

TITAN®



SAFETY AND OPERATING MANUAL

Original instructions

1/2 SHEET SANDER 300W TTB594SDR

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 guarantee of 2 years. 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.

For any enquiries relating to the guarantee please refer to your retailer.

GENERAL SAFETY INSTRUCTIONS



WARNING! Read all safety warnings designated by the symbol  and all instructions.



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.

Save all warnings and instructions for future reference.

The term "power tool" in the warnings refers to your mains-operated (corded) power tool or battery-operated (cordless) power tool.

1. Work area safety

- a. Keep work area clean and well lit.** Cluttered or dark areas invite accidents.
- b. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gases or dust.** Power tools create sparks which may ignite the dust or fumes.
- c. Keep children and bystanders away while operating a power tool.** Distractions can cause you to lose control.

2. Electrical safety

- a. Power tool plugs must match the outlet. Never modify the plug in any way.**
Do not use any adapter plugs with earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- b. Avoid body contact with earthed or grounded surfaces, such as pipes, radiators, ranges and refrigerators.** There is an increased risk of electric shock if your body is earthed or grounded.
- c. Do not expose power tools to rain or wet conditions.** Water entering a power tool will increase the risk of electric shock.
- d. Do not abuse the cord. Never use the cord for carrying, pulling or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts.** Damaged or entangled cords increase the risk of electric shock.
- e. When operating a power tool outdoors, use an extension cord suitable for outdoor use.** Use of a cord suitable for outdoor use reduces the risk of electric shock.
- f. If operating a power tool in a damp location is unavoidable, use a residual current device (RCD) protected supply.** Use of an RCD reduces the risk of electric shock.

3. Personal safety

- a. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol or medication.** A moment of inattention while operating power tools may result in serious personal injury.
- b. Use personal protective equipment. Always wear eye protection.** Protective equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c. Prevent unintentional starting. Ensure the switch is in the off-position before connecting to power source and/or battery pack, picking up or carrying the tool.** Carrying power tools with your finger on the switch or energising

1/2 SHEET SANDER 300W TTB594SDR

power tools that have the switch on invites accidents.

d. Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.

e. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.

f. Dress properly. Do not wear loose clothing or jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.

g. If devices are provided for the connection of dust extraction and collection facilities, ensure these are connected and properly used. Use of dust collection can reduce dust-related hazards.

4. Power tool use and care

a. Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.

b. Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.

c. Disconnect the plug from the power source and/or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.

d. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.

e. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tool's operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.

f. Keep cutting tools sharp and clean. Properly maintained cutting tools with sharp cutting edges are less likely to bind and are easier to control.

g. Use the power tool, accessories and tool bits etc. in accordance with these instructions, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

5. Service

a. 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.

ADDITIONAL SAFETY INSTRUCTIONS FOR YOUR SANDER

- 1.** Never use this sander for wet sanding or liquid polishing. Failure to follow this rule may result in risk of electrical shock.
- 2.** Always wear eye protectors when using this sander.
- 3.** Always wear a dust mask when using this sander.
- 4.** Always inspect and remove all nails and screws etc from timber before sanding.
- 5.** Always check walls and ceiling to avoid hidden power cables and pipes. A metal detector can be obtained from any good DIY store for this purpose.
- 6.** If possible, ensure the workpiece is firmly clamped to prevent movement.
- 7.** Your sander is a hand held tool, do not clamp your finishing sander.
- 8.** Never stop the sander by applying a force to the base plate.
- 9.** Only use sanding paper in good condition. Do not use torn or worn sanding paper.
- 10.** Do not sand magnesium material due to the risk of fire.
- 11.** Do not sand material including asbestos due to a health rise.
- 12.** Do not sand lead based paint due to the rise of lead poisoning.
- 13.** Do not eat or drink in the working area of the sander.
- 14.** Do not allow people to enter the working area without wearing a dust mask.
- 15.** Where possible, seal off the working area to contain the dust for later removal.

ADDITIONAL SAFETY WARNING FOR CONSTRUCTION DUST

The updated Control of Substances Hazardous to Health Regulations 1st October 2012 now also targets to reduce the risks associated with silica, wood and gypsum dusts.

Construction workers are one of the at-risk groups within this because of the dust that they breathe: silica dust is not just a nuisance; it is a real risk to your lungs!

Silica is a natural mineral present in large amounts in things like sand, sandstone and granite. It is also commonly found in many construction materials such as concrete and mortar. The silica is broken into very fine dust (also known as Respirable Crystalline Silica or RCS) during many common tasks such as cutting, drilling and grinding

Breathing in very fine particles of crystalline silica can lead to the development of:

Lung cancer

Silicosis

Chronic Obstructive Pulmonary Disorder (Chronic obstructive pulmonary disease (COPD))

And breathing in fine particles of wood dust can lead to the development of Asthma

The risk of lung disease is linked to people who regularly breathe construction dust over a period of time, not on the odd occasion.

To protect the lung, the COSHH Regulations sets a limit on the amount of these dusts that you can breathe (called a Workplace Exposure Limit or WEL) when averaged over a normal working day. These limits are not a large amount of dust: when compared to a penny it is tiny – like a small pinch of salt:

This limit is the legal maximum; the most you can breathe after the right controls have been used.

1/2 SHEET SANDER 300W TTB594SDR

How to reduce the amount of dust?

- 1 Reduce the amount of cutting by using the best sizes of building products.
- 2 Use a less powerful tool e.g. a block cutter instead of angle grinder.
- 3 Using a different method of work altogether – e.g. using a nail gun to direct fasten cable trays instead of drilling holes first.

Please always work with approved safety equipment, such as those dust masks that specially designed to filter out microscopic particles and use the dust extraction facility at all time.

For more information please see the HSE website:

<http://www.hse.gov.uk/construction> or <http://www.hse.gov.uk/pubns/cis69.pdf>



WARNING! Some dust particles created by power sanding, sawing, grinding, drilling and other construction jobs contain chemicals known to cause cancer, birth defects or other reproductive harm. Some examples of these chemicals are:

Lead from lead-based paints.

Crystalline silica from bricks and cement and other masonry products.

Arsenic and chromium from chemically treated timber.

Your risk from these exposures varies, depending upon how often you do this type of work. To reduce your exposure to these chemicals:

Work in a well ventilated area.

Work with approved safety equipment, such as those dust masks that specially designed to filter out microscopic particles and use the dust extraction facility at all time.

- Wear ear protectors when sanding. Exposure to noise can cause hearing loss.

VIBRATION

The European Physical Agents (Vibration) Directive has been brought in to help reduce hand arm vibration syndrome injuries to power tool users. The directive requires power tool manufacturers and suppliers to provide indicative vibration test results to enable users to make informed decisions as to the period of time a power tool can be used safely on a daily basis and the choice of tool.

Further Advice can be found at www.hse.gov.uk

Vibration total values (triax vector sum) determined according to EN 60745:	
Sanding	Vibration emission value $a_h = 13.462\text{m/s}^2$ (main handle)
	Vibration emission value $a_h = 10.958\text{m/s}^2$ (auxiliary handle)
	Uncertainty $K = 1.5\text{m/s}^2$

The declared vibration emission value should be used as a minimum level and should be used with the current guidance on vibration.

Calculating the actual period of the actual period off use can be difficult and the HSE website has further information.

The declared vibration emission been measured in accordance with a standardised test stated above and may be used to compare one tool with another.

The declared vibration emission value may also be used in a preliminary assessment of exposure.



Warning: The vibration emission value during actual use of the power tool can differ from the declared value depending on the ways in which the tool is used dependant on the following examples and other variations on how the tool is used:

How the tool is used and the materials being sanded.

The tool being in good condition and well maintained.

The use the correct accessory for the tool and ensuring it is sharp and in good condition.

The tightness of the grip on the handles.

And the tool is being used as intended by its design and these instructions.

While working with this power tool, hand/arm vibrations occur. Adopt the correct working practices in order to reduce the exposure to vibration.

This tool may cause hand-arm vibration syndrome if its use is not adequately managed.



Warning: identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time). Note The use of other tools will reduce the users' total working period on this tool.

1/2 SHEET SANDER 300W TTB594SDR

Helping to minimise your vibration exposure risk.

Maintain this tool in accordance with these instructions and keep well lubricated (where appropriate).

Avoid using tools in temperatures of 10°C or less.

Plan your work schedule to spread any high vibration tool use across a number of days.

Note:

The use of other tools will reduce the users total working period on this tool.

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. ALWAYS use sharp chisels, drills and blades.
4. Use correct application tools for the product and ensure they in good condition.
5. Keep tight grip on the handles/grip surface.
6. Maintain this product in accordance with these instructions and keep it well lubricated (where appropriate).
7. Plan your work schedule to spread any high vibration tool use across a number of days.

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 the machine from the power supply if there is any malfunction. Have the product checked by a qualified specialist and repaired, if necessary, before you put it into operation 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:

Health defects resulting from vibration emission if the product is being used over long periods of time or not adequately managed and properly maintained.

Injuries and damage to property due to broken application tools or the sudden impact of hidden objects during use.

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!

Health Surveillance

All employees should be part of an employer's health surveillance scheme to help identify any vibration related diseases at an early stage, prevent disease progression and help employees stay in work.

Double insulation:

The tool is double insulated. This means that all the external metal parts are electrically insulated from the mains power supply. This is done by placing insulation barriers between the electrical and mechanical components making it unnecessary for the tool to be earthed.

Important note:

Be sure the supply is the same as the voltage given on the rating plate. The tool is fitted with a two-core cable and plug.

Remove the mains plug from socket before carrying out any adjustment or servicing.

1/2 SHEET SANDER 300W TTB594SDR

SYMBOLS



To reduce the risk of injury, user must read instruction manual



Warning



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



Wear gloves



Wear ear protection



Wear eye protection



Wear dust mask



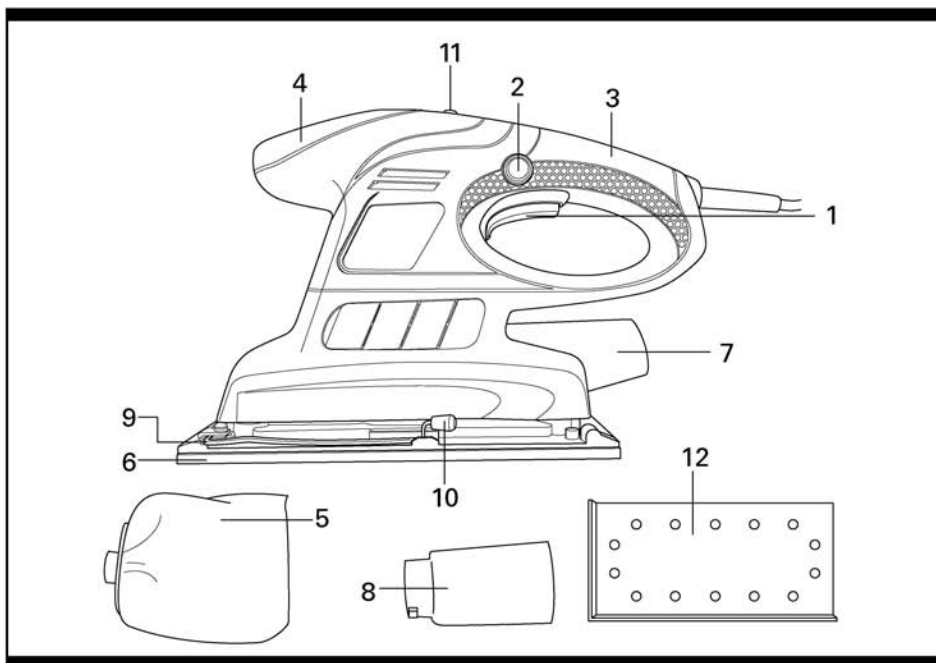
Double insulation



Conformity to CE directive

yyWxx Manufacturing date code:

Year of manufacturing (20yy) and week of manufacturing (Wxx);



1 TRIGGER SWITCH

2 LOCK-ON BUTTON

3 MAIN GRIP

4 FRONT GRIP

5 DUST BAG

6 SANDING BASE

7 DUST EXTRACTION PORT

8 DUST EXTRACTION ADAPTOR

9 CLAMP(x 2)

10 CLAMPING LEVER(x 2)

11 VARIABLE SPEED DIAL

12 HOLE PUNCH

1/2 SHEET SANDER 300W TTB594SDR

TECHNICAL DATA

Voltage:	230-240V~ 50Hz
Input power:	300W
No load speed:	6000-11000/min
Base size:	115 x 228mm
Hook & Loop Paper Size:	115 x 230mm
Clamp Paper Size:	115 x 280mm
Sanding paper fixing:	hook&loop, or clamp
Protection class:	II
Machine weight:	2.3kg

NOISE DATA

A weighted sound pressure	77dB(A) / K_{pA}: 3dB(A)
A weighted sound power	88dB(A) / K_{WA}: 3dB(A)
Wear ear protection when sound pressure is over	80dB(A)

ACCESSORIES

Dust bag	1pc
Sanding sheets	3pcs
Dust extraction adaptor (for 35mm tube of vacuum cleaner)	1pc
Hole punch	1pc

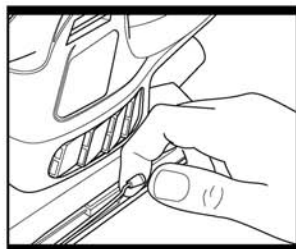


Fig. 1

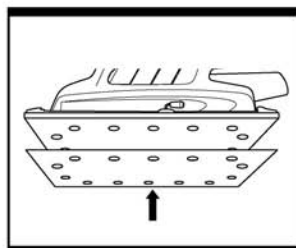


Fig. 2

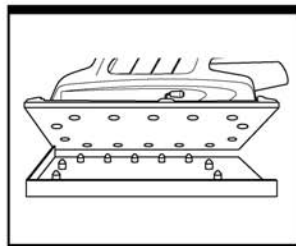


Fig. 3

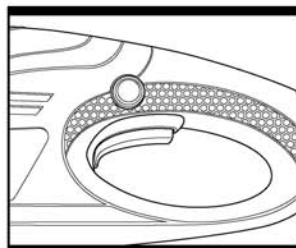


Fig. 4

OPERATIONS INSTRUCTIONS



Note: Before using the tool, read the instruction book carefully.

INTENDED USE

This sander shall be used for sanding metal, wood, plastic or similar materials. Other uses for the tool will lead to the damage of the tool and a series of dangers to the operator. This tool is intended for DIY home use, or occasional professional use.

1. CHANGING SANDING SHEET (Fig. 1&2)

Use a 1/2 standard sheet of sandpaper.

To remove used sanding sheet, pull the levers on each side of the sander then unwrap the used paper from the retaining clips and remove it. You can now install a new one (Use a 1/2 inch standard sheet of sanding paper). Put one end under the spring clip and reset clip. Press the sanding sheet around the base plate shape as tight as possible. Wrap the sanding sheet around the bottom of the base plate and insert another end into spring clip and reset clip. Check to make sure that the sanding sheet is square to the base plate and remove or refit again if not correct.

ALWAYS make sure the sanding sheet is even with the edges and that the dust collection holes in the base and sandpaper is aligned and that the sandpaper is tight on the base.

To attach a hook&loop type sanding sheet, simply align the holes in the sanding sheet with the holes in the base plate and press firmly into place. To remove the sanding sheet, peel it away from the base.



Warning: Always switch off and unplug from the mains before making any adjusting.

2. PUNCH THE HOLE (Fig. 3)

If using sanding paper without dust holes, use the hole punch to perforate the holes to ensure correct dust extraction. After fitting the sanding sheet, put the hole punch on the sanding sheet align the sanding base edges.

Then press the hole punch toward the sander which will punch the hole in the sandpaper.

3. SWITCHING ON AND OFF (Fig. 4)

Start the tool by squeezing the trigger switch. Release the trigger switch to stop the tool. If you press the lock on button, the tool will work continuously. If working for long periods of time the lock on button can be used to keep the sander switched on. To release the lock on button, press and release the trigger switch. Always lift the sander from the work before switching on or the finish of the workpiece may be damaged.

1/2 SHEET SANDER 300W TTB594SDR

4. VARIABLE SPEED CONTROL SWITCH

(Fig. 5)

Adjust the dial to increase or decrease the speed according to the working materials. The speed increases as the numbers on the dial increase. Avoid prolonged use at very low speed as this may damage your sander's motor.

5. ATTACHING SANDER TO VACUUM CLEANER

(Fig. 6)

Your sander is equipped with a dust extraction adaptor for 35mm tube of vacuum cleaner.

Insert the adaptor into the grooves of the rear dust outlet of the sander then turn it clockwise to lock it.

When it's done you can connect the hose of a vacuum cleaner to the adaptor.

First please turn on the vacuum cleaner, then turn on the sander. If you stop sanding, first turn off the sander, then turn off your vacuum cleaner.

We recommend the use of dust collection facility at all times especially when sanding medium density fibre board (M.D.F.).

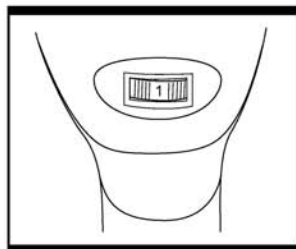


Fig. 5

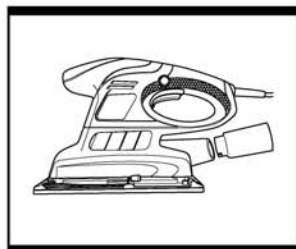


Fig. 6

6. DUST BAG (Fig. 7)

To attach the dust bag (5), align the tabs on the dust bag with the slots on the dust extraction port (7), slide fully in and rotate clockwise to keep it in position. (Fig. 5) For efficient operation, empty the dust bag (5) when it is no more than half full. This allows better airflow through the bag.



WARNING: Do not use the dust bag (5) when sanding metal. The hot metal particles could cause residual wood dust or the bag itself to catch fire.

7. SANDING

For a finer finish, start with a low number grade of sanding sheet and then use higher number (finer) sheet until the surface finish is acceptable.

Always keep moving the sander in slow directions for the best results. Do not hold the sander in a stationary position, or it could remove excessive material from this position.

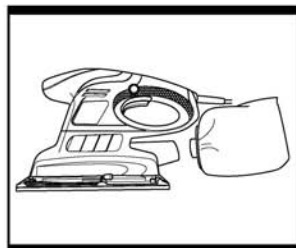


Fig. 7

WORKING HINTS FOR YOUR SANDER

If your power tool becomes too hot, especially when used at low speed, set the speed to maximum and run it with no load for 2-3 minutes to cool the motor. Avoid prolonged usage at very low speeds. Always use sand paper that is suitable for the material you want to sand. Always ensure the work-piece is firmly held or clamped to prevent movement.

Any movement of the material may affect the quality of the sanding finish.

Start your sander before sanding and turn it off only after stop sanding. For the best results, sanding wood in the direction of the grain.

Do not start sanding without having the sandpaper fitted.

Do not allow the sandpaper to wear away it will damage the base-plate. The guarantee does not cover base-plate wear and tear.

Use coarse grit paper to sand rough surfaces, medium grit for smooth surfaces and fine grit for the final surfaces. If necessary, first make a test run on scrap material.

Use only good quality sandpaper. The sandpaper controls the sanding efficiency, not the amount of force you apply to the tool. Excessive force will reduce the sanding efficiency and cause motor overload. Replacing the sandpaper regularly will maintain optimum sanding efficiency.

1/2 SHEET SANDER 300W TTB594SDR

MAINTENANCE

Remove the plug from the socket before carrying out any adjustment, servicing or maintenance.

Your power tool requires no additional lubrication or maintenance. There are no user serviceable parts in your power tool. Never use water or chemical cleaners to clean your power tool. Wipe clean with a dry cloth. Always store your power tool in a dry place. Keep the motor ventilation slots clean. Keep all working controls free of dust. Occasionally you may see sparks through the ventilation slots. This is normal.

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

TROUBLESHOOTING

1. If your sander will not operate, check the power at the mains plug.
2. If the sander does not abrade surface, checking the sanding paper. If the sanding paper have been worn, replace a new paper and try again. The paper must be kept in a dry place, if it is allowed to become damp, the abrasive particles will lose their adhesion to the backing paper and will not abrade.
3. If the sander dose not move smoothly, The sanding paper may be loose, damaged or wrinkled. Replace and try again.
4. If a fault can not be rectified return the sander to an authorised dealer for repair.

ENVIRONMENTAL PROTECTION



Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. Check with your Local Authority or retailer for recycling advice. For further information visit www.recyclenmore.co.uk

PLUG REPLACEMENT (UK & IRELAND 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 wires in the mains lead of this appliance may not correspond with the coloured markings 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. The wire which is coloured brown must be connected to the terminal which is marked with L.

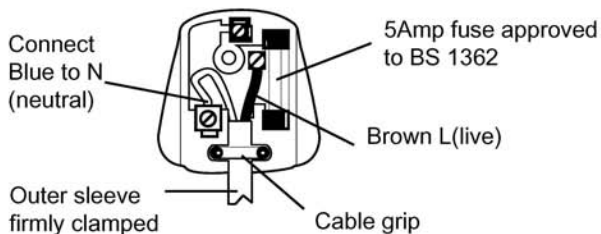


Warning:

Never connect live or neutral wires to the earth terminal of the plug. **Only fit an approved 5AMP**

BS1363/A plug and the correct rated fuse.

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.



1/2 SHEET SANDER 300W TTB594SDR

TITAN®

Declaration of Conformity

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

Declare that the product:
Designation: 1/2 SHEET SANDER 300W
Model: TTB594SDR

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
2012/19/EU Waste Electrical and Electronic Equipment (WEEE)

Standards and technical specifications referred to:

EN 60745-1: 2009 + A11:2010
EN 60745-2-4: 2009 + A11:2011
EN 55014-1: 2006+A1: 2009 + A2:2011
EN 55014-2:1997+A1: 2001+A2: 2008
EN 61000-3-2: 2006 + A1:2009 + A2:2009
EN 61000-3-3: 2008

Authorised signatory and technical file holder

Date: 02/17/2014

Signature: P.C. Harries

Name / title: Peter Harries / Quality Manager

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

