WORKZONE®

800W JIGSAW

OPERATING MANUAL

AFTER SALES SUPPORT

GB 0845 872 2740
IRL 019022605

www.sumecservicecentre. co.uk

MODEL: M1Q-DD4-80, 09/12, 90017

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- Jigsaw
- 4 saw blades
- Dust port
- Hexa key
- Parallel guide
- Operating manual

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Safety warnings

1

Description of symbols

Please read all of the safety warnings and operating instructions carefully before using this tool. Please pay particular attention to all sections of this User Guide that carry warning symbols and notices.

	Observe caution and safety warnings!
	Protect the electrical power tool from moisture!
	Safety class II
	Always wear safety gloves
	Always wear ear protection
	Always wear protective glasses
	Wear dust mask
	Do not dispose of this product in your household waste. Contact your Local Authority waste department for details of your local recycling scheme.

Safety warnings

General safety warnings for power tools

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. Keep all warnings and instructions for future reference. The term "power tool" in the safety warnings refers to mains-powered (corded) power tools and battery-powered (cordless) power tools.

1) Work area safety

- Keep work area clean and well lit. Cluttered and 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 that may ignite the dust or fumes.

- Keep children and bystanders away while operating a power tool. Distractions may cause you to lose control.

2) Electrical safety

To avoid danger to life from electric shock: The mains plug on the device must be compatible with the socket. The plug must not be modified in any way. Do not use an adapter plug with devices fitted with a protective earth.

Unmodified plugs and matching sockets reduce the risk of electric shock.

- Avoid bodily contact with earthed surfaces such as pipes, radiators, ovens and refrigerators. There is an increased risk of electric shock if your body is earthed.

Keep the device away from rain or moisture. Water ingress into an electrical device increases the risk of electric shock. Do not use the mains lead for any purpose for which it was not intended, e.g. to carry the device, to hang up the device or to pull the mains plug out of the socket. Keep the mains lead away from heat, oil, sharp edges or the moving parts of the device.

Damaged or tangled mains leads increase the risk of electric shock.

- When working outdoors with an electrical power tool always use extension cables that are also approved for use outdoors. The use of an extension cable suitable for outdoor use reduces the risk of electric shock.
- Use a residual current device (RCD) for protection if operating the electrical power tool in a moist environment is unavoidable. The use of an RCD reduces the risk of electric shock.

3) 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 carelessness while operating power tools may result in serious personal injury.
- Use safety equipment and always wear eye protection. Wearing personal protective equipment such as dust masks, slip-free safety shoes, safety helmets or ear protectors, depending on the type of power tool and its use, reduce the risk of injuries.
- Avoid unintentional operation of the device. Check that the electrical power tool is switched off before you connect it to the mains, pick it up or carry it. Accidents can happen if you carry the device with your finger on the ON / OFF switch or with the device switched on.
- 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 tool may result in personal injury.
- Avoid working in an uncomfortable position. Keep proper footing and balance at all times.
- This enables better control of the power tool in unexpected situations.
- Wear suitable clothing. 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 vacuum dust extraction and collection devices are fitted do not forget to check that they are properly connected and used correctly. The use of these devices reduces the hazard presented by dust.

4) Use and treatment of the power tool

- Do not force the power tool. Use the correct power tool for your application. Correct usage will complete the job better and safer at the rate for which it was designed.
- Do not use the power tool if the On/Off switch is broken. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- Disconnect the plug from the power source before making adjustments, changing accessories or storing the tool. Such precautionary safety measures reduce the risk of the power tool starting up accidentally.
- Store idle power tools out of the reach of children and do not allow persons unfamiliar with the tool or these instructions to operate the tool. Power tools are dangerous in the hands of untrained users.
- Maintain power tools properly. Check for misalignment or jamming of moving parts, for broken 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 jam and are easier to control.
- Use the power tool, accessories and insert tools in accordance with these instructions. Take the working conditions and the job being carried out into account. Use of the power tool for operations other than those intended could result in a hazardous situation.

5) 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.

6) Safety warnings for jigsaws

Avoiding the danger of injury, fire and damage to your health:

- Securely support the work piece. Use clamps or a vice to grip the work piece firmly. This is much safer than holding it in your hand.
- Always switch on the electric power tool before placing it against the work piece. There is a risk of kickback.
- Hold the power tool by the insulated gripping surfaces when performing an operation where the insert tool may contact hidden wiring or its own cord. Contact with a "live" wire can make metal parts of the tool "live" and shock the operator. Do not drill, fasten or break into existing walls or other blind areas where electrical wiring may exist. If this situation is unavoidable, disconnect all fuses or circuit breakers feeding the worksite.
- Never leave the trigger locked "ON". Before plugging the tool in, check that the trigger lock is "OFF". Accidental start-ups can cause injury.
- Keep your hands away from the area of the saw blade. Do not grip the underside of the work piece. Contact with the saw blade may result in the risk of injury.

- Make sure that the base plate (9) lies on the work piece when sawing and is set to the desired angle.
- If a dangerous situation arises, immediately remove the plug from the mains socket.
- Always work with the mains lead leading away from the rear of the device.
- Do not use blunt or damaged blades. Bent blades can break easily or cause kickback.
- When removing the blade from the tool avoid contact with the skin and use proper protective gloves when touching the blade or accessory.

Accessories may become hot after prolonged use.

WARNING!! Noxious fumes

Working with harmful / noxious dusts represents a risk to the health of the person operating the device and to anyone near the work area. Do not saw materials containing asbestos. Asbestos is a known carcinogen.

Wear protective glasses and a dust mask!

Do not saw materials containing substances harmful to health.

- When sawing wood and in particular when working on materials that give rise to dusts that are hazardous to health, the device must be connected to a suitable dust extraction device.
- Make sure you have adequate ventilation.
- Do not work on moistened materials or damp surfaces.
- Switch off the electrical power tool after completing each stage of work but do not withdraw the saw blade from the cut until after it has come to a standstill.
- Use only undamaged, defect-free saw blades. Distorted or blunt saw blades can break or cause a kickback.
- Always keep the device clean, dry and free of oil or grease.

7) Safety warnings for lasers

CAUTION! Laser radiation – do not stare into the beam.

This power tool produces class 2 laser beams according to IEC EN 60825-1. Never look directly into the laser beam – particularly with magnifying devices such as binoculars – as this can damage the eyes.

Protect yourself and your environment from accidents by taking the following precautionary measures.

- Never look directly into the laser beam without eye protection.
- Never look directly in the beam path.
- Never direct the laser towards reflective surfaces, persons or animals. Even a low-powered laser beam can cause damage to the eyes.
- Caution - failure to follow these measures can lead to dangerous exposure to radiation and blindness.
- Never open the laser line guide.

Parts list and assembly

2

Check the delivery parts

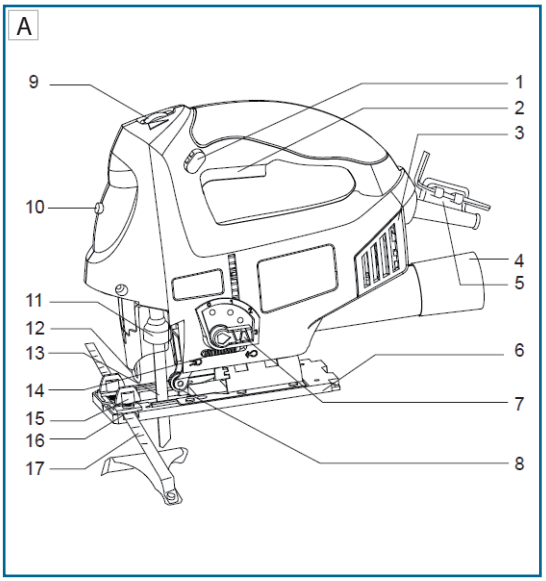
Carefully remove the machine from its packaging and check for the following parts:

- Jigsaw
- 4 saw blades
- Dust port
- Hexagonal key
- Parallel guide
- Operating manual

If any parts are missing or damaged, please contact your retailer.

Parts list

The numbering of the product features refers to the illustration of the machine (A).



1. Lock-ON button
2. Trigger switch
3. Ventilation openings
4. Dust port
5. Recess for the hexagonal key
6. Base of jigsaw
7. Pendulum action switch
8. Guide roller
9. Stroke adjuster
10. Laser/working light button
11. Quick-action chuck
12. Safety guard
13. Saw blade
14. Switch for sawdust-extraction device
15. Locking screws for parallel guide
16. Guide openings for parallel guide
17. Parallel guide

Assembly

CAUTION! To prevent personal injury, always disconnect plug from power source before assembling parts, making adjustments, or changing blades and observe the general safety guidelines.

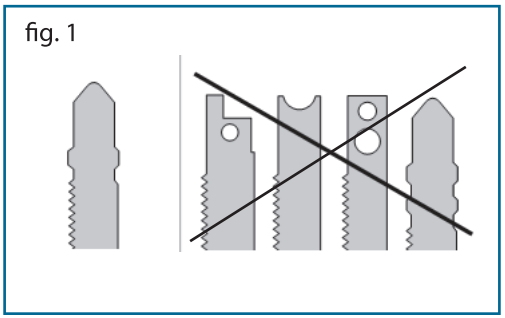
1) Inserting the blade

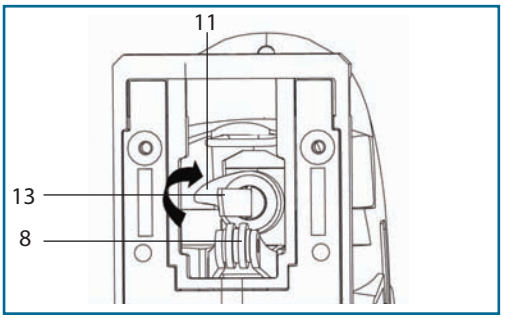
CAUTION! To prevent personal injury, always disconnect plug from power source before assembling parts, making adjustments, or changing blades and observe the general safety guidelines.

- Only use saw blades with a T-shank.
- Turn the quick-action chuck (11) lever and keep it turned. Place the blade in the chuck so it locates in the roller guide (8).
- Push the required saw blade (13) up to the stop .The saw blade (13) should click into place.
- Let go of the quick-action chuck lever: the lever should return to its original position automatically locking the saw blade in place.

If the lever does not return to its original position the blade is not positioned correctly and requires pushing further into the chuck.

fig. 1





2) Removing the blade

CAUTION! Saw blades can become very hot during use.
Avoid direct contact with the saw blade or let it cool down first.

The quick-action chuck of this saw blade has an automatic eject function.

- Hold the saw in such a way that the saw blade (13) points towards a protected area (work surface or wall). Ensure that it does not face other people.
- Turn the quick-action chuck (11) clockwise and the spring mechanism of the quick-action chuck will automatically release the saw blade.

3) Dust extraction

Your jigsaw is equipped with a dust port for dust and chip extraction.
Insert the dust port into the rear of the tool. This is done by inserting the port (4) with both catches into the channel and turning anticlockwise to secure it. Remove the port by turning it clockwise and then removing from the tool. Connect the dust port to the connecting hose of a suitable vacuum cleaner.

4) Sawing with the parallel guide

The parallel guide can only be used for workpieces with a maximum thickness of 30 mm.

- Remove the locking screws (15) and insert the scale of parallel guide fence through the guide (16) in the bottom plate.
- Select the desired cutting width by positioning the guide using the scale value on the guide.
- Fix the position by tightening the locking screws (15)

Getting started 3

Intended use

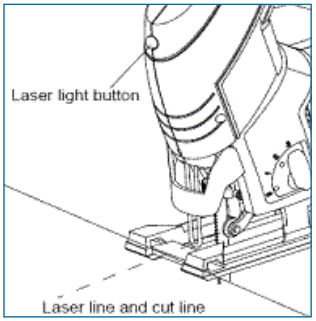
This power tool is suitable for making straight and curved cuts and mitre cuts on squared work pieces made of plastic, wood and metal. The tool is approved solely for private use in dry areas. Please observe the information relating to the types of saw blade. Any other use or modification of the tool constitutes improper use and poses a serious risk of accidents. The manufacturer is not liable for damage caused by improper use of the tool.

On/Off Switch

Switching on:	Press the trigger switch (2)
Continuous operation:	Squeeze the trigger switch and depress the lock button (1), then release the trigger
Switching off:	Release the trigger switch (2).
Stopping continuous operation:	Squeeze trigger (2) and then release it.

WARNING! If the “Lock-on” button (1) is held depressed, the trigger (2) will not be released.

Using the Laser Line Guide



Turn on the laser beam only when the device rests on the work piece.

- First, mark the cutting line on the work piece (good side down).
- Press the on / off switch (10) to turn on the laser.
- Ensure that the laser line and cut line completely overlap.

By repeatedly pressing the on / off switch (10) the laser beam and LED work light can be combined in several ways. Starting with the laser and light switched off, the following settings are available:

- 1 x press: Laser
- 2 x press: LED work light
- 3 x press: Laser beam combining with LED work light
- 4 x press: switched off

Adjusting the cutting speed

The jigsaw is equipped with a stroke adjustor (9). The blade stroke rate may be adjusted during cutting operation by presetting the dial to or between any one of the six numbers.

Set SPM (strokes per minute):
0-1: low stroke rate - application: steel
2-3: medium stroke rate - application: soft metal, hardwood
4-5: high stroke rate - application: plastic, softwood

Further control of the speed can be achieved by increasing or reducing the pressure on the On/Off switch (2) enabling smooth stroke-rate control of the machine. When the On/Off switch (2) is locked, it is not possible to reduce the stroke rate. The best results for a particular application are determined by practical experience, though as a general rule, slower speeds are for denser materials and faster speeds are for soft materials.

As described above, the required stroke rate is dependent on the material and the working conditions and can be determined by a practical trial.

Reducing the stroke rate is recommended for when the saw blade first engages in the material as well as when sawing plastic and aluminum. After longer periods of work at low stroke rate, the machine can heat up considerably. Remove the saw blade from the machine and allow the machine to cool down.

Adjusting the pendulum stroke

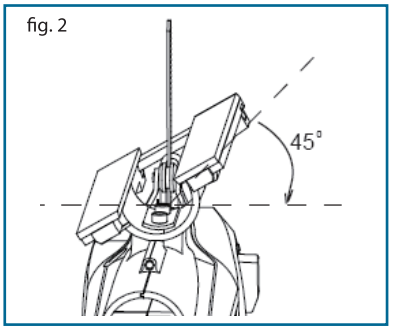
The strength of the pendulum movement of the saw blade (13) at the stroke can be adjusted via the pendulum stroke changeover switch (7).
You can adjust the cutting speed, cutting capacity and cross-section to the workpiece being cut.
Set the pendulum stroke changeover switch (7) to one of the following positions:
Position 0 = no oscillation
Materials: rubber, ceramics, aluminium, steel
Note: for fine and clean cutting edges, thin materials (e.g. sheet metal) and hard materials.
Position 1 = slight oscillation
Materials: plastic, wood, aluminium
Note: for hard materials
Position 2 = medium oscillation
Material: wood
Position 3 = strong oscillation
Note: for soft materials and sawing in the fibre direction

The best combination of speed and pendulum settings is dependent on the material being cut. We recommend always determining the ideal settings by carrying out a trial cut on a waste piece.

Adjusting the base (see fig.2)

- The base (6) can be swiveled by ±45° for mitre cuts.
- Loosen the two bolts in the base (6) by using the allan key supplied for the saw.
- Slide the base back to disengage the incremental lock and tilt the base (6) to the desired angle.
- There are increments of 15 ° on the scale.
- Fix the base by sliding it forward until the incremental lock engages and tightening the two bolts firmly.

fig. 2



Ensure that the base is set at 0° when using the laser guide or the line will not be true

Sawdust-extraction device

With the air flow from the sawdust extraction device, the cut line can be kept free from sawdust.

Switching on the sawdust extraction device:
For jobs with a large amount of chip removal (wood, plastic, etc.), move the switch (14) towards the extraction nozzle.
Turning off the sawdust extraction device:
For metal jobs and those with subsequent dust suction, move the switch (14) towards the saw blade.

Specification

4

Model number	M1Q-DD4-80
Rated voltage	230 V~, 50 Hz
Input power	800 W
Stroke rate at no load	0-3000 /min
Max. cutting depth	Wood: 80 mm Steel: 8 mm
Mitre cuts	± 45° (left and right)
Sound pressure level (L_{pA}) Uncertainty K =	87 dB(A) 4 dB
Sound power level (L_{WA}) Uncertainty K =	98 dB(A) 4 dB
Vibration emission value (Wood) Uncertainty K =	$a_{h,cw}$ = 9,9 m/s^2 1,85 m/s^2
Vibration emission value (Metal) Uncertainty K =	$a_{h,cw}$ = 8,3 m/s^2 1,96 m/s^2
Laser class	2
LED class	1

The vibration level given in these instructions is measured in accordance with a testing method regulated in EN 60745 and can be used for comparing several power tools. It is also suitable for the provisional assessment of the vibration stress.
The stated vibration level represents the standard use of the power tool. Should, however, the power tool be used for other applications, used with various insert tools or insufficiently maintained, the vibration level can vary. This can greatly increase the vibration stress during the entire working period.
To get a more precise estimate of the vibration stress, the times when the device is switched off, or is running, but is not being used, should also be taken into consideration. This can greatly reduce the vibration stress during the entire working period.
Arrange additional safety measures for the protection of the operator from the effects of vibrations, such as: maintenance of the power tools and insert tools, keeping the hands warm and the organisation of workflows.

On/Off switch

Switching on: Press the trigger switch (2).
Continuous operation: After pressing the trigger switch (2), press the lock-ON button (1), then release the trigger switch (2).
Switching off: Release the trigger switch (2).
Switching off from continuous operation: Press the trigger switch (2) and then release.

WARNING! If the "Lock-ON" button (1) is continuously pressed, the trigger (2) cannot be released.

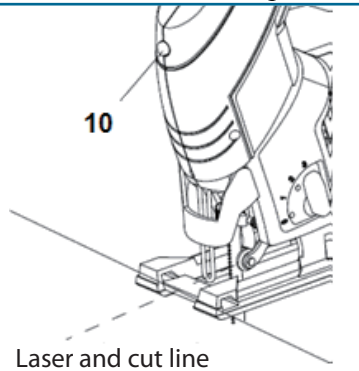
Using the laser line guide/working light (see fig. 3)

The numbering of the product features refers to the illustration of the machine (fig. 3).

Only turn the laser light on when the tool is on the work piece.

- First mark the cut line on your work piece (good side down).
- Press the On/Off button (10) to turn on the laser.
- Ensure that the laser line and cut lines completely overlap.

fig. 3



By pressing the On/Off switch several times, the laser beam and LED working light can be combined in several different ways.
Starting with the setting "laser beam and LED working light off", there are the following possible settings:

- Press once: Laser beam
- Press twice: LED working light
- Press three times: laser beam and LED working light combined
- Press four times: laser beam and LED working light off

Cutting

- Ensure that the On/Off switch (2) is not pressed in. First plug in the tool to a suitable socket.
- Only switch on the jigsaw once the saw blades are inserted.
- Only use saw blades that are free of defects. Immediately change blunt, bent or cracked blades.
- Place the saw bottom plate flat on the piece that is to be cut. Switch on the jigsaw.
- Allow the saw blade to come to full speed. Guide the blade slowly along the cut line. Only apply a small amount of pressure to the blade.

Bevel and angle cutting

WARNING! To prevent damage to the tool when bevel or angle cutting, the bottom plate must be locked in place.

The bottom plate can be set to cut angles between 0 and ± 45°
(see fig. 2).
Also see the chapter "Adjusting the bottom plate" on page 12.
Note: if the bottom plate loosens, tighten the Allen screws with the supplied hexagonal key.

Cutting out sections

Using a drilling machine, drill a large enough hole within the section that is to be cut out in order to give the saw blade enough space to move. Place the blade in this hole and begin cutting out the desired section.

Plunge sawing

CAUTION! When plunge sawing, only soft materials such as wood, plasterboard and other similar materials can be cut.

Only use short saw blades for plunge sawing.
Plunge sawing is only possible with a mitre angle of 0°. Set the stroke adjustor (9) to the maximum stroke rate.
Place the jigsaw so that the front cutting edge of the bottom plate (6) is on the work piece, but the saw blade (13) does not touch the work piece, and turn the saw on. Press the saw firmly against the work piece and let the blade slowly sink into the work piece.
The front cutting edge of the bottom plate (6) is the pivot point of the plunge movement; ensure that you do not move or change the pivot point under any circumstances.
As soon as the entire surface of the bottom plate (6) lies on the work piece, saw further along the desired cut line.

Cutting metal

When cutting metal, suitable cooling/cutting oil must be used. The lubricant must be regularly applied to the saw blade or work piece during cutting, in order to reduce wear on the blade.

Further useful information

6

Maintenance and cleaning

WARNING! Remove the plug before carrying out maintenance work on the tool.

- For safe and proper operation, always keep the machine and ventilation slots clean.
- Regularly check to see if any dust or foreign matter has entered the grills near the motor and around the trigger switch. Use a soft brush to remove any accumulated dust. Wear safety glasses to protect your eyes while 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.
- Never use solvents to clean plastic parts.
- Lubricate all moving parts at regular intervals.

CAUTION! The power tool must never come into contact with water.

Check all the fixings at regular intervals. They may become loose over time due to vibrations.

Trouble shooting

Jigsaw has no power	• Check plug fuse
Laser or light is not working	• The laser, light/laser and light combinations cycle depending on how many times the button is pressed. See page 11 for details.
Blade comes loose	• Blade was not seated correctly. Push blade firmly into the chuck • Quick release lever did not return to its normal position. Push blade in firmly and aid the lever to return to the correct position
Jigsaw does not cut straight	• Too much forward force is being applied to the jigsaw • The settings are incorrect for the material being cut. Check the speed and pendulum settings. • Blade is twisted or blunt. Replace blade
Laser is not aligned correctly	• Check base plate angle • Twist the laser light so the laser aligns with the groove on the base plate • Blade is twisted or blunt. Replace blade

Note: Some sparking from the motor may be visible through the venting of this unit and is normal.
Further advice on usage or faults is available by contacting the service centre on 08454 505299.

Disposal

Do not dispose of power tools with your household waste!

According to statutory provisions, products labelled with this symbol must be disposed of properly at the stipulated collection point. Information about corresponding collection points can be obtained from local authorities or a disposal company.
The packaging consists exclusively of environmentally-friendly materials. Dispose of it in your local recycling containers.

Customer service

Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the tool is maintained.

For enquiries or orders, please contact our service partner:
UK Hepline: 0845 8722740
ROI Hepline: 019022605

Unit 18 Evans Business Centre
Rose Avenue
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Poppleton
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YO26 6RR
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EC Declaration of Conformity

We,

Merotec GmbH,
Graf-Recke-Strasse 82
40239 Düsseldorf

declare that the product

800W jigsaw

Model No: M1Q-DD4-80

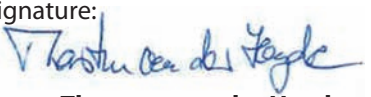
complies with the essential health and safety requirements of the following directives:

2004/108/EC
2006/42/EC

Standards and technical specifications referred to:

EN 60745-2-11:2010
EN 60745-1:2009
EN 60825-1:2007
EN 55014-1:2006+A1:2009+A2:2011
EN 55014-2:1997
EN 61000-3-2:2006+A1:2009+A2:2009
EN 61000-3-3:1995

Authorised signature
Date: 05.03.2012
Signature:



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CE

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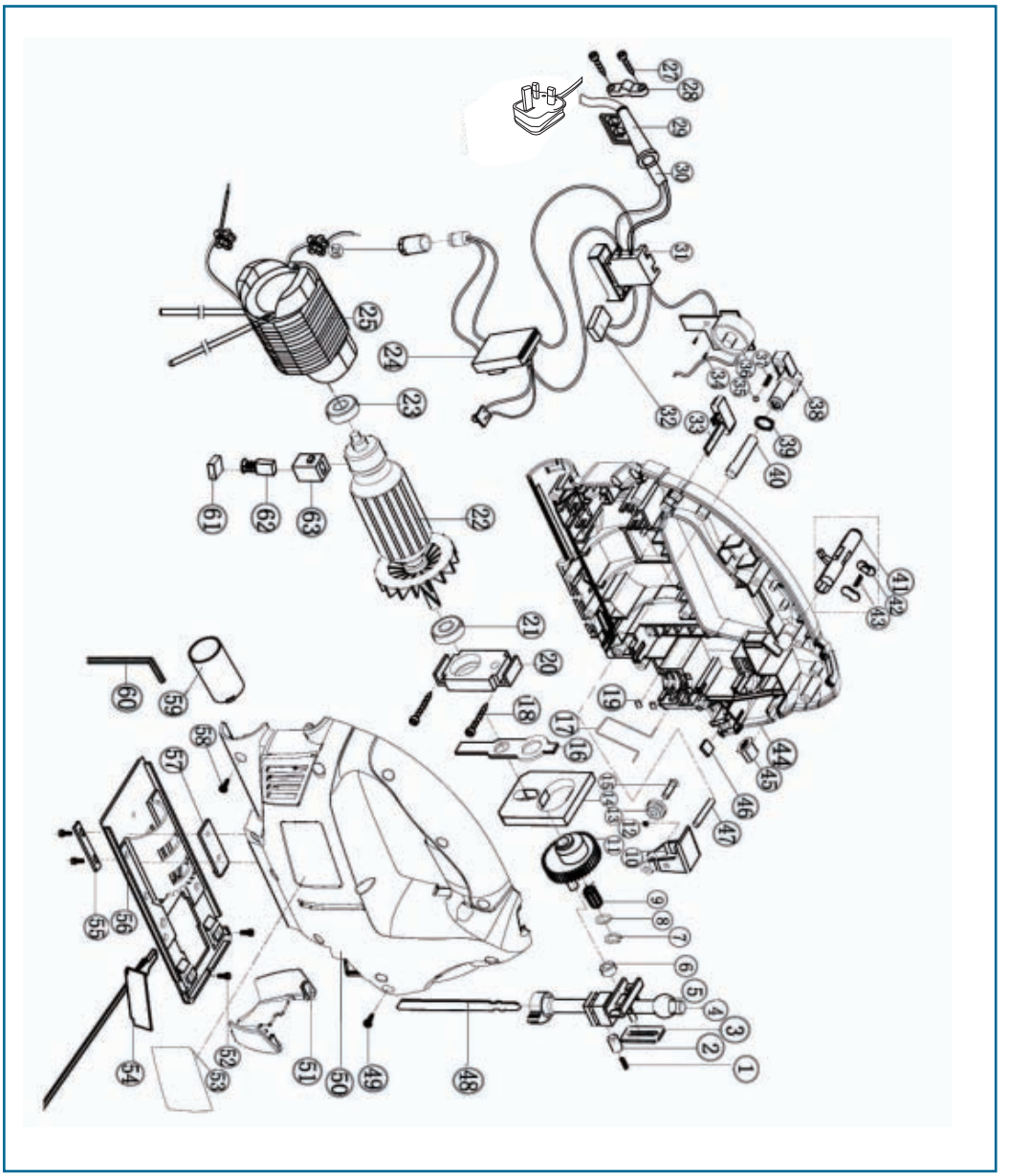
Exploded view drawing



Spare parts list

Ref.	Description	Ref.	Description
1	Reciprocating lever return spring	33	Dust suction slide damper
2	Spring bushing	34	Tapping screw
3	Reciprocating location	35	Small steel ball
4	Reciprocating component	36	Speed governor
5	Beaded support	37	Shift knob spring
6	Small sheave	38	Shift knob
7	Circlips for shaft	39	Elastic damping ring
8	Plain cushion	40	Shift axle of revolution
9	Needle roller bearing	41	Second self push button
10	Wheel frame	42	Plastic minipad
11	Gear wheel component	43	Keyless spring
12	Circlips for shaft	44	Housing (left)
13	Tail pulley	45	Laser button
14	Balance weight	46	Housing light
15	Tail pulley box	47	Wheel frame location pin
16	Lifting plate	48	Saw blade
17	Steel cable baffle pole	49	Screw
18	Screw	50	Housing (right)
19	Small steel needle	51	Clear coat
20	Centre-bearing bracket component	52	Socket head cap screw
21	608 bearing	53	Logo
22	Armature	54	Ruler staff
23	607 bearing	55	Bottom plate (below)
24	Laser component	56	Bottom plate
25	Stator	57	Bottom plate (above)
26	Laser head	58	ST3.9*14 bolt
27	Tapping screw	59	Dust collector
28	Tension disc	60	Allen key
29	Cable jacket	61	Brush housing
30	Cable	62	Brush
31	Switch	63	Brush box
32	Capacitor		

IMPORTED BY:
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