

US Sander LLC

DJ1200 HEPA DUST CONTAINMENT SYSTEM

For Floor Sanding



Operates 1 sander and either an edger or a buffer*

Complete with:

Remote on - off control, 75 ft power cable, a 50 ft 2.5" hose, a 50 ft 2" hose, a 4-way wye adapter, a 1.5" to 2" hose adapter, a 10 ft 1.5" hose and adapters to connect to a sander and an edger.

* For optimum performance. Acceptable results can sometimes be obtained with additional machines attached.

Operator's Manual

LIBRO DE INSTRUCCIONES
MANUEL D'UTILISATION

READ THIS BOOK

CAUTION: Read the Operator's Manual before using the Dust Collection System.

This book has important information for the use and safe operation of this machine. Failure to read this book prior to operating or attempting any service or maintenance procedure to your US Sander's Dust Collection System could result in injury to you or to other personnel; damage to the machine or to other property could occur as well. You must have training in the operation of this machine before using it. If your operator cannot read English, have this manual explained fully before attempting to operate this machine.

Si Ud. o sus operadores no pueden leer el Inglés, se hagan explicar este manual completamente antes de tratar el manejo o servicio de esta máquina.

LISEZ CE MANUEL

ATTENTION: Lire le manuel d'utilisation avant de faire fonctionner l'appareil.

Il contient des informations importantes pour une utilisation correcte de la machine, en toute sécurité. Lisez-le complètement avant de mettre la machine en marche ou d'effectuer un entretien. A défaut, vous risqueriez de vous blesser ou de blesser d'autres membres du personnel, d'endommager sérieusement la machine ou de provoquer des dégâts dans son environnement. Avant de se servir de la machine, il est indispensable d'avoir reçu une formation. Si vous-même (ou l'opérateur) ne parlez pas français, veuillez demander (ou lui fournir) toutes les explications nécessaires. Des versions du manuel existent en d'autres langues.

Toutes les indications de direction figurant dans ce manuel sont visualisées depuis la position du conducteur, à l'arrière de la machine.

CUIDADO: Lea el Libro de Instrucciones antes de usar este aparato.

Contiene información importante para el uso y funcionamiento correcto y seguro de la máquina.

Lea este libro completamente antes de arrancar la máquina o hacer cualquier operación de mantenimiento. Si no sigue las instrucciones, corre el peligro de herirse o causar lesiones al personal, o causar daños importantes a la máquina o a su entorno. Antes de usar la máquina, es indispensable seguir una formación. Si Usted (o el operador) no habla español, solicite (o proporciónese) todas las informaciones necesarias. El libro está traducido en otros idiomas.

Todas las indicaciones de dirección dadas en este libro están dadas desde la posición del operador en la parte de atrás de la máquina.

WARRANTY AND RETURNS

US Sander LLC warrants The DS01 Dust Collection System to be free of defects from workmanship and materials for a period of 1 year from the date of original purchase by the original owner. This warranty is extended only to the original purchaser for use of the product. It does not cover normal wear parts such as electrical cable or hoses or remote control.

This warranty does not apply to defects due directly or indirectly to misuse, abuse, negligence or accidents, lack of maintenance, or to repair or alterations made or specifically authorized by anyone other than US Sander LLC.

US Sander LLC will repair or replace, at its option, the dust collection system or machine part which in normal use has proven to be defective, provided that the original owner returns the product prepaid to the US Sander factory service center or authorized repair facility designated by our Esperance, NY office, with proof of their purchase of the product within 1 year, and provides US Sander LLC, Inc. reasonable opportunity to verify the alleged defect through inspection. If it is determined there is no defect, or that the defect resulted from causes not within the scope of US Sander LLC's warranty, then the original owner must bear the cost of storing and returning the product. This is US Sander LLC's sole written warranty and any and all warranties that may be implied by law, including any merchantability or fitness, for any particular purpose, are hereby limited to the duration of this written warranty. We do not warrant that the machinery complies with the provisions of any law or acts. In no event shall US Sander LLC's liability under this warranty exceed the purchase price paid for the product, and any legal actions brought against US Sander LLC shall be tried in the State of New York, County of Schoharie. We shall in no event be liable for death, injuries to persons or property or for incidental, contingent, special or consequential damages arising from the use of our products. Every effort has been made to ensure that all the machinery meets high quality and durability standards. We reserve the right to change specifications at any time because of our commitment to continuously improve the quality of our products. The system may not function correctly when connected to more than 2 machines, using the triple wye. Extending the hose lengths may also decrease performance.

MACHINE SPECIFICATIONS

Motor Size.....	4 - 300 cfm vacuum motors
Voltage	240 Volts 50 OR 60 HZ
Amps.....	35 amp ¹
Phase.....	Single Phase
Suction Cap	580 CFM max ²
Water lift.....	110 in.H ₂ O max ²
Prefilter Size.....	60 sq.ft., 1040 cfm rated
HEPA filter	935 cfm, 99.97%efficiency @ 0.3micron
Hose size, edger.....	2" x 50' crushproof with swivel cuffs
Hose size, sander.....	2.5" x 50' wire reinforced w/ swivel disconnect
Hose, cyclone.....	4" wire reinforced
Power cord.....	75' Cord + 25' Splitter box ³
Remote control.....	Wireless remote on/off switch included
Wheels.....	12" x 3" nonmarking rubber
Assembled Size	25" wide x 48" long x 67" high
Barrel Size	30 gallon
Weight of vacuum, barrel & cyclone	190 lbs

System comes with a double wye. Using optional triple wye may decrease performance.

¹ Maximum current draw. Actual current during use will be lower.

² Results from testing assembled unit in a contained environment. Actual values may vary.

³ See page 15 for more info on using splitter box

SAFETY FIRST!

READ MANUAL BEFORE OPERATING MACHINE FAILURE TO FOLLOW INSTRUCTIONS BELOW WILL RESULT IN PERSONAL INJURY

WARNING!

NEVER LEAVE DUST BAG or BARREL UNATTENDED WITH DUST INSIDE THE BAG! A FIRE CAN START! DUST CAN BE EXPLOSIVE.



-Indicates an imminently hazardous situation which, if not avoided, WILL result in death or serious injury.



-Indicates a potentially hazardous situation which, if not avoided, COULD result in death or serious injury.



-Indicates a potentially hazardous situation which, if not avoided, MAY result in minor or moderate



injury. It may also be used to alert against unsafe practices.

-This symbol is used to alert the user to useful information about proper operation of the equipment.



Never leave dust bag unattended with sanding dust in it. Sanding dust can spontaneously ignite and cause a fire or explosion. Empty dust bag into a metal container, clear of any combustibles. Do not empty content into a fire. Do not overfill dust bag. Do not leave dust in a plastic bag.



: Failure to read the Owner's Manual prior to operating or attempting any service or maintenance procedure to your Dust collection system could result in injury to you or to other personnel; damage to the machine or to other property could occur as well. You must have training in the operation of this machine before using it. **If you cannot read English, have this manual explained fully before attempting to operate this machine.**



Sanding/finishing wood floors can create an environment that can be explosive. The following safety procedures must be adhered to:

- Cigarette lighters, pilot lights and any other source of ignition can create an explosion when active during a sanding session. All sources of ignition should be extinguished or removed entirely if possible from the work area.
- Work areas that are poorly ventilated can create an explosive environment when certain combustible materials are in the atmosphere, i.e., solvents, thinners, alcohol, fuels, certain finishes, wood dust and other combustible materials. Floor sanding machines can cause flammable material and vapors to burn. Read the manufacturer's label on all chemicals used to determine combustibility. Keep the work area well ventilated.
- Spontaneous combustion or an explosion can occur when working with sanding dust. The sanding dust can ignite and cause injury or damage. Sanding dust should be disposed of properly. Always empty the sanding dust into a metal container that is located outside of any building(s). Wetting the dust with water will reduce fire hazard.
- Remove the contents of the dust bag when the bag is 2/3 full. Remove the contents of the dust bag each time you finish using the machine. Never leave a dust bag unattended with sanding dust in it.
- Do not empty the contents of the dust bag into a fire.
- Hitting a nail while sanding can cause sparks and create an explosion or fire. Always use a hammer and punch to countersink all nails before sanding floors.

⚠️ DANGER

Operating a machine that is not completely or fully assembled could result in injury or property damage. Do not operate this machine until it is completely assembled. Keep all fasteners tight. Keep adjustments according to machine specifications.

DANGER: Do not operate the top section when removed from the lower section. The vacuum inlets will be exposed, allowing hands or loose clothing to be drawn into the fans resulting in serious personal injury.

DANGER: Electrocutation could occur if the machine is used on a power circuit that repeatedly trips or is undersized. Have a licensed electrician check the fuse, circuit breaker or power supply.

DANGER: Electrocutation could occur if maintenance and repairs are performed on a unit that is not properly disconnected from the power source. Disconnect the power supply before attempting any maintenance or service.

DANGER: Electrocutation could occur if machine is used on ungrounded electrical circuit. Never remove or disable the grounding supply conductor on the electrical cord. Consult an electrician if the grounding conductor is missing or if you suspect your circuit is not grounded properly.

DANGER: Use of this machine with a damaged power cord could result in an electrical shock. Do not use the machine if the power cord is damaged. Do not use the electrical cord to move the machine.

DANGER: Electrocutation or injury could occur if the power cord is run over or damaged by the sander. Keep the cord free from under the machine to avoid contact with the sandpaper. Always lift the power cord over the machine. Keep sander cords and sanders properly grounded.

DANGER: Moving parts of this machine can cause serious injury and/or damage. Keep hands, feet and loose clothing away from all moving parts of the sander. Disconnect machine from the power source before changing the abrasive, emptying the dust bag, or performing any maintenance. Do not operate unless all covers and guards are in place. Never leave machine unattended while motor is running or connected to power source.

DANGER: Empty dust pan on machine before leaving unattended. Empty dust bag before leaving unattended.

⚠️ WARNING

WARNING: Failure to read and observe all safety statements found on your machine or in this Owner's Manual can result in serious injury or damage. Read and observe all safety statements. Make sure that all labels, decals, warnings, cautions, and instructions are fastened to the machine. Get new labels from your authorized US Sander distributor.

WARNING: Sanding dust can be airborne and can be breathed in while operating a sander. Always wear a dust mask while operating sanding equipment.

WARNING: Injury to the eyes and/or body can occur if protective clothing and/or equipment is not worn while sanding. Always wear safety goggles, protective clothing, and a dust mask while performing any sanding operation.

WARNING: Bodily injury could occur if power is applied to the machine with the power switch already in the "ON" position. Always check to assure that the power switch is in the "OFF" position before applying power to the power cable.

WARNING: Any alterations or modifications of this machine could result in damage to the machine or injury to the operator or other bystanders. Alterations or modifications not authorized by the manufacturer voids any and all warranties and liabilities.

WARNING: Do not put any object into openings. Do not use with any opening blocked; keep free of dust, lint, hair and anything that may reduce air flow.

WARNING: Keep hair, loose clothing, fingers, and all parts of body away from openings and moving parts.

WARNING: The following materials must not be picked up with the machine: Hot materials (glowing cigarettes, hot ashes, etc.); Inflammable, explosive or aggressive fluids (e.g. gasoline, solvents, acids, alkalines, etc.); Inflammable, explosive dusts (e.g. magnesium or aluminum dust, etc.), Water or other liquids.

WARNING: Do not use without dust barrel and filters in place. Use the machine only with an undamaged filter element.

WARNING: Never spray the top section of the machine with water. Can cause danger to persons or danger of short circuits. Do not operate when wet or in the rain.

WARNING: This machine is not suitable for picking up health endangering dust unless originally manufactured with a HEPA rated filter. It is the responsibility of the user to ensure that the filter and usage procedures comply with any applicable regulations.

WARNING: This machine is on wheels. It may roll if left on an inclined surface or if pushed. Do not leave unit unattended without first blocking wheels to prevent rolling.

CAUTION: Maintenance and repairs performed by unauthorized personnel could result in damage or injury. Maintenance and repairs performed by unauthorized personnel will void your warranty. Servicing of this unit must always be referred to an authorized US Sander distributor.

CAUTION: Use of this machine to climb on could result in injury or damage. Do not use this machine as a step or furniture.

CAUTION: Damage could occur to the machine if it is not kept in a dry building for storage. Always store the machine in a dry location.

To Avoid Serious Personal Injury or Death

1. **Thoroughly read the instruction manual before operating your machine.** Learn the applications, limitations and potential hazards of this machine. Keep manual in a safe, convenient place for future reference. **INFORM OTHER PERSONS AND EMPLOYEES ABOUT MANUAL.** All users must read and understand this manual before operating this machine.
2. **Keep work area clean and well lighted.** Clutter and inadequate lighting invite potential hazards.
3. **Ground all tools.** If a machine is equipped with a three-prong plug, it must be plugged into a three hole electrical outlet or grounded extension cord. If using an adapter to aid in accommodating a two hole receptacle, ground using a screw to a known ground.
4. **Wear eye protection at all times.** Use safety glasses with side shields or safety goggles, meeting the national safety standards, while operating this machine.
5. **Avoid dangerous environments.** Do not operate this machine in wet or open flame environments. Airborne dust particles could cause an explosion and severe fire hazard.
6. **Ensure all guards are securely in place** and in working condition.
7. **Make sure switch is in the "OFF" position** before connecting power to machine.
8. **Keep work area clean;** free of clutter, grease, etc.
9. **Keep children and visitors away.** All visitors should be kept a safe distance away while operating unit.
10. **Childproof workshop** with padlocks, master switches or by removing starter keys.
11. **Disconnect machine when cleaning, adjusting or servicing.**
12. **Do not force tool.** The machine will do a safer and better job at the rate for which it was designed.
13. **Use correct tool.** Do not force machine or attachment to do a job for which it was not designed.
14. **Wear proper apparel.** Do not wear loose clothing, neck ties, gloves, jewelry, etc.
15. **Remove adjusting keys and wrenches.** Before turning the machine on, make it a habit to check that all adjusting keys and wrenches have been removed.
16. **Use proper extension cord.** When using an extension cord, make sure it is in good condition. When extension cord is 100' and less in length, use those that are rated Hard Service (grade S) or better, and that have a conductor size of 10 A.W.G. A drop in line voltage, loss of power and overheating can result when using an undersized cord. The extension cord should have a ground wire and ground plug pin, as well. Cord length over 100' voids warranty.
17. **Keep proper footing and balance** at all times.

18. **Do not leave machine unattended.** Wait until it comes to a complete stop before leaving the area. **EMPTY DUST BAGS INTO PROPER FIRESAFE CONTAINER !**
19. **Perform machine maintenance and care.** Follow lubrication and accessory attachment instructions in the manual.
20. **Keep machine away from open flame.** Operating machines near pilot lights and/or open flames creates a high risk if dust is dispersed in the area. Dust particles and an ignition source may cause an explosion. Do not operate the machine in high risk areas, including but not limited to, those mentioned above.
21. **Use ground wire** on all plastic hoses, fittings and blast gates to all machines to help reduce the occurrence of static induced fire or explosion.
22. **Vacuum must be located in a non explosive environment that is a sheltered area free from rain or water.**
23. **Do not operate** in rain or wet conditions.
24. **Do not connect power or operate** with the top cover removed or any of the electrical wiring exposed. Some electrical components have power even with the switch turned off. Always disconnect power when servicing.
25. **Do not suck in small animals.** Do not operate around small animals. They can be drawn into hoses and harmed. Cap off hoses that are not being used.

For HEPA Use

1. **Do not operate with HEPA filter removed.** If unit has been used with HEPA filter for compliance, operating with HEPA filter removed can cause cross contamination from job sites.
2. **Do not operate if HEPA filter has been damaged in any way.** Do not use a HEPA filter which does not have its serial number tag.
3. **Always wear a dust mask when handling a used HEPA filter.**
4. **Dispose of HEPA filter only in accordance with EPA regulations.**
5. **Use only a certified HEPA replacement filter.**
6. **Inspect all gaskets and seals for the HEPA filter and its mounts before every use.** Do not operate if any gasket or seal is damaged or improperly adjusted.
7. **Having the HEPA filter does not guarantee compliance with EPA or any other regulations.** Compliance with Federal, State or Local regulations is the responsibility of the end user. US Sander, LLC. does not provide any warranty or guarantee, expressed or implied, that this system meets any specifications or standards whatsoever.
8. **Do not operate if any of the warning labels are removed or missing.**
9. **Use only for the material for which the unit has been labeled.** Do not use a unit labeled for lead with asbestos or vice versa.
10. **Do not blow out or attempt to clean HEPA filter.** This can expose you to hazardous dust and will destroy the performance of the HEPA filter.
11. **Handle the HEPA filter with care.** The HEPA filter can be easily damaged. Do not use a damaged HEPA filter.

Grounding

This machine must be grounded! The electrical cord supplied with the unit does not come with a plug. Use only plugs with a ground connector. If your outlet does not accommodate a ground pin, have it replaced by a qualified electrician or have an appropriate adapter installed and grounded properly. An adapter with a grounding wire does not guarantee that the machine will be grounded. Ground source must be verified. The US Sander Dust Collector operates at 220 volts.

Extension Cords

When it is necessary to use an extension cord, use the following guidelines:

- Use cords rated for **Hard Service (grade S)** or better
- Never exceed a length of **100 feet**
- Use cords with **10 ga. wire or larger**
- Insure cord has a **ground wire and pin**
- Do not use cords in need of repair
- Do not use plugs which have been damaged
- Always ensure the **ground wire is connected**

Voltage

220V Operation

ELECTRICAL REQUIREMENTS

The motor comes prewired for 220 volt operation. Use a plug and outlet rated for at least 30 amps. The circuit for this machine must also be protected by a 30 amp circuit breaker or fuse. Keep in mind that a circuit being used by other machines or tools at the same time will add to the electrical load being applied by the Dust Collector. Add up the load ratings of all machines on the circuit. If this number exceeds the rating of the circuit breaker or fuse, use a different outlet.

Always turn off power when machine is not in use (**Fig. 1**). Do not leave machine unattended with power on.

Do not plug or unplug machine with power switch on. This will cause damage to the plug.

Main breaker



Figure 1. Turn Off Main breaker at blower and at main panel when not in use.

⚠WARNING	⚠WARNING
<p>This equipment must be grounded. Verify that any existing electrical outlet and circuit you intend to plug into is actually grounded. If it is not, it will be necessary to run a separate 10 A.W.G. copper grounding wire from the outlet to a known ground. Under no circumstances should the grounding pin from any three-pronged plug be removed. Serious injury may occur.</p>	

	⚠WARNING DO NOT investigate or adjust the machine while it is running or moving. Wait until the machine is turned off, unplugged and all working parts have come to a stop before proceeding!
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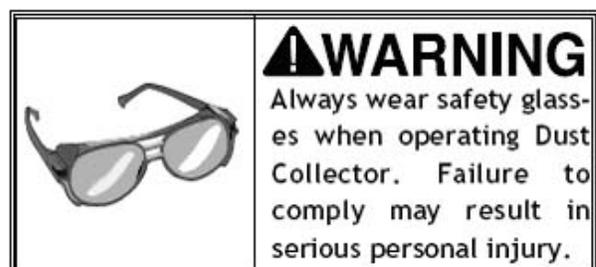
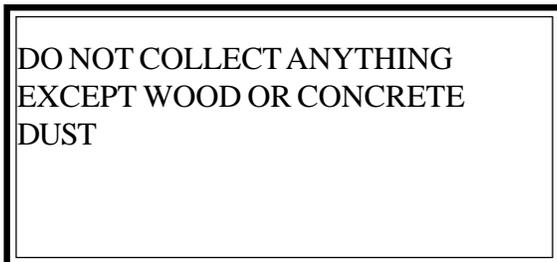
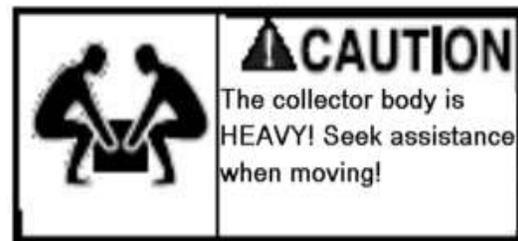
⚠WARNING	⚠WARNING
<p>This machine is run by remote control:</p> <ul style="list-style-type: none">•This unit may be accidentally activated by other R.F. transmitting devices, i.e. garage door openers, T.V. remotes, etc.•Always disconnect power before attempting any service.•Disconnect power when not in use.	

Additional Safety Instructions For Dust Collector

1. **Do not use dust collector for anything except wood or concrete dust.** Materials such as liquids, metal shavings, metal dust, screws, glass, plastic or rock can cause sparks when coming into contact with any part of the collection system.
2. **Ground your dust collector along all plastic components.** The connection of bare 12 ga. copper will help prevent static build up and discharge.
3. **Do not place your hands, lumber or tools near inlet opening while machine is running or connected to power.**
4. **Always wear a respirator and safety glasses when removing, emptying or replacing collection bags.**
5. **Be aware that certain woods may cause an allergic reaction** in people and animals, especially when exposed to fine dust. Make sure you know what type of wood dust you will be exposed to, the possibility of an allergic reaction and always wear an approved respirator. Consult the proper MSDS for more information.
6. **If at any time you are experiencing difficulties performing the intended operation, stop** using the machine! Then contact our service department or ask a qualified expert on how the operation should be performed.
7. **Never use tools that are in poor condition.** Inspect dust collector for bent fins, dents, ripped bags and unusual sounds before connecting machine to power and operating. Correct any problems before use.
8. Be mindful of any situation that may result in a risk of fire.
9. **Habits – good and bad – are hard to break.** Develop good habits in your shop and safety will become second-nature to you.



Figure 2. *Wear a respirator when changing bags.*



OPERATIONAL CONCERNS

The Dust Collector should run smoothly, with little or no vibration or rubbing noises. Strange or unnatural noises require that you turn off the machine, wait for it to stop moving, unplug the machine, investigate and correct the problem before further operation. If the source of an unusual noise or vibration is not readily apparent, contact our service department for help at 1-518 -875- 6124



Bag or Barrel Emptying

The bag on the dust collector should be emptied when it becomes 2/3 to 3/4 full. **Always wear a dust mask when removing and installing dust collection bags or emptying the barrel.**



⚠ DANGER

Never leave dust bag or barrel unattended with sanding dust in it. Sanding dust can spontaneously ignite and cause a fire or explosion. Empty dust bag or barrel into a metal container, clear of any combustibles. Do not empty content into a fire. Do not overfill dust bag. Dust must be stored outside! Do not store dust in plastic bag or spontaneous combustion may result.

System Grounding

Static electricity is generated in dust collection systems. Any spark generated by static electricity is a potential fire or explosion hazard. Therefore, your dust collection system must be grounded by means of metal ducting throughout the system or, when plastic pipe and/or hoses are used, by bare copper wires. If using metal ducting for the collection system, ensure that it is electrically connected to both the dust collector and each machine serviced in the system. If plastic hose is placed between metal ducting and any machine, secure a 12 gauge bare copper wire between the metal ducting and the machine. When the system is to be made up of plastic pipe and/or hoses, wrap 12 gauge bare copper wire around the hose from the dust collector to the machine. Another wire should be placed inside the pipe/hose with exit holes for the wire placed near each end. If the system has branches, place wires in the same fashion and connect to the wires on the main pipe/hose with wire nuts.

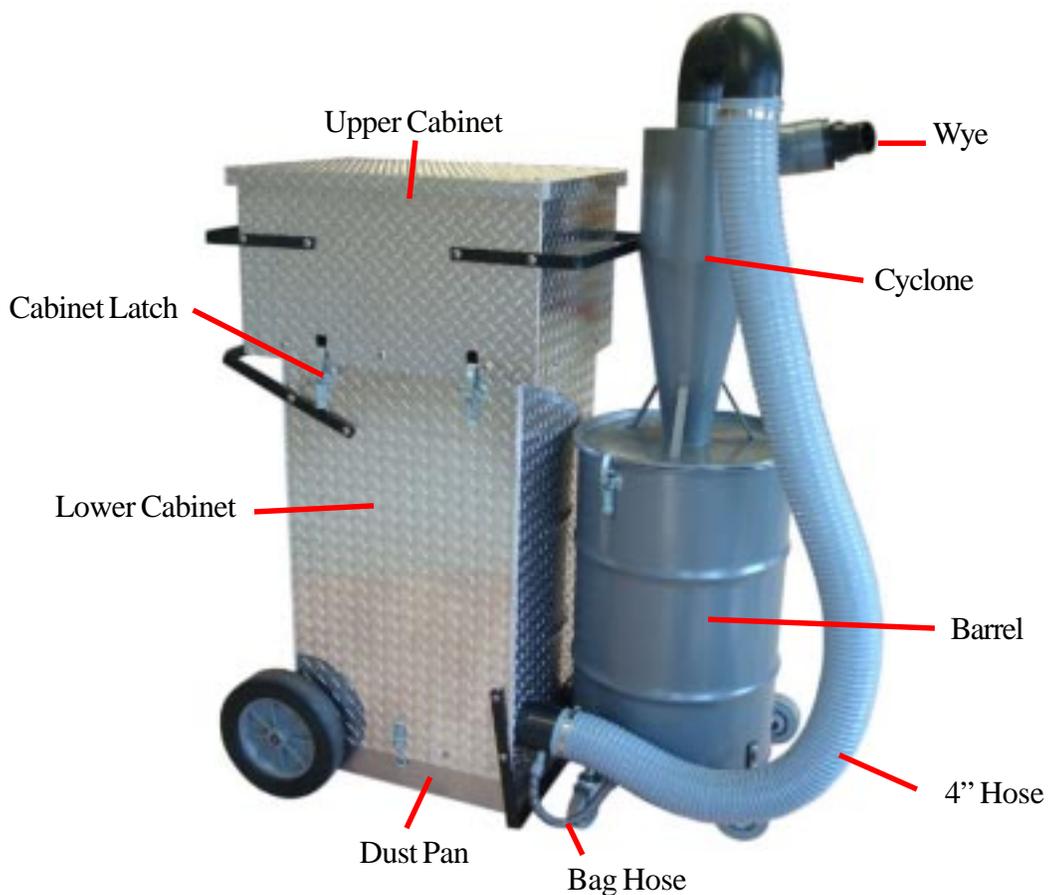


⚠ WARNING

As with all power tools, there is danger associated with the DJ1200 Dust Collector. Use the tool with respect and caution to lessen the possibility of mechanical damage or operator injury. If normal safety precautions are overlooked or ignored, injury to the operator or others in the area is likely.

WARNING: Improper connection of the equipment grounding conductor can result in a risk of electric shock. Check with a qualified electrician or service person if you are in doubt as to whether the outlet is properly grounded. Do not modify the plug provided with the product - if it will not fit the outlet, have a proper outlet installed by a qualified electrician.

Getting to Know the Machine



Upper Cabinet - This houses the motors & wiring

Lower Cabinet - This holds the prefilter bag & collects fine dust

Dust pan - This catches dust from the prefilter

Bag Hose - Connects to bottom of barrel to allow use of a plastic bag

4" Hose - This connects the cyclone to the lower cabinet

Barrel - This catches the dust separated by the cyclone

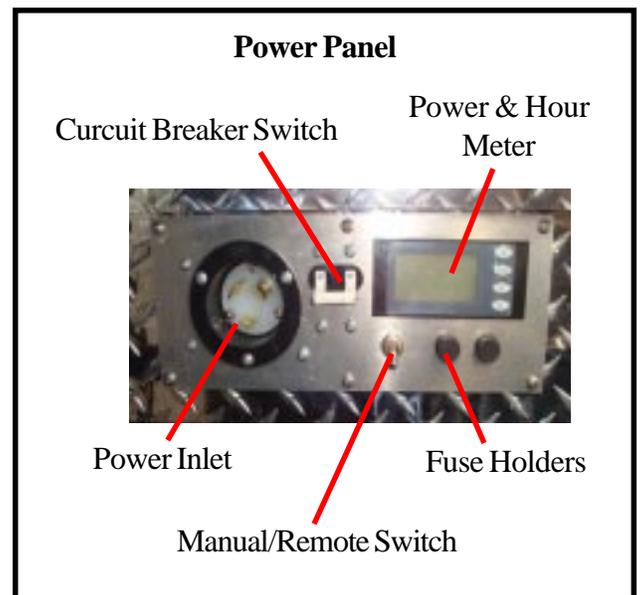
Cyclone - This separates most of the dust and leaves it in the barrel

Wye - Splits 4" inlet for using 2 hoses of 2" or 2.5" diameter

Cabinet Latch - Holds upper cabinet on lower cabinet

Setup for HEPA operation

Non-HEPA setup



HEPA Filter Unit

Exhaust Box - The box to which the HEPA filter mounts

HEPA Filter - use only certified HEPA filters available from US Sander

Back Plate - Helps hold filter in place. Some air leakage around this is normal.

Mount Latch - Adjustable draw latches used to hold filter in place

Outlet - A hose can be connected to exhaust air outside

Non-HEPA operation - For non-HEPA operation, the back plate mounts directly to the exhaust box. DO NOT operate a contaminated machine without the HEPA filter.

Power Panel

Power Meter - This meter reads voltage, amps and hours of operation when the machine is running. Normal operating current will be 28-32 amps. If current draw is below 25 amps, one of the motors is not running. See page 15 for more information about the meter functions.

Circuit breaker switch - This turns the main power on and provides overload protection.

Manual/Remote switch - This is for control source. Up is Remote control, down is manual on.

Power Inlet - The power inlet is a 30 amp twist-lock flanged inlet.

Hoses and Accessories



DSH2
2" x 50' hose
for edgers or some sanders



DSH25
2.5" x 50' hose
for sanders



DSH15 & DSA11
1.5" x 10' hose & 2" to 1.5" adapter
for buffers and vacuum wands



DSBOXSM & SC7530
25 ft. Splitter box &
75 ft. power cord



DSAR3
3" to 2" reducer
for B-2 edger



DSAC3L
3" latex rubber connector
for sanders



DSAC25L
2.5" latex rubber connector
for Super 7 & Silverline edgers



DSACAP2
2" cap
to close unused port on wye



DJ55
Wireless remote control



DJYS
4" to 2" wye
can connect four 2" or 2.5"
hoses to unit



DSA21
double-sided velcro
to strap cords to hoses



DJ122
3/4" cap to close off fittings on
barrel & hose when not using bags

Getting Started

WARNING!; Read and understand this manual before connecting or operating this machine.

Begin by unpacking the unit. Inspect all parts for physical damage. If any parts have been damaged contact us immediately for repair or replacement. It is recommended that you familiarize yourself with the machine parts using the pictures on the preceding pages. Preparing the unit for use is to be done as follows:



1. Stand the lower cabinet upright on its wheels. Make sure the dust filter bag is in place. Note that there are mesh dividers in the dust bag pockets to ensure proper air flow.

2. Place the expanded metal plate on top of the dust bag as shown in **photo 1**. Set the top (motor) cabinet on the lower cabinet. The end with the power inlet & switches goes at the wheel end. (Note - this is not reversible.) Ensure that the cabinet is setting down flat. There is a pin in the exhaust box that mates with a hole in the top cabinet to align it properly (**Photo 2**). Latch the top cabinet down with the 4 latches on the sides. The gasket should compress.



Photo 1

Make sure metal plate is in place.



Photo 2

Pin mates with hole in top cabinet

3. If the unit is for HEPA use, install the HEPA filter (**Photo 3**). There is an arrow showing the flow direction on the main tag. This should point away from the mount. (If the filter is installed backward it will not have proper performance and will not meet EPA requirements). Do not use a HEPA filter which has been damaged in any way. Do not use the HEPA filter if the tag with the serial number has been removed. The HEPA filter goes against the back of the exhaust box, and is held in place with the rear plate latches. Some adjustment of these latches may be required; make sure that the gasket is firmly compressed (**Photo 4**).

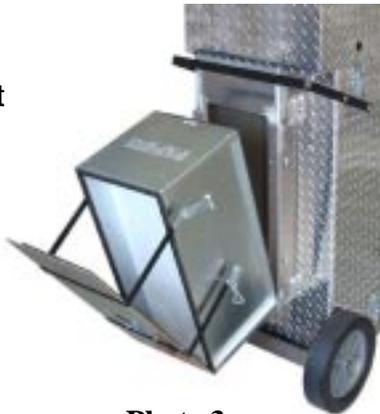


Photo 3

Install filter on mount



Photo 4

Make sure gasket is compressed. Adjust latches if necessary

4. There is a hook on the front of the unit that is used to connect the barrel. Connect the barrel to the front of the unit as shown (**Photo 5**). The hook on the barrel can be used to keep it tipped back. This will allow the whole unit to be pushed without disconnecting.

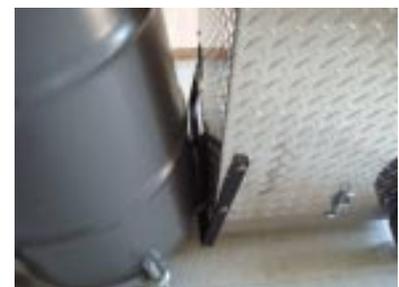


Photo 5

Connect the cabinet to the barrel.

5. Connect the 4" hose to the lower cabinet. If a plastic bag is to be used, connect the small hose between the barrel and the fitting on the hose (**Photo 6**). If not, be sure to cap off both the barrel fitting and the hose fitting with the caps provided (**Photo 7**).



Photo 6
Bag hose



Photo 7
Fittings capped off



Photo 8
Combination power & hour meter

6. Connect the splitter box to a 50 amp 240 volt power source. Make sure it has a good ground. If in doubt, have it checked by a certified electrician. Ensure that the machine power switch is off before connecting the cord. The splitter box has 2 output leads. Plug one in to the dust containment system, and plug your sander cord in to the other. You may need to run the 75 foot cord between the splitter box and the dust containment system. Turn on the switch at the splitter box. Put the remote/manual switch in the down (ON) position. Make sure that the hose opening is facing in a safe direction away from any small objects that could be drawn in, and turn on the main switch. The motors should come on, and the display should turn on. Power off and unplug the machine before continuing. ***If you will be using the system without the plastic bag go on to step 8.***

Using the Power Meter

The up and down keys (**Photo 8**) are used to cycle the display between Volts, Amps, KWH, watts, and run time. The OK key turns the backlight on or off. Kilowatt Hours (KWH) and time can be reset to 0. Make sure the function you wish to reset is being displayed, and hold the Set key until the numbers begin to flash. Press the OK key to reset to 0, or any other key to exit set mode.



7. Place the red mesh pad in the bottom of the barrel (**Photo 9**). This will prevent the plastic bag from being drawn into the small vacuum hose. Install the plastic bag. Push it in as close to the corners as possible, and fold it around the top. Only use 30" x 46" bags of 3 mills or thicker. These are available from US Sander, part number **DJ23**. Other bags may not stay in the barrel properly. Connect the power cord and power on the machine to draw the bag into the barrel (**Photo 10**). Placing the elbow on top of the motor cabinet will reduce air flow and draw the bag in faster. Once it has been drawn in tight, power off the machine and disconnect the power cord. Install the bag retainer in the barrel. It should lock into the groove (**Photo 11**). Note - the bag will not stay in the barrel without airflow. Do not operate with little or no airflow. If necessary, leave 1 port on wye open.



Photo 9
Place mesh pad in barrel

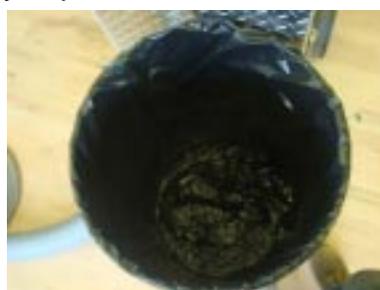


Photo 10
Draw bag into barrel



Photo 11
Install bag retainer ring

8. Install the cyclone on top of the barrel with the inlet facing in the desired direction. Fasten it down using the 3 latches on the barrel. Connect the 4" hose elbow to the top of the cyclone.
9. Connect the wye to the cyclone inlet. Connect the 2" and 2.5" hoses to the wye. The 2" hose cuff slips into the wye, the 2.5" cuff slips over top of the wye. (Note - if only 1 hose is being used, the other port can be closed off using the 2" cap provided. If you are using a vacuum wand, we recommend leaving it open.) The hoses can now be connected to the machines.

Connecting the Machines

To connect a sander:

It is recommended that you use the 2.5" hose to connect to your drum or belt sander. However, some people prefer to use a 2" hose, and are happy with the results. This all depends on the size of your machine. Note that if you are running both a sander and an edger you would need a second 2" hose with this method.

The 3" white rubber tube is used to connect to your sander. This is a very soft rubber so that it will conform to your machine dust pipe. Connect the other end of this tube to the male swivel fitting. Use the screw clamps to hold it in place (**Photo 12**). Make sure ground wire is contacting metal on the machine. Now you can connect this to the end of the 2.5" hose. The female swivel has a spring pin to latch it together (**Photo 13**).

Note - if you are using a 2" hose, the cuff can be slid into the male swivel (**Photo 14**). This also works to connect the 2" and the 2.5" hoses together (**Photo 15**). Alternately, the 2.5" rubber tube can be put on the dust pipe and the hose cuff slipped into this (**Photos 16 & 17**). On some machines it will be difficult to stretch the 2.5" rubber over the dust pipe.



Photo 12
3" rubber connector



Photo 13
2.5" hose on sander



Photo 14
2" hose on sander



Photo 15
2" hose connected to 2.5" hose



Photo 16
Stretch 2.5" connector over pipe



Photo 17
2" hose on sander

To connect to an edger:

The 2" hose is recommended for connecting to an edger. Some people connect the 1.5" hose to the 2" hose, and then connect this to the edger. This will reduce airflow, so it may not be as effective. If running 2 edgers, the 1.5" hose can be connected to the 2.5" hose, and then to one of the edgers. Do not attempt to run more than 10ft of 1.5" hose to an edger.

On Clarke edgers with the new swivel pipe, the 2" hose will fit directly over the pipe, or the 1.5" hose will fit into the pipe, and you are ready to go.

For old style Super 7 pipes, slip the 2.5" white rubber over the dust pipe. Connect the 2" hose to this (Photos 18 & 19).

For old style B-2 pipes, use the black rubber reducer. The large end will fit over the end of the pipe, and the 2" hose fits inside the small end. It may be easiest to remove the clamp before slipping it over the pipe, then reinstalling the clamp (Photos 20 & 21).

Silverline and most other edgers will use the same adapter as the Super 7. For other edgers, we also have 2" and 2.25" rubber adapters available.

Dust skirt: The dust pickup on an edger can be improved by installing a dust skirt (provided with the system). Clean the edger base with acetone first. On a B-2 or silverline, install it around the outside. On a Super 7, it can be installed on the inside or cut to fit around the wheels on the outside. Stick the adhesive backed piece to the edger, then adjust the other piece to touch the floor (Photos 22 & 23).



Photo 18
Old Super 7 dust pipe



Photo 19
Super 7 connector



Photo 20
Old B-2 dust pipe



Photo 21
B-2 connector



Photo 22
Install dust skirt



Photo 23
Adjust dust skirt

Any dust collection buffer can be connected using the 1.5" hose. There is a fitting on the buffer that the hose will fit over. Connect the 1.5" hose to the 2" hose using the metal reducer (Photo 24). If your buffer does not have dust collection, we offer a skirt kit that you can install on it (Photo 25).



Photo 24
2" to 1.5" reducer



Photo 25
Buffer skirt kit

Under radiator machines are a particularly difficult problem. We have an adapter available for our radiator edgers that provides dust collection (**Photo 26**). This may work for some other machines, but the machine may require some modification. Alternately, you can use the 2.5" hose, keeping it close to the edger to draw in as much dust as possible; this will not be 100% dust free.

For other machines you may have to improvise. We have an optional 1" hose that may be required on some small orbital sanders (**Photo 27**). This connects to the 1.5" hose.

In some cases you may need more than 50 ft. of hose. For an edger, you can connect the 2" hose to the 2.5" hose. If you need to run a sander, or run 2 machines at once, we offer a 4" x 25' extension hose (**Photo 28**). This can be connected between the cyclone and the wye. Using a maximum of 3 of these lengths a distance of 125 ft. can be obtained.



Photo 26
Radiator edger with dust pickup

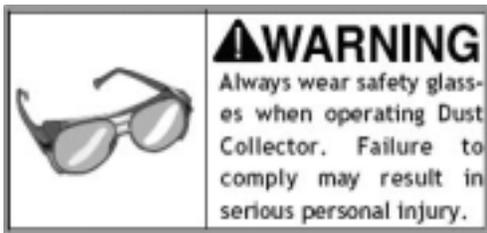


Photo 27
1" x 5' adapter hose



Photo 28
4" x 25' extension hose

Operating the Unit



With all the hoses connected, you are ready to start sanding. There is a roll of orange velcro that can be cut into strips and used to connect the machine power cords to the hoses (**Photo 29**). The machine is designed to be setup and run indoors. It can be run in a garage or trailer if desired.

DANGER - The dust system must never be run when wet or in the rain!



Photo 29
Strap cord to hose



Photo 30
Wireless remote control



Photo 31
Optional 4" exhaust hose

Turn on the machine with either the remote (**Photo 30**) or manually. Now you can start sanding. You should not see any airborne dust while you sand and edge. If there is any, stop sanding immediately and refer to the troubleshooting section to resolve the problem. There may be some dust on the floor while sanding with some machines, especially on heavier grits. Normally this will get picked up on the back pass. This is due to a static cling, so it will only stick to the floor, and normally will not be airborne. You can sand normally. It may take a little while to get used to working with the hoses. Make sure you do not kink the fittings while sanding. Do not step on or crush the 2.5" hose. It is wire reinforced and will not return to its original shape.

Stop sanding, turn off the machine and check the barrel every 30 minutes. Empty the barrel or change the bag when it is 2/3 full. If it gets overfull the dust will be drawn into the lower cabinet, clogging the prefilter. Wear a dust mask when emptying the barrel. If a plastic bag was used, it is best to use a vacuum to remove all the air from the bag before tying it and removing it from the barrel to prevent spreading dust in the house. Always follow EPA prescribed procedures for handling dust. Do not leave sanding dust in a plastic bag. Empty the dust into an approved metal container following proper prescribed procedures. The dust collection system compacts the dust more than normal, which increases the risk of spontaneous combustion. Always handle dust accordingly.



	Never leave dust bag unattended with sanding dust in it. Sanding dust can spontaneously ignite and cause a fire or explosion. Empty dust bag into a metal container, clear of any combustibles. Do not empty content into a fire. Do not overfill dust bag. Do not leave dust in a plastic bag. Empty barrel and pan every night.
--	---

Note - in many cases after finishing sanding the floor looks clean enough to coat. **DO NOT** coat the floor without vacuuming first. There is still fine dust in cracks and pores in the wood, and some may still be on the surface. This may cause problems later on. Always vacuum the floor thoroughly before coating.

This vacuum system generates a lot of heat. Some of this heat can be directed outside by using an exhaust hose. This will also help improve air quality because it is blowing the exhaust air outside and causing fresh air to be drawn in. You can either use the 4" extension hose or we also offer a 4" x 28' stretch hose (**Photo 31**). The stretch hose is a lot easier to handle because it compresses down to 4 ft. long.

You may notice some odors when sanding. This is due to the air recirculating in the room. This is not a filtration problem. You can eliminate the odors by using an exhaust hose.

When you are finished sanding, always turn off and unplug the dust collection system. Always empty the barrel and the dust pan.

Tip - The dust collection system can also be connected to saws when installing new flooring.

This machine is run by remote control:	
•This unit may be accidentally activated by other R.F. transmitting devices, i.e. garage door openers, T.V. remotes, etc.	
•Always disconnect power before attempting any service.	
•Disconnect power when not in use.	

Maintenance Intervals

CAUTION: Disconnect power before performing any maintenance. Do not leave sanding dust in bag or machine unattended. Do not store sanding dust in a plastic bag.

The following Maintenance should be performed regularly:

Before each use:

Check power cord for exposed wires, burnt plugs, etc.

Check hoses for cuts or holes.

Check prefilter for excessive dust between pleats.

Run machine and listen for abnormal noises. Note the current draw. If it is less than 20 amps, one of the motors may not be operating correctly.

If any of the above show a problem, do not operate the system until that problem has been resolved.

HEPA model:

Make sure the gasket on the top of the exhaust box is sealing properly.

Inspect the HEPA filter for damage. Do not use a damaged HEPA filter.

Make sure the gasket on the HEPA filter is sealing properly.

DO NOT blow out the HEPA filter. This will reduce its performance and it will no longer meet the HEPA specifications.

Every 30 minutes:

Check dust level in barrel and empty if over 2/3 full.

At end of day:

Turn off switches and disconnect power cord.

Empty barrel and dispose of dust properly.

Empty pan in bottom of lower cabinet.

Weekly:

Vacuum prefilter bag.*

Inspect prefilter for holes or rips.

Check for loose or broken bolts, missing or broken parts, and worn or damaged gaskets.

Check all gasket and latch adjustments. Readjust as needed.

Every 6 months:

Remove top cover and blow off the motors. **CAUTION:** Always disconnect power before removing top cover.

Every 200 hours:

Check motor brushes (part # DJ08). Change brushes if the brush sticks out of the holder 3/8" or less. Be sure to check all 8 brushes, as some may wear faster than others. Brushes are sold in sets of 2; a set will do 1 motor. There are 4 motors, so you will need 4 sets. **CAUTION:** Always disconnect power before removing top cover.

* The bag is intended to operate at full performance even with a coating of dust. Vacuuming regularly helps prolong the life of the bag and makes it easier to inspect the bag.

Maintenance Procedures

CAUTION: Disconnect power before performing any maintenance. Do not leave sanding dust in bag or machine unattended. Do not store sanding dust in a plastic bag.

The following procedures outline how to perform the normal maintenance and minor repairs.

Vacuuming prefilter bag - Begin by removing the motor cabinet. Then remove the filter bag by pulling it up through the top. If it is difficult to remove, this may be because it has a large amount of dust between the pleats. This is from overfilling the barrel. Tip the machine back and remove the dust pan. Now you can remove the excess dust from between the pleats. Be careful not to puncture the bag. With the dust bag removed, use a vacuum head to vacuum off each pleat individually. Note that there are strips of red mesh glued to each pocket. These keep the pockets separated to maintain proper airflow. After all the pleats are clean, inspect the bag for holes or tears. Pay close attention to the seams. Check the gasket for damage. If everything is good, reinstall the bag. The 2 short pockets go on the inlet side. Reinstall the motor cabinet and check the adjustment of the latches. They should pull the cabinet down firmly against the bag gasket. Check the adjustment on the exhaust box gasket.



Photo 32

Vacuum prefilter bag

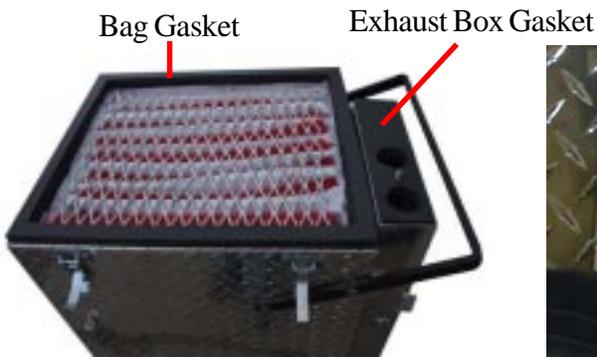


Photo 33

Inspect gaskets for damage



Photo 34

Exhaust box bolt

Adjusting exhaust box gasket - The exhaust box gasket seals the air from escaping before the HEPA filter. In order for it to operate properly, it must be compressed. Make sure there is no damage to the gasket. With the top cabinet removed, measure how much the gasket sticks up above the exhaust box. If this is less than 1/8" or the gasket has been damaged, replace the gasket. Install the top cabinet and latch it down. Measure the distance from the top cabinet to the exhaust box. This should be 1/8" less than the previous dimension. Check both sides. If the dimension is incorrect, the box needs to be adjusted. There are 4 bolts that hold the exhaust box on the lower cabinet. Remove the top cabinet and pull up the filter bag to loosen the nuts on the top 2 bolts. Reinstall the top cabinet. Turn the machine on its side and remove the bottom pan. Loosen the lower bolts. Set the exhaust box where it needs to be and retighten the bolts. Double check the gasket measurement. Remove the top cabinet to retighten the top bolts.

Adjusting the HEPA filter - The HEPA filter must be held firmly against the back of the exhaust box. Inspect the gasket on the inlet side of the HEPA filter for damage. If the gasket has been damaged then replace it. When you install the filter on the unit, the latches should pull it in firmly, compressing the gasket all the way around. If it is not adjusted properly, readjust each latch individually until it is right. Normally there should be 25% to 50% deflection on the gasket to get a proper seal.

Resetting the remote control - The remote transmitter is preprogrammed with 1 of 80 different codes. If the battery on the remote has been replaced or you get a new remote, it is necessary to reprogram the receiver. There are 2 steps: Erasing the old code, and setting the new one. If you purchased a second remote, you can set the receiver for this one without erasing the existing code to allow both remotes to be used. Both procedures must be done with the machine plugged in, the circuit breaker switch on, and the 3-position switch in the up (remote) position.

To erase the old code - There is a small hole on the side corner of the motor cabinet (**Photo 35**). This allows access to the program button on the remote receiver. Use a blunt tool that fits through the hole to push the program button (**Photo 36**). PUSH LIGHTLY! You should hear the receiver beep. Hold on the button for 3-4 seconds until you hear a triple beep. All previous codes have been erased.

To set a new code - Push the program button on the receiver again. This time release it after the single beep. Within 5 seconds, press either button on the transmitter (**Photo 37**) and you will hear the receiver beep. Press either button again and you will hear a triple beep. The receiver is now programmed for this remote. Test to make sure it works properly.

WARNING!
This unit may be accidentally activated by other R.F transmitting devices, i.e. garage door openers, T.V. remotes, etc.

Disconnect power when servicing the blower assembly.



Photo 35
Program button hole



Photo 36
Press program button



Photo 37
Handheld remote

Changing motor brushes - Disconnect power from the machine, and remove the top cover. Use a screwdriver to remove the clip that holds the brush assembly in place (**Photo 35**). Pull the brush assembly out & disconnect the wire (**Photo 36**). Attach the wire to the new brush assembly. Install the new brush assembly, making sure that the wire goes back into the housing safely away from the armature. Lock it in place with the clip (**Photo 37**). Repeat for the rest of the brushes. Reset the hour meter following the instructions on page 15.



Photo 35
Remove brush clip

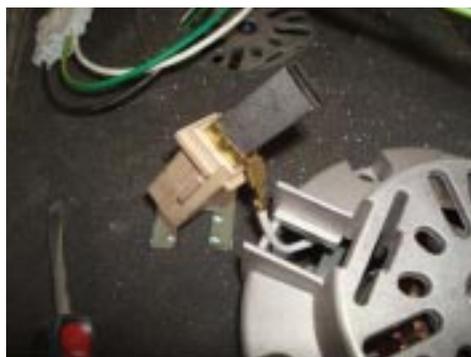


Photo 36
Disconnect wire



Photo 37
Re-install retaining clip

Troubleshooting

This section is for finding the cause of problems and resolving them. It is divided into 2 parts: **Performance** and **Mechanical**.

Performance:

Problem	Possible Cause	Remedy
Sander not picking up dust	Speed turned down	Turn speed control knob up (counterclockwise)
	Prefilter clogged	Clean prefilter bag
	Not all motors running	Fix motor problem
	Sander dust pan gap too big	Have dust pan adjusted
Hose fittings leak dust	Running more than 2 machines	Run fewer machines
	Speed turned down	Turn speed control knob up (counterclockwise)
	Prefilter clogged	Clean prefilter bag
Edger poor pickup	Using felt pad under edger	Do not use felt pads under edgers
	No skirt on edger	Install dust skirt on edger
	Felt seal around rolled guard missing	Install felt seal
Buffer poor dust pickup	Not dust collection model	Skirt kits on buffers do not work as well as DC buffers
	Damaged skirt	Replace dust skirt
Vacuum blowing out dust	Hole in prefilter bag	Replace prefilter bag
	Top cabinet not on properly	Make sure top cabinet is tight against bag gasket

Mechanical:

Problem	Possible Cause	Remedy
Machine does not turn on	Power meter off	No power to machine
	Switches off	Make sure both switches are on
	Circuit breaker switch defective	Replace switch
	Relay defective	Replace relay
	Bad fuse	Replace Fuse
	Motor brushes worn out	Replace brushes
	Thermal fuse blown	Replace thermal fuse, fix overheating problem
	Motors burned up	Replace motors
Machine will not turn on by remote	Remote battery dead	Replace battery & reprogram receiver
	Receiver does not recognize	Reprogram remote receiver
	Out of range	Move closer to unit
	Switch in wrong position	Put Remote/Manual switch in up position
	Handheld remote defective	Replace handheld remote
	Remote receiver defective	Replace remote receiver
Machine runs then cuts out	Circuit breaker overloaded	Reset circuit breaker
	Machine overheated	Make sure all air holes are clear
	Motors defective	Replace motors
Machine sucks bag into cyclone or cabinet fills with dust	Hose not connected	Connect the small hose to the bottom of the barrel
	Mesh not in bottom of barrel	Install the mesh pad in the barrel
	Plastic bag has a hole	Replace bag
	Wrong bag used	Use only 30" x 46" bags 3mil or thicker (DJ23)
Static shock when sanding	Fittings not grounded	Repair damaged grounding straps

Optional Accessories



DSH4
*4" x 25' extension hose
goes between cyclone and wye*



DJH4
4" x 25' exhaust stretch hose



DSH1
1" x 5' hose w/ adapter



AE82
Edger dust skirt



B25A
*Buffer skirt kit
fits buffers up to 17"*



DRE99
Radiator edger dust pickup adapter

CLOSURE

The following pages contain parts diagrams/lists and warranty/return information for your Dust Collector.

If you need parts or help in assembling your machine, or if you need operational information, we encourage you to call our Service Department. Our trained service technicians will be glad to help you. If you have comments dealing specifically with this manual, please write to us using the address in the General Information. The specifications, drawings, and photographs illustrated in this manual represent the DJ1200 as supplied when the manual was prepared. However, due to US SANDER LLC's policy of continuous improvement, changes may be made at any time with no obligation on the part of US SANDER LLC. Whenever possible, though, we send manual updates to all owners of a particular tool or machine. Should you receive one, add the new information to this manual and keep it for reference. We have included some important safety measures that are essential to this machine's operation. While most safety measures are generally universal, we remind you that each workshop or jobsite is different and safety rules should be considered as they apply to your specific situation.

We recommend you keep this manual for complete information regarding US SANDER LLC's warranty and return policy.

If you need additional technical information relating to this machine, or if you need general assistance or replacement parts, please contact the Service Department at 1-518-875-6124. When contacting us regarding repairs or warranty information, we may need the machine serial number and date code. These are on the machine label on the underside of the top cabinet (**Photo 38**).

The DJ1200 was specifically designed for dust collection operations with floor sanders. **DO NOT MODIFY AND/OR USE THIS DUST COLLECTOR FOR ANY OTHER PURPOSE. Modifications or improper use of this tool will void the warranty.** If you are confused about any aspect of this machine, **DO NOT** use it until you have had all your questions answered.

Call for help - US Sander LLC

4131 State Route 20

Esperance, New York 12066

1-518-875-6124 Fax 1-518-875-9942

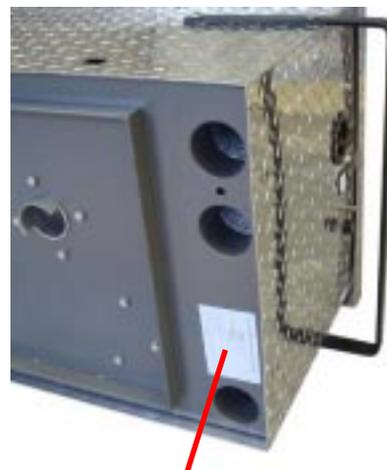
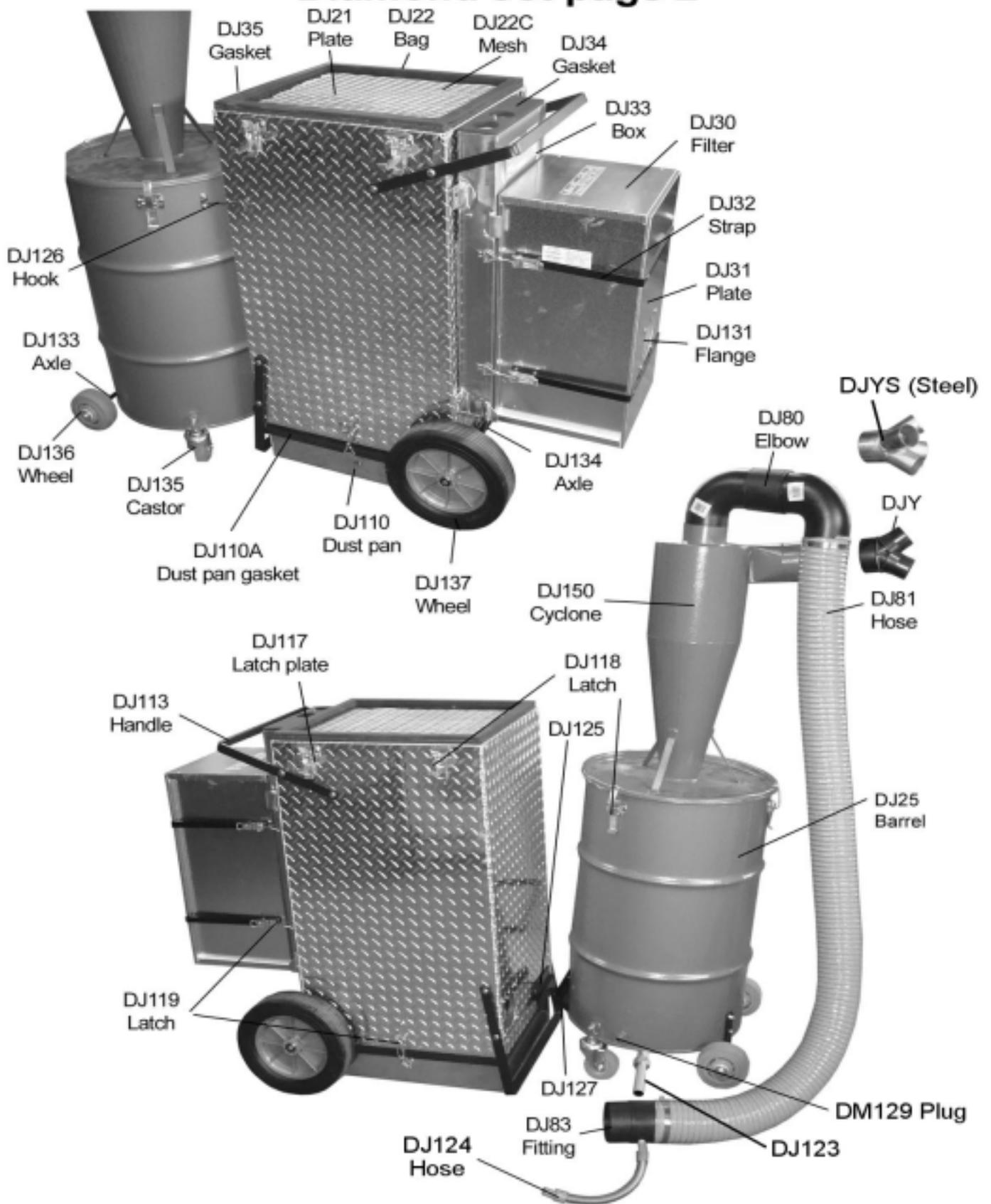


Photo 38
Machine label

Diamond Jet page 2



**Call US at (518) 875-6124 for machines, parts,
abraives, finish and more!**