

THE TOOL COMPANY

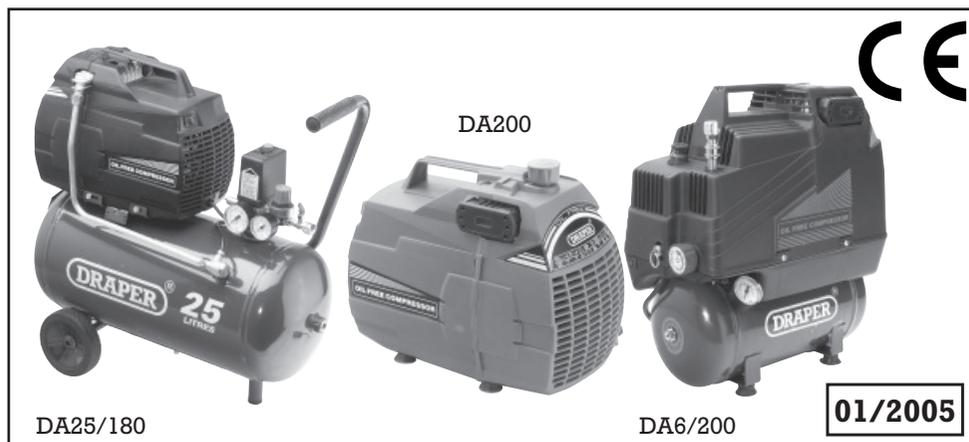
OIL FREE COMPRESSORS

■ STOCK No.30561
60607
64260
60606

■ PART No.DA200
DA6/200
DA6/201
DA25/180

• 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.



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OIL FREE COMPRESSORS

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DA6/200
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DECLARATION OF CONFORMITY

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

Declare under our sole responsibility that the product:

Stock Nos:- 30561, 60606, 60607 & 64260.

Part Nos:- DA200, DA25/180, DA6/200 & DA6/201.

Description:- Compressor Oil-Free.

To which this declaration relates is in conformity with the following directive(s)
98/37EC, 89/336/EEC, 97/23/EC, 2000/14/EC & 87/404/EEC (87/404/EEC DA25/200 & DA25/180 only).

With reference to EN1012-1:1996, EN60204-1:1997, EN50081-1:1992, EN50082-2:19995 & EN60335-1:1994

JOHN DRAPER
Managing Director

24/12/2005



SPECIFICATION

Stock No.	30561	60607	60606	64260
Part No.	DA200	DA6/200	DA25/180	DA6/201
Air displacement	7.1cfm (200 L/min)	7.1cfm (200 L/min)	6.3cfm (179 L/min)	7.1cfm (200 L/min)
Free air delivered (FAD)	4.9cfm (138 L/min)	4.9cfm (138 L/min)	4.3cfm (123 L/min)	4.9cfm (138 L/min)
Motor	1.5kW (2.0HP) 230V/A.C.	1.5kW (2.0HP) 230V/A.C.	1.1kW (1.5HP) 230V/A.C.	1.5kW (2.0HP) 230V/A.C.
Speed	2850rpm	2850rpm	2850rpm	2850rpm
Maximum pressure	116 PSI (8 bar)	116PSI (8 bar)	116 PSI (8 bar)	116 PSI (8 bar)
Number of cylinders	1	1	1	1
Receiver capacity	-	6 litres	25 litres	6 litres
Weight	9.5kg	14kg	18.5kg	14kg
*Sound pressure level	78dB(A)	78dB(A)	80dB(A)	78dB(A)
*Sound power level	95dB(A)	95dB(A)	95dB(A)	95dB(A)



GUARANTEE (Hand held professional electric power tools)

Draper hand held professional electric power tools have been carefully tested and inspected before shipment and are guaranteed to be free from defective materials and workmanship for a period of 12 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 where warranty applies, arrangements will be made for the tool to be returned free-of-charge to the Service Centre at Draper Tools Limited.

Please contact: **DRAPER HELPLINE – (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 the product will be repaired and tested as soon as possible free of charge, normally within five working days. 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 by any personnel other than the Service Centre at Draper Tools Limited or other authorised agent.

Note: If the tool is found not to be within the Terms of Warranty, repair 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 produce a dated receipt or invoice to verify your proof of purchase within the 12 month period.

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

Draper Tools Limited.

POWER SUPPLY

CONNECTING THE COMPRESSOR TO THE POWER SUPPLY:

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 MUST BE EARTHED.

Green and Yellow - Earth, 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 green and yellow must be connected to the terminal in the plug which is marked with the letter 'E' or by the earth symbol  or coloured green or green and yellow.

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.

N.B. Three phase machines must be connected by a qualified electrician.

CONNECTING YOUR MACHINE TO THE POWER SUPPLY (110V)

To eliminate the possibility of an electric shock your machine has been fitted with a BS approved, rewirable plug and cable. If the fitted plug is not suitable, it should be removed, the end of the cable should be suitably prepared and the correct type of plug fitted. See below.

WARNING: THIS APPLIANCE IS DOUBLE INSULATED.

Single phase 110 volt machines must be connected using the relevant coding and matching the colour of the flexible cable to that of the plug. The procedure is as follows:

1. Connect brown coloured core to plug terminal marked letter 'L' (live).
2. Connect blue colour core to plug terminal marked letter 'N' (neutral).

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
45m	0.75	1.25	1.5	2.5

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 !

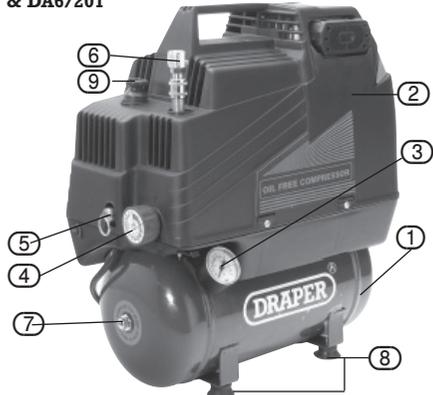
GETTING TO KNOW YOUR AIR COMPRESSOR

DA200



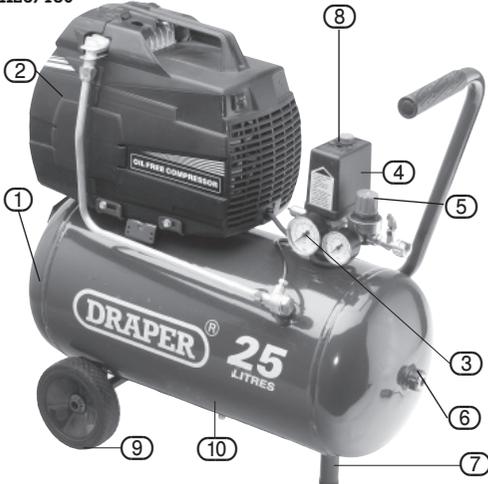
- ① HANDLE.
- ② COWLING- covers, protects hot/moving parts.
- ③ PRESSURE REGULATOR- adjusts output air pressure.
- ④ AIR OUTLET CONNECTOR.
- ⑤ FEET.
- ⑥ ON/OFF SWITCH

**DA6/200
& DA6/201**



- ① AIR RECEIVER- stores air.
- ② MOTOR COWLING- covers, protects hot/moving parts.
- ③ PRESSURE GAUGE- indicates receiver air pressure.
- ④ PRESSURE REGULATOR- adjusts output air pressure.
- ⑤ SAFETY VALVE.
- ⑥ AIR OUTLET VALVE.
- ⑦ INSPECTION PLUG.
- ⑧ FEET.
- ⑨ ON/OFF SWITCH.

DA25/180



- ① AIR RECEIVER- stores air.
- ② MOTOR COWLING- covers, protects hot/moving parts.
- ③ PRESSURE GAUGE- indicates receiver air pressure.
- ④ PRESSURE REGULATOR- adjusts output air pressure.
- ⑤ AIR OUTLET VALVE.
- ⑥ INSPECTION PLUG.
- ⑦ FOOT.
- ⑧ ON/OFF SWITCH.
- ⑨ WHEEL.
- ⑩ DRAIN COCK.

COMPRESSOR OPERATION

Connect the compressor to the power supply.
Always turn on and off by the appropriate switch.

TURNING ON AND OFF (DA6/200/DA6/201, DA25/180, DA25/200 - NOT DA200): THE ON/OFF SWITCH.

(A) Fig.1. is located on the top of the pressure switch box.

These compressors are controlled by a pressure switch assembly (B) Fig.2. which automatically cuts off the power supply to the motor when the upper limit is reached and restarts the compressor automatically when the pressure drops below the minimum.

TURNING ON AND OFF (DA200 ONLY):

This compressor is operated by a manual on/off switch (F) Fig.4. and NOT by an automatic pressure switch as fitted to the other compressors shown in this booklet.

WARNING (DA6/200/DA6/201, DA25/180, DA25/200):

The pressure switch is set at the factory and the compressor is also fitted with a safety valve in the event of the pressure switch not functioning correctly.

SETTING THE REQUIRED AIR PRESSURE:

DA25/180, DA25/200

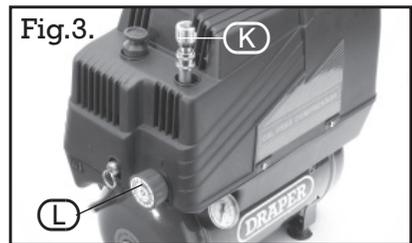
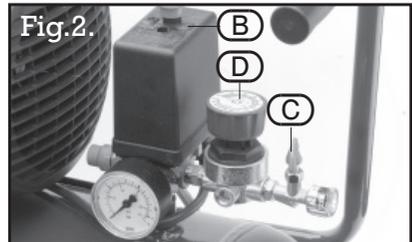
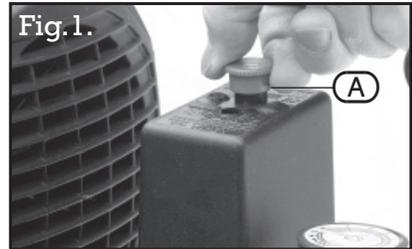
Close the air outlet valve (C) Fig.2. and adjust pressure by turning the knob on the pressure regulator valve (D) Fig.2. clockwise to increase pressure. Should it be necessary to decrease pressure open the the air outlet valve (C) Fig.2. slightly and then turn the pressure regulator valve knob (D) anticlockwise, re-close air outlet valve (C).

DA200

This compressor is fitted with a pressure regulator unit (G) Fig.4. so the pressure may be regulated as necessary. To increase the pressure turn the knob clockwise, to decrease the pressure turn the knob anticlockwise.

DA6/200

Close the air outlet valve (K) Fig.3. and adjust pressure by turning the knob on the pressure regulator valve (L) Fig.3. clockwise to increase pressure. Should it be necessary to decrease pressure open the the air outlet valve (K) Fig.3. slightly and then turn the pressure regulator valve knob anticlockwise, re-close air outlet valve.



IMPORTANT:

Before performing any maintenance operations, disconnect the compressor from the power supply and release all the air from the receiver, until the pressure gauge reads zero.

EVERY DAY:

Drain the condensate from the receiver. The drain (H) Fig. 5. is situated on the underside of the receiver tank for the DA25/200, DA25/180 and on the end of the tank for the DA6/200.

EVERY MONTH:

Clean the air suction filter using compressed air. Replace the filter every 50 hours of use.

EVERY 100 HOURS:

Clean all the external surfaces of the pump unit and motor. Ensure that neither the motor fan cowl (J) or head cooling fins are blocked or obstructed in any way. See Fig.6.

EVERY 200 HOURS:

Check the condition of the valves and replace them if they are damaged or worn.

PRESSURE SWITCH SETTINGS (DA6/200, DA6/201, DA25/180, DA25/200):

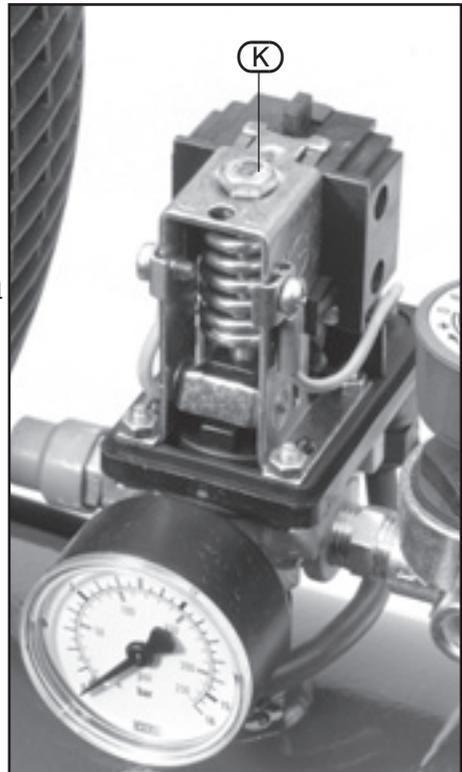
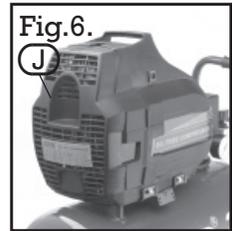
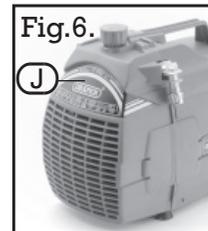
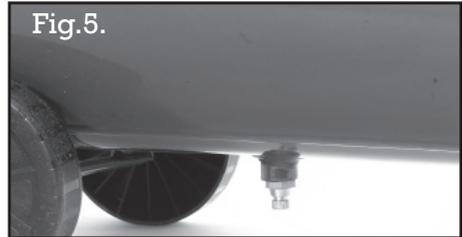
The delivery pressure setting can drift over a period of time and will require periodic adjustment. Ensure that the pressure switch settings are correctly adjusted and maintained at the correct level. This will help prevent faults occurring which can result in reduced performance and possible failure.

PRESSURE SWITCH ADJUSTMENTS (DA6/200, DA6/201, DA25/180, DA25/200):

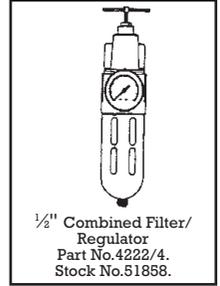
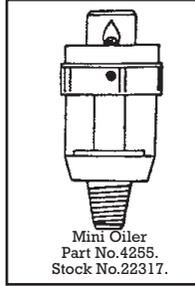
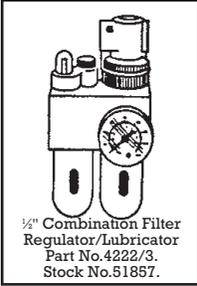
To adjust the pressure level at which the cut-out and cut-in functions, remove the switch cover and turn the pressure regulating screw (K) clockwise to increase the level and anticlockwise to decrease the level. See Fig.7.

WARNING:

DO NOT ADJUST THE CUT-OUT PRESSURE ABOVE THE MAXIMUM PRESSURE AS PER THE MACHINE SPECIFICATION.



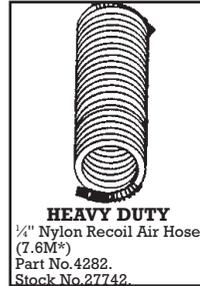
COMPRESSOR OPERATION



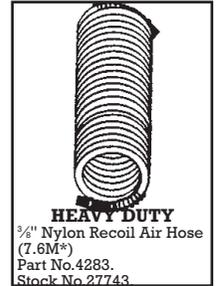
*overall length



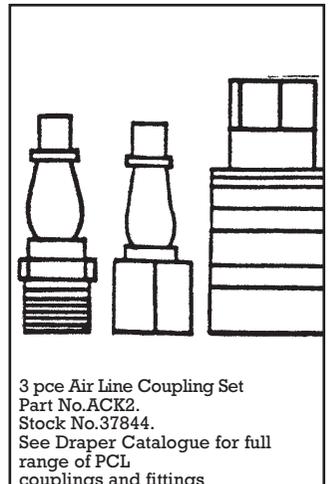
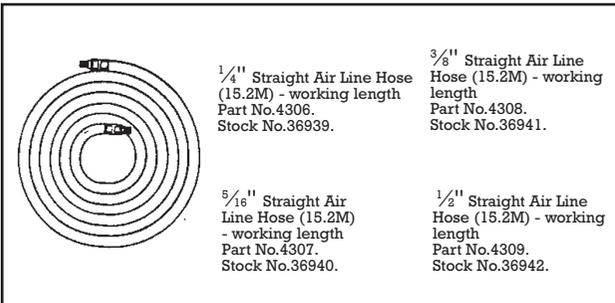
*overall length



*working length



*working length





TROUBLE SHOOTING GUIDE

SYMPTONS	POSSIBLE CAUSES
Compressor will not start.	Power acble faulty. No power source. Fuse blown. Circuit breaker open. Motor thermal overload faulty. Pressure switch faulty.
Thermal overload trips.	Pressure switch failure/ motor overload
Sudden loss of pressure when compressor shuts off.	Loose connections. Safety valve leaking. Faulty pressure regulation valve.
Noisy operation (knocking).	Bearing failure.
Air blowing from inlet	Broken inlet valve(s).
Low air output.	Kinked hose. Connections leaking. Intake filter dirty.
Excessive belt wear (where fitted).	Belt too loose/tight. Pulley and flywheel misaligned.
Moisture in air output	Caused by humidity. Move to an area of less humidity. Drain condensate.
Compressor runs continuously.	Defective pressure switch.

IMPORTANT: PLEASE NOTE ALL REPAIRS/ADJUSTMENTS SHOULD BE CARRIED OUT BY A QUALIFIED PERSON. SHOULD THE MACHINE REQUIRE TRANSPORTING TO A REPAIR AGENT, ENSURE IT IS WELL PROTECTED AGAINST DAMAGE IN TRANSIT.

DRAPER HELPLINE (023) 8049 4344



NOTES



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.

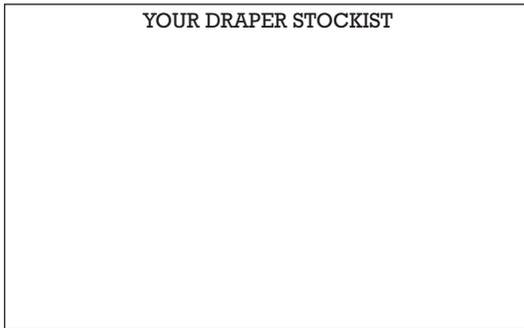
Fax: (023) 8026 0784.



www.draper.co.uk

e-mail: sales@drapertools.com

YOUR DRAPER STOCKIST



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