



Stock No.05635 Part No.DA25/1851C

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





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.





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SPECIFICATION

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

Stock No. Part No.	DA25/1851C
Rated Voltage	110V
Rated Input	1100W (1.5HP)
Rated Input Current	10A
Revolutions Per Minutes (no load)	2,850min-1
Maximum Working Pressure	116PSI/8Bar
Air Displacement	6.3cfm/179L/min
Free Air Delivery	4 3cfm/123L/min
rice All Delivery	
Vessel:	7.56110 125011111
Vessel: Capacity	24 Litre
Vessel: Capacity Adopted Corrosion Allowance (C)	24 Litre 0.5mm
Vessel:	24 Litre 0.5mm
Vessel: Capacity Adopted Corrosion Allowance (C) Actual Thickness Ingress Protection	24 Litre 0.5mm 25mm 27
Vessel: Capacity Adopted Corrosion Allowance (C) Actual Thickness Ingress Protection Sound Pressure Level	24 Litre 0.5mm 2.5mm IP20 79.0dB(A)
Vessel: Capacity Adopted Corrosion Allowance (C) Actual Thickness Ingress Protection Sound Pressure Level Sound Power Level	
Vessel: Capacity Adopted Corrosion Allowance (C) Actual Thickness Ingress Protection Sound Pressure Level	
Vessel: Capacity Adopted Corrosion Allowance (C) Actual Thickness Ingress Protection Sound Pressure Level Sound Power Level	

†A-Weighted Sound Power Level in accordance to 2000/14/EC

WARNING: Always wear safety goggles and ear defenders.



GUARANTEE

Draper air tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship for 6 months from the date of purchase except where tools are hired out when the guarantee period is ninety days from the date of purchase.

Should the machine develop any fault, please return the complete tool to your nearest authorized warranty repair agent or contact Draper Tools Limited, Chandler's Ford, Eastleigh, Hampshire, SO53 1YF. England. Telephone (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 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 persons other than the authorized 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 variation of its terms are not authorized.

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.





POWER SUPPLY

Note: Ensure a 110V plug is fitted by a qualified electrician.

This appliance is Class I[†] 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 instructions supplied with the extension lead.

†Earthed $\stackrel{L}{=}$: This product requires an earth connection to protect against electric shock from accessible conductive parts in the event of a failure of the basic insulation.

IMPORTANT:

On products exceeding 2000W it is recommended that the power cable and/or extension cable are fully unwound before a connection is made to the power supply. However, ensure the residual cable does not pose a trip hazard





GENERAL SAFETY INSTRUCTIONS

⚠ WARNING: When using electric tools basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury including the following. Read all these instructions before attempting to operate this product and save these instructions.

Safe operation

Keep work area clear

Cluttered areas and benches invite injuries.

2. Consider work area environment

- Do not expose tools to rain.
- Do not use tools in damp or wet locations.
- Keep 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 other persons 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, tool should be stored in a dry 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 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 is 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 cord 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 tools with care

- Keep cutting tools sharp and clean for better and safer performance.
- Follow instruction for lubricating and changing accessories
- Inspect tool cords periodically and if damaged have them repaired by an authorised service facility.
- Inspect extension cords periodically and replace if damaged.
- Keep handles dry, clean and free from oil and grease.

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.

Remove adjusting keys and wrenches

 Form 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 "off" position when plugging in.

18. Use outdoor extension leads

 When the 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 and do not operate the tool when you are tired.

20. Check damaged parts

- Before further use of 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 authorized service centre.
- Do not use the tool if the switch does not turn it on and off.

21. Warning

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

22. Have your tool repaired by a qualified person

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





GENERAL SAFETY INSTRUCTIONS

MARNING:
Please read the following instructions carefully, failure to do so could lead to serious personal injury. When using electric tools, basic safety precautions, including the following, should always be followed to reduce the risk of fire, electric shock and personal injury. Read all these instructions before operating this product and save these instructions.

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.

- Learn how to stop the compressor in the event of an emergency.
- Ensure the mains voltage is compatible with the voltage listed on the compressors rating plate.
- Before attempting to carry out any servicing or maintenance operations, remove the plug from the socket and purge all air from the reservoir.
- Never stop the compressor using the mains switch or removing the plug from the socket. Always use the pressure switch.
- After maintenance operations ensure all parts are correctly fitted before running through the set-up procedure.

- Always wear ear defenders when in proximity to the compressor.
- Keep compressors and associated tools out the reach of children. Keep animals and children out of the work area.
- WARNING: Avoid contact with moving parts and components prone to high temperatures.
- Do not operate the compressor near flammable materials or dangerous environments.
- Do not attempt to transport or move the compressor with the reservoir under pressure.
- Prior to each use inspect the compressor fully.
- Do not attempt to operate the compressor with damaged, faulty or missing components. Replace components immediately with genuine Draper parts.
- Do not expose to rain or moisture.
- Do not operate the compressor with the air inlet filter missing.
- Do not connect an air hose with a flow rate lower than that of the
- Do not use the compressors at temperatures below 0°C or exceeding 45°C
- Do not alter or adjust any safety devices



ADDITIONAL SAFETY INSTRUCTIONS

ADDITIONAL SAFETY INSTRUCTIONS FOR SAFETY

- Information: The safety valves are designed and constructed for use exclusively with compressed air, free from impurities. The materials used in construction are suitable for operating the valve at the rated pressure and temperatures. The Viton or NBR gasket conserves the resistance characteristics, even in prolonged use. The valve caulking impedes calibration modification; tampering with the valve and/or changing the constructor's calibration is forbidden.
- Installation: Valve installation must be performed exclusively by technically prepared persons, who are responsible and in good health. Checking the integrity of the valve before installation is obligatory. Also, check that the valve pressure is no greater than the operating pressure of the tank or of the system to protect. Check that the discharge flow rate of the valve is greater than the quantity of the air to discharge. The safety valve must be positioned directly on the tank in a vertical position, in a dry, accessible place protected against the weather and far away from liquids or condensation. It must be positioned so as to have sufficient space all around for correct air discharge, without causing damage to persons and/or things. The valve rod must therefore be free in its movement when discharging. The connection between the valve and the part to be protected must be free from all kinds of choking and be as short as possible so as not to reduce the discharge flow rate of the valve itself. The connection passage area must be greater than the valve orifice area. During installation, screw on the valve with a torque spanner using the hexagonal part of the body. Apply a maximum torque of 30Nm, paying attention not to cause any deformation; using pincers, pliers, hammers or tools other than a hexagonal spanner is forbidden. Check that the inlet hole and the shutter are not blocked by glue, teflon or similar materials that could bind the shutter or other functional components. If the value is replaced, the compressor air contained in the system must be discharged first. We decline all responsibility for damage caused to persons and/or things due to failure to observe these instructions.
- Maintenance and inspection: The valve must not be subjected to knocks which may cause deformities. It is obligatory for qualified technicians to make sure that the safety valve functions correctly at least once a year. Valves equipped with a ring must be tested while pressurised to between 80-90% of the calibration value. Pull the ring and release immediately. During the test the valve must definitely open and discharge the air and re-close immediately when the ring is released. It is absolutely necessary to carry out this procedure with the utmost caution because this type of job can be dangerous if adequate safety measures are not taken; wear goggles, a head set and anything else necessary to protect against noise, jets of air, etc. which may be discharged from the valve.

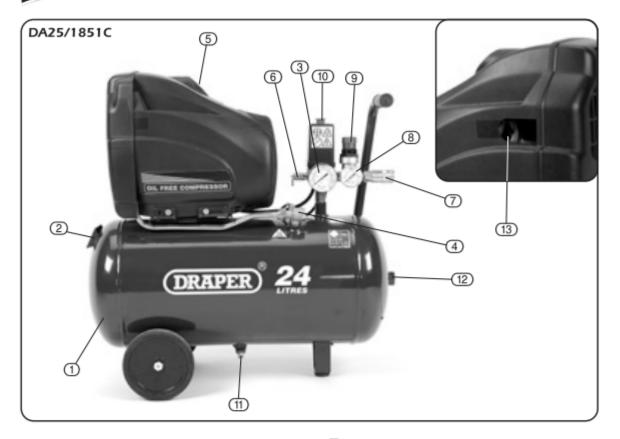
ADDITIONAL SAFETY INSTRUCTIONS FOR PRESSURE

- This pressure tank is mainly intended for static use. It can only be charged with natural air within temperature and pressure limits as specified on the manufacturer's plate and declaration of conformity
- 2. Ensure that tank safety and control devices are efficient and flawless. When replaced, the tank should not be under pressure.
- Drain the condensate off the tank every day.
- Check for signs of inner corrosion at regular intervals. Tank walls should have a minimum thickness of 1.0mm (DA6/1850J/2.0mm (DA25/1850).
- Any kind of welding to this tank is forbidden.
- The user shall comply with laws on pressure vessel operation in force in the country in which the tank is operated.
- The construction is mainly effected for permanent load by internal pressure. Cyclic loads are not considered, only for a range of 10% PS.





GETTING TO KNOW YOUR OIL FREE AIR COMPRESSOR



- 25 litre reservoir tank.
- Tank rating plate.
- 3 Tank pressure gauge.
- (4) Non-return valve.
- 6 Air inlet filter.
- 6 Safety valve.
- 7 Air line coupling.

- (8) Line pressure gauge.
- Line pressure regulator.
- (10) Pressure switch.
- (11) Reservoir condensate drain bung.
- (12) Tank outlet (sealed).
- (13) Overload protection reset switch.
- SCOPE: This compressor has been designed and built for intermittent duty applications.
 Although the compressor is equipped with an overload cut-out, Draper Tools recommend the compressor duty cycle never exceeds 50% and that continuous operation never exceeds 15 minutes.
 - In addition to pneumatic tools the compressor may be connected to a variety of other tools intended for washing, spraying and blowing.
- UNPACKING: After removing the packing material, make sure the product is in perfect
 condition and that there are no visible damaged parts. If in doubt, do not use the product
 and contact the dealer from whom it was purchased.
 - The packaging materials (plastic bags, polystyrene, etc.), must be disposed of in an appropriate refuse collection container. These materials must not be left within the reach of children as they are potential sources of danger.





ASSEMBLY

Upon receipt of the compressor, ensure all components are present and have remained undamaged in transit.

Retain the packing materials and packaging in case future transportation of the compressor is necessary. We recommend that the packaging is kept, at least within the period of the guarantee.

DA25/1850C

WHEELS AND ANTI-VIBRATION FOOT

Pass the 15mm bolt through the wheel, the compressor's frame and secure with the 15mm nut. Press the rubber anti-vibration foot into position.

- Positioning
 - In order to ensure proper air flow to the ventilation grills ensure the compressor is at least 50cm from any obstacles which may impede air from flowing correctly.
- Wiring the plug
 This unit is designed only to be used with 110 Volts. Do not fit a 3 pin 13amp plug as it will
 damage the unit. A 110 Volt plug must be fitted by a qualified electrician. Before carrying out
 the electricity connection make sure that the compressor main switch is in the off position "O".





OPERATION AND USE

- ON/OFF SWITCH (Figs.1.& 2.):
- NOTE: Prior to connecting the compressor to the power supply ensure the pressure switch is in the off position.

On initial start-up open the reservoir condensate drain bung (A)†, adjust the pressure regulator (B) to the maximum pressure.

 DA6/1850 - Screw bung clockwise into tank to open valve.

DA25/1850 - Unscrew bung anticlockwise to open valve.

Pull the pressure switch (C) up to start the compressor.

Allow the machine to run for 10 minutes with the air escaping from the reservoir tank before closing the drain bung (A). Ensure the tank pressure reaches 8 bar as indicated on gauge (D) before the pressure switch shuts off the motor.

 NOTE: When the drain bung is closed the tone from the motor will change.

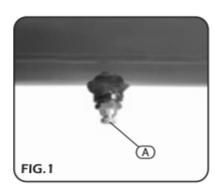
The compressor motor will automatically restart when the tank pressure drops to approx. 2 bar less than the maximum pressure.

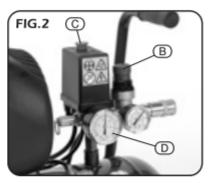
- ATTENTION: Never stop the compressor using the mains connection. Always switch off the compressor by pressing the pressure switch button down. The compressed air will be vented from the head and allowing an easy re-start.
- NOTE: During correct operation a whistle of compressed air escaping/releasing will be heard when the motor stops and a protracted whistle (approx. 20-30 seconds) when ever the compressor is started with no pressure in the tank.

OVERLOAD CUT OUT (Fig.3.):

The compressor is equipped with an overload cut out (E) which operates as a safety device to protect the motor. Should a fault occur and begin to overheat the motor the overload cut out will automatically operate, cutting power. This prevents damage occurring to the motor.

Allow 5 minutes for the machine to cool prior to attempting to reset the overload cut out (E). Press button (E). If after restarting the overload cut out is activated again, switch off the machine, disconnect the power supply and contact an authorised service agent.











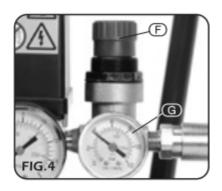
OPERATION AND USE

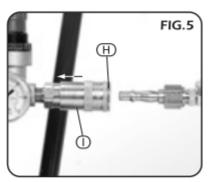
- WORKING PRESSURE ADJUSTMENT (Fig.4.):
- NOTE: For technical specifications and detailed instructions please refer to the instructions provided with the specific air tool/accessory.
 - The outlet line pressure from the tank is adjusted using regulator (F). Rotate the regulator clockwise to increase the pressure or anticlockwise to decrease. The pressure is indicated on gauge (G).
- ATTENTION: After each use set the pressure to zero to help prolong the life of the regulator and avoid damage.



The compressor comes equipped with a quick "in line" female connector (H). To insert a male connector, hold collar (1) backward. When fully inserted, release the collar. If a different style of connection is required the connector (H) can be replaced.

- NOTE: When fitting the replacement ensure the threads are sealed with PTFE† tape for an air tight union.
 - † Draper Stock No.63389.









MAINTENANCE

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

In order to maintain the compressor to it's optimum, periodical service checks must be carried out routinely. Allowances should be made to adjust the time scale for machines in occasional service with the exception of the safety valve which must be inspected by a qualified service agent every 12 months regardless of use.

AFTER THE FIRST 50 HOURS SERVICE

Ensure that all fixings have remained tight, in particularly on the head and crankcase.

- DAILY CHECKS:
 - Before every use check the airline filter/regulator/seperator. Fill the lubrication level up, empty any collected condensate and adjust the line pressure to the accessory as necessary.
 - After every use adjust the line pressure back to zero.
- WEEKLY CHECKS:
 - At least once a week the build up of condensate should be drained from the tankt.
 - [†] In the absence of a filter/regulator/separator to ensure a clean/dry lubricated air supply the condensate should be drained before each use.

Open the reservoir condensate drain bung fully before tilting the compressor to ensure all condensate is drained. Collect the moisture in a suitable container.

As the compressor is oil free the condensate will contain no lubricate/polutants so requires no special disposal.

Finally close the bung, pressurise the tank fully and switch off the compressor. Open the bung to remove any remaining condensate under pressure.

- NOTE: Ear defenders and safety goggles must be worn.
- MONTHLY CHECKS:
- Remove the foam filter to replace or clean it.
 Rinse the filter with water and soap. Make certain the element is completely dry prior to refitting.
- ATTENTION: Never attempt to run the compressor without the filter element fitted as dust or foreign bodies can enter the pump unit resulting in serious damage.

This must be carried out more frequently if the compressor is operating in a dusty environment.

The motor must be correctly ventilated during operation. For this reason avoid blocking the air inlets. After use disconnect the tool from the power supply and vacuum the ventilation slots.

If replacement of the supply cord is necessary, this has to be done by the manufacturer or his agent in order to avoid a safety hazard.







DISPOSAL OF POWER TOOLS

- 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 UK 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.



EXPLANATION OF SYMBOLS/PICTOGRAMS



Do not dispose of WEEE* as unsorted municipal waste.



Class II construction (Double insulated).

* Waste Electrical & Electronic Equipment.





TROUBLESHOOTING

PROBLEMS	POSSIBLE CAUSES	REMEDIES
Pressure drop in the tank	Air leaks at connections	Allow the compressor to reach the maximum pressure allowed. Switch it off and carefully brush a soapy water solution onto all air connections. Look carefully for air bubbles flowing out. Tighten those connections where leaks are present. If the problem is still present, contact the authorised service agent.
The pressure switch valve leaks when the compressor is idle	Non-return valve seal defective.	Contact the authorised service agent.
The compressor stopped and does not start	Overload cutout operated due to motor overheating Other	Allow to cool before attempting a re-start Contact the authorised service agent.
The compressor does not stop even though the max. pressure allowed has been reached; the safety valve operates	Incorrect operation or pressure switch faulty	Contact the authorised service agent.
The compressor does not reach the pressure and overheats	Compressor head gasket damaged or valve faulty	Contact the authorised service agent.
The compressor is noisy with metallic clangs	Bearing or seizure	Contact the authorised service agent.
Compressor will not start	Ambient temp effecting pressure switch operation	Move compressor to a warmer atmosphere and allow time to warm up prior to restart attempts





NOTES





CONTACTS

DRAPER TOOLS LIMITED,

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- Internet: www.draper.co.uk

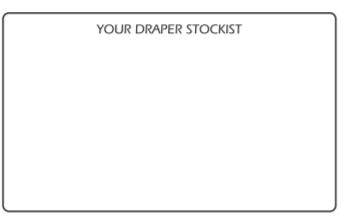
- E-mail: sales@drapertools.com

- Sales Fax: (023) 8049 4209

General Enquiries: (023) 8026 6355

Service/Warranty Repair Agent

For aftersales servicing or warranty repairs, please contact the Draper Tools Helpline for details of an agent in your local area.



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