Maximum Cut Depth (mm)	128	128
Blade Speed (rpm)	3000	3000
Machine Weight (Kg)	79	79
Water Volume (Ltr)	70	70
3 Axis Vibration (m/s <sup>2</sup> )	2.61	2.61
Sound Power Level (dB(A))	103	106



## Environment

### Safe Disposal.



Instructions for the protection of the environment. The machine contains valuable materials. Take the discarded apparatus and accessories to the relevant recycling facilities.

Component	Material
Handle	Steel
Main frame	Steel
Hand Grips	Rubber
Motor	Aluminium
Flexible Mounts	Steel and Rubber
Various Parts	Steel and Aluminium



## General Safety

For your own personal protection and for the safety of those around you, please read and ensure you fully understand the following safety information. It is the responsibility of the operator to ensure that he/she fully understands how to operate this equipment safely. If you are unsure about the safe and correct use of the Saw, consult your supervisor or ALTRAD Belle.



### **WARNING**

*Improper maintenance can be hazardous. Read and Understand this section before you perform any maintenance, service or repairs.*

- This equipment is heavy and must not be lifted single-handedly, either **GET HELP** or use suitable lifting equipment.
- Cordon off the work area and keep members of the public and unauthorised personnel at a safe distance.
- Personal Protective Equipment (PPE) must be worn by the operator whenever this equipment is being used (see Health & Safety).
- Make sure you know how to safely switch this machine **OFF** before you switch it **ON** in case you get into difficulty.
- Always switch **OFF** the engine before transporting, moving it around the site or servicing it.
- During use the engine becomes very hot, allow the engine to cool before touching it.  
Never leave the engine running and unattended.
- Never remove or tamper with any guards fitted, they are there for your protection. Always check guards for condition and security, if any are damaged or missing, **DO NOT USE THE SAW** until the guard has been replaced or repaired.
- Do not operate the Floor Saw when you are ill, feeling tired, or when under the influence of alcohol or drugs.



## Health And Safety

### Vibration.

Some vibration from the floor saw operation is transmitted through the handle to the operator's hands. The Altrad Belle floor saw has been specifically designed to reduce hand/arm vibration levels. Please contact ALTRAD Belle for specifications & technical data for vibration levels and usage times (recommended maximum daily exposure time). **DO NOT** exceed the maximum usage times.

### PPE (Personal Protective Equipment).

Suitable PPE must be worn when using this equipment i.e. Safety Goggles, Gloves, Ear Defenders, Dust Mask and Steel Toe capped footwear. Wear clothing suitable for the work you are doing. Tie back long hair and remove any jewellery which may catch in the equipment's moving parts.

### Dust.

The sawing process will occasionally produce dust, which may be hazardous to your health. Always wear a mask that is suited to the type of dust being produced.



## Pre-Start Checks

### Pre start-up inspection.

The following Pre-start-up inspection must be performed before the start of each work session or after every four hours of use, whichever is first. Please refer to the service section for detailed guidance. If any fault is discovered, the floor saw must not be used until the fault is rectified.

1. Thoroughly inspect the Saw for signs of damage. Check components are present and secure. Pay special attention to the blade safety guard.
2. Check fluid lines, hoses filler openings, drain plugs and any other areas for signs of leakage. Fix any leaks before operating.
3. Check the machine is connected to electrical earthing.
4. Check all cables are protected from damage and are not likely to be tripped over.

# Assembly Instructions



## **WARNING**

*This machine has a weight of 80Kg and must be moved by a minimum of 2 people. **DO NOT** attempt to move this machine on your own.*

With your machine you will find the following items:-

- 4 Legs.
- 4 Wing Nuts to tighten the legs.
- 1 Rubber plug for the water pan.
- 2 Keys (1) axle of the blade, (1) Hexagonal.

Apart from this, you must take off the metal strip sealing the saddle. Then, place the saddle onto the water pan lodging its grooved wheels into the guides.

### **Blade Assembly**

- Disconnect the plug from the electric network.
- Throw away any worn out, bent or cracked blades.
- Remove the blade guard, and loosen the fasteners which attach it to the headstock.
- Fix the axle of the disc by introducing the key into the hole of the axle, and loosen the nut of the blade using the hexagonal key.
- Remove the outer plate and then change the blade. Centre the blade before tightening. The blade is set in place by tightening the nut and fixing the keys.
- Re-attach the blade guard, and tighten the fasteners.

Fasten the blade by tightening the nut. Use the set of tools that you receive with the machine.

# Operating Instructions



## **WARNING**

*When using a 110v machine, the minimum transformer size which can be used is 5kVA with a continuous rating of 3kVA*

**Make sure that the motor is switched off before you plug it into the power supply.**

**110v** - When using a transformer it **MUST** have a minimum output of 5kVA. **DO NOT** use a 230v extension cable between the main supply and the transformer. If using an 110v extension cable between the transformer and the machine it must be no longer than 50 Metres (164ft), made by 3 cables of 10mm section each.

**230v** - If using a Generator it **MUST** have a minimum output of 5kVA. If using an extension cable it must be no longer than 50 Metres (164ft), made by 3 cables of 2.5mm section each.

The symbols on the ON/OFF switch are 0 (Red) = OFF and I (Green) = ON in accordance with international standards.

### **OPERATION**

The headstock of the machine can cut in to different positions:

#### **A) 90° STRAIGHT CUT "VERTICAL BLADE POSITION"**

Move the saddle towards the blade, pushing it gently in order to create the cut.

#### **B) 45° MITRE CUT "INCLINED DISC POSITION"**

The head of the Saw inclines up to 45°. To get this position, loosen the fastener and rotate the motor head completely, fixing it in the position indicated.

To Mitre, put the piece on the saddle with the front side down. Then, put the guide ruler on the left-hand side of the saddle. That way you can adjust the mitre to the measure of the piece. Once the ruler blockade has been fixed, make all the cuts on pieces of an equal measure.

Begin by moving the saddle carefully, so that the glazed material does not suffer any damage. Do not move the saddle quickly. Otherwise you will force the blades flexibility. As a result, the mitre will be defective and the blade may break.

The water pan contains water in order to cool the cut. Its capacity is approximately 60 litres. It is important to frequently check the water level. **Note:-** It must always cover the pump when functioning)

The flow of water is adjusted using a spherical valve placed over the disc protection. The jet of water must be projected directly towards the inner line of the diamond blade bar. You can adjust it using a screwdriver. Partially introduce the screwdriver into the water pipes and correct them. They are easily corrected as they are made from malleable copper.

**Note:** The water pump starts up with the machine as you switch it on.

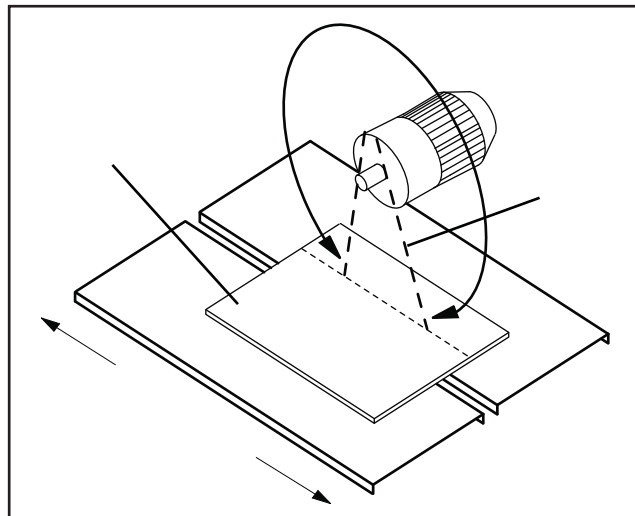
**CAUTION**

The operator should be positioned on the saddle in front of the axle of the blade

**Necessary Items:**

- A round steel stick of 4 or 5mm and 250mm in length. Sharpen one of the ends.
- Ceramic tile.

1. Unplug the machine, remove the blade guard, loosen the fasteners which attach it to the headstock.
2. Remove the blade following the operating instructions.
3. Loosen the 4 screws which fix the motor to the platform. (**DO NOT** remove completely)
4. Put the ceramic tile on the saddle as indicated in the diagram, with the glazed side facing down. Put some chalk on the visible side along the central line.
5. Place the stick between the fixing pans, after having tightened the thread of the axle of the motor. When placing the stick, take into account that the sharpened end must be in contact with the tile.
6. Then, turn the axle with the stick in the opposite direction, and move the saddle in the opposite direction to create a new line on the tile. This must coincide with the previous line. If it doesn't, you have to move the motor until the lines coincide. Once obtained, fix the screws to the platform.



## Troubleshooting Guide

Problem	Cause	Remedy
The motor has no power.	Low Voltage.	Increase the cable section or in its case, find a solution to the slow voltage which might be due to the electricity main supply.
	Bad Connection.	Check that the motor is connected to the same voltage as the mains supply.
The machine doesn't cut straight at 90° angle.	Looseness in wheels.	Change the wheels or adjust them.
	Incorrect Blade.	Change the blade. Use the appropriate blade to the material being cut.
	The machine isn't lined up.	Line up according to instructions.
	The rulers are not perpendicular to the blade.	Loosen the screws and place the rulers at right-angle to the blade.
The blade has lost its cutting power.	Blunting of the diamond coating.	Cut an abrasive material (Stoneware, Concrete, Emery)
The water pump doesn't work.	The propeller is blocked.	Unscrew the lid and remove the items (mud and grit) blocking the propeller.
	The pump is burnt.	Change the pump.
	The pump is badly connected.	Connect properly (See operating instructions)
The mitre is defective.	The headstock is not horizontal (this can be due to a short) when you are moving the machine for mitering.	Try to place the headstock in a horizontal position using the screw.
The power point (in its case) doesn't remain enclaved.	The coil is burnt.	Change the coil.





## **WARNING**

*With regard to any cleaning, repairing or maintenance operation, make sure that the electrical net feeding plug is disconnected. You musn't use water under pressure to clean any circuits.*

After the working day, it is recommended that the pump function is placed into a clean water recipient. Thus you eliminate and residue from the the inner circuit.

In any case, after the daily work, in order to avoid damages, take the water pump out of the pan. If not, the mud produced by the dusty sediment may deposit on the pump turbine arms, hindering their rotation.

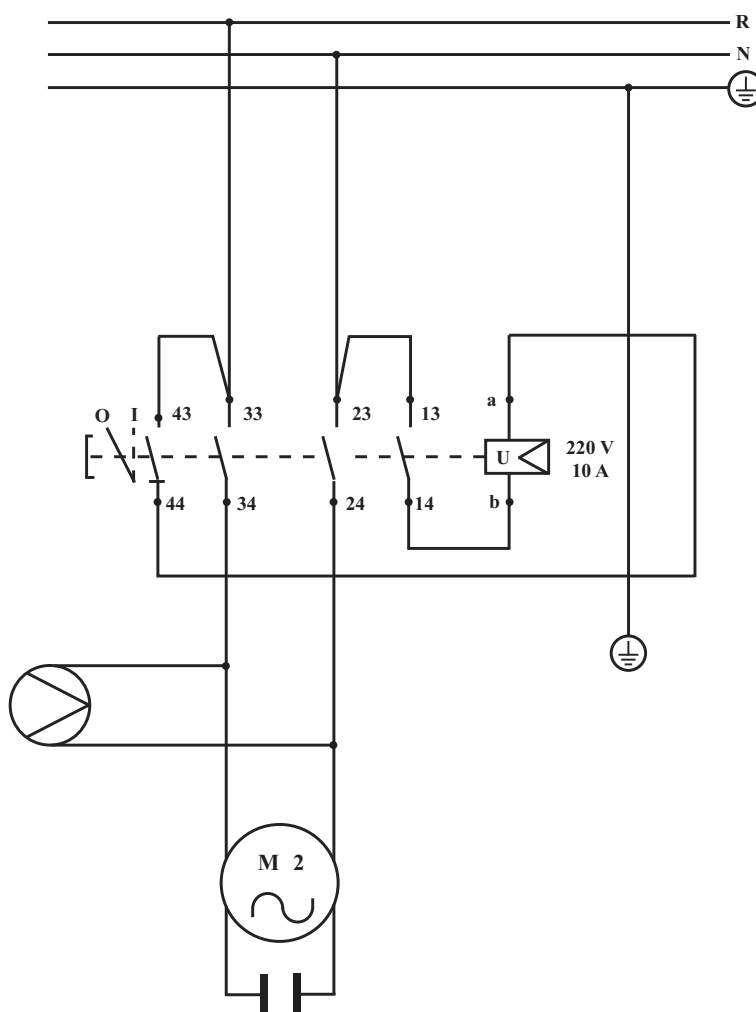
The BC 350 Saw has been designed and made for straight and mitre cuts on any kind of material, such as, tile, stoneware, bricks and marble. Any modification of the saw, aswell as misuse is considered inappropriate and dangerous. In case of material or physical damages due to the nonobservance of the above recommendations, ALTRAD Belle is free from responsibility.

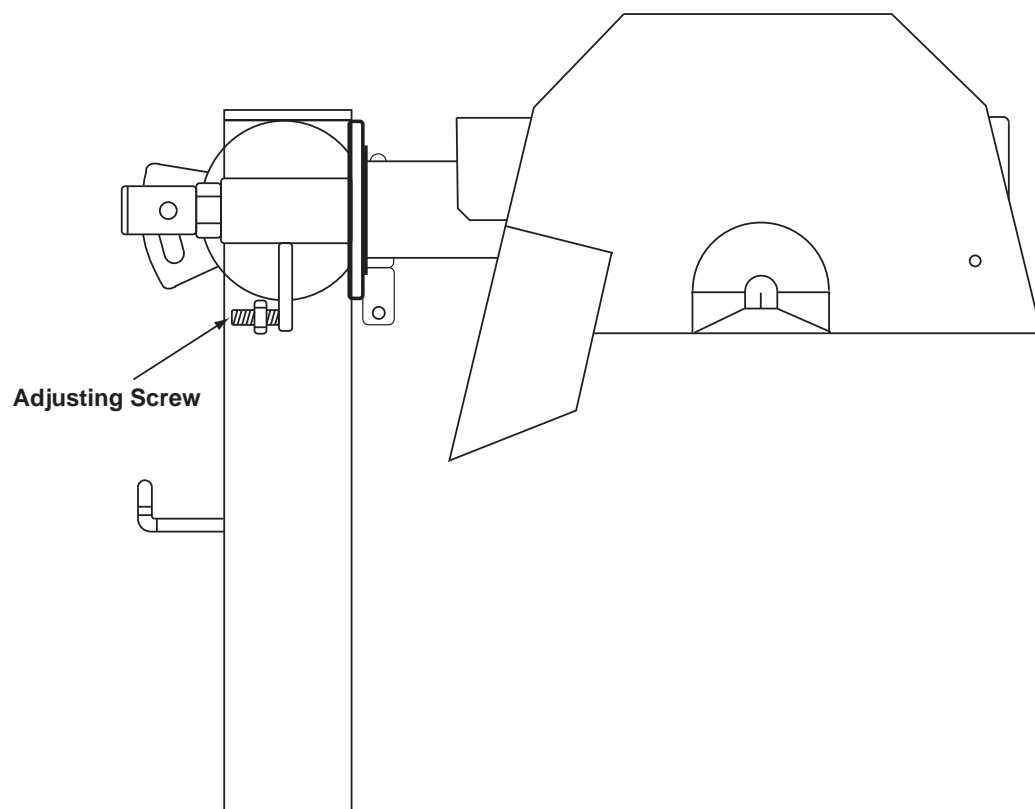
The machine only needs simple maintenance.

Clean the machine as often as needed so that dust and other residues from cut materials do not hinder the function of the water pump.

Any maintenance work is to be carried out by trained individuals.

## Wiring Diagram - Single Phase





## Warranty



Your new Altrad Belle BC 350 Bench Saw is warranted to the original purchaser for a period of one-year (12 months) from the original date of purchase. The Altrad Belle warranty is against defects in design, materials and workmanship.

The following are not covered under the Altrad Belle warranty:

1. Damage caused by abuse, misuse, dropping or other similar damage caused by or as a result of failure to follow assembly, operation or user maintenance instructions.
2. Alterations, additions or repairs carried out by persons other than Altrad Belle or their recognised agents.
3. Transportation or shipment costs to and from Altrad Belle or their recognised agents, for repair or assessment against a warranty claim, on any machine.
4. Materials and/or labour costs to renew, repair or replace components due to fair wear and tear.

The following components are not covered by warranty.

- Drivebelt/s
- Engine air filter
- Engine spark plug

Altrad Belle and/or their recognised agents, directors, employees or insurers will not be held liable for consequential or other damages, losses or expenses in connection with or by reason of or the inability to use the machine for any purpose.

### Warranty Claims

All warranty claims should firstly be directed to Altrad Belle, either by telephone, by Fax, by Email, or in writing.

#### For warranty claims:

Tel: +44 (0)1298 84606

Fax: +44 (0)1298 84073

Email : [warranty.dept@altrad-belle.com](mailto:warranty.dept@altrad-belle.com)

#### Write to:

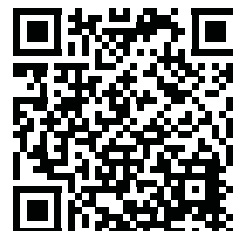
Altrad Belle Warranty Department,  
Sheen, Nr. Buxton,  
Derbyshire,  
SK17 0EU  
England.

#### Warranty Registration:

In the bid for ALTRAD Belle to become greener and more eco friendly, we have now introduced online Warranty registration. To access the registration page of our website, please use the following address:-

[http://www.bellegroup.com/index.php?p=warranty\\_registration](http://www.bellegroup.com/index.php?p=warranty_registration)

Alternatively, please scan the adjacent QR Code (Quick Response Code) using your smartphone to access the registration page.



## Replacement Parts



When maintaining this product only the manufacturers original, genuine replacement parts may be used.

The user will lose any possible claims if replacement parts used are other than the makers original replacement parts.

Replacement parts for this product can be ordered online 24 hours a day, 7 days a week at [www.Altrad-Belle247.com](http://www.Altrad-Belle247.com)

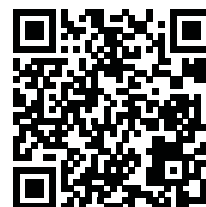
For more information regarding the availability of replacement parts for this product, please contact Altrad Belle using the following contact details:-

Tel:- +44 (0)1298 84606

Fax:- +44 (0)1298 84073

Email:- [sales@altrad-belle.com](mailto:sales@altrad-belle.com)

Alternatively, please scan the adjacent QR Code (Quick Response Code) using your smartphone to access the Altrad Belle online parts portal.





BELLE  
LIGHT  
CONSTRUCTION  
EQUIPMENT

#### **ALTRAD BELLE**

Sheen, Nr. Buxton, Derbyshire, SK17 0EU, GB

Tel. +44 (0)1298 84606 - Fax +44 (0)1298 84722 - Email: [sales@altrad-belle.com](mailto:sales@altrad-belle.com)

**[www.Altrad-Belle.com](http://www.Altrad-Belle.com)**

#### **EU IMPORTER ADDRESS**

*ADRESSE DE L'IMPORTATEUR - DIRECCIÓN DEL IMPORTADOR - ENDEREÇO DO IMPORTADOR - ADRES IMPORTEUR  
IMPORTØRENS ADRESSE - IMPORTEUR ADRESSE - INDIRIZZO DELL'IMPORTATORE - IMPORTÖRENS ADRESS - IMPORTØRADRESSE  
MAAHANTUOJAN OSOITE - ADRES IMPORTERA - IMPORTIJA AADRESS - IMPORTËTÄJA ADRESE - IMPORTUOTOJO ADRESAS  
ADRESA DOVOZCE - ADRESA IMPORTATORULUI - IMPORTŐR CÍME - ADRESA UVOZNIKA - İTHALATÇI ADRESİ - ADRESA DOVOZCU*

#### **ALTRAD (Group Holding)**

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**[www.altrad.com](http://www.altrad.com)**