

# TITAN®



## SAFETY AND OPERATING MANUAL

Original instructions (V1)

**RECIPROCATING SAW 750W**

**TTB533RSP**

# 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 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 RECIPROCATING SAW**

1. Hold power tool by insulated gripping surfaces, when performing an operation where the cutting accessory may contact hidden wiring or its own cord. Cutting accessory contacting a "live" wire may make exposed metal parts of the power tool "live" and could give the operator an electric shock.
2. Use only undamaged saw blades that are in perfect condition. Bent or dull saw blades can break, negatively influence the cut, or lead to kickback.
3. Do not brake the saw blade to a stop by applying side pressure after switching off. The saw blade can be damaged, break or cause kickback.
4. Always wear a dust mask.
5. Use clamps or another practical way to secure and support the workpiece to a stable platform. Holding the work by hand or against your body leaves it unstable and may lead to loss of control.
6. Always wear safety glasses or eye shields when using the reciprocating saw. Everyday eyeglasses have only impact-resistant lenses; they are NOT safety glasses. Following this rule will reduce the risk of serious personal injury.
7. Always wear hearing protection during extended periods of operation. Following this rule will reduce the risk of serious personal injury.
8. Keep your hands away from cutting area. Do not reach under the material being cut because the nearness of the blade to your hand is hidden from your sight.
9. Remove the plug from the socket before carrying out any adjustment, servicing or maintenance.
10. When an extension cable is required you must ensure it has the correct ampere rating for your power tool and is in a safe electrical condition. And please fully unwind cable drum extensions to avoid potential overheating.
11. Ensure mains supply voltage is the same as indicated on the rating plate.
12. Always check walls, floors and ceilings to avoid hidden power cables and pipes.
13. After long working period, external metal parts and accessories could be hot. Do not touch it by bare hand.
14. Only withdraw the blade from the cut when the blade has been stopped moving.
15. Before cutting, check the cutting line is free of nails, screws, etc.

### **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.

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.

## 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](http://www.hse.gov.uk)

Description of the working mode	Vibration total values (triax vector sum) determined according to EN 60745:
Vibrations when cutting boards $a_{h,B} =$	$20\text{m/s}^2$ $K=1,5\text{m/s}^2$
Vibrations when cutting wooden beams $a_{h,WB} =$	$21.4\text{m/s}^2$ $K=1,5\text{m/s}^2$

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 (EN 60745) 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 cut.

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.

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.

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.

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 charger 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.

### **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 application tools for the product and ensure they 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 number of days.

**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 is any malfunction. Have the product checked by a qualified specialist and repaired, if necessary, before you put it into operation again.

### **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.

### **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 application tools 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!

### **Important note:**

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

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



## SYMBOLS



WARNING - 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 safety gloves



Wear ear protection



Wear eye protection



Wear dust mask

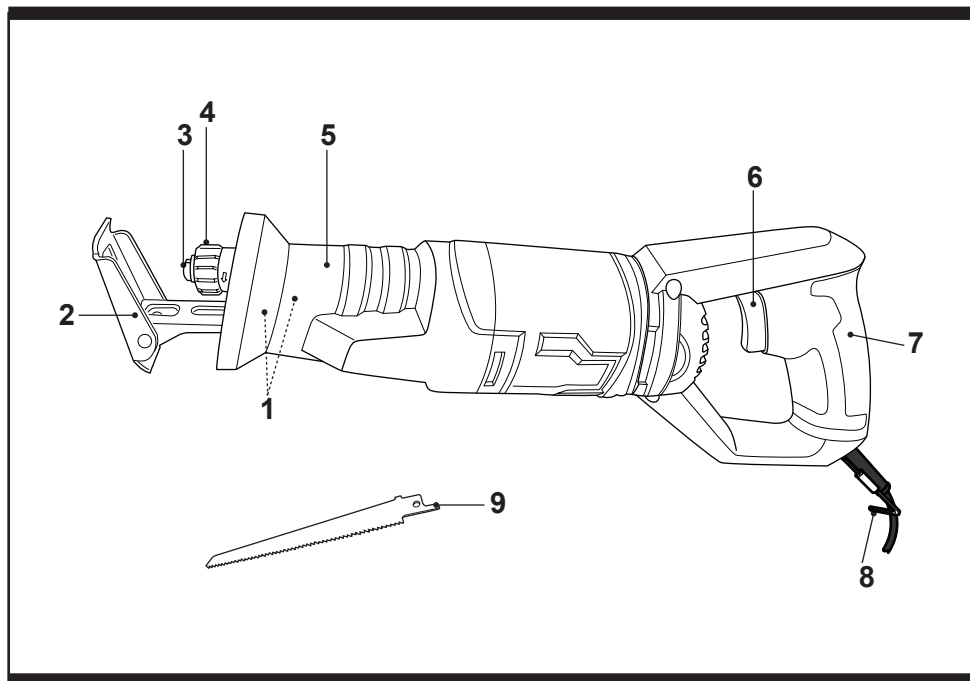


Double insulation



Conformity to CE directive

**yyWxx Manufacturing date code: Year of manufacturing (20yy) and week of manufacturing (Wxx)**



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**1 Hex bolts (x2)**

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**2 Guide plate**

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**3 Tool socket**

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**4 Locking sleeve**

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**5 Gripping surface**

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**6 On/off switch**

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**7 Main handle**

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**8 Hex key (4mm)**

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**9 Saw blade (for wood x1)**

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## TECHNICAL DATA

Voltage:	230-240V~ 50Hz
Input power:	750W
No load speed	2700/min
Maximum cutting capacity in wood:	115mm
Maximum cutting capacity in steel:	15mm
Protection class:	II
Weight of the machine:	2.77kg

## NOISE DATA

A weighted sound pressure	93dB(A) / Kpa: 3dB(A)
A weighted sound power	104dB(A) / Kwa: 3dB(A)
Wear ear protection when sound pressure is over	80dB(A)



## ACCESSORIES

**Saw blade (for wood x1)**

**1pc**

**Hex key (4 mm)**

**1pc**

## OPERATIONS INSTRUCTIONS



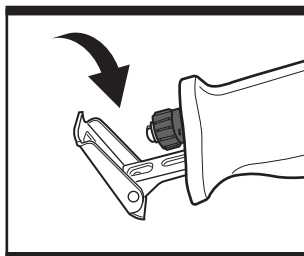
**Note:** Before using the tool, read the instruction book carefully.

### INTENDED USE

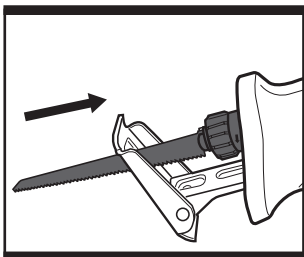
This reciprocating saw shall be used for cutting wood and similar material e.g. MDF and chipboard, plastic and metal using the respective saw blade.

The product must not be used on masonry and materials that are harmful to health.

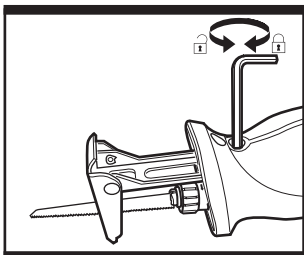
This tool is intended for DIY home use or occasional professional use.



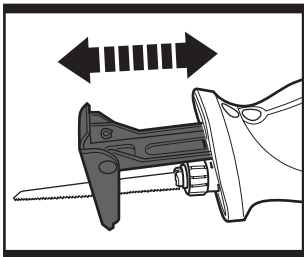
**Fig. 1**



**Fig. 2**



**Fig. 3**



**Fig. 4**

### 1. Fitting saw blade (Fig.1 & 2)

**Warning:** Remove the plug from the socket before inserting a new blade.

Turn the locking sleeve (4) clockwise and hold it in position (Fig. 1)

Insert a saw blade (9) all the way into the tool socket (3) up to the stop and release the sleeve (4) (Fig. 2)

**NOTE:** Depending on the intended application the saw blade can also be inserted in reverse.

### **Warning:**

- Some 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.

- Always use saw blades according to the intended use! For example, never use a saw blade intended for working on wood for working on metal.

### 2. Guide plate length adjustment (Fig. 3 & 4)

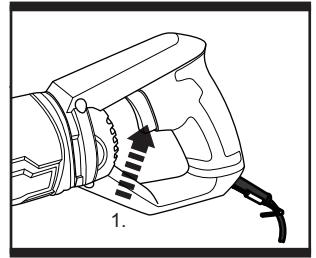
Adjust the Guide plate length according to the saw blade length and workpiece thickness; always ensure that the saw blade extends beyond the workpiece throughout the stroke. Loosen the hex bolts (1) anticlockwise with the hex key (9) (Fig. 3)

- Adjust the guide plate (2) to required position.

- Tighten the hex bolts (1) clockwise to secure the guide plate (2) in position.

### 3. Use of the on/off switch (Fig. 5)

Press the on/off switch (6) to switch the product on (Fig. 5).  
Release the on/off switch (6) to switch the product off.



**Fig. 5**

## Cutting

1. Cut in the direction of the wood grain whenever possible to avoid jamming the saw blade and fraying edges.
2. Always add cutting oil along the cutting line to reduce heat when cutting metal.
3. Ensure the workpiece is free of obstacles like nails or screws before operation. Remove them if required.
4. Check that there is sufficient clearance for the saw blade under the workpiece.
5. Hold the product with one hand on the handle (7), and with the other hand on the gripping surface (5). Never try to operate the product with only one hand! Keep your hands away from under the workpiece.
6. Switch the product on and wait until it runs at full speed before placing it on the workpiece.
7. Place the guide plate (2) flat on the workpiece and move the product at an even speed.
8. Only apply as much pressure as necessary to keep the guide plate flat on the workpiece. Higher pressure will not increase but lower the performance of the product and leads to uneven results.
9. Keep the product moving at all times, do not stop in one position to avoid grooves.
10. Lift the product from the workpiece before switching it off.
11. Switch the product off, let it come to a complete stop and disconnect it from power supply if the saw blade is stuck in the workpiece. Only then free the jammed blade.

## 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.

## UK PLUG REPLACEMENT

The fuse in the main plug of your power tool should always be replaced with one of identical rating.

Check the voltage given on your power tool matches the supply voltage.

The power tool is supplied with a fitted plug, however if you should need to fit a new plug follows the instruction below.

### IMPORTANT

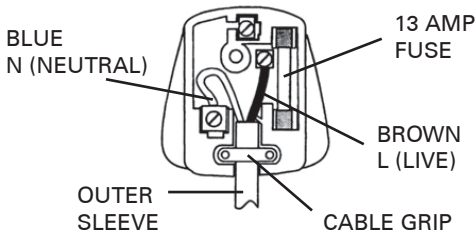
The wire in the mains lead are coloured in accordance with the following code:

**Blue ---Neutral**

**Brown ---Live**

The wire that is coloured **blue** must be connected to the terminal that is marked with the letter **N**. The wire that is coloured **brown** must be connected to the terminal that is marked with the letter **L**.

A 13AMP (BS1363 or BS1363/A) plug must be used and a 13 AMP fuse must be fitted.



# TITAN®

## Declaration of Conformity

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

Declare that the product:  
**Designation: Reciprocating saw 750W**  
**Model: TTB533RSP**

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 60745-1:2009 + A11:2010**  
**EN 60745-2-11:2010**  
**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 : 15/10/2013

Signature: P. C. Harries

Name / title: Peter Harries / Quality Manager

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



**RECIPROCATING SAW 750W**

**TTB533RSP**