


Thank you for purchasing a Sealey product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance.

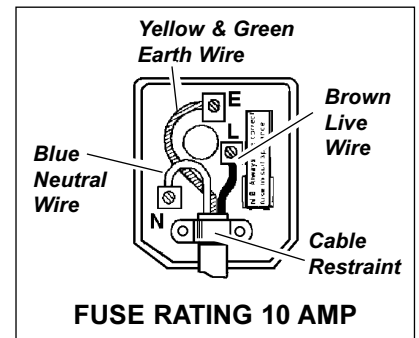


**IMPORTANT: PLEASE READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS, AND CAUTIONS. USE THIS PRODUCT CORRECTLY, AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY.**

### 1. SAFETY INSTRUCTIONS

#### 1.1 ELECTRICAL SAFETY

- **WARNING!** It is the responsibility of the owner and the operator to read, understand and comply with the following:  
You must check all electrical products, before use, to ensure that they are safe. You must inspect power cables, plugs, sockets and any other connectors for wear or damage. You must ensure that the risk of electric shock is minimised by the installation of appropriate safety devices. A Residual Current Circuit Breaker (RCCB) should be incorporated in the main distribution board. We also recommend that a Residual Current Device (RCD) is used. It is particularly important to use an RCD with portable products that are plugged into a supply which is not protected by an RCCB. If in any doubt consult a qualified electrician. You may obtain a Residual Current Device by contacting your Sealey dealer.  
You must also read and understand the following instructions concerning electrical safety.
- 1.1.1 The Electricity at Work Act 1989 requires that all portable electrical appliances, if used on business premises, are tested by a qualified electrician, using a Portable Appliance Tester (PAT), at least once a year.
- 1.1.2 The Health & Safety at Work Act 1974 makes owners of electrical appliances responsible for the safe condition of those appliances and the safety of the appliance operators. If in any doubt about electrical safety, contact a qualified electrician.
- 1.1.3 Ensure that the insulation on all cables and on the appliance is safe before connecting it to the power supply. See 1.1.1 and 1.1.2 and use a Portable Appliance Tester.
- 1.1.4 Ensure that cables are always protected against short circuit and overload.
- 1.1.5 Regularly inspect power supply cables and plugs for wear or damage and check all connections to ensure that none is loose.
- 1.1.6 Important: Ensure that the voltage marked on the appliance matches the power supply to be used and that the plug is fitted with the correct fuse - see fuse rating at right.
- 1.1.7 DO NOT pull or carry the appliance by the power cable.
- 1.1.8 DO NOT pull the plug from the socket by the cable.
- 1.1.9 DO NOT use worn or damaged cables, plugs or connectors. Immediately have any faulty item repaired or replaced by a qualified electrician. When a BS 1363/A UK 3 pin plug is damaged, cut the cable just above the plug and dispose of the plug safely.  
Fit a new plug according to the following instructions (UK only).
  - a) Connect the GREEN/YELLOW earth wire to the earth terminal 'E'.
  - b) Connect the BROWN live wire to the live terminal 'L'.
  - c) Connect the BLUE neutral wire to the neutral terminal 'N'.
  - d) After wiring, check that there are no bare wires, that all wires have been correctly connected, that the cable outer insulation extends beyond the cable restraint and that the restraint is tight. Double insulated products, which are always marked with this symbol , are fitted with live (brown) and neutral (blue) wires only. To rewire, connect the wires as indicated above - DO NOT connect either wire to the earth terminal.
- 1.1.10 Products which require more than 13 amps are supplied without a plug. In this case you must contact a qualified electrician to ensure that a suitably rated supply is available. We recommend that you discuss the installation of an industrial round pin plug and socket with your electrician.
- 1.1.11 If an extension reel is used it should be fully unwound before connection. A reel with an RCD fitted is preferred since any appliance plugged into it will be protected. The cable core section is important and should be at least 1.5mm<sup>2</sup>, but to be absolutely sure that the capacity of the reel is suitable for this product and for others which may be used in the other output sockets, we recommend the use of 2.5mm<sup>2</sup> section cable.



#### 1.2 GENERAL SAFETY

- **WARNING!** Ensure that all relevant Health and Safety, Local Authority, Control of Substances Hazardous to Health (COSHH) and General Workshop Practice Regulations are strictly adhered to when using this equipment.
- ✓ Familiarise yourself with the applications, limitations and hazards peculiar to the dust free vacuum system.
- **WARNING!** Disconnect dust free vacuum system from mains power and air supply before changing accessories, servicing or performing maintenance.
- ✓ Maintain the dust free vacuum system in good condition (use an authorised service agent).
- ✓ Replace or repair damaged parts. Use recommended parts only. Unauthorised parts may be dangerous and will invalidate the warranty.
- ✓ Locate dust free vacuum system in a suitable work area. Keep area clean and tidy and free from unrelated materials. Ensure there is adequate lighting.
- **WARNING!** Ensure correct air pressure is used, maintained, and not exceeded for the sander attachment.
- ✓ The air supply should be adequate for a minimum of 10.6cfm free air delivery to the sanding tool. There should be a minimum of 13cfm free air delivered to the air inlet of the dust free vacuum system. We recommend the use of a 3HP (or more) compressor.
- ✓ Air supply must be delivered through a 3/8" internal diameter air hose. If you use a 5/16" internal diameter the performance of the tool may suffer.
- ✓ Keep air hose away from heat, oil and sharp edges. Check air hose for wear before each use, and ensure that all connections are secure.
- ✓ Before each use check attached tool for condition. If worn or damaged replace immediately.
- **WARNING!** The maximum wattage of any electrical tool operated from the dust free vacuum system must not exceed 1200 watts.
- ✓ Ensure there are no flammable or combustible materials near the work area.
- **WARNING!** Always wear appropriate approved eye, face, mask, ear defenders, or protective clothing according to task being undertaken.
- ✓ Keep hands and body clear of the sanders working parts when operating the dust free vacuum system.

- ✓ Keep children and unauthorised persons away from the working area, and DO NOT allow untrained persons to operate the dust free vacuum system.
- ✗ DO NOT use the dust free vacuum system for any purpose other than that for which it is designed.
- ✗ DO NOT pull or yank the electrical leads, air hoses or vacuum extraction hoses attached to the dust free vacuum system.
- ✗ DO NOT get the dust free vacuum system wet or use in damp or wet locations.
- ☐ **WARNING!** DO NOT use the dust free vacuum system to vacuum combustible, poisonous or toxic, materials, including acids, solvents and asbestos.
- ✗ DO NOT operate the dust free vacuum system when you are tired or under the influence of alcohol, drugs or intoxicating medication.
- ✗ DO NOT leave the dust free vacuum system operating unattended.
- ✓ Ensure the system is regularly emptied and the filter is cleaned. Failure to do so may damage the unit and invalidate your warranty.
- ✓ When not in use turn the mains power supply off and ensure the air supply is turned off.
- ☐ **WARNING!** Ensure you turn the air supply off before detaching the air hose from the vacuum system.
- ✓ Dispose of waste products in accordance with local authority regulations.
- ✓ Store the dust free vacuum system in a safe, dry, childproof area.

## 2. INTRODUCTION & SPECIFICATION

Your system consists of a high quality industrial vacuum cleaner with an automatic switch which will allow you to use an air or electrical tool remotely from the dust extraction unit. When the task is complete the dust system will continue to operate for a further 10 seconds clearing remaining dust. In automatic mode the dust free vacuum system will only operate when the attached tool is operated.

Motor .....230V  
 Power .....800W - 3.5A  
 Maximum wattage of attached tool .....1200W  
 Drum volume .....20ltr

Model DFS31A is complete with sander MA150AS.  
 Model DFS31B is without sander.

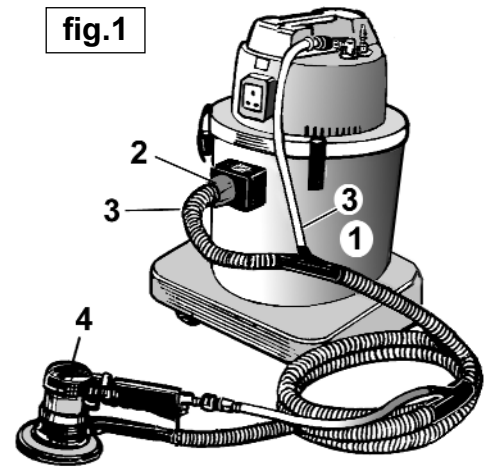
## 3. CONTENT & ASSEMBLY

### 3.1 Content.

Carefully unpack the product and check contents against the list below. Should there be any damaged or missing parts contact your supplier immediately.

1. Main body unit.
2. Connector for dust hose.
3. Combined air and dust extraction hose.
4. Air Sander Model MA150AS. (DFS31A only, not supplied with the DFS31B).

Check inside main drum to ensure there is a filter included.  
 Note: Model DFS31B consists of parts 1,2,3 and filter only.



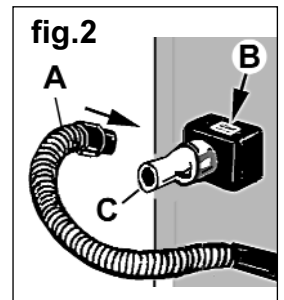
### ▲ **IMPORTANT:** See chapter 4 for details of external air supply system.

### 3.2 Assembly

Insert the hose connector (fig 2. C) into the vacuum system intake socket by depressing button (B). Releasing the button will hold the connector in place

### 3.3 Connecting an Electrically operated tool

- 3.3.1 Press the vacuum operating switch (fig 3 & fig 4.1) to the "Automatic" mode (II).
- 3.3.2 Push dust extraction hose (fig 2. A) onto the hose connector inlet tube (fig 2.C) .
- 3.3.3 Connect the other end of the extraction hose to the tool (fig 5. E).
- 3.3.4 Plug the tool's electrical cable into the vacuum system's power socket located in the system head (fig 4. 2).
- ☐ **WARNING!** DO NOT plug the tool into any electrical supply other than the vacuum system's (fig 4. 2.)
- 3.3.5 Take the vacuum system's electrical cable and plug into the mains power supply and switch the power on.
- 3.3.6 The unit is now ready for use and will automatically activate when you turn the tool on.



### 3.4 Connecting an Air operated tool

- 3.4.1 Press the operating switch (fig 3 & fig 4.1) to the "Automatic" mode (II).
- 3.4.2 Push dust extraction hose (fig 2. A) onto the vacuum systems hose connector inlet tube (fig 2.C).
- 3.4.3 Connect the other end of the extraction hose to the tool (fig 5. E).
- 3.4.4 Connect air hose into tool's air coupling (fig 5. F) and the other end into the vacuum system's air outlet coupling located in system head (fig 6. 2).
- 3.4.5 Fit an external air line system onto the vacuum system's air inlet (fig 6. 1). (see chapter 4 for air supply information) seal with a hose clip and turn the air supply on.
- 3.4.6 Take the vacuum system's electrical cable and plug into the mains power supply and switch the power on.
- 3.4.7 The unit is now ready for use and will automatically activate when you turn the tool on.

fig.3

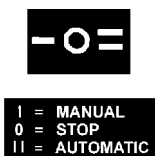


fig.4

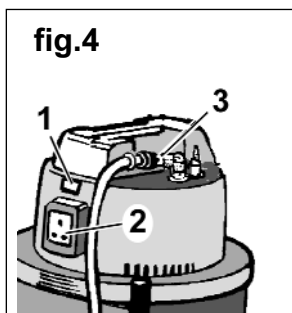


fig.5

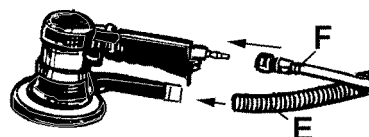
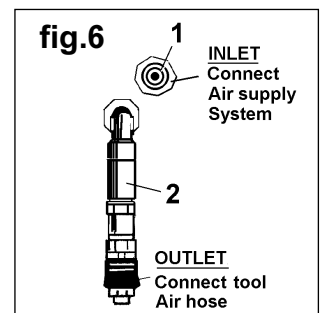


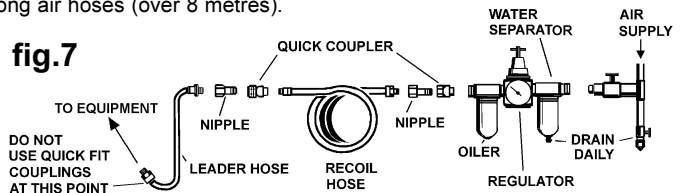
fig.6



## 4. AIR SUPPLY

The recommended hook-up procedure can be viewed in fig 7.

- ❑ **WARNING!** ensure correct air pressure is used, maintained, and not exceeded for the sander attachment.
  - ✓ Air supply should be adequate for a *minimum* of 10.6cfm free air delivery to the sanding tool. This should be a *minimum* of 13cfm free air delivered to the air inlet of the dust free vacuum system. We recommend use of a 3HP (or more) compressor to operate an air tool.
  - ✓ Air supply must be delivered through a 3/8" internal diameter air hose. If you use a 5/16" internal diameter the performance of the tool may suffer.
- 4.1 Ensure the air valve is in the "off" position before connecting to the air supply.
  - ❑ **WARNING!** Ensure the air supply does not exceed 130PSI while operating the sander. Too high an air pressure and unclean air will shorten the product life due to excessive wear, and may be dangerous causing possible damage and/or personal injury.
  - 4.2 Drain the air tank daily. Water in the air line will damage the tool.
  - 4.3 Clean the air inlet filter screen weekly.
  - 4.4 Line pressure should be increased to compensate for unusually long air hoses (over 8 metres).  
Air supply must be delivered through a 3/8" internal diameter air hose, and fittings must have the same inside dimensions.
  - 4.5 Keep hose away from heat, oil and sharp edges. Check hoses for wear, and make certain that all connections are secure.



## 5. OPERATING INSTRUCTIONS

- ❑ **WARNING!** Ensure you have read and understood and adhere to chapter 1 safety instructions. Ensure you wear the correct health and safety equipment before attempting to open the vacuum system drum and before operating the unit.

### 5.1 PREPARATION FOR USE.

- 5.1.1 Ensure that the vacuum system is unplugged from the mains power supply and the air supply.
- 5.1.2 Check that the dust collecting drum has room to accommodate the dust generated by your next task. The drum must not, however, be filled to more than 2/3rds of its capacity. (see 5.3).
- 5.1.3 Check the vacuum system and attached tools are in good working order and condition and all air and electrical connections are sound.
- 5.1.4 Check that the operating button is switched to the automatic mode (II).
- 5.1.5 Turn the electrical mains power on and the external air supply if required.

### 5.2 OPERATING THE SYSTEM

- 5.2.1 Make the operating tool ready for use and turn the tool on which will automatically activate the dust vacuum system. Whilst performing the task the vacuum system will draw the dust up into the unit.
- 5.2.2 When you turn the tool off the vacuum system will continue to operate for approximately a further 10 seconds to draw up any remaining dust.
- 5.2.3 Any dust that still remains may be collected by using the system as an ordinary vacuum cleaner. To do so, switch the operating button (fig 3) to "STOP" - "0" mode, turn off the air supply system (if connected) and remove all air hoses.
- 5.2.4 Disconnect the mains power lead and transport the vacuum system to appropriate area for use.
- 5.2.5 Plug into the mains power supply, hold the end of the dust extraction hose toward the dust and switch the operating button (fig 3) to the manual mode (I). The unit will continue to operate until you switch it off by switching the power button back to "0".

**NOTE:** A vacuum cleaning accessory kit consisting of hose, extension tubes, brush and nozzle is available. Contact your Sealey dealer for details.

### 5.3 TO EMPTY & CLEAN THE VACUUM SYSTEM

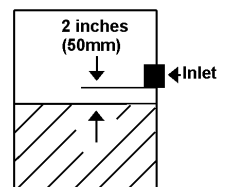
The drum may be emptied at any time as required. It is important to ensure the drum is not allowed to fill beyond a level 50mm beneath the drum vacuum inlet nozzle (fig 8).

- 5.3.1 Ensure the system is unplugged from the mains power and disconnected from air supply.
- 5.3.2 Undo the clips on the side of the vacuum system drum and remove the motor head. Gently place the motor unit in a safe, clean location and remove the drum filter and keep safe and dry. *You may find that the filter will lift out with the head, in which case carefully remove.*  
Empty the drum contents with care ensuring you continue do wear the appropriate safety items, and that the waste products are disposed of in accordance with any governing regulations.
- 5.3.3 Take the drum filter and shake it in an appropriate safe area to expel any dust particles. We recommend that the filter is cleaned after every 10 hours operation. Check to ensure the filter is in good condition and replace it into the drum. Replace the motor head with the power switch and tool plug located in line with the vacuum hose inlet. Secure with the side clips.

**NOTE:** A blocked filter may damage the motor and will invalidate your warranty.

- ❑ **WARNING!** DO NOT operate the system without a filter. Always ensure you use authorised spares, and filters. Contact your Sealey dealer for details.

fig.8



**Declaration of Conformity** We, the sole importer into the UK, declare that the product listed here is in conformity with the following standards and directives.

#### DUST FREE VACUUM SYSTEM

Models: DFS31A & DFS31B

98/37/EC Machinery Directive  
73/23/EEC Low Voltage Directive  
89/336/EEC EMC Directive  
93/68/EEC Marking Directive



The construction file for this product is held by the Manufacturer and may be inspected, by a national authority, upon request to Jack Sealey Ltd.

Signed by Mark Sweetman

15th April 2005

For Jack Sealey Ltd.  
Sole importer into the UK  
of Sealey Power Products.

**NOTE:** It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice. **IMPORTANT:** No liability is accepted for incorrect use of this equipment. **WARRANTY:** Guarantee is 12 months from purchase date, proof of which will be required for any claim. **INFORMATION:** For a copy of our latest catalogue and promotions call us on 01284 757525 and leave your full name and address, including postcode.



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