

DRAPER[®]

STORMFORCE

INSTRUCTIONS FOR
650W 230V
82mm Planer

Stock No.83637

Part No.PT650SF

IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY TO ENSURE THE SAFE AND EFFECTIVE USE OF THIS PRODUCT.



CE

DRAPER[®]

GENERAL INFORMATION

These instructions accompanying the product are the original instructions. This document is part of the product, keep it for the life of the product passing it on to any subsequent holder of the product. Read all these instructions before assembling, operating or maintaining this product.

This manual has been compiled by Draper Tools describing the purpose for which the product has been designed, and contains all the necessary information to ensure its correct and safe use. By following all the general safety instructions contained in this manual, it will ensure both product and operator safety, together with longer life of the product itself.

All photographs and drawings in this manual are supplied by Draper Tools to help illustrate the operation of the product.

Whilst every effort has been made to ensure the accuracy of information contained in this manual, the Draper Tools policy of continuous improvement determines the right to make modifications without prior warning.

1. TITLE PAGE

1.1 INTRODUCTION:

USER MANUAL FOR:

650W 230V PLANER

Stock no. 83637

Part no. PT650SF

1.2 REVISIONS:

Date first published April 2016

As our user manuals are continually updated, users should make sure that they use the very latest version.

Downloads are available from: <http://www.drapertools.com/manuals>

DRAPER TOOLS LIMITED

HURSLEY ROAD

CHANDLER'S FORD

EASTLEIGH

HAMPSHIRE

SO53 1YF

UK

WEBSITE: drapertools.com

PRODUCT HELP LINE: +44 (0) 23 8049 4344

GENERAL FAX: +44 (0) 23 8026 0784

1.3 UNDERSTANDING THIS MANUALS SAFETY CONTENT:

WARNING! Information that draws attention to the risk of injury or death.

CAUTION! Information that draws attention to the risk of damage to the product or surroundings.

1.4 COPYRIGHT © NOTICE:

Copyright © Draper Tools Limited.

Permission is granted to reproduce this publication for personal & educational use only.

Commercial copying, redistribution, hiring or lending is prohibited.

No part of this publication may be stored in a retrieval system or transmitted in any other form or means without written permission from Draper Tools Limited.

In all cases this copyright notice must remain intact.

2. CONTENTS

2.1 CONTENTS

	PAGE CONTENT	PAGE
1	TITLE PAGE	
	1.1 INTRODUCTION	2
	1.2 REVISION HISTORY	2
	1.3 UNDERSTANDING THIS MANUAL	2
	1.4 COPYRIGHT NOTICE	2
2	CONTENTS	
	2.1 CONTENTS	3
3	GUARANTEE	
	3.1 GUARANTEE	4
4	INTRODUCTION	
	4.1 SCOPE	5
	4.2 SPECIFICATION	5
	4.3 HANDLING & STORAGE	5
5.	HEALTH & SAFETY INFORMATION	
	5.1 GENERAL SAFETY INSTRUCTIONS	6 - 7
	5.2 ADDITIONAL SAFETY FOR PLANERS	7
	5.3 CONNECTION TO THE POWER SUPPLY	8
6.	TECHNICAL DESCRIPTION	
	6.1 IDENTIFICATION	9
7.	UNPACKING & CHECKING	
	7.1 PACKAGING	10
	7.2 WHAT'S IN THE BOX?	10
8.	SETTING UP THE PLANER	
	8.1 SETTING THE PLANER	11
	8.2 BLADES	11
	8.3 ATTACHING THE PARALLEL GUIDE	11
	8.4 ATTACHING THE REBATING DEPTH GUIDE	11
	8.5 FITTING THE DUST EXTRACTION BAG	11
9.	OPERATING THE PLANER	
	9.1 STARTING THE PLANER	12
	9.2 GENERAL PLANING OPERATIONS	12
	9.3 CHAMFERING EDGES	12
	9.4 REBATING	12
	9.5 DIRECTION OF ADVANCEMENT	13
	9.6 FOOT PARK	13
	9.7 IMPROPER USE	13
10.	MAINTENANCE	
	10.1 BLADE REPLACEMENT/ADJUSTMENT	14
	10.2 DRIVE BELT REPLACEMENT	15
11.	TROUBLESHOOTING	
	11.1 TROUBLESHOOTING GUIDE	16
12.	EXPLANATION OF SYMBOLS	
	12.1 EXPLANATION OF SYMBOLS	17
13.	DISPOSAL	
	13.1 DISPOSAL	18
	DECLARATION OF CONFORMITY	ENCLOSED

3. GUARANTEE

3.1 *GUARANTEE*

Draper tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship.

Should the tool develop a fault, please return the complete tool to your nearest distributor or contact Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF. England.

Telephone Sales Desk: (023) 8049 4333 or Product Help Line (023) 8049 4344.

A proof of purchase must be provided with the tool.

If upon inspection it is found that the fault occurring is due to defective materials or workmanship, repairs will be carried out free of charge. This guarantee period covering parts/labour is 12 months from the date of purchase except where tools are hired out when the guarantee period is 90 days from the date of purchase. The guarantee is extended to 24 months for parts only. This guarantee does not apply to normal wear and tear, nor does it cover any damage caused by misuse, careless or unsafe handling, alterations, accidents, or repairs attempted or made by any personnel other than the authorised Draper warranty repair agent.

Note: If the tool is found not to be within the terms of warranty, repairs and carriage charges will be quoted and made accordingly.

This guarantee applies in lieu of any other guarantee expressed or implied and variations of its terms are not authorised.

Your Draper guarantee is not effective unless you can produce upon request a dated receipt or invoice to verify your proof of purchase within the guarantee period.

Please note that this guarantee is an additional benefit and does not affect your statutory rights.

Draper Tools Limited.

4. INTRODUCTION

4.1 SCOPE

This planer is suitable for planing doors, smoothing off rough edges and trimming/shaping timber. It is intended for domestic and light commercial use only. Any other application is considered misuse.

4.2 SPECIFICATION

Stock no	83637
Part no	PT650SF
Motor:	
Rated voltage	230V~
Rated frequency	50Hz
Rated input	650W
Revolutions per minute (no load)	17,500min ⁻¹
Cutting capacity:	
Depth.....	0 – 2.0mm
Width.....	82mm
Sole plate length	234mm
Sound pressure level	91.0dB(A)
Sound power level	102dB(A)
Vibration level	4.7m/s ²
Weight	2.80kg

4.3 HANDLING & STORAGE

The environment will have a negative result on its operation if you are not careful. If the air is damp, components will rust. If the machine is unprotected from dust and debris; components will become clogged: And if not cleaned and maintained correctly or regularly the machine will not perform at its best.

5. HEALTH & SAFETY INFORMATION

5.1 GENERAL SAFETY INSTRUCTIONS

General Power Tools Safety Warnings

Warning! Read all instructions. Failure to follow all instructions listed below 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 electrical 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, nonskid 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.

5. HEALTH & SAFETY INFORMATION

- 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 tools 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 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.

5.2 ADDITIONAL SAFETY FOR PLANERS

Wait for the cutter to stop before setting the tool down. An exposed rotating cutter may engage the surface leading to possible loss of control.

Hold the power tool by the handle only, in case the cutter contacts its own cord.

Cutting a “live” wire may make exposed metal parts of the power tool “live” and could give the operator an electric shock.

Use clamps or another practical way to secure and support the workpiece to a stable platform. Hold the work by your hand or against the body leaves it unstable and may lead to loss of control.

5. HEALTH & SAFETY INFORMATION


5.3 CONNECTION TO THE POWER SUPPLY

Make sure the power supply information on the machine's rating plate are compatible with the power supply you intend to connect it to.

This product comes supplied with a UK standard 3 pin plug fitted. It is designed for connection to a domestic power supply rated at 230V AC.

This appliance is Class II† and is designed for connection to a power supply matching that detailed on the rating label and compatible with the plug fitted.

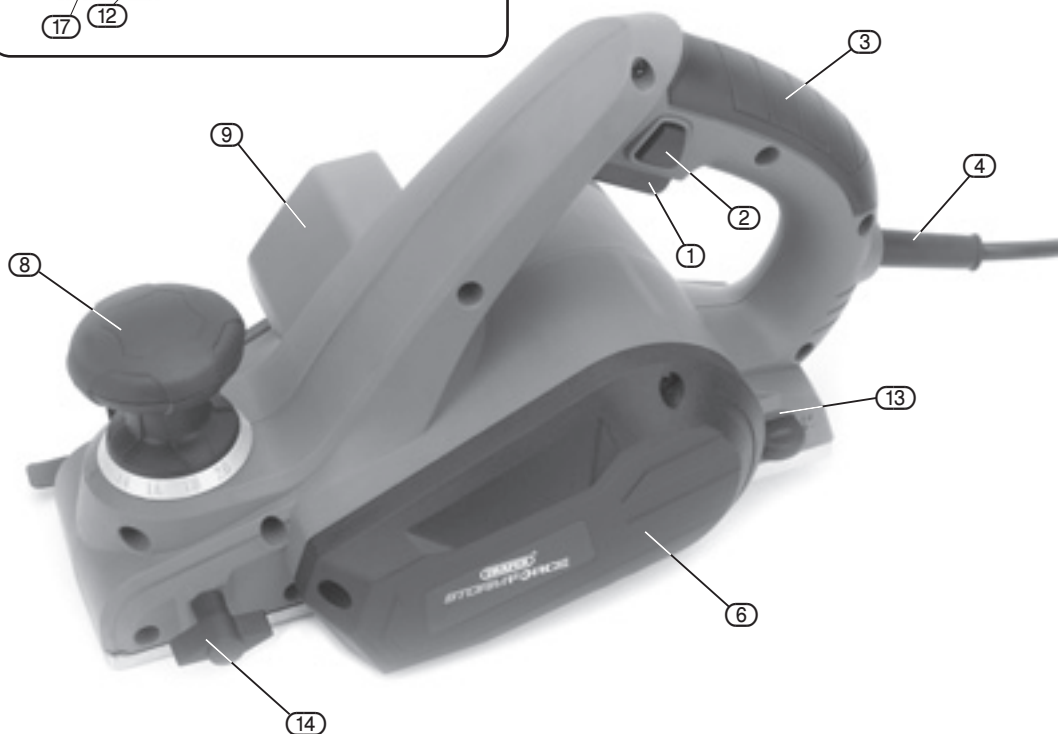
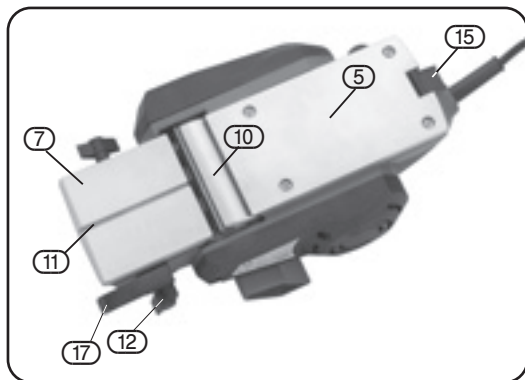
If an extension lead is required, use an approved and compatible lead rated for this appliance. Follow all the instruction supplied with the extension lead.

†Double insulated : This product requires no earth connection as supplementary insulation is applied to the basic insulation to protect against electric shock in the event of failure of the basic insulation.

Apart from replacing the fuse in the plug, no other electrical work is recommended on this machine.

6. TECHNICAL DESCRIPTION

6.1 IDENTIFICATION



- ① Trigger switch.
- ② Trigger release button.
- ③ Hand grip.
- ④ Power cable.
- ⑤ Rear sole plate.
- ⑥ Drive belt cover.
- ⑦ Front sole plate.
- ⑧ Depth regulation knob.

- ⑨ Dust outlet port.
- ⑩ Blade drum.
- ⑪ Chamfer guide 'V' groove.
- ⑫ Rebating depth guide attachment knob.
- ⑬ Blade spanner on-board storage.
- ⑭ Parallel guide attachment knob.
- ⑮ Foot park.
- ⑯ Rebate depth guide.

7. UNPACKING & CHECKING

7.1 PACKAGING

Carefully remove the planer from the packaging and examine it for any sign of damage that may have happened during shipping. Lay the contents out and check them against the parts shown below. If any part is damaged or missing; please contact the Draper Help Line (the telephone number appears on the Title page) and do not attempt to use the planer.

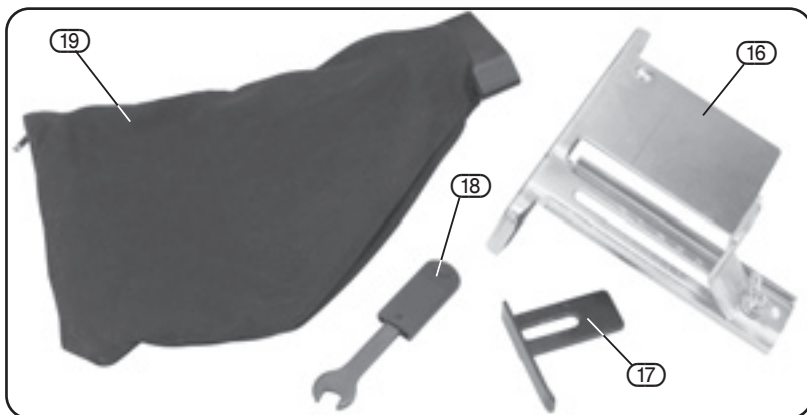
The packaging material should be retained at least during the guarantee period: in case the machine needs to be returned for repair.

Warning! Some of the packaging materials used may be harmful to children. Do not leave any of these materials in the reach of children.

If any of the packaging is to be thrown away, make sure they are disposed of correctly; according to local regulations.

7.2 WHAT'S IN THE BOX?

As well as the planer; there are several parts not fitted or attached to it.



- (16) Parallel guide.
- (17) Rebating depth guide.
- (18) Blade adjustment spanner.
- (19) Dust extraction bag.

8. SETTING UP THE PLANER

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

8.1 SETTING THE PLANER – FIG. 1

Before initial startup and at regular intervals, check the blade assembly is secure and adjusted correctly.

To adjust the depth of cut between 0 and 2.0mm rotate the depth regulation knob (8) accordingly.

8.2 BLADES

This planer is equipped with double edged H.S.S. blades. For optimal long term performance, periodically check the condition of the blades and, if necessary replace them.

Note: Further instructions for adjusting or replacing the blades can be found in chapter 10.1 – Blade Replacement/Adjustment on page 14.

Only use perfectly sharpened blades!

Only use recommended blades and blade holders.

8.3 ATTACHING THE PARALLEL GUIDE – FIG. 2

The optional parallel guide (16) is fitted with an adjustable width setting, useful for greater control and accuracy when planing and is secured to the body of the planer via the attachment knob (14).

8.4 ATTACHING THE REBATING DEPTH GUIDE – FIG. 3

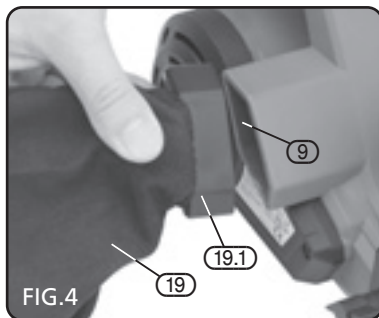
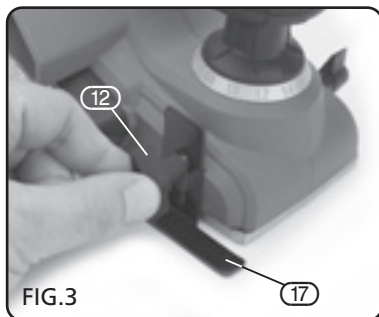
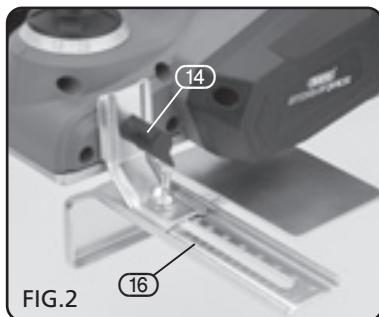
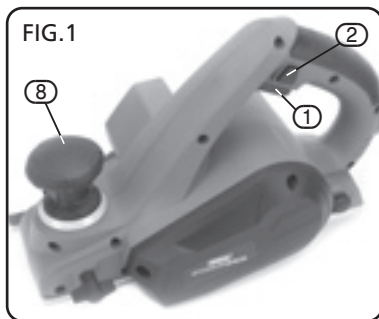
The rebating guide (17) is secured to the body of the planer via the attachment knob (12).

8.5 FITTING THE DUST EXTRACTION BAG – FIG. 4

Inhalation of dust particles can be detrimental to health. For this reason a dust extraction bag (19) has been provided and must be used with the machine at all times.

Warning! All wood dust (including dust from composites like chipboards and fibreboards, etc.) is hazardous to health; it can affect the nose, the respiratory system and the skin. For example MDF (medium density fibreboard) which contains formaldehyde is a known carcinogen. In addition to the above measure a correctly fitted dust mask, suitable for the activity and in accordance to the relevant standard, must be worn. For work activities involving exposure to the fine wood dust, a mask rated to at least FFP2 should be used.

The dust bag (19) is fitted to the planer via the plastic collar (19.1) which slides onto the dust outlet port (9).



9. OPERATING THE PLANER

9.1 STARTING THE PLANER – FIG. 5

The on/off switch (1) is fitted with a safety button (2) so that it is not possible to start the planer by accident. To start the planer, press the safety button (2) then depress the on/off switch (1).

IMPORTANT: Before using the machine on any work or scrap pieces of timber, let the blade run for a few minutes to observe for vibration etc.

Wait for the cutter to stop before settling the tool down. An exposed cutter may engage the surface leading to possible loss of control and serious injury.

9.2 GENERAL PLANING OPERATIONS – FIG. 6

Place the front sole plate on the workpiece. With the depth set, start the planer and allow the blades to run to full speed. Move the machine across the workpiece, ensuring the pass is smooth, even and gentle to obtain the optimum cut.

Note: Moving the planer too fast or backwards will cause the machine to bounce and produce a poor finish.

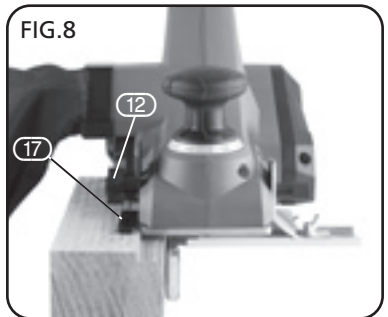
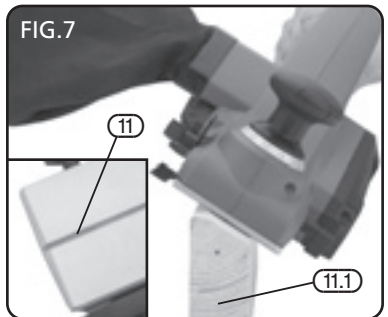
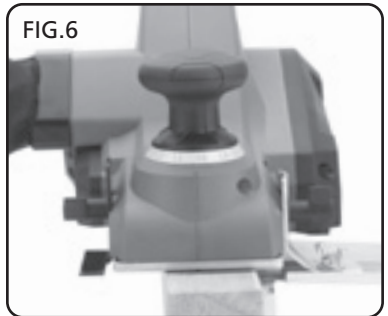
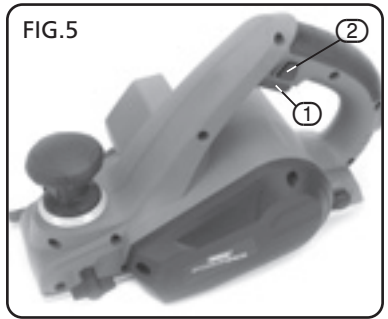
9.3 CHAMFERING EDGES – FIG. 7

The V-groove (11) in the front sole plate is used for chamfering. Place the planer with the V-groove on the edge of the workpiece (11.1), push the planer slowly and evenly forward along the edge.

9.4 REBATING – FIG. 8

Set the rebate depth guide (17) and secure with the locking knob (12).

– Begin cutting.

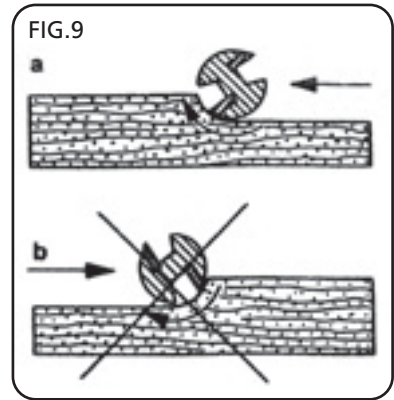


9. OPERATING THE PLANER

9.5 DIRECTION OF ADVANCEMENT – FIG. 9

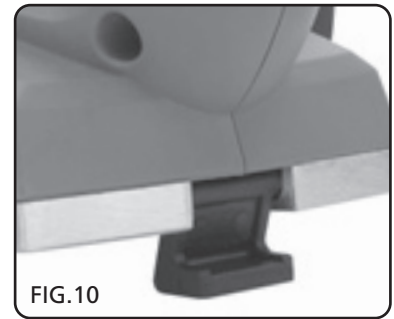
The planer advancement direction should always be as shown.

The roller rotation direction is indicated by an arrow on the belt cover.



9.6 FOOT PARK – FIG. 10

Prevents damage to the work surfaces when setting planer down. Fold down lug to ensure planer stands proud of surface.



9.7 IMPROPER USE

The functions and use of this planer are those exclusively indicated in this manual.

Wait for complete run-down before putting the tool aside.

Replacement blades are available from your local Draper stockist.

Important: The blades must always be reversed or replaced as a pair.

10. MAINTENANCE

10.1 BLADE REPLACEMENT/ADJUSTMENT – FIGS. 11 – 14

Note: only use sharp blades.

Switch off the power supply and disconnect the mains lead before carrying out any maintenance operations.

Warning! The blades are extremely sharp, so care must be taken at all times.

Using the supplied blade spanner (18), loosen the bolts (10.1) which will release the tension on the blade. When the blade is loose slide it out.

Loosen the two grub screws (10.3) (Fig.12) anticlockwise until they are flush with the surface of the clamp block (10.4). Insert the new blade making sure of the correct orientation (inset fig.13) ie. **the groove down the back of the blade is NOT against the clamp block.**

Adjust the bolts to grip the blade loosely so that it stays in place, but still allowing ease of movement for setting up the blade height/level.

Adjust the front sole plate so that it is lower than the rear plate to avoid interference.

Place a straight edge across the rear sole plate (5) and cutter block.

By screwing the grub screws clockwise equally, raise the blade up gradually. Keep checking the blade height by moving the cutter block round by hand to see if the blade scrapes on the straight edge. Set the blade so that it just touches the straight edge (Fig.14). Make this check at three points across the blade to ensure a correct and equal level is achieved. When adjustment is complete, one end of the blade must be in line with the rebating side of the rear sole plate.

Warning! After having completed this operation, ensure that the blade and blade support are securely fastened in the cutter block, if not, serious accidents may occur.

Warning! Due to the forces and vibration which are experienced by the cutter block, it is recommended that a suitable thread locking compound be applied to the blade adjustment grub screws. For this reason it is also important before each use to inspect the blade set up.

FIG.11



FIG.12

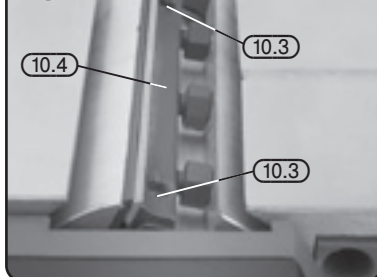


FIG.13

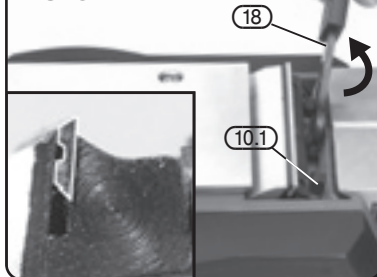
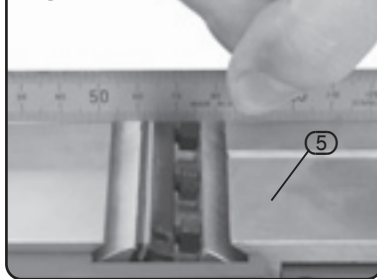


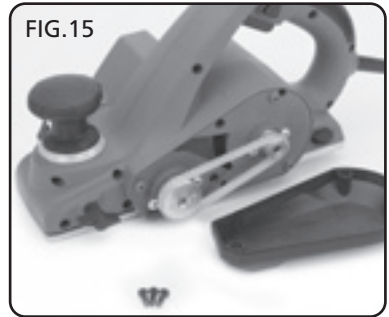
FIG.14



10. MAINTENANCE

10.2 DRIVE BELT REPLACEMENT – FIG. 15

Switch off the power supply and disconnect the mains lead before carrying out any maintenance operations. To replace the drive belt, remove cover (6) to access the belt and pulleys. Simply replace the belt and refit the cover.



11. TROUBLESHOOTING

11.1 TROUBLESHOOTING GUIDE

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

PROBLEM	POSSIBLE CAUSE	REMEDY
Motor does not start.	<ol style="list-style-type: none">1. Fuse.2. Brushes worn.3. Unsure.	<ol style="list-style-type: none">1. Replace time delay fuse or reset circuit breaker.2. Have carbon brushes replaced by an authorised service centre.3. Contact an authorised service centre.
Machine will not cut or leaves a rough finish.	<ol style="list-style-type: none">1. Blunt blades.2. Wood is wet.	<ol style="list-style-type: none">1. Replace blades†.2. Leave wood out to dry.
Loss of drive.	<ol style="list-style-type: none">1. Worn or broken drive belt.	<ol style="list-style-type: none">1. Replace belt††.
Machine does not cut to the correct depth.	<ol style="list-style-type: none">1. Blade adjustment wrong.	<ol style="list-style-type: none">1. Adjust blades.

† Replacement blades can be obtained from your local Draper stockist.

†† Replacement drive belts can be obtained from your local Draper stockist.

12. EXPLANATION OF SYMBOLS

12.1 EXPLANATION OF SYMBOLS



Warning!
Wear dust mask.



Warning!
Read the instruction manual



Warning!
Wear suitable eye/face protection.



Warning!
Wear ear defenders.



WEEE
Do not dispose of Waste Electrical
& Electronic Equipment in with
domestic rubbish



Class II construction
(Double insulated).

13. DISPOSAL

13.1 DISPOSAL

- At the end of the machine's working life, or when it can no longer be repaired, ensure that it is disposed of according to national regulations.
- Contact your local authority for details of collection schemes in your area.

In all circumstances:

- Do not dispose of power tools with domestic waste.
- Do not incinerate.
- Do not abandon in the environment.
- Do not dispose of WEEE* as unsorted municipal waste.



* Waste Electrical & Electronic Equipment.

- **DRAPER TOOLS LIMITED,**
Hursley Road, Chandler's Ford,
Eastleigh, Hampshire. SO53 1YF. U.K.
- **Help Line:** (023) 8049 4344
- **Sales Desk:** (023) 8049 4333
- **General Enquiries:** (023) 8026 6355
- **Service/Warranty Repair Agent**
For aftersales servicing or warranty repairs, please
contact the Draper Tools Help Line for details of an
agent in your local area.

YOUR DRAPER STOCKIST

RDCH0816

