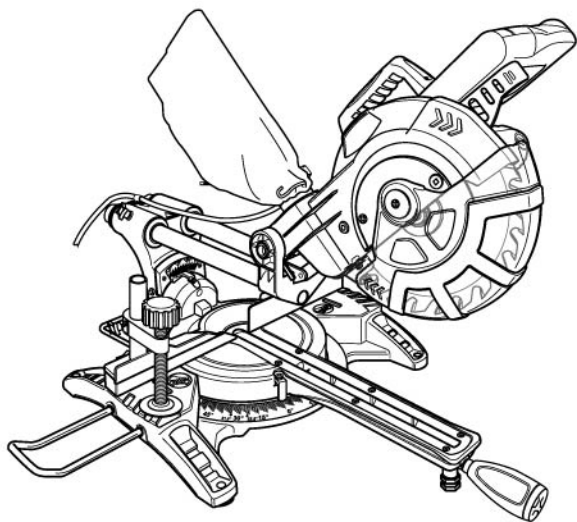


# TITAN®

## 1500W 210mm Sliding Mitre Saw



### TTB598MSW

Barcode: 5052931307364



**WARNING! Read the instructions before using the product!**

# TITAN®

**Congratulations on your purchase of a TITAN power tool from TITAN Power Tools (UK) Ltd. We want you to continue getting the best performance from it so this handbook includes information on safety, handling and care. Please retain this handbook in case you need to refer to any of the information in the future. Your TITAN power tool comes with a 2 year guarantee, so should it develop a fault within this period contact your retailer.**



## **GUARANTEE**

This TITAN product carries a 2 year guarantee. If your product develops a fault within this period, you should, in the first instance contact the retailer where the item was purchased. This guarantee specifically excludes losses caused due to:

- Fair wear and tear
- Misuse or abuse
- Lack of routine maintenance
- Failure of consumable items (such as batteries)
- Accidental damage
- Cosmetic damage
- Failure to follow manufacturer's guidelines
- Loss of use of the goods

This guarantee does not affect your statutory rights. This guarantee is only valid in the UK.

**1500W 210mm Sliding Mitre Saw**

**TTB598MSW**

# Let's get started...

These instructions are for your safety. Please read through them thoroughly before use and retain them for future reference.



## Getting started

Your product.....	3
Technical and legal information.....	6
Before you start.....	16

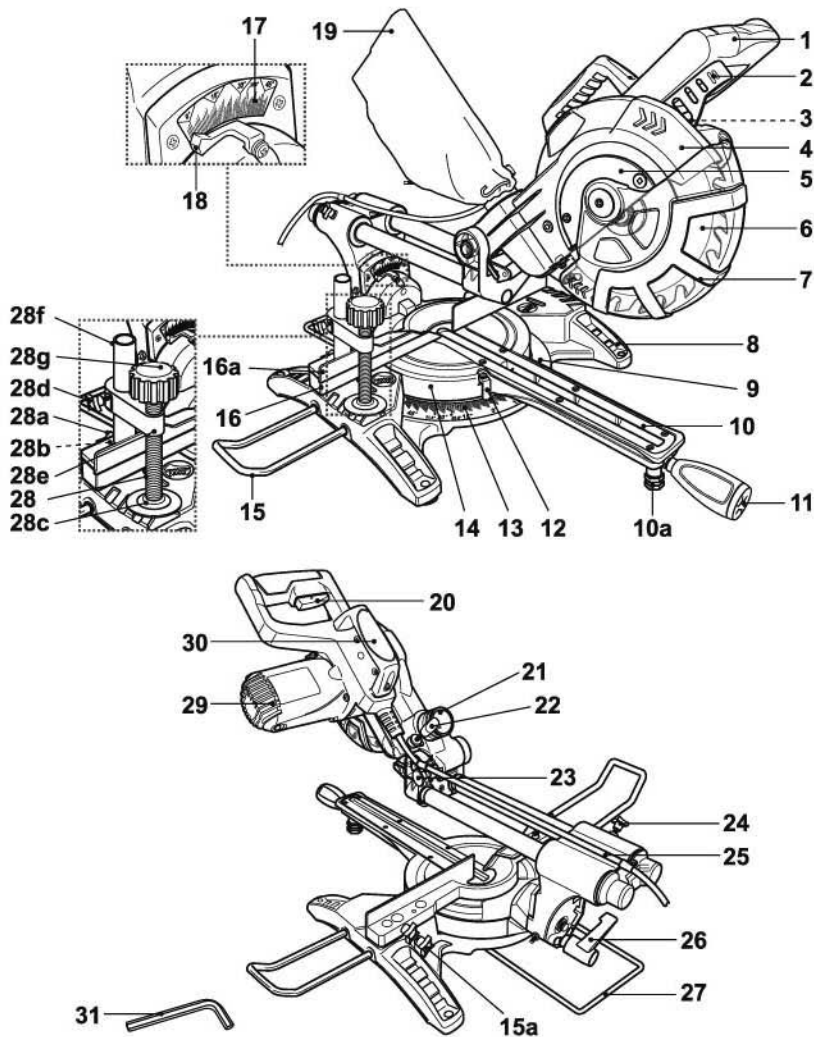


## In more detail

Product functions.....	23
Operation.....	29
Care and maintenance.....	45
Troubleshooting.....	53
Recycling and disposal.....	54
EC declaration of conformity.....	55

Your product

Your product




1. Handle
2. Retractable blade guard release lever
3. Spindle lock button
4. Upper fixed blade guard
5. Guard mounting plate
  - a. Screw\*
6. Saw blade
  - a. Bolt\*
  - b. Locking flange\*
  - c. Inner washer\*
  - d. Outer washer\*
  - e. Spindle\*
7. Lower retractable blade guard
8. Mounting hole
9. Base
10. Table insert
  - a. Support bolt
11. Turntable locking handle
12. Mitre scale pointer
13. Mitre scale
14. Turntable
15. Support
  - a. Locking knob
16. Fence
  - a. Fence extension
  - b. Fence extension locking knob
17. Bevel scale
18. Bevel scale pointer
19. Chip collection bag
  - a. Metal collar wings\*
20. On/off switch
21. Chip ejector opening
22. Depth gauge knob
23. Locking bolt
24. Slide locking knob
25. Power cord with plug
26. Bevel locking lever
27. Base extension
  - a. Clamp\*
28. Screw clamp
  - a. Pillar locking knob
  - b. Pillar holder
  - c. Plate
  - d. Locking knob
  - e. Bracket
  - f. Height adjustment pillar
  - g. Height adjustment knob
29. Air vents
30. Transport handle
31. Hex key (6 mm)



**NOTE:** Parts marked with \* are not shown in this overview. Please refer to the respective part in the instruction manual.

## Technical specifications

### General

- > **Rated voltage:** 230 V~, 50 Hz
- > **Rated power input:** 1500 W (S1)
- > **Rated no load speed  $n_0$ :** 5000 min<sup>-1</sup>
- > **Protection class:** II 
- > **Weight:** approx. 10.6 kg
- > **Dimensions:** approx. 72.5 x 45.5 x 39 cm

### Cutting capacity

- > **Max. cutting depth:** 62 mm
- > **Mitre capacity:** 0° - 45° (L)
- > **Bevel capacity:** -45° - +45°
- > **Mitre/Bevel 0°/90°:** 310 x 62 mm
- > **Mitre/Bevel 0°/45°:** 310 x 36 mm
- > **Mitre/Bevel 45°/90°:** 215 x 62 mm
- > **Mitre/Bevel 45°/45°:** 215 x 36 mm

### Saw blade

- > **Outer diameter:** Ø210 mm
- > **Bore diameter:** Ø30 mm
- > **Thickness:** 2.8 mm
- > **Teeth number:** 48
- > **Max. speed  $n_{max}$ :** 6000 min<sup>-1</sup>

### Noise and vibration level

- > **Sound pressure level  $L_{pA}$ :** 97 dB(A)
- > **Uncertainty K:** 3 dB(A)
- > **Sound power level  $L_{WA}$ :** 108 dB(A)
- > **Uncertainty K:** 3 dB(A)
- > **Hand-arm vibration  $a_h$ :** 2.66 m/s<sup>2</sup>
- > **Uncertainty K:** 1.5 m/s<sup>2</sup>

The sound values have been determined according to noise test code given in EN 61029-2-9, using the basic standards EN ISO 11201 and EN ISO 3744.

The sound intensity level for the operator may exceed 80 dB(A) and ear protection measures are necessary.

The declared vibration value has been measured in accordance with a standard test method (according to EN 61029-2-9) and may be used for comparing one product with another. The declared vibration value may also be used in a preliminary assessment of exposure.



**WARNING!** Depending on the actual use of the product the vibration values can differ from the declared total. Adopt proper measures to protect yourself against vibration exposures. Take the whole work process including times the product is running under no load or switched off into consideration.

Proper measures include among others regular maintenance and care of the product and accessories, keeping hands warm, periodical breaks and proper planning of work processes.

## Symbols

On the product, the rating label and within these instructions you will find among others the following symbols and abbreviations. Familiarise yourself with them to reduce hazards like personal injuries and damage to property.

V~	Volt, (alternating voltage)
Hz	Hertz
W	Watt
/min or min <sup>-1</sup>	per minute
kg	Kilogram
dB(A)	Decibel (A-rated)
m/s <sup>2</sup>	Metres per second squared
yyWxx	Manufacturing date code; year of manufacturing (20yy) and week of manufacturing (Wxx)



Caution / Warning.



Note / Remark.



Read the instruction manual.



Wear hearing protection.



Wear eye protection.



Wear respiratory protection.



Wear protective gloves.



Caution sharp blade



Caution finger entrapment risk



Switch the product off and disconnect it from the power supply before assembly, cleaning, adjustments, maintenance, storage and transportation.



Do not expose the product to rain or wet conditions.



The product complies with the applicable European directives and an evaluation method of conformity for these directives was done.



This product is of protection class II. That means it is equipped with enhanced or double insulation.



WEEE symbol. Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or local store for recycling advice.



Keep your hands away!



## Safety warnings

1. This product and its accessories are not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the product by a person responsible for their safety.
2. Children should be supervised to ensure that they do not play with the product.

### Power tool safety warnings



**WARNING!** When using electric tools basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury including the following. Read all these instructions before attempting to operate this product and save these instructions.

### Safe operation

1. Keep work area clear
  - Cluttered areas and benches invite injuries.
2. Consider work area environment
  - Do not expose tools to rain.
  - Do not use tools in damp or wet locations.
  - Keep work area well lit.
  - Do not use tools in the presence of flammable liquids or gases.
3. Guard against electric shock
  - Avoid body contact with earthed or grounded surfaces (e.g. pipes, radiators, ranges, refrigerators).
4. Keep other persons away
  - Do not let persons, especially children, not involved in the work touch the tool or the extension cord and keep them away from the work area.
5. Store idle tools
  - When not in use, tools should be stored in a dry locked-up place, out of reach of children.
6. Do not force the tool
  - It will do the job better and safer at the rate for which it was intended.
7. Use the right tool
  - Do not force small tools to do the job of a heavy duty tool.

- Do not use tools for purposes not intended; for example do not use circular saws to cut tree limbs or logs.
- 8. Dress properly
  - Do not wear loose clothing or jewellery, they can be caught in moving parts.
  - Non-skid footwear is recommended when working outdoors.
  - Wear protective hair covering to contain long hair.
- 9. Use protective equipment
  - Use safety glasses.
  - Use face or dust mask if working operations create dust.
- 10. Connect dust extraction equipment
  - If the tool is provided for the connection of dust extraction and collecting equipment, ensure these are connected and properly used.
- 11. Do not abuse the cord
  - Never yank the cord to disconnect it from the socket. Keep the cord away from heat, oil and sharp edges.
- 12. Secure work
  - Where possible use clamps or a vice to hold the work. It is safer than using your hand.
- 13. Do not overreach
  - Keep proper footing and balance at all times.
- 14. Maintain tools with care
  - Keep cutting tools sharp and clean for better and safer performance.
  - Follow instruction for lubricating and changing accessories.
  - Inspect tool cords periodically and if damaged have them repaired by an authorised service facility.
  - Inspect extension cords periodically and replace if damaged.
  - Keep handles dry, clean and free from oil and grease.
- 15. Disconnect tools
  - When not in use, before servicing and when changing accessories such as blades, bits and cutters, disconnect tools from the power supply.
- 16. Remove adjusting keys and wrenches
  - Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.
- 17. Avoid unintentional starting
  - Ensure switch is in "off" position when plugging in.
- 18. Use outdoor extension leads
  - When the tool is used outdoors, use only extension cords intended for outdoor use and so marked.

**19. Stay alert**

- Watch what you are doing, use common sense and do not operate the tool when you are tired.

**20. Check damaged parts**

- Before further use of tool, it should be carefully checked to determine that it will operate properly and perform its intended function.
- Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other conditions that may affect its operation.
- A guard or other part that is damaged should be properly repaired or replaced by an authorised service centre unless otherwise indicated in this instruction manual.
- Have defective switches replaced by an authorised service centre.
- Do not use the tool if the switch does not turn it on and off.

**21. Warning**

- The use of any accessory or attachment other than one recommended in this instruction manual may present a risk of personal injury.

**22. Have your tool repaired by a qualified person**

- This electric tool complies with the relevant safety rules. Repairs should only be carried out by qualified persons using original spare parts, otherwise this may result in considerable danger to the user.

**Mitre saw safety warnings****1. Safety precautions**

- **Warning!** Do not use saw blades which are damaged or deformed.
- Replace the table insert when worn.
- Only use saw blades recommended by the manufacturer and according to EN 847-1.
- **Warning!** Do not use saw blades manufactured from high speed steel.
- Wear suitable personal protective equipment, this includes:
  - hearing protection to reduce the risk of induced hearing loss,
  - eye protection,
  - respiratory protection to reduce the risk of inhalation of harmful dust,
  - gloves for handling saw blades and rough material (saw blades should be carried in a holder wherever practicable).

**2. Safe operation**

- Select the correct saw blade for the material to be cut.
- **Warning!** Do not use the saw to cut materials other than those specified.

- Refer to manual for lifting and transportation. Always carry the mitre saw by its handle. **Warning!** Do not use guards for this purpose.
- Only use the saw with guards in position, in good working order and properly maintained;
- Keep the floor area free of loose material e.g. chips and cut-offs.
- Ensure the speed marked on the saw blade is at least equal to the speed marked on the saw.
- Ensure that any spacers and spindle rings used are suitable for the purpose as stated by the manufacturer.
- Refer to the manual to replace and reposition the blade correctly.
- **Warning!** Never remove any cut-offs or other parts of the work piece from the cutting area until the machine completely stops and the saw head is in the rest position.
- Refer to the manual to perform cuts correctly and safely:
  - always clamp work pieces to the saw table,
  - ensure that the mitre saw is stable before each cut,
  - fix the machine to a work bench or the like if necessary,
  - support long work pieces with appropriate additional supports if necessary,
- Refer to the information about minimum size and the maximum cross-section size of the work piece for cross-cutting.

#### **Additional mitre saw safety warnings**

- Ensure that there is adequate lighting.
- Do not use the product unless the guards are in place.
- Do not use the product to cut metal or masonry.
- Do not let anyone under 18 years operate this product.
- Ensure that the operator is adequately trained in the use, adjustment and operation of the product.
- Do not use this product to cut firewood.
- Avoid cutting nails. Inspect the workpiece and remove all nails and other foreign objects before beginning sawing.
- Do not attempt to free a jammed blade before first switching off the product.
- Do not slow or stop a blade with a piece of wood. Let the blade come to rest naturally.
- Periodically check that all nuts, bolts and other fixings are properly tightened.
- Never saw near combustible liquids or gases.
- Note the direction of rotation of the motor and the blade.

- Do not lock the movable guard in the open position and always ensure that it is working properly, freely rotating and returning to fully cover the teeth of the blade.
- Connect the product to a dust collection device and ensure that it is operated properly. As the operator of the product, make sure that you understand factors that influence exposure to dust, including the type of material to be machined, the importance of local extraction and the proper adjustment of hoods/baffles/shoots of your dust extraction system. We recommend that you always wear a dust mask when operating this product.
- Take additional care when trenching (slotting).
- This product can be safely carried by the carrying handle but only once it has been removed from the mains power and secured in the locked down position.
- Ensure that the arm is properly secure when bevelling.
- When cutting long pieces which extend well over the table width, ensure that the ends are adequately supported at the same height as the saw table top. Supports should be positioned in such a way to ensure that the workpiece does not fall to the ground once the cut has been made. A number of supports at regular intervals may be required if the workpiece is extremely long.

### Saw blade safety warnings

1. Only use saw blades if you have knowledge of how to use and handle them.
2. Pay attention to the maximum rotational speed. The maximum rotational speed marked on the saw blade shall not be exceeded. Where stated, the speed range shall be adhered to.
3. Do not use working saw blades which are cracked. Scrap of saw blades which bodies are cracked. Repairing is not permitted.
4. Clamping surfaces shall be cleaned to remove dirt, grease, oil and water.
5. Do not use loose rings or sleeves to "make up" bore sizes on saw blades.
6. Pay attention that fixed rings for securing the saw blades have the same diameter and at least 1/3 of the cutting diameter.
7. Ensure fixed rings are parallel to each other.
8. Handle saw blades with care. Store them in the original packaging or in special boxes. Wear gloves for handling and to reduce injuries.
9. Ensure all guards are correctly fixed before using saw blades
10. Before use, make sure that the saw blade complies with technical requirements of the power tool and correctly fixed.

11. Use the supplied saw blade only for cutting of wood, never for metal.

### Vibration and noise reduction

**To reduce the impact of noise and vibration emission, limit the time of operation, use low-vibration and low-noise operating modes as well as wear personal protective equipment.**

Take the following points into account to minimize the vibration and noise exposure risks:

1. Only use the product as intended by its design and these instructions.
2. Ensure that the product is in good condition and well maintained.
3. Use correct cutting attachments for the product and ensure they are in good condition.
4. Keep tight grip on the handles/grip surface.
5. Maintain this product in accordance with these instructions and keep it well lubricated (where appropriate).
6. Plan your work schedule to spread any high vibration tool use across a longer period of time.

### Emergency

**Familiarise yourself with the use of this product by means of this instruction manual. Memorise the safety directions and follow them to the letter. This will help to prevent risks and hazards.**

1. **Always be alert when using this product, so that you can recognise and handle risks early.** Fast intervention can prevent serious injury and damage to property.
2. **Switch off and disconnect from the power supply if there are malfunctions.** Have the product checked by a qualified professional and repaired, if necessary, before you operate it again.

### Residual risks

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

1. Health defects resulting from vibration emission if the product is being used

over long periods of time or not adequately managed and properly maintained.

2. Injuries and damage to property due to broken cutting attachments or the sudden impact of hidden objects during use.
3. Danger of injury and property damage caused by flying objects.



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

**Before you start****Unpacking**

1. Unpack all parts and lay them on a flat, stable surface.
2. Remove all packing materials and shipping devices if applicable.
3. Make sure the delivery contents are complete and free of any damage. If you find that parts are missing or show damage do not use the product but contact your dealer. Using an incomplete or damaged product represents a hazard to people and property.
4. Ensure that you have all the accessories and tools needed for assembly and operation. This also includes suitable personal protective equipment.



**WARNING! The product and the packaging are not children's toys! Children must not play with plastic bags, sheets and small parts! There is a danger of choking and suffocation!**

**You will need**

(items not supplied)

Personal protective equipment

Brush

Soft cloth

Light machine oil

Screwdriver

Wrench (17 mm)

(items supplied)

Hex key (6 mm) (31)

**Assembly**

**WARNING! The product must be fully assembled before operation! Do not use a product that is only partly assembled or assembled with damaged parts!**

**Follow the assembly instructions step-by-step and use the pictures provided as a visual guide to easily assemble the product!**

**Do not connect the product to power supply before it is**



completely assembled!



**NOTE:** Take care of small parts that are removed during assembly or when making adjustments. Keep them secure to avoid loss.

### Base extension

The base extension (27) is located at the bottom of the base (9).

1. Fold out the base extension (27) and ensure it is properly fixed in its clamps (27a) (Fig. 1, 2).

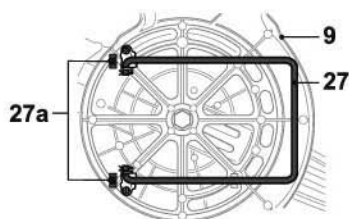


Fig. 1

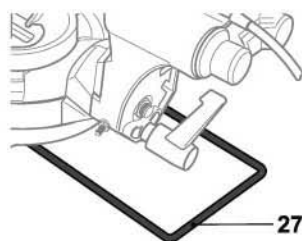


Fig. 2

### Operating position

1. Push the handle (1) downwards and release the locking bolt (23) from its locking position (Fig. 3, 4).

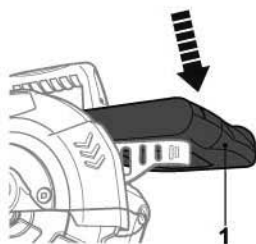


Fig. 3

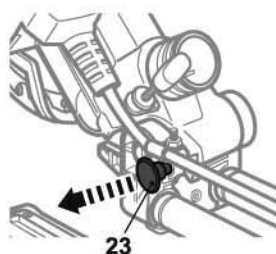


Fig. 4

2. Lift the handle (1) to its full height (Fig. 5).

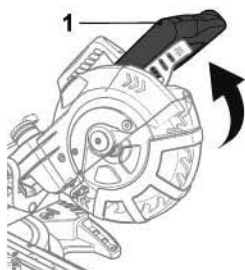


Fig. 5

### Support

1. Loosen the locking knobs (15a) on the base (9).
2. Insert the ends of the support (15) into the respective holes on both side of the base (9).
3. Secure them with the locking knobs (15a) (Fig. 6,7).

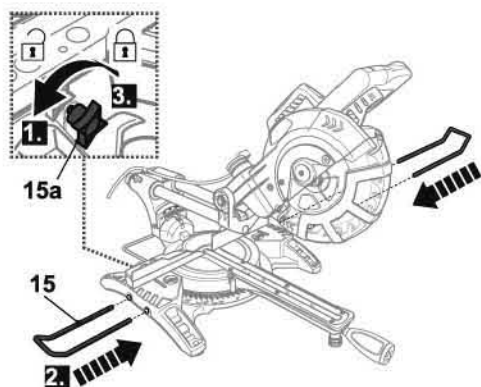


Fig. 6

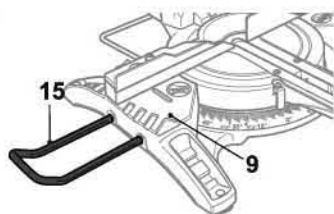


Fig. 7

### Screw clamp

The screw clamp (28) can be attached on either side of the base.



**NOTE:** Attach the screw clamp (28) on the right side only if the bevel angle and the mitre angle is adjusted so that the motor housing does not interfere with the clamp.

1. Loosen the pillar locking knob (28a) on the pillar holder (28b).
2. Insert the height adjustment pillar (28f) into the holder (28b) (Fig. 8).

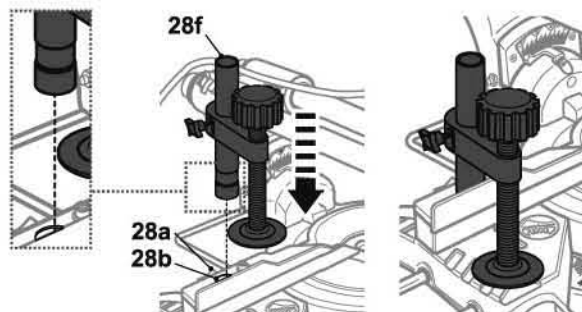


Fig. 8

3. Tighten the knob (28a) to secure the pillar (28f).

**Turntable locking handle**

1. Screw the turntable locking handle (11) onto the table insert (10) (Fig. 9,10).

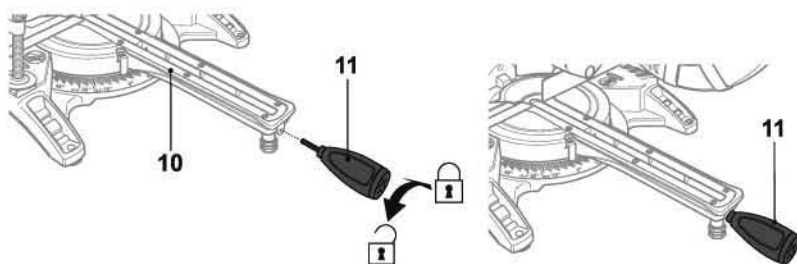


Fig. 9

Fig. 10

**Chip collection bag**

- Squeeze the metal collar wings (19a) of the chip collection bag (19) and attach it onto the chip ejector opening (21) (Fig. 11).

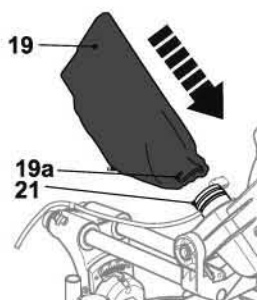


Fig. 11

## Bench mounting



**NOTE:** Before fixing the product on a bench or work table, remove the rubber feet from the mounting holes (8).

1. There are mounting holes (8) at each corner of the base (9) to facilitate bench mounting. Place the product on a level, horizontal bench or work table and fix the product on it using 4 bolts (not provided). (Fig. 12)
2. If desired, mount the product to a piece of 3mm or thicker plywood which can then be clamped to your work support or moved to other job sites and re-clamped. (Fig. 13)

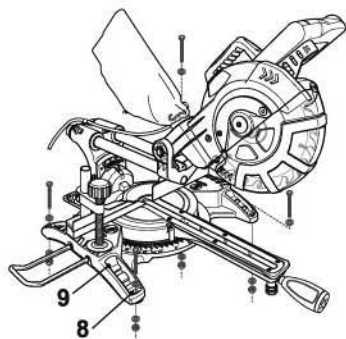


Fig. 12

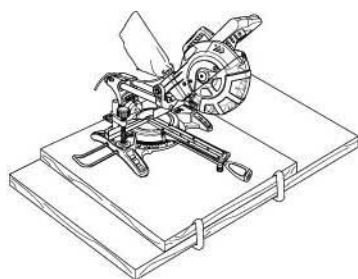


Fig. 13



**WARNING!** Make sure that the mounting surface is not warped as an uneven surface can cause binding and inaccurate sawing!

## Connect to power supply

1. Make sure the on/off switch (20) is in its off position (Fig. 14).

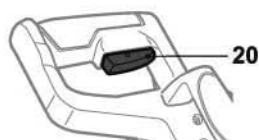


Fig. 14



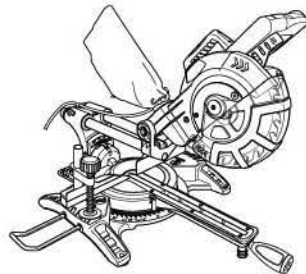
**WARNING! Check the voltage! The voltage must comply with the information on the rating label!**

2. Connect the plug with a suitable socket.
3. Your product is now ready to be used.



## In more detail...

Product functions.....	23
Operation.....	29
Care and maintenance.....	45
Troubleshooting.....	53
Recycling and disposal.....	54
EC declaration of conformity.....	55



In more detail...

## Product functions

### Intended use

This mitre saw TTB598MSW is designated with a rated input of 1500 Watts.

This product is intended as a stationary machine for making straight lengthways and crossways cuts in wood and materials that are similar to wood (e.g. plywood, MDF and chipboard). Horizontal mitre angles of  $-45^{\circ}$  to  $+45^{\circ}$  as well as vertical bevel angles of  $0^{\circ}$  to  $+45^{\circ}$  are possible.

This product should not be used on other materials or those harmful to health. It is to be used for dry operation only without water or other cooling liquids.

For safety reasons it is essential to read the entire instruction manual before first operation and to observe all the instructions therein.

This product is intended for private domestic use only, not for any commercial trade use. It must not be used for any purposes other than those described.

### On/off switch

1. Press the on/off switch (20) to switch the product on (Fig. 15).
2. Release the on/off switch (20) to switch the product off.

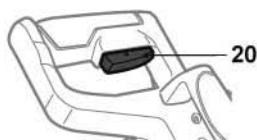


Fig. 15

### Mitre angle adjustment

1. Loosen the support bolt (10a) with a suitable wrench.
2. Loosen the turntable locking handle (11).
3. Rotate the turntable (14) until the pointer (12) aligns with the desired angle on the mitre scale (13) (Fig. 16).
4. Tighten the turntable locking handle (11).



5. Tighten the support bolt (10a).

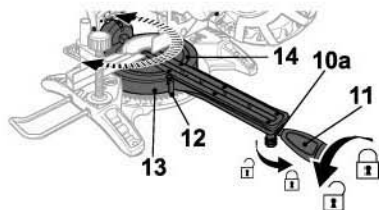


Fig. 16

## Bevel angle adjustment

1. Loosen the bevel locking lever (26) (Fig. 17)
2. Move the handle (1) to the left until the pointer (18) aligns with the desired angle on the bevel scale (17) (Fig. 18).
3. Tighten the bevel locking lever (26).



**NOTE:** For use in tight spaces the bevel locking lever (26) is spring loaded and can be repositioned by pulling the lever, rotate to desired position and engage by releasing.

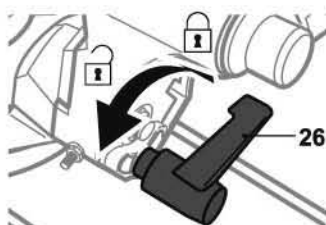


Fig. 17



Fig. 18

In more detail...

## Slide cutting adjustment

Use the slide cutting to saw workpieces that are larger than the maximum cutting length of the saw blade.

1. Loosen the slide locking knob (24) to allow the cutting head to slide freely (Fig. 19).

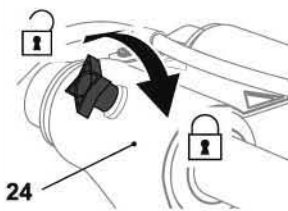


Fig. 19

## Screw clamp

The screw clamp (28) can be attached on either side of the base.



**NOTE:** Attach the screw clamp (28) on the right side only if the bevel angle and the mitre angle is adjusted so that the motor housing does not interfere with the clamp.

Use the screw clamp (28) to support the workpiece of different thickness with adjusting the height of the bracket (28e) and plate (28c).

1. Loosen the knob (28d) on the height adjustment pillar (28f) and adjust the bracket (28e) to the desired height. Tighten the knob (28d) to secure the bracket (28e) (Fig. 21).
2. Adjust the height of the plate (28c) with screwing the height adjustment knob (28g) clockwise or anticlockwise (Fig. 21).

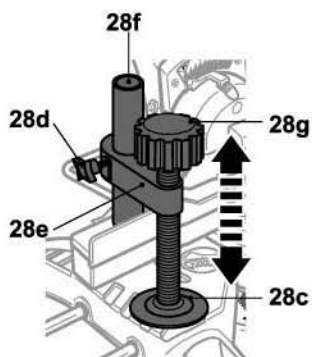


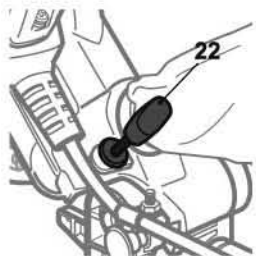
Fig. 20

3. Screw the screw clamp (28) tightly to secure the workpiece before operating.

## Depth gauge

Use the depth gauge to limit the cutting depth of the saw blade into the workpiece.

1. Turn the depth gauge knob (22) anticlockwise to increase the cutting depth.
2. Turn the depth gauge knob (22) clockwise to decrease the cutting depth (Fig. 22)
3. Check on a piece of waste material that the adjusted depth is satisfactory.

**Fig. 21**

In more detail...

**Operation****General operation**

---

1. Check the product, its power cord and plug as well as accessories for damage before each use. Do not use the product if it is damaged or shows wear.
2. Double check that the accessories are properly fixed.
3. Always hold the product on its handle. Keep the handle dry and clean to ensure safe support.
4. Ensure that the air vents are always unobstructed and clear. Clean them if necessary with a soft brush. Blocked air vents may lead to overheating and damage the product.
5. Switch the product off immediately if you are disturbed while working by other people entering the working area. Always let the product come to complete stop before putting it down.
6. Do not overwork yourself. Take regular breaks to ensure you can concentrate on the work and have full control over the product.

**Slide cutting**

---

Use slide cutting to saw workpieces that are larger than the maximum cutting length of the saw blade. Use slide cutting in mitre, bevel or compound angle adjustment.

1. Push the handle (1) downwards and release the locking bolt (23) from its locking position (Fig. 23, 24).

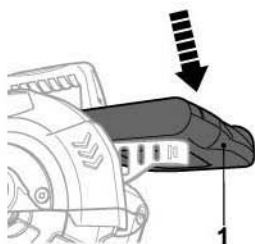


Fig. 22

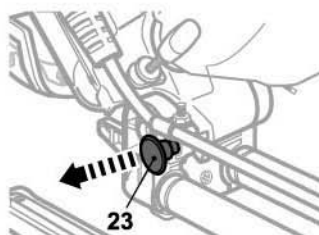


Fig. 23

2. Lift the handle (1) to its full height (Fig. 25).

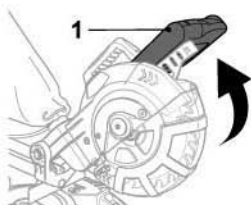


Fig. 24

- Adjust the depth gauge (22) if necessary (Fig. 27).



Fig. 25



**NOTE:** Place the convex edge of the work piece against the fence if it is warped. The workpiece could break and jam the saw blade if the concave edge is placed against the fence.

Before switching on the product, perform a dry run of the cutting operation to check that there are no problems.



Always make a test cut before cutting into the actual material.

- Place the workpiece flat on the turntable (14) with one edge against the fence (16).
- Adjust the plate (28c) and the bracket (28e) to the desired height (Fig. 28) and then secure the workpiece with it.

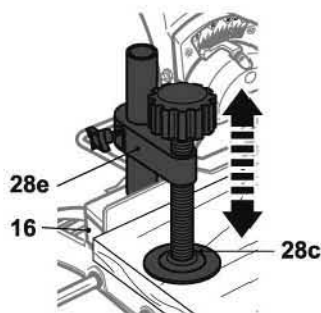
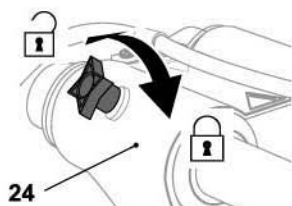
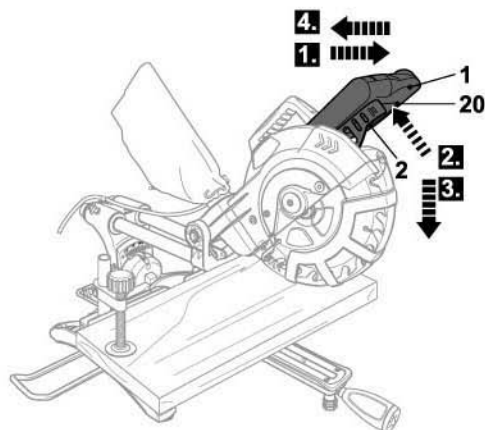


Fig. 26

- Loosen the slide locking knob (24) to allow the cutting head to slight freely (Fig. 29).

**Fig. 27**

7. Pull the handle forwards until the centre of the saw blade is directly over the front edge of the workpiece (Fig. 30, Step 1).
8. Hold the handle (1) firmly and press the on/off switch (20) (Fig. 30, Step 2). Allow the saw blade to reach maximum speed.
9. Press the blade guard release lever (2) and slowly lower the blade to the workpiece (Fig. 30, Step 3).
10. Push the handle rearwards to its full extent to cut through the width of the workpiece (Fig. 30, Step 4).

**Fig. 28**



11. Release the on/off switch (20) and allow the saw blade to stop rotating before lifting it from the workpiece.
12. Wait until the saw blade complete stops before removing the workpiece.

## Mitre crosscut

A crosscut is made by cutting across the grain of the workpiece. A 90° crosscut is made with the turntable set at 0°. Mitre crosscuts are made with the turntable set at some angle other than 0°.

1. Push the handle (1) downwards and release the locking bolt (23) from its locking position (Fig. 31, 32).

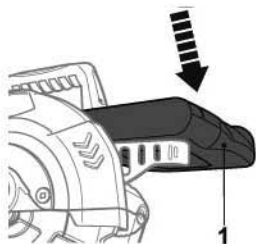


Fig. 29

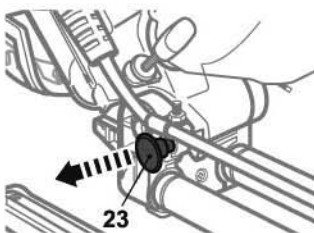
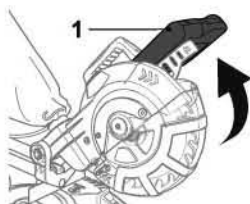


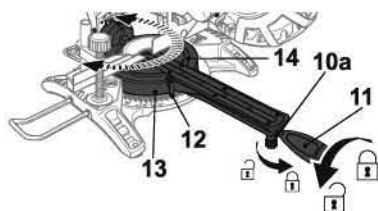
Fig. 30

**Fig. 31**

3. Loosen the support bolt (10a) with a suitable wrench. Loosen the turntable locking handle (11). Rotate the turntable (14) until the pointer (12) aligns with the desired angle on the mitre scale (13). Retighten the turntable locking handle (11). Tighten the support bolt (10a) (Fig. 34).



**WARNING!** Always tighten the turntable locking handle (11) before making a cut. Failure to do so could result in the turntable (14) moving during the cut and cause serious personal injury.

**Fig. 32**

- Adjust the depth gauge (22) if necessary (Fig. 36).

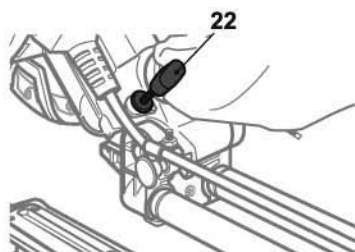


Fig. 33



**NOTE:** Place the convex edge of the work piece against the fence if it is warped. The workpiece could break and jam the saw blade if the concave edge is placed against the fence.

Before switching on the product, perform a dry run of the cutting operation to check that there are no problems.



Always make a test cut before cutting into the actual material.

- Place the workpiece flat on the turntable (14) with one edge against the fence (16).
- Adjust the plate (28c) and the bracket (28e) to the desired height (Fig. 37) and then secure the workpiece with it.

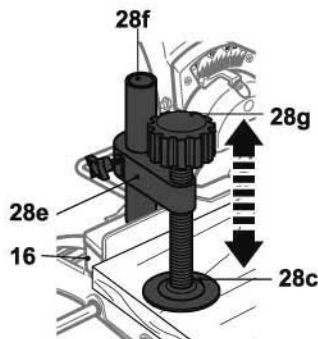
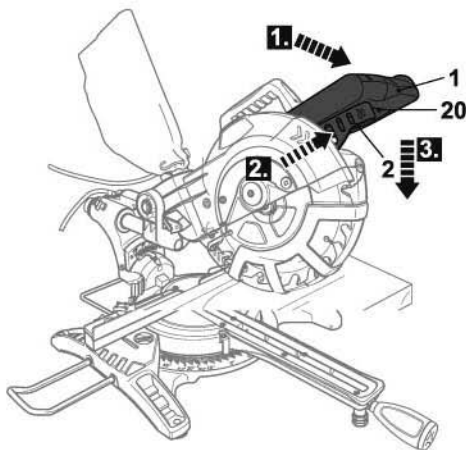


Fig. 34

In more detail...

7. Hold the handle (1) firmly and press the on/off switch (20) (Fig. 38, Step 1). Allow the saw blade to reach maximum speed.
13. Press the blade guard release lever (2) and slowly lower the blade to the workpiece (Fig. 38, Step 2).



**Fig. 35**

8. Release the on/off switch (20) and allow the saw blade to stop rotating before lifting it from the workpiece.
9. Wait until the saw blade complete stops before removing the workpiece.

## Bevel cut

A bevel cut is made by cutting across the grain of the workpiece with the saw blade angled to the fence and turntable. The turntable is set at the 0° position and the blade set at an angle between 0° and 45°.

1. Push the handle (1) downwards and release the locking bolt (23) from the locking position (Fig. 39, 40).

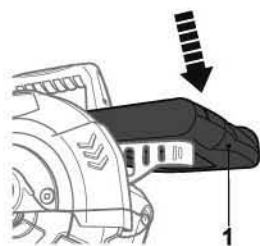


Fig. 36

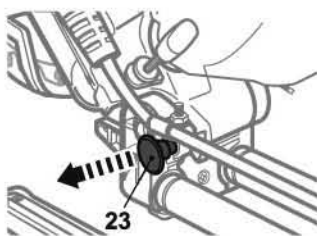


Fig. 37

2. Lift the handle (1) to its full height (Fig. 41).

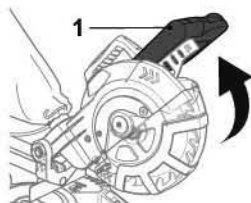


Fig. 38



**WARNING!** Always tighten the turntable locking handle (11) before making a cut. Failure to do so could result in the turntable (14) moving during the cut and cause serious personal injury.

3. Loosen the support bolt (10a) with a wrench 17 mm. Loosen the turntable locking handle (11). Rotate the turntable (14) until the pointer (12) aligns with 0° on the mitre scale (13). Retighten the turntable locking handle (11). Tighten the support bolt (10a) (Fig. 42).

In more detail...

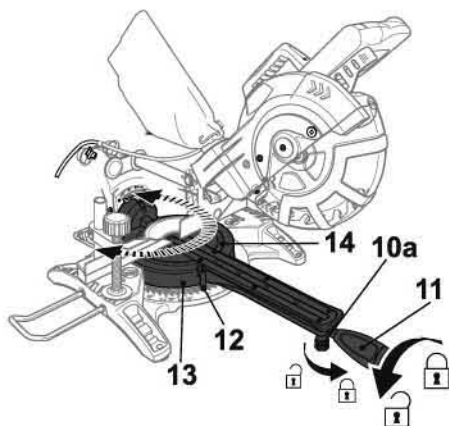


Fig. 39

- Loosen the bevel locking lever (26) (Fig. 43) and move the handle (1) to the left until the pointer (18) aligns with the desired angle on the bevel scale (17). Retighten the bevel locking lever (26) (Fig. 43, 44).



**NOTE:** The bevel locking lever (26) is spring loaded and can be repositioned by pulling the lever out, rotating to desired position and engaging by releasing for use in tight spaces.

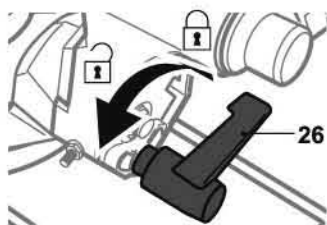


Fig. 40



Fig. 41

- Adjust the depth gauge (22) if necessary (Fig. 46).

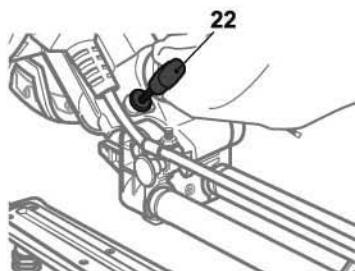


Fig. 42



**NOTE:** Place the convex edge of the work piece against the fence if it is warped. The workpiece could break and jam the saw blade if the concave edge is placed against the fence.

Before turning on the product, perform a dry run of the cutting operation to check that there are no problems.



Always make a test cut before cutting into the actual material.

- Place the workpiece flat on the turntable (14) with one edge against the fence (16).
- Adjust the plate (28c) and the bracket (28e) to the desired height (Fig. 47) and then secure the workpiece with it.

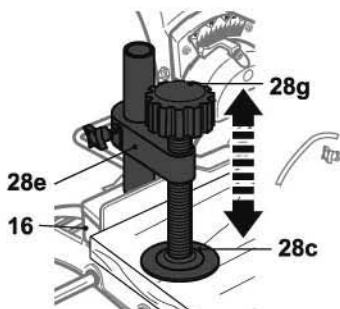
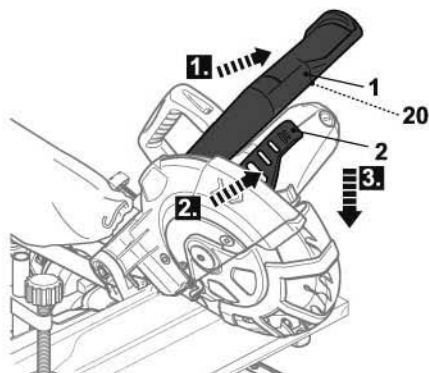


Fig. 43

- Hold the handle (1) firmly and press the on/off switch (20) (Fig. 48, Step 1). Allow the saw blade to reach maximum speed.
- Press the blade guard release lever (2) and slowly lower the blade into and through the workpiece (Fig. 48, Step 2).

In more detail...

**Fig. 44**

9. Release the on/off switch (20) and allow the saw blade to stop rotating before lifting it from the workpiece.
10. Wait until the saw blade complete stops before removing the workpiece.

## Compound cuts

---

A compound mitre cut involves using a mitre angle and a bevel angle at the same time. It is used e.g. in making picture frames, to cut mouldings, making boxes with sloping sides and for roof framing.

1. Push the handle (1) downwards and release the locking bolt (23) from the locking position (Fig. 49, 50).



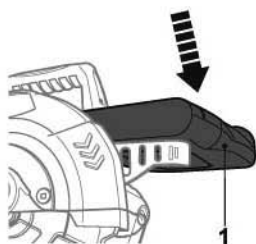


Fig. 45

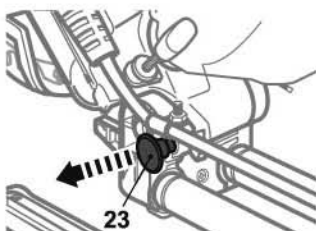


Fig. 46

2. Lift the handle (1) to its full height (Fig. 51).

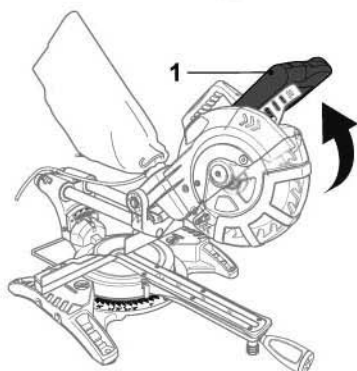


Fig. 47



**WARNING!** Always tighten the turntable locking handle (11) before making a cut. Failure to do so could result in the turntable (14) moving during the cut and cause serious personal injury.

3. Loosen the support bolt (10a) with a suitable wrench. Loosen the turntable locking handle (11). Rotate the turntable (14) until the pointer (12) aligns with the desired angle on the mitre scale (13). Retighten the turntable locking handle (11). Tighten the support bolt (10a) (Fig. 52).

In more detail...

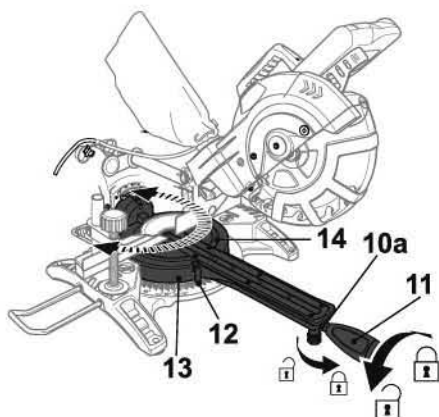


Fig. 48

- Loosen the bevel locking lever (26) and move the handle (1) to the left until the pointer (18) aligns with the desired angle on the bevel scale (17). Retighten the bevel locking lever (26) (Fig. 53, 54).



**NOTE:** The bevel locking lever (26) is spring loaded and can be repositioned by pulling the lever out, rotating to desired position and engaging by releasing for use in tight spaces.

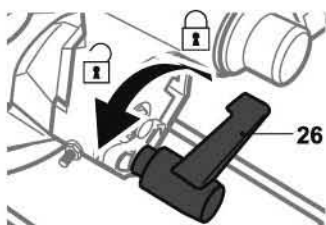


Fig. 49

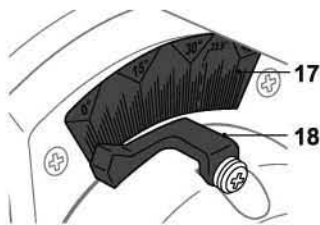


Fig. 50

- Adjust the depth gauge (22) if necessary (Fig. 56).

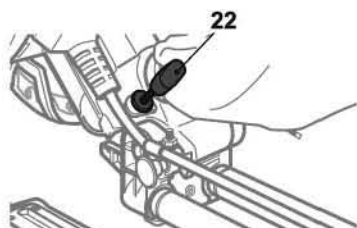


Fig. 51



**NOTE:** Place the convex edge of the work piece against the fence if it is warped. The workpiece could break and jam the saw blade if the concave edge is placed against the fence.

Before turning on the product, perform a dry run of the cutting operation to check that there are no problems.



Always make a test cut before cutting into the actual material.

- Place the workpiece flat on the turntable (14) with one edge against the fence (16).
- Adjust the plate (28c) and the bracket (28e) to the desired height (Fig. 57) and then secure the workpiece with it.

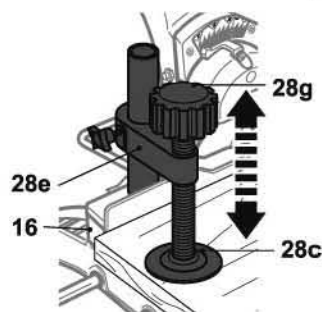
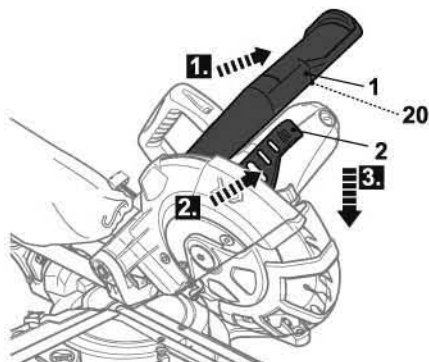


Fig. 52

- Hold the handle (1) firmly and press the on/off switch (20). Allow the saw blade to reach maximum speed (Fig. 58).
- Press the blade guard release lever (2) and slowly lower the blade into and through the workpiece (Fig. 58).

In more detail...

**Fig. 53**

10. Release the on/off switch (20) and allow the saw blade to stop rotating before lifting it from of the workpiece.
11. Wait until the saw blade complete stops before removing the workpiece.

### After use

---

1. Switch the product off, disconnect it from the power supply and let it cool down.
2. Check, clean and store the product as described below.

## Care and maintenance

### The golden rules for care



**WARNING!** Always switch the product off, disconnect the product from the power supply and let the product cool down before performing inspection, maintenance and cleaning work!



1. Keep the product clean. Remove debris from it after each use and before storage.
2. Regular and proper cleaning will help ensure safe use and prolong the life of the product.
3. Inspect the product before each use for worn and damaged parts. Do not operate it if you find broken and worn parts.



**WARNING!** Only perform repairs and maintenance work according to these instructions! All further works must be performed by a qualified specialist!

### General cleaning

1. Clean the product with a dry cloth. Use a brush for areas that are hard to reach.
2. In particular clean the air vents (29) after every use with a cloth and brush.
3. Remove stubborn dirt with high pressure air (max. 3 bar).



**NOTE:** Do not use chemical, alkaline, abrasive or other aggressive detergents or disinfectants to clean this product as they might be harmful to its surfaces.

4. Check for any damage and wear. Repair damages in accordance with this instruction manual or take it to an authorised service centre before using the product again.

### Maintenance

Before and after each use, check the product and accessories (such as application tools) for wear and damage. If required, exchange them for new ones as described in this instruction manual. Observe the technical requirements.

## Saw blade

### Notes

1. Check the saw blade before every use for damage and wear. Replace it with a new one if required.
2. Only use a saw blade that is suitable for the intended application.
3. Do not use any abrasive wheels.

### Replacing



**WARNING!** Always use the correct saw blade according to the intended use!



Observe the technical requirements of this product (see section *Technical specifications*) when purchasing and using saw blades!

Saw blades are very sharp and become hot during use! Handle them carefully! Wear safety gloves when handling saw blades in order to avoid injuries like burns and cuts!

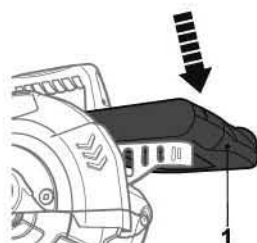
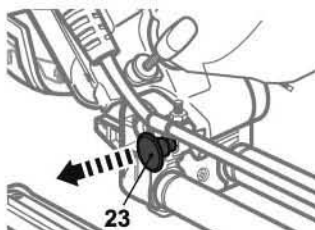


**WARNING!** Never press the spindle lock button (3) whilst the spindle is rotating!

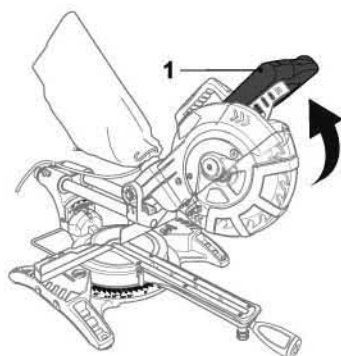


**WARNING!** Always allow the motor of the product to come to a complete stop before engaging the spindle lock. Always make sure that the spindle lock is disengaged before reconnecting the product to the power supply.

1. Push the handle (1) downwards and release the locking bolt (23) from the locking position (Fig. 59, 60).

**Fig. 54****Fig. 55**

2. Lift the handle (1) to its full height (Fig. 61).

**Fig. 56**

3. Remove the screw (5a) of the guard mounting plate (5). Rotate the guard mounting plate (5) and blade guard (7) up (Fig. 62).

In more detail...

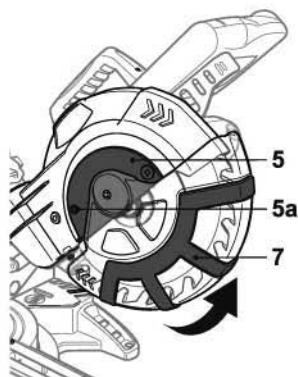


Fig. 57



**WARNING!** Always allow the motor of the product to come to a complete stop before engaging the spindle lock. Always make sure that the spindle lock is disengaged before reconnecting the product to the power supply.

4. Press the spindle lock button (3) and rotate the blade bolt (6a) until the spindle locks.
5. Loosen the blade bolt (6a) with the 6mm hex key (31) (Fig. 63).

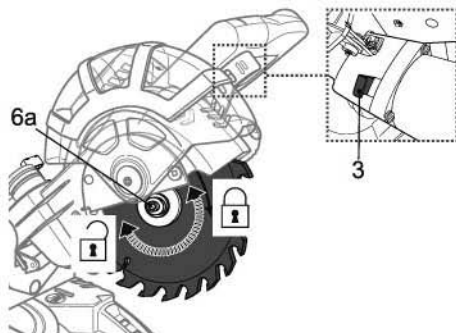


Fig. 58

6. Remove the blade bolt (6a), locking flange (6b), outer washer (6d), saw blade (6) and inner washer (6c) (Fig. 64).



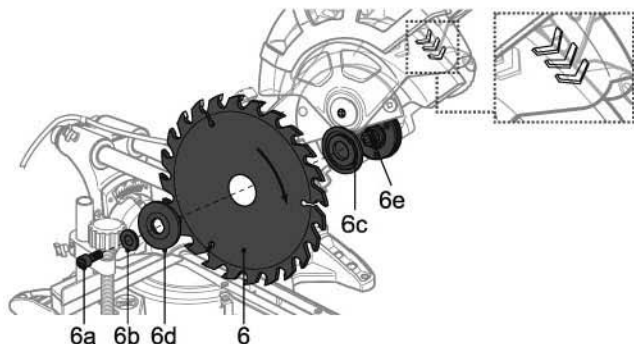


Fig. 59

7. Wipe a drop of oil onto the washers (6c, 6d) and the spindle (6e) if necessary.
8. Replace the saw blade (6) with a new one of the same type. Always replace the saw blade immediately with a new one if it is cracked or damaged.



**NOTE:** Install the saw blade with the blade teeth and the arrow printed on the side of the blade pointing down at the front of the saw. The direction of the blade rotation is also stamped with an arrow on the lower retractable blade guard and the upper fixed blade guard.

9. Lubricate the saw blade (6) after each use to prolong the life of the blade and product. Apply light machine oil along the edge of the blade.
10. Reassemble the inner washer (6c), saw blade (6), outer washer (6d), locking flange (6b) and blade bolt (6a) onto the spindle, in reverse order as described above.
11. Turn the blade by hand to test if it is rotating smoothly. The blade should not flutter.
12. Fix the blade guard (7) and mounting plate (5) in reverse order as described above.
13. Switch the product on and let it run idle for about one minute, to confirm that the saw blade (6) has been installed properly. If you find any abnormal vibration or excessive noise switch the product off and re-fit the saw blade according to the above instructions.

## Power cord

If the power cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a safety hazard.

## UK plug (for UK market only)

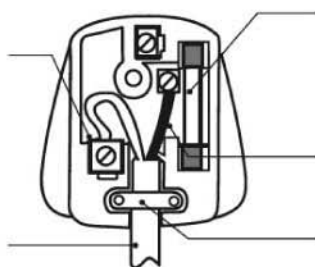
If you need to replace the fitted plug, then follow the instructions below. **IMPORTANT:** The wires in the mains lead are coloured in accordance with the following code:

Blue – Neutral Brown – Live

As the colours of the wire in the mains lead of this product may not correspond with the coloured marking identifying the terminals in your plug, proceed as follows. The wire, which is coloured blue, must be connected to the terminal, which is marked with N or coloured black. The wire, which is coloured brown, must be connected to the terminal, which is marked L or coloured red.

Connect Blue to N  
(Neutral)

Outer sleeve firmly  
clamped



13AMP fuse approved to  
BS 1362

Brown L(Live)

Cable grip



**WARNING!** Never connect live or neutral wires to the earth terminal of the plug!

Only fit an approved 13 Amp BS 1363 or BS 1363/A plug and the correctly rated fuse. If in doubt, consult a qualified electrician.



**NOTE:** If a moulded plug is fitted and has to be removed take great care in disposing of the plug and severed cable, it must be destroyed to prevent engaging into a socket.

## Repair

---

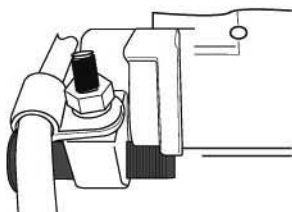
This product does not contain any parts that can be repaired by the consumer. Contact an authorised service centre or a qualified person to have it checked and repaired.


## Storage

---

1. Clean the product as described above.
2. Loosen the turntable locking bolt (23). Rotate the turntable (14) until the mitre scale pointer (12) aligns with 45°. Retighten the turntable locking bolt (23).
3. Loosen the bevel locking lever (26). Move the handle (1) to the right until the bevel scale pointer (18) aligns with 0°. Retighten the bevel locking lever (26).
4. Loosen the depth gauge knob (22).
5. Press the blade guard release lever (2) and push the handle (1) fully downwards.
6. Release the locking bolt (23) from the operating position and adjust it to the locking position (Fig. 65, 66).

In more detail...



**Fig. 60**  
Locking position 



**Fig. 61**  
Operating position 

7. Store the product and its accessories in a dry, frost-free place.
8. Always store the product in a place that is inaccessible to children. The ideal storage temperature is between 10 and 30°C.
9. We recommend using the original package for storage or covering the product with a suitable cloth or enclosure to protect it against dust.

## Transportation

1. Switch the product off and disconnect it from the power supply before transporting it anywhere.
2. Transport the product in the storage position as described above.
3. Attach the transportation guards, if applicable.
4. Always transport the product by its transport handle (30).
5. Protect the product from any heavy impact or strong vibrations which may occur during transportation in vehicles.
6. Secure the product to prevent it from slipping or falling over.

## Troubleshooting

### Troubleshooting

Suspected malfunctions are often due to causes that the user can fix themselves. Therefore, check the product using this section. In most cases the problem can be solved quickly.



**WARNING!** Only perform the steps described within these instructions! All further inspection, maintenance and repair work must be performed by an authorised service centre or a similarly qualified specialist if you cannot solve the problem yourself!

Problem	Possible cause	Solution
Product does not start	<ol style="list-style-type: none"> <li>1. Not connected to power supply</li> <li>2. Power cord or plug is defective</li> <li>3. Other electrical defect to the product</li> </ol>	<ol style="list-style-type: none"> <li>1. Connect to power supply</li> <li>2. Check by a specialist electrician</li> <li>3. Check by a specialist electrician</li> </ol>
Product does not cut	<ol style="list-style-type: none"> <li>1. Not connected to power supply</li> <li>2. Saw blade is worn or damaged</li> <li>3. Bevel and mitre angle incorrectly adjusted</li> </ol>	<ol style="list-style-type: none"> <li>1. Connect to power supply</li> <li>2. Replace saw blade</li> <li>3. Check and adjust to the manual</li> </ol>
Unsatisfactory result	<ol style="list-style-type: none"> <li>1. Saw blade is dull/damaged</li> <li>2. Cutting angle is incorrect</li> <li>3. Saw blade not suitable for work piece material</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace with new one</li> <li>2. Adjust the bevel or mitre cutting angle</li> <li>3. Use proper saw blade</li> </ol>
Excessive vibration/noise or exhaust	<ol style="list-style-type: none"> <li>1. Saw blade is dull/damaged</li> <li>2. Bolts/nuts are loose</li> </ol>	<ol style="list-style-type: none"> <li>1. Replace with a new one</li> <li>2. Tighten bolts/nuts</li> </ol>

In more detail...

## Recycling and disposal

### Recycling and disposal

---

1. The product comes in a package that protects it against damage during shipping. Keep the package until you are sure that all parts have been delivered and the product is working properly. Recycle the package afterwards.
2. WEEE symbol. Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or local store for recycling advice.



# TITAN®

## Declaration of Conformity

We, Importer  
**Titan Power Tools (UK) Ltd**  
Trade House, Mead Avenue, BA22 8RT

Declare that the product:

**Designation: 1500W 210mm Sliding Mitre Saw**  
**Model: TTB598MSW**

Complies with the following Directives:

**2004/108/EC** Electromagnetic Compatibility Directive

**2006/42/EC** Machinery Directive

**2006/95/EC** Low Voltage Directive

**2011/65/EU** Restrictions of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment

**2002/96/EC and 2003/108/EC** Waste Electrical and Electronic Equipment (WEEE)

Standards and technical specifications referred to:

**EN 61029-1:2009+A11:2010**

**EN 61029-2-9:2009**

**EN 55014-1:2006+A1:2009+A2:2011**

**EN 55014-2:1997+A1:2011+A2:2008**

**EN 61000-3-2:2006+A1**

**EN 61000-3-3:2008**

**EN 61000-3-11:2000**

Authorised Signatory and technical file holder

Date : 20/12/2013

Signature: PCHarries

Name / title: Peter Harries / Quality Manager

Titan Power Tools (UK) Ltd. Trade House, Mead Avenue, BA22 8RT



**1500W 210mm Sliding Mitre Saw**

**TTB598MSW**



Titan Power Tools (UK) Ltd  
Trade House, Mead Avenue,  
BA22 8RT

---