

THE TOOL COMPANY

600W ORBITAL JIGSAW

■ STOCK No. 64430

■ PART No. PT680V

• INSTRUCTIONS •

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



GENERAL INFORMATION

This manual has been compiled by Draper Tools and is an integrated part of the power tool equipment, which should be kept with the machine.

This manual describes the purpose for which this tool has been designed and contains all the necessary information to ensure its correct and safe use. We recommend that this manual is read before any operation of the machine, before performing any kind of adjustment to the machine, and prior to any maintenance tasks. By following all the general safety instructions contained in this manual, it will ensure both machine and operator safety, together with longer life of the tool itself.

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

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



600W ORBITAL JIGSAW

■ STOCK No.64430. ■ PART No.PT680V.

THE TOOL COMPANY

CONTENTS:	Page No.
Contents/Declaration of Conformity	1
Specification/Guarantee	2
Power Supply/Wiring Diagram	3
General Safety Instructions for Power Tools	4
Getting to Know Your Jigsaw	5
Operation and Use	6,7
Maintenance and Parts Replacement	8
Optional Accessories	9



THE TOOL COMPANY
We

DECLARATION OF CONFORMITY

Draper Tools Ltd. Hursley Road, Chandler's Ford, Eastleigh, Hampshire.
SO53 1YF. England.

Declare under our sole responsibility that the product:

Stock Nos:- 64430.

Part Nos:- PT680V.

Description:- Orbital Jigsaw.

To which this declaration relates is in conformity with the following directive(s)
98/37/EC & 89/336/EEC.

With reference to: EN50144-1, EN50144-2-10, EN55014-1, EN61000-3-2, EN61000-3-3 &
EN55014-2.

JOHN DRAPER
Managing Director

13/06/2001

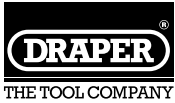


SPECIFICATION

The Draper Tools policy of continuous improvement determines the right to change specification without notice.

Part No.	PT680V
Stock No.	64430
Input	600W
Cutting capacities at 90°	
Wood	80mm
Mild steel	10mm
Speed (no load)	500-2900rpm
Noise pressure level	87.8db(A)
Noise power level	100.8db(A)
Vibration level	3.9m/s ²
Weight	2.3kg.

WEAR A DUST MASK, GOGGLES AND EAR PROTECTION.



GUARANTEE - DOMESTIC DIY POWER TOOLS

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 any fault, please return the complete tool to your nearest distributor or contact Draper Tools Limited, Hursley Road, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF. England. Telephone: (023) 8026 6355.

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. The guarantee period covering parts/labours 12 months 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, accident, or repairs attempted or made by any personnel other than the authorised Draper warranty repair agent.

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.

Note: This tool is intended for domestic use only.

POWER SUPPLY

CONNECTING YOUR MACHINE TO THE POWER SUPPLY: (230V)

To eliminate the possibility of an electric shock your machine has been fitted with a BS approved, non rewirable moulded plug and cable which incorporates a fuse, the value of which is indicated on the pin face of the plug. Should the fuse need to be replaced an  approved BS1362 fuse must be used of the same rating, marked thus . The fuse cover is detachable, never use the plug with the cover omitted. If a replacement fuse cover is required, ensure it is of the same colour as that visible on the pin face of the plug (i.e. red). Fuse covers are available from your Draper Tools stockist. If the fitted plug is not suitable, it should be cut off and destroyed. *The end of the cable should now be suitably prepared and the correct type of plug fitted. See below.

*WARNING:

A plug with bare flexible wires exposed is hazardous if engaged in a live power socket outlet.

WARNING: THIS APPLIANCE IS DOUBLE INSULATED.

Blue – Neutral, Brown – Live.

As these colours 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 the letter 'N' or coloured black or blue.

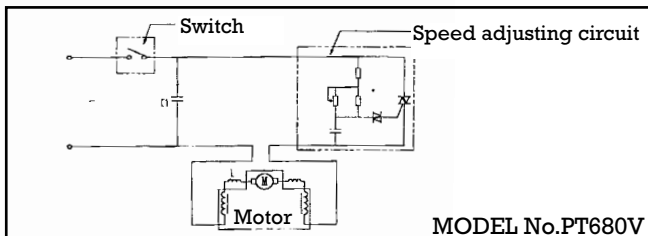
The wire which is coloured brown must be connected to the terminal which is marked with the letter 'L' or coloured red or brown.

EXTENSION LEAD CHART:

Extension lead sizes shown assure a voltage drop of not more than 5% at rated load of tool.

Ampere rating (on Name plate)	3	6	10	13
Extension cable length	Wire Size mm ²			
7.5M	0.75	0.75	1.0	1.25
15M	0.75	0.75	1.0	1.5
22.5M	0.75	0.75	1.0	1.5
30M	0.75	0.75	1.25	1.5
40M	0.75	0.75	1.5	2.5

WIRING DIAGRAM



GENERAL SAFETY INSTRUCTIONS FOR POWER TOOLS

WARNING

Please read the following instructions carefully, failure to do so could lead to serious personal injury.

IMPORTANT

Draper Tools Limited recommends that this machine should not be modified or used for any application other than that for which it was designed. If you are unsure of its relative applications do not hesitate to contact us in writing and we will advise you.

1. **KNOW YOUR POWER TOOL**

Read and understand the owner's manual and labels affixed to the tool. Learn its application and limitations as well as the specific potential hazards peculiar to this tool.

2. **KEEP WORK AREA CLEAN**

Cluttered areas and benches invite accidents. Floors must not be slippery due to oil or sawdust.

3. **AVOID DANGEROUS ENVIRONMENTS**

Do not use power tools in damp or wet locations, or expose them to rain. Keep work area well lit. Provide adequate space surrounding the work area. Do not use in environments with a potentially explosive atmosphere.

4. **KEEP CHILDREN AWAY**

All visitors should be kept a safe distance from work area.

5. **STORED TOOLS**

When not being used, all tools should be stored in a dry, locked cupboard or out of the reach of children.

6. **WEAR PROPER CLOTHING**

Do not wear loose clothing, neckties or jewellery (rings, wristwatches) to catch in moving parts. NONSLIP footwear is recommended. Wear protective hair covering to contain long hair. Roll long sleeves above the elbow.

7. **USE SAFETY GOGGLES (Head Protection)**

Wear CE approved safety goggles at all times. Normal spectacles only have impact resistant lenses, they are NOT safety glasses. Also, use face or dust mask if application is dusty and ear protectors (plugs or muffs) during extended periods of operation.

8. **NOISE LEVELS**

Some types of machines may have high noise levels when working. In such cases ear protection must be worn.

9. **VIBRATION LEVELS**

Hand held power tools produce different vibration levels. You should always refer to the specifications and relevant Health and Safety guide.

10. **DUST EXTRACTION**

If your tool is fitted with a dust extraction fitting, always ensure that it is connected and being used with a dust extractor. Vacuum cleaners can be used if suitable for the material being extracted.

11. **PROTECT YOURSELF FROM ELECTRIC SHOCK**

When working with power tools, avoid contact with any earthed items (e.g. pipes, radiators, hobs and refrigerators, etc.). If you are using a power tool in extreme conditions (e.g. high humidity or generating metal dust), always use an RCD (residual current device) at the power socket.

12. **STAY ALERT**

Always watch what you are doing and use common sense. Do not operate a power tool when you are tired or under the influence of alcohol or drugs.

13. **WHEN WORKING OUT OF DOORS**

Only use extension leads designed for that purpose.

14. **ACCESS TO MAINS SOCKET**

If a stationary machine is fitted with a moulded plug and cable, the machine should not be positioned so that access to the mains socket is restricted.

15. **DISCONNECT POWER TO THE TOOL**

When not in use, before servicing and when changing accessories such as cutters, etc.

16. **AVOID ACCIDENTAL STARTING**

Make sure the switch is in the OFF position before plugging the machine into the power supply.

17. **NEVER LEAVE MACHINE RUNNING UNATTENDED**

Turn power off. Do not leave machine until it comes to a complete stop.

18. **DO NOT ABUSE THE CORD**

Never carry the tool by the power cable or pull it from the socket. Keep the power cable away from heat, oil and sharp edges.

19. **NEVER STAND ON TOOL**

Serious injury could occur if the tool is tipped or if the cutting tool is accidentally contacted. Do not store materials above or near the tool, so that it is necessary to stand on the tool to reach them.

20. **CHECK DAMAGED PARTS**

Check for damage to parts, breakage of parts, mountings and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced.

21. **KEEP GUARDS IN PLACE**

And in working order.

22. **MAINTAIN TOOLS WITH CARE**

Keep tools sharp and clean for the best and safest performance. Follow instructions for lubricating and changing accessories. All extension cables must be checked at regular intervals and replaced if damaged. Always keep the hand grips on the tool clean, dry and free of oil and grease.

23. **USE RECOMMENDED ACCESSORIES**

Consult the owners manual for recommended accessories. Follow the instructions that accompany the accessories. The use of improper accessories may cause hazards.

24. **REMOVE ADJUSTING KEYS AND WRENCHES**

Form a habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.

25. **SECURE WORK**

Use clamps or a vice to hold work. This frees both hands to operate the tool.

26. **DO NOT OVERREACH**

Keep proper footing and balance at all times.

27. **USE RIGHT TOOL**

Do not force the tool or attachment to do a job for which it was not designed.

28. **DO NOT FORCE TOOL**

It will do the job better and safer at the rate for which it was designed.

29. **DIRECTION OF FEED**

Feed work into a blade or cutter against the direction of rotation of the blade or cutter only.

30. **WHEN DRILLING OR SCREWING INTO WALLS**

Always make sure there is no danger of hitting any hidden power cables, water or gas pipes in the wall.

IMPORTANT NOTE

Residual Risk. Although the safety instructions and operating manuals for our tools contain extensive instructions on safe working with power tools, every power tool involves a certain residual risk which can not be completely excluded by safety mechanisms. Power tools must therefore always be operated with caution!

GETTING TO KNOW YOUR JIGSAW

Fig.1



Fig.1

- | | |
|---------------------------------|---------------------------|
| 1. Adjustable protective screen | 8. Speed regulator |
| 2. Rating plate | 9. Blade |
| 3. Hand grip | 10. Switch locking button |
| 4. On/Off switch | 11. Blade securing screw. |
| 5. BS moulded plug & cable | 12. Orbital regulation |
| 6. Adjustable angle base | 13. Hex Key |
| 7. Dust extraction adaptor | 14. Dust outlet port. |

OPERATION AND USE

IMPORTANT:

Make sure that the mains voltage matches the voltage stated on the machines rating plate.

THE SWITCH WITH HOLDING BUTTON:

The machine is set to operation by pressing the handle switch (A) (Fig.2). To use continuously squeeze trigger (A), press button (B) and hold in. Release trigger (A). Release button (B), the machine will continue to run. To stop the machine squeeze trigger (A), button (B) will automatically release.

SPEED REGULATION:

Depending on the application the rotation speed can be varied by turning the knurled button (C), (Fig2.).

NOTE: The rotation speed is dependent upon the pressure applied during working. Do not overload the machine.

IMPORTANT: Given the special shape of the body, these machines can be operated with only one hand, but for reasons of safety it is strongly advised to keep both hands on the machine during use.

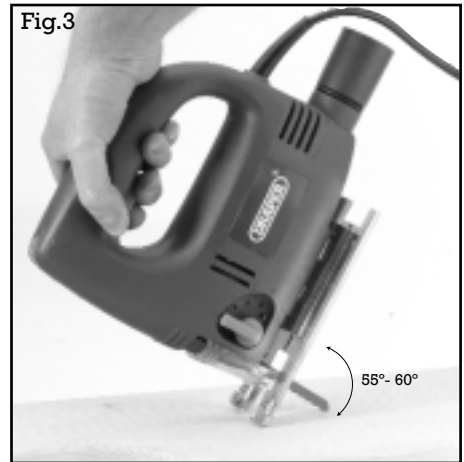
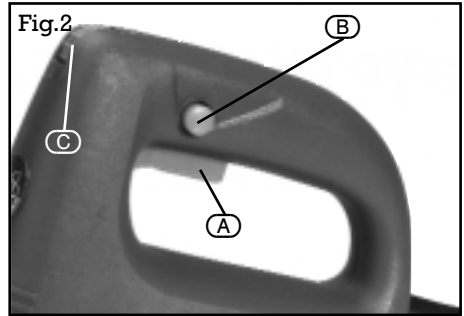
INTERNAL CUTS

A hole must be drilled in the material, in order to provide a starting point for the saw blade. Alternatively the saw blade can be directly inserted into the material (only for wood work pieces). **This operation should only be performed by operators with considerable work experience and with short blades only.**

With the machine running at full speed the saw blade should be rested on the work piece at an angle of 55°-60° (Fig.3) in relation to the front edge of the base, it should then be pressed, slowly and carefully, onto the material.

The first phase of the operation should be undertaken with great care: sudden counter-strokes and overloads during contact between the blade and work piece, or excessively rapid penetration of the material, can provoke blade breakage.

This method of starting an internal cut should only be carried out at maximum speed and maximum orbital action.

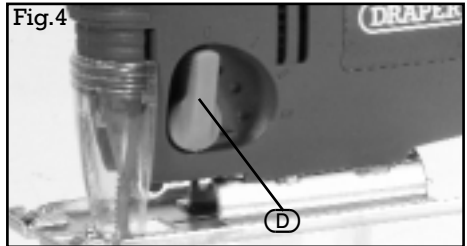


OPERATION AND USE

ORBITAL MECHANISM ADJUSTMENT

The orbital mechanism provides blade pendulum motion with improved cutting and higher work speed per material.

To adjust the pendulum, use control (D) (Fig.4). At "0" there is no swivel. Change of setting can be carried out with the machine in motion.



ANGLE CUTS (Fig 5.)

To work with angled cuts Fig.5, loosen screws (E), and slide the base (F) backwards. This allows you to position the base freely. When in position slide the base forwards so the teeth lock it in place. Then retighten screws (E).

When using the dust extraction slide the protection screen (G) (fig.7) into the down position. This provides better air flow around the blade assisting the dust removal.

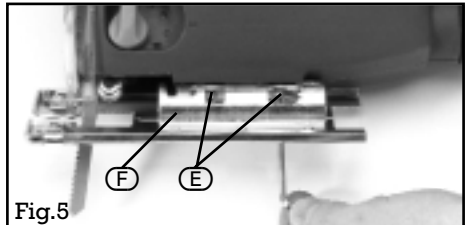
Draper Tools recommends that the dust extraction facility is used in conjunction with a suitable vacuum cleaner, see Fig.6.

(Recommended Draper Stock No.64674).

IMPROPER USE

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

ALWAYS DISCONNECT FROM THE POWER SUPPLY BEFORE CLEANING OR MAINTAINING YOUR JIGSAW.



OPERATION & USE

SAW BLADE FITTING AND REMOVAL

Loosen the screws (H) Fig.7 with the hexagon key supplied, through the protective screen (G), this will enable the blade (J) to be pulled free. Insert a new blade and tighten the screws (H). For replacement blades refer to the optional accessories (page.9) or The Draper Tools Catalogue.

The machine is supplied ready for use, the only operation necessary is the insertion of the blade and set the base into the correct position and tighten.

During cutting operations, make sure that the base is always resting on the work piece.

When cutting metals it is advised to spread a few drops of oil on the cutting line.

Sheets should always be rested on sufficiently stable supports (chip-board or plywood tables). In this manner dragging is avoided and the elasticity of the material is compensated for.

During use, make sure that the power supply cable does not impede working operations or come into contact with the tool.

Small work pieces should be securely clamped in order that they remain in position during working operations (for example: fix in position with a clamp).

PARALLEL GUIDE (OPTIONAL ACCESSORY)

To fit the parallel guide (K) (not supplied) slide through the pressing in the base to the required distance, tighten screws to secure. This is to be used as a guide. Make practice cuts in a piece of scrap timber first.

Fig.7

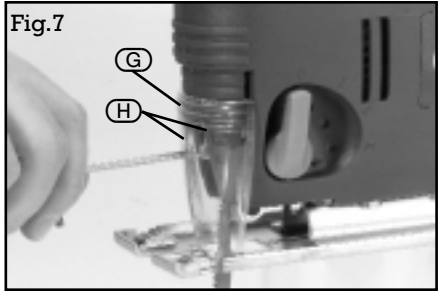


Fig.8



MAINTENANCE AND PARTS REPLACEMENT

Regular inspection and cleaning reduces the necessity for maintenance operations and will keep your tool in good working condition. The tool bearings and gears are life-long lubricated. The motor must be correctly ventilated during tool operation. For this reason avoid blocking the air inlets with hands. After use disconnect the tool from the power supply and clean carefully, use compressed air through ventilation slots.

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 the standard regulations of the country in which it is being used, and that the disposal operation is carried out by specialised personnel following authorised guidelines. In all circumstances:

- Do not abandon in the environment;
- Do not dispose of together with solid urban waste products;
- Contact the special recycling centres.

WARNING – Disconnect the plug from the power supply socket before replacing any parts.

REPLACING THE POWER SUPPLY CABLE

Check that the power supply cable is in good condition, if not have it replaced by an authorised person.



OPTIONAL ACCESSORIES

SAW BLADES

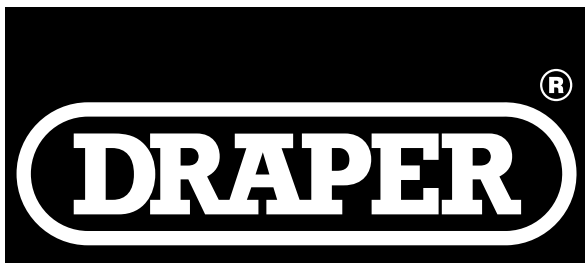
PART No	STOCK No	CUTTING LENGTH	TPI	APPLICATION
JSB1	54039	62mm	12	Hard and softwoods plywood and plastics.
JSB2	54040	62mm	6	Hard and softwoods (ideal for curves).
JSB3	54041	45mm	12	Hard and softwoods (ideal for tight curves).
JSB4	54042	62mm	8	Hard and softwoods (ideal for tight curves).
JSB5	54043	62mm	8	Aluminium, copper, Tin plastics and asbestos sheet. (Soft nonferrous metals).
JSB6	54044	62mm	24	Mild steel, nonferrous metals, and plastics.

CUTTING GUIDE

PART No.	STOCK No.	DESCRIPTION
YPT560/680V	64584	Parallel Guide



<h1>NOTES</h1>



THE TOOL COMPANY

DRAPER TOOLS LIMITED,

Hursley Road, Chandler's Ford, Eastleigh, Hants. SO53 1YF. U.K.

Helpline: (023) 8049 4344.

Sales Desk: (023) 8049 4333.

General Enquiries: (023) 8026 6355.

Fax: (023) 8026 0784.



<http://www.draper.co.uk>

e-mail: sales@draper.co.uk

YOUR DRAPER STOCKIST

©Published by Draper Tools Ltd.
No part of this publication may be reproduced,
stored in a retrieval system or transmitted in
any form or by any means, electronic, mechanical
photocopying, recording or otherwise without prior
permission in writing from Draper Tools Ltd.