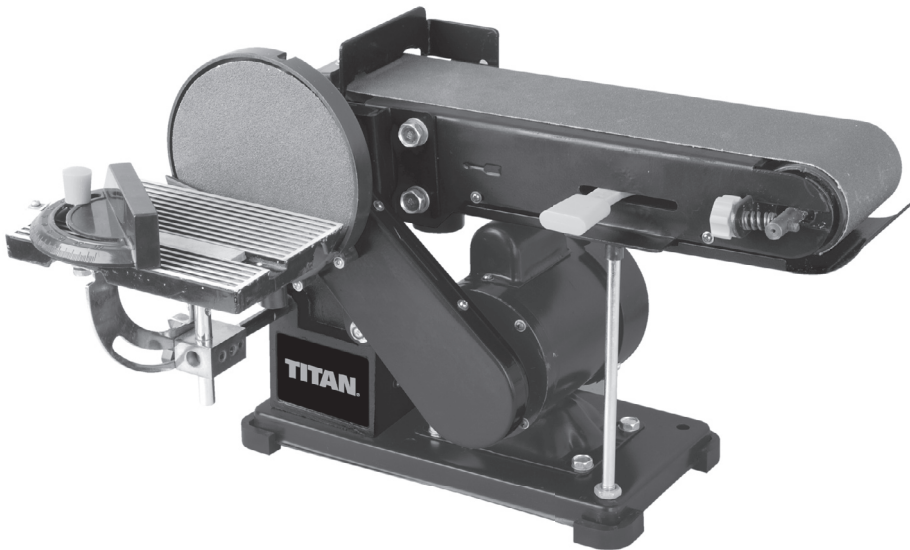




TITAN[®]



12 month
Full
Manufacturer's
Warranty

SAFETY AND OPERATING MANUAL

4" BELT & 6" DISC SANDER

TTB045BTS





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 12-month guarantee, so should it develop a fault within this period contact your retailer.

GUARANTEE

This **TITAN** product carries a guarantee of 12 months. 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 further technical advice, spare parts or repair service (outside of guarantee) please contact the customer helpline number on 0845 607 6380



SAFETY INSTRUCTIONS



Warning! To ensure safe operation when using your belt & disc sander, make sure you follow basic safety principles to reduce risk of personal injury, electric shock and fire. Please read the following instructions prior to operating this product and keep for future use.

SAVE THESE INSTRUCTIONS

1. Keep the work area clean.

Cluttered areas and benches invite injuries.

2. Consider work area environment.

Do not expose power tools to rain. Do not use power tools in damp or wet locations. Keep the 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 children 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, high or 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 are 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 tool 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 tool with care.

Keep cutting tools sharp and clean for better and safer performance. Follow instructions for lubrication and changing accessories. Inspect tool cord periodically and if damaged have them replaced by an authorised service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean and free of oil or grease.

4" BELT & 6" DISC SANDER

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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.

From 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 the "off" when plugging in.

18. Use outdoor extension leads.

When 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. Do not operate tool when you are tired.

20. Check damaged parts.

Before further use of the 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 facility. Do not use the tool if the switch does not turn it on and off.



21. Warning.

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

22. Have your tools repaired by qualified person.

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



HEALTH ADVICE



Warning! When drilling, sanding, sawing or grinding, dust particles will be produced. In some instances, depending on the materials you are working with, this dust can be particularly harmful to you (e.g. lead from old gloss paint).

You are advised to consider the risks associated with the materials you are working with and to reduce the risk of exposure. You should:

- Work in a well-ventilated area.
- Work with approved safety equipment, such as those dust masks that are specially designed to filter microscopic particles.

ADDITIONAL SAFETY INSTRUCTIONS FOR YOUR TOOL


1. Do not operate your machine until it is completely assembled and installed according to the instructions.
2. If you are not thoroughly familiar with the operation of abrasive finishing machines, obtain advice from your supervisor, instructor or other qualified person.
3. **Caution:** This machine is designed to sand wood or wood-like products only. Sanding or grinding other materials could result in fire, injury or damage to product.
4. Always wear eye protection.
5. This MACHINE is intended for indoor use only.
6. **Important:** Mount and use this machine on horizontal surfaces only. Operating machine when mounted on non-horizontal surfaces might result in motor damage.
7. If there is any tendency for the machine to tip over or move during certain operations such as when sanding long or heavy boards, the machine must be securely fastened to a supporting surface.
8. Make sure the sanding belt is tracking correctly in order that it does not run off the pulleys.
9. Make sure the sanding belt runs in the proper direction. See directional arrow on back side of belt.
10. Make sure the sanding belt or disc is not torn or loose.
11. Support workpiece firmly with the mitre gage, backstop or work table when sanding with the belt.
Note: The only exception is curved work performed on the top wheel of belt.
12. Always hold the workpiece firmly on the table when sanding on the disc.
13. Avoid kickback by sanding in accordance with directional arrows. Sand on downward side of disc. Sanding on the upward side could cause the workpiece to fly up causing injury.
14. Always maintain a minimum clearance of 1/16" or less between the table or backstop and the sanding belt or disc.
15. Never wear gloves or hold the work with a rag when sanding.
16. Sand with the grain of the wood.
17. Do not sand pieces of material that are too small to be safely supported.
18. Avoid awkward hand positions where a sudden slip could cause a hand to move into the sanding belt or disc.
19. When sanding a large workpiece, provide additional support at table height.
20. Do not sand with the workpiece unsupported. Support the workpiece with the backstop or table. The only exception is curved work performed on the outer sanding drum.

4" BELT & 6" DISC SANDER

TTB045BTS





21. Always remove scrap pieces and other objects from the table, backstop or belt before turning the machine "ON."
22. Never perform layout, assembly or set-up work on the table while the sander is operating.
23. Always turn the machine "OFF" and disconnect the cord from the power source before installing or removing accessories.
24. Never leave the machine work area when the power is "ON" or before the machine has come to a complete stop.
25. Never use solvents to clean plastic parts. Solvents could possibly dissolve or otherwise damage the material. Only a soft damp cloth should be used to clean plastic parts.
26. Should any part of your sander be missing, damaged, or fail in any way, or any electrical components fail to perform properly, shut off switch and remove plug from power supply outlet. Replace missing, damaged or failed parts before resuming operation.
27. The use of attachments and accessories not recommended by Delta may result in the risk of injuries.
28.  **Warning: Some dust particles created by power sanding, sawing, grinding, drill 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 lumber.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 are specially designed to filter microscopic particles.

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.

SYMBOLS



Read the manual



Warning



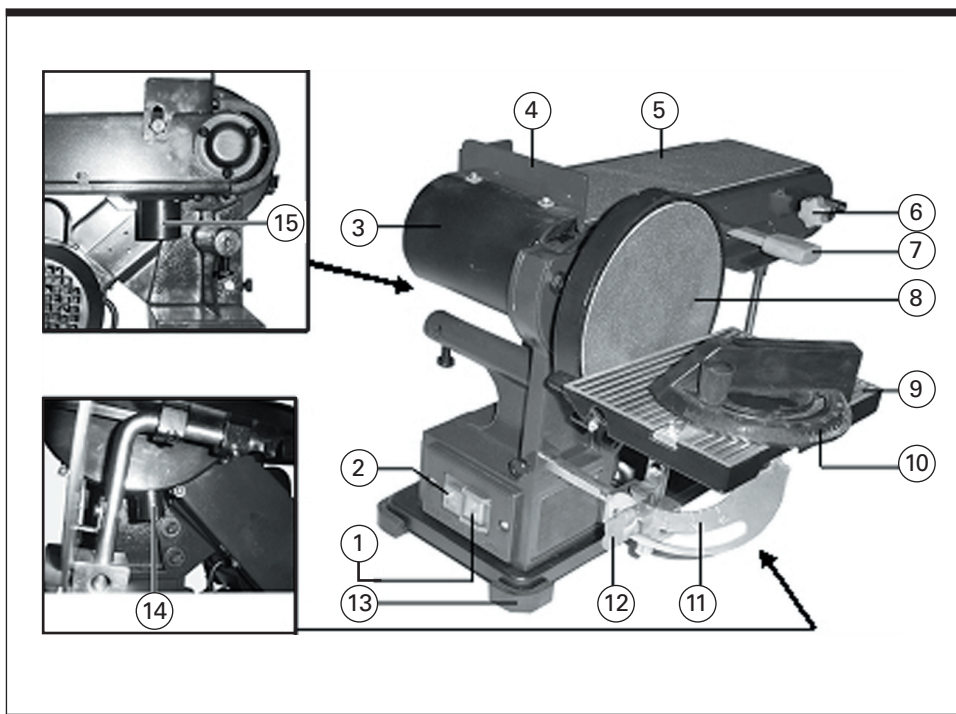
Wear gloves



Wear dust mask, eye & ear protection



Conforms to relevant safety standards



1. OFF SWITCH

2. ON SWITCH

3. UPPER SANDING DRUM GUARD

4. BELT SANDING BAFFLE

5. SANDING BELT

6. TRACKING ADJUST KNOB

7. BELT TENSION LEVER

8. SANDING DISC

9. WORKTABLE

10. MITRE GAUGE

11. BEVEL GAUGE

12. TABLE TILTING LOCK KNOB

13. PLASTIC FEET

14. DUST OUTLET

15. DUST OUTLET

4" BELT & 6" DISC SANDER TTBO45BTS





TECHNICAL DATA

Volts:	230V~50Hz
Power input:	350W
Disc no load speed:	1,450min ⁻¹
Belt no load speed:	280m/min
Disc size:	152mm
Table size:	190x125mm
Belt size:	100x915mm
Worktable tilt:	0-45°
Belt tilt:	0-90°
Net weight:	15.5kg

NOISE AND VIBRATION DATA

Sound pressure level:	85dB
Sound power level:	98dB

ACCESSORIES

Mitre gauge	1pc
Spanner	1pc
Working table	1pc
Sanding pad	1pc
Sanding pad cover set	1set
Hex key	1pc



OPERATION INSTRUCTIONS



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

ASSEMBLY



Warning: Do not connect to power supply until assembly is complete. Failure to comply could result in accidental starting and possible serious injury.

1. Assembling disc guard (See Fig 1)

Assemble disc guard (a) to the machine using three screws (b), lock washers and flat washers as shown.

2. Installing sanding disc plate

1) Slide sanding disc plate (c), onto drive shaft (d) making certain key (e) in drive shaft (d) fits into keyway (f) of disc plate (c). (Fig 2)

2) Insert hex wrench (g-1), down through slot (h) in the back of disc guard (a) and tighten set screw holding disc plate on drive shaft. (Fig 3)

3. Assembling sanding disc to disc plate (See Fig 4)

Make sure sanding disc plate (c) is clean. Peel backing from sanding disc (8), and press disc firmly into position all around the sanding disc plate (c) as shown.

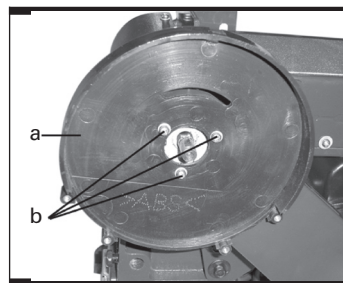


Fig 1

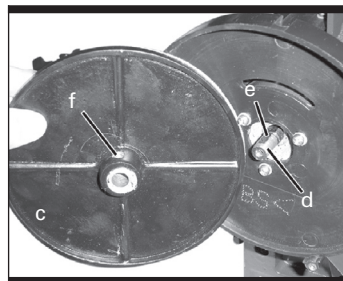


Fig 2

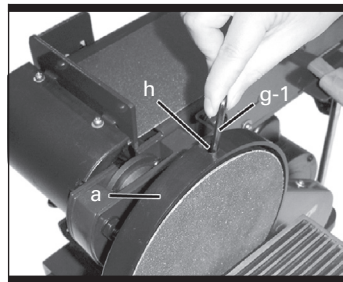


Fig 3

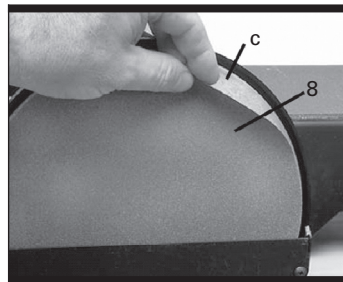


Fig 4

4" BELT & 6" DISC SANDER

TTB045BTS



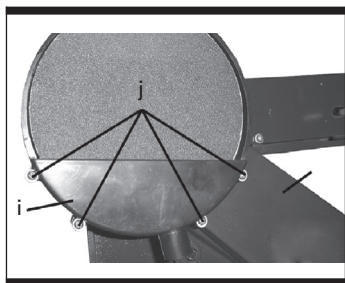


Fig 5

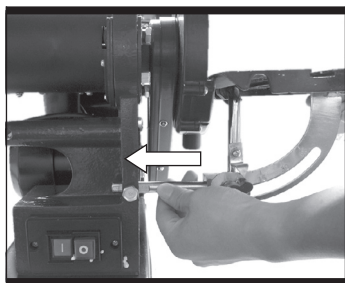


Fig 6

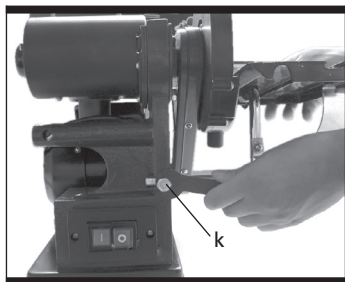


Fig 7

4. Installing disc guard with dust outlet (See Fig 5)

Position disc guard (i) against the lower one-third of the disc, aligning four holes (j) as shown in Fig 5.

Using the four screws securely tighten the disc guard (a) into place.

5. Mounting the worktable for use with the disc sander (See Fig 6&7)

1) Insert the worktable support bar into the hole as shown in Fig 6.

2) Position the worktable not further than 1.6mm from the sanding surface.

3) Tighten the hex set screw (k) with the spanner (g-2) provided. (Fig 7)





6. Mounting belt sanding baffle

- 1) Mount the washer as shown in Fig 8-1 but do not fasten.
- 2) Fix and tighten the screws on the upper sanding drum guard. (Fig 8-2)
- 3) Fasten the washer as shown in Fig 8-1.

7. Mounting the plastic feet (see Fig 9-1 & 9-2)

The plastic feet can protect your table and floor. Position the edge of the tool feet in the groove of the plastic feet.

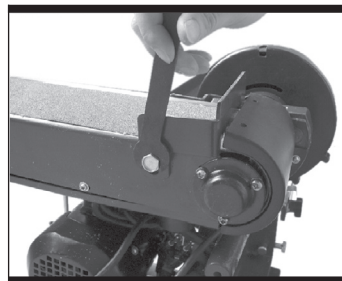


Fig 8-1

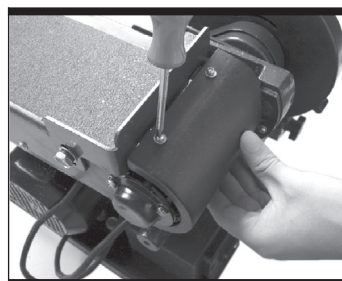


Fig 8-2

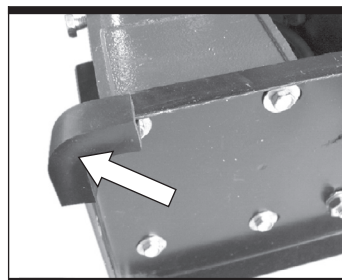


Fig 9-1

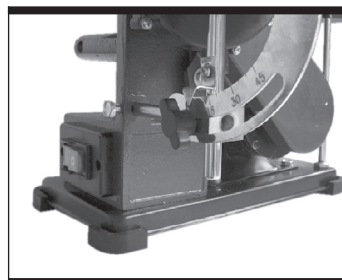


Fig 9-2

4" BELT & 6" DISC SANDER

TTB045BTS



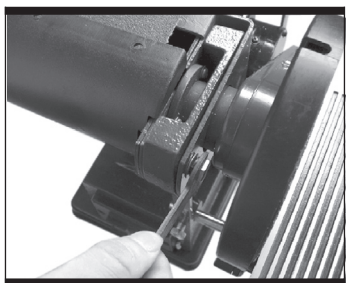


Fig 10-1

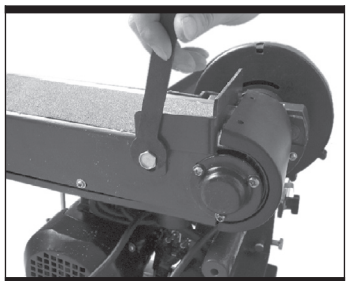


Fig 10-2

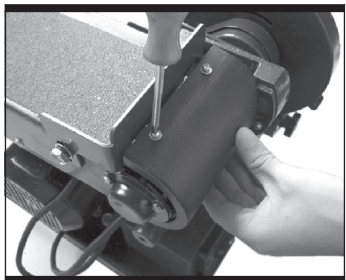


Fig 10-3

8. Mounting the worktable for use with the belt sander (See Fig 10-1 - 11-3)

To use the work table for vertical sanding:

• Disassemble the work table.

- 1) Loosen and remove the head screw and the washer as shown in Fig 10-2&10-2.
- 2) Loosen and remove the head screws and the washers as shown in Fig 10-3.
- 3) Remove the work table (4).






• Mounting the worktable

- 1) Insert the worktable support bar into the hole. (Fig 11-1)
- 2) Position the worktable not further than 1.6mm from the sanding surface. (Fig 11-2)
- 3) Tighten the hex set screw with the spanner (g-2). (Fig 11-3)
- 4) Make sure the worktable hex screw is fully secured.

ADJUSTMENT

 **Warning:** Before performing any adjustment, make sure the belt/disc sander is unplugged from the power supply and the switch is in the OFF position. Failure to note this warning could result in serious personal injury.

1. Adjusting the belt tracking (See Fig 12)

Plug in the machine.

Turn the switch ON and then immediately turn it OFF. If the belt tends to slide off the idler drum or drive drum, the belt is not tracking properly.

• To adjust belt tracking

- 1) If the sanding belt (5) moves towards the disc, turn the tracking adjust knob (6) clockwise 1/4 turn.
- 2) If the sanding belt (5) moves away from the disc, turn the tracking adjust knob (6) counterclockwise 1/4 turn.
- 3) Turn the switch ON and then immediately OFF again, noting belt movement. Readjust tracking knob if necessary.

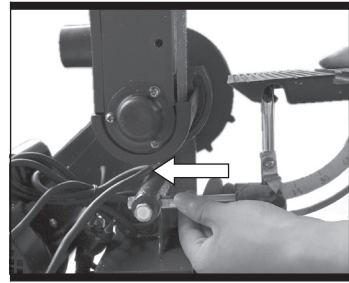


Fig 11-1

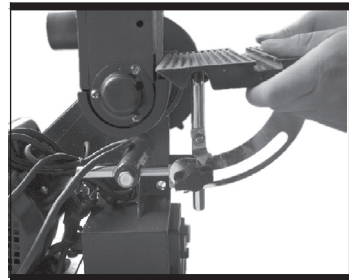


Fig 11-2

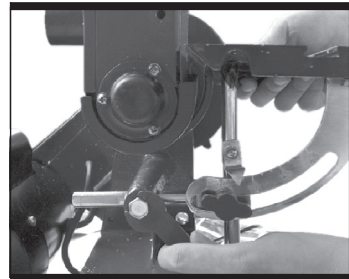


Fig 11-3

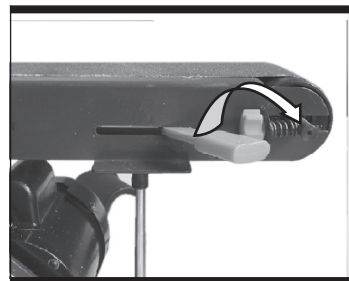


Fig 12

4" BELT & 6" DISC SANDER TTBO45BTS



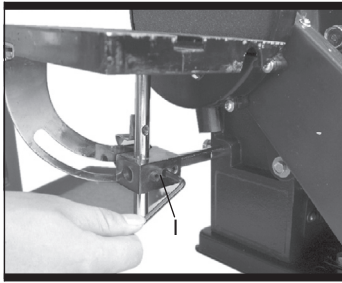


Fig 13

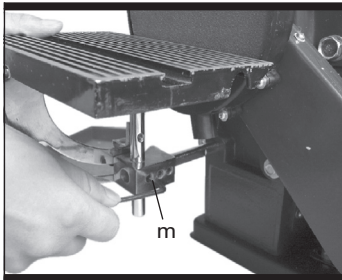


Fig 14



Fig 15

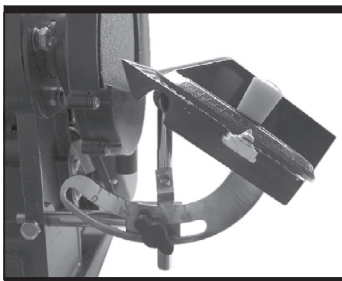


Fig 16

2. Squaring the worktable to the sanding disc

Unplug the machine.

Use a combination square to check the angle of the worktable with the sanding disc.

If the worktable is not 90° with the disc, loosen the table lock knob (12) and tilt the table.

Adjust worktable square to the sanding disc and tighten the table lock knob (12) again.

Note: Move the table further or closer to the sanding disc with the worktable hex screw (l). (See Fig 13)

3. Adjusting the worktable (See Fig 14)

You can adjust the height of the worktable. Twist the screw (m) with hex wrench as shown in Fig 14.

OPERATION

1. Switch ON/OFF(See Fig 15)

To start the machine, press the on/off switch to ON position ("I") (2). To stop, press the switch to OFF position ("O") (1).

2. Bevel sanding (See Fig 16)

When sanding small items on the disc sander always use the left hand side of the disc.

The worktable can be tilted from 0 to 45 degree for bevel sanding. To tilt the worktable:

- 1) Loosen the table lock knob (12) by turning it counterclockwise.
- 2) Set the worktable to the desired angle with the bevel gauge (11).

Note: Position the worktable not further than 1.6mm from the sanding surface.

- 3) Tighten the table lock knob (12) by turning it clockwise.

- 4) When sanding small items on the disc sander always use the left hand side of the disc.





3. Mitre sanding (See Fig 17)

Use of a mitre gauge is recommended for sanding small end surfaces on the sanding disc.

Set the desired mitre angle and keep it locked in position.

Note: Always move the work-piece across the sanding disc from the left side towards the right side.

4. Vertical sanding

Your machine can sand vertically. Depending on the work-piece, the belt sanding baffle can be removed for the vertical sanding operation.

Note: Sanding long work-piece with the sanding belt in the vertical by moving the work evenly across the sanding belt.

5. Surface sanding on the sanding belt (See Fig 18)

Hold the work-piece firmly, keeping fingers away from the sanding belt.

Keep the end pressed firmly against the belt sanding baffle moving work evenly across the sanding belt.

Note: Use extra caution when sanding very thin pieces and when sanding extra long pieces, remove the belt sanding baffle. Apply only enough pressure to allow the sanding belt to sand the material.

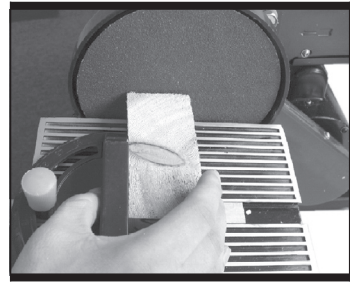


Fig 17

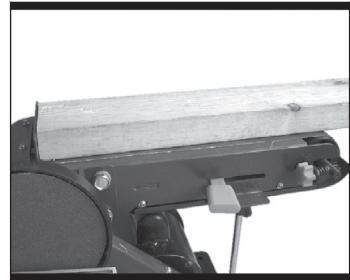


Fig 18

4" BELT & 6" DISC SANDER

TTB045BTS



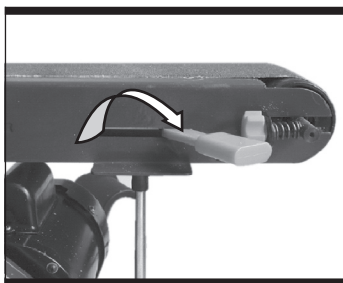


Fig 19-1

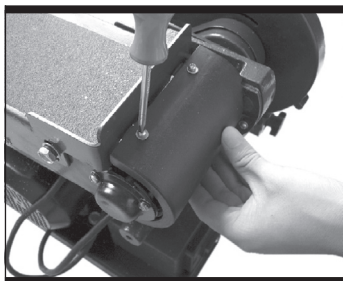


Fig 19-2

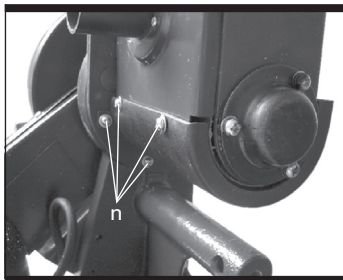


Fig 19-3

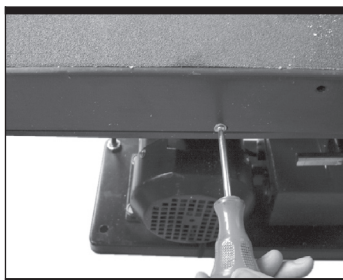


Fig 19-4

MAINTENANCE

Remove the plug from the socket before carrying out any adjustment, servicing or maintenance. If the supply cord is damaged, it must be replaced by a special cord or assembly available from the manufacturer or its service agent.

• Replacing sanding belt (see Fig 19-1 - Fig 19-6)

- 1) Pull the belt tension lever (7) from left to right to release the belt tension. (Fig 19-1)
- 2) Loosen and remove the screws on the upper sanding drum guard. (Fig 19-2)
- 3) Loosen and remove the four screws under the upper sanding drum guard (n). (Fig 19-3)
- 4) Loosen and remove the two screws on the belt side cover. (Fig 19-4)





- 5) Remove the lower belt cover (o). (Fig 19-5)
- 6) Pull out the old belt and replace a new one. (Fig 19-6)

Note:

- The sanding belt must run in the direction of the arrow (p) on the smooth side of the belt.
- Ensure the sanding belt is centered on the drum.

- 7) Install the lower belt cover (o) and the upper sanding drum guard (3) in reverse procedure.

- 8) Push the belt tension lever (7) back into place.

Note: The belt tension lever (7) is spring loaded so use extreme caution when pushing it into place.

After using your tool, clean it completely and lubricate all sliding and moving parts. Apply a light coat of automotive type paste wax to the worktable to help keep the surfaces clean. Never use water or chemical cleaners to clean your power tool.

Always store your power tool in a dry place. Keep the motor ventilation slots clean. Keep all working controls free of dust.

If you see some sparks flashing in the ventilation slots, this is normal and will not damage your power tool.

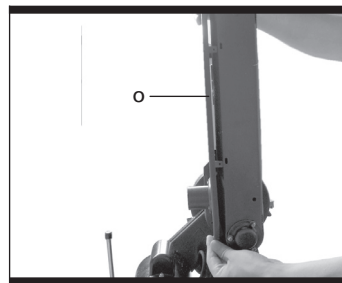


Fig 19-5

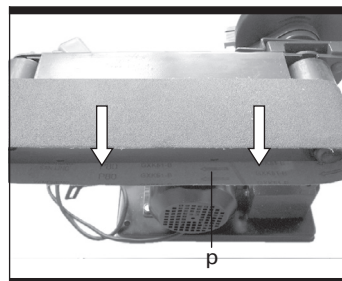


Fig 19-6

ENVIRONMENTAL PROTECTION



Waste electrical products should not be disposed of with household waste. Please recycle where facilities exist. For further information visit www.recycle-more.co.uk

4" BELT & 6" DISC SANDER

TTB045BTS





PLUG REPLACEMENT

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:

Green & yellow - Earth

Blue - Neutral

Brown - Live

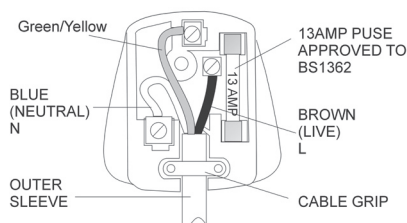
As the colours of the wires in the mains lead of this appliance may not correspond with the coloured markings identifying the terminals in your plug, proceed as follows. The wire which is coloured **green & yellow** must be connected to the terminal which is marked with **E** or \perp .

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 the letter **L**.

Warning: Never connect live or netutral wires to the earth terminal of the plug. Only fit an approved 13 Amp 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.

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





TITAN[®]

Declaration of Conformity

We, Importer
Titan Power Tools (UK) Ltd
BA22 8RT

Declare that the product
4" BELT & 6" DISC SANDER
TTB045BTS

Complies with the essential health and safety requirements of the following directive:

EC Machinery Directive **98/37/EC**

EMC Directive **2004/108/EC**

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

2002/95/EC Restrictions of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment

Standards and technical specifications referred to:

EN 61029-1:2000+A11:2003+A12:2003

EN 55014-1:2000+A1:2001+A2:2002

EN 55014-2:1997+A1:2001

EN 61000-3-2:2000+A2:2005

EN 61000-3-3:1995+A1:2001

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