

The Dust-Force Operating Manual & Parts List



WARNING:

The operator must thoroughly read and understand this manual before operating the dust collector or commencing any servicing. Care should be taken to follow all safety rules and warning instructions.



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READ THIS MANUAL CAREFULLY BEFORE ASSEMBLY, TESTING & OPERATING

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WARNING:

Do not vacuum or use this Dust Collection System near flammable or combustible liquids, gases, gasoline or other fuels, lighter fluid, cleaners, oil-based paints, natural gas, hydrogen, or explosive dusts like coal dust, magnesium dust, grain dust, or gun powder.

Additional Safety Rules for The Dust-Force

Important Safety Instructions

When using your Dust-Force, follow basic safety precautions including the following.

WARNING: To reduce the risk of fire, electric shock or injury:

•Read and understand this owner's manual and all labels on the Dust-Force before operating. Use only as described in this manual. To avoid personal injury or damage to the Dust-Force, use only recommended accessories.

Sparks inside the electrical parts can ignite flammable vapors or dust. To avoid fire or explosion:

•Do not vacuum or use this Dust Collection System near flammable or combustible liquids, gases, gasoline or other fuels, lighter fluid, cleaners, oil-based paints, natural gas, hydrogen, or explosive dusts like coal dust, magnesium dust, grain dust, or gun powder.

•Do not vacuum anything that is burning or smoking, such as cigarettes, matches or hot ashes.

•To avoid health hazards from vapors or dusts, do not vacuum toxic materials.

•Do not use or store near hazardous materials.

•Do not use outdoors or on wet surfaces.

•Put unit on a stable, level surface.

•Route vacuum hose and electric cord out of traffic areas.

•Do not allow to be used as toy. Close attention is necessary when used by or near children.

•Do not leave appliance plugged in. Unplug from outlet when not in use and before servicing.

•To avoid injury from accidental starting, unplug power chord before changing or cleaning filter/dust bag or chip bag.

•Do not use without filter/dust bag and or chip bag in place.

•Turn off controls before unplugging.

•Do not use with damaged cord, plug or other parts. If your Dust-Force is not working as it should, has missing parts, or is damaged, please contact JDS customer Service at 1-800-480-7269.

•Do not: Pull or carry the unit by the cord, use the cord as a handle, close a door on the cord, or pull the cord around sharp edges or corners. Do not roll the Dust-Force over the cord. Keep the cord away from heated surfaces.

•Do not handle the plug of the Dust-Force with wet hands.

•Do not put any object into ventilation openings. Do not vacuum with any ventilation openings blocked. Keep free of dust, lint, hair or anything that may reduce air flow.

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

•Extension cords in poor condition or that are too small can pose fire and shock hazards. When using an extension cord, be sure it is in good condition.

•Connect to properly, grounded outlet only.

SAVE THESE INSTRUCTIONS

Safety Rules for Wood Working Equipment

General Safety Instructions

- 1. Read and Become Familiar** with the entire operating manual.
- 2. Keep Guards and Covers** in place and working order.
- 3. Always Use Safety Glasses.** Also use a face or dust mask if you are creating dust. Everyday eye glasses only have impact resistant lenses, they are not safety glasses.
- 4. Keep Work Area Clean.** Cluttered areas and benches invite accidents.
- 5. Don't Force Tool.** It will do a better and safer job at the rate for which it was designed.
- 6. Avoid Accidental Starting.** Make sure the equipment power switch is in the "OFF" Position before plugging it in.
- 7. Disconnect Tools Before Servicing** and when changing accessories such as blades, and cutters.
- 8. Don't Over Reach.** Keep your proper footing and balance at all times. For best footing wear rubber soled footwear. Keep floor clear of oil, scrap wood, etc.
- 9. Wear Proper Apparel.** Loose clothing or jewelry may get caught in moving parts. Wear protective hair covering to contain long hair.
- 10. Make Workshop Child Proof.** Place a padlock on the switch of a blade saw when it is not in use and store the key in a safe location.
- 11. Remove Adjusting Keys and Wrenches.** Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.
- 12. Avoid Dangerous Environments** Don't use power tools in damp or wet locations. Keep your work area well illuminated. DO NOT WORK in explosive atmosphere (around paint, flammable liquids, etc.)
- 13. Keep Children Away.** All visitors should be kept a safe distance from work area, especially while operating machinery.
- 14. Use the Proper Tool.** Don't force a tool or attachment to do a job for which it was not designed.
- 16. Maintain Tools In Top Condition.** Keep tools sharp and clean for best and safest performance. Follow instructions for lubricating and changing accessories.
- 17. Check Damaged Parts.** Before further use of any damaged tool, guard, or part, make sure it will operate properly and perform its intended function. Check alignment of moving parts, breakage of parts, mounting, or any other conditions that may affect its operations. A guard should be properly repaired or replaced.
- 18. Use Recommended Accessories.** Consult Owner's Manual. Use of improper accessories could be hazardous.
- 19. Never Stand On A Tool.** Injury could occur from a fall.
- 20. Never Leave A Tool Running and Unattended.**
- 21. Always Remove Cord Plug** from electrical outlet when adjusting, changing parts on a tool.

Specifications

Noise (dB)	67-87
Inlet Diameter	5"
Dual Inlet Diameter	4"x2
Capacity (CFM)	1250
Static Pressure (In H ₂ O)	12"
Motor (HP)	1 1/2
Net Weight (kg)	46
Gross Weight (kg)	48
Packing Size (cm)	89 x 56 x 56
Cuft	10'

Power Switch Wiring Location

Figure A

To convert your Dust-Force to 220V you must access the Switch Wiring Location. To access this location, you must first remove the protective cover located on the side of the motor. Please see Figure A. The cover removes by unscrewing one Phillips head screw at the bottom of the cover, as shown in Figure A.

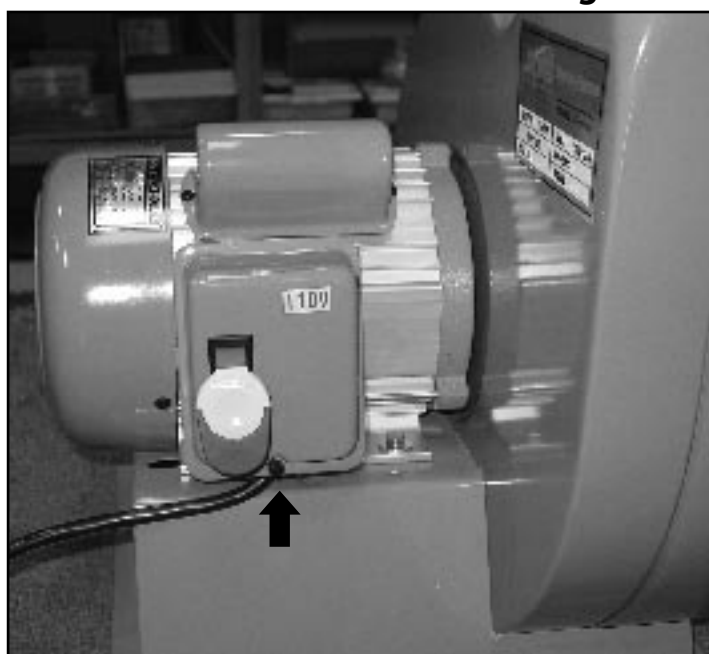


Figure B



Once the cover is off, you will be able to see the Terminal Block, which connects the switch wires and motor wires. To rewire the terminal block, you must first remove the Terminal Block insulator cover, which pulls off easily with one hand. Please view Figure B.

Figure C

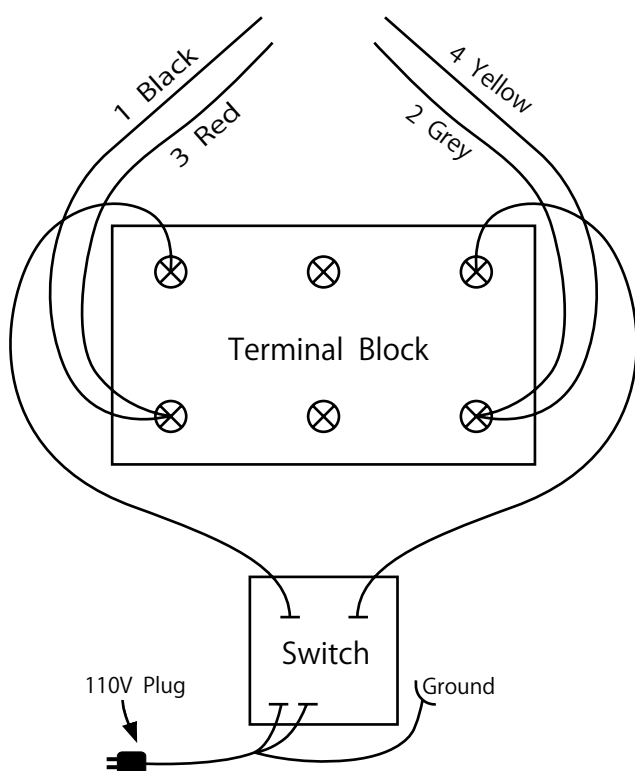
Once the insulator cover is removed, you can access the Terminal Block. See Figure C. Please view the instructions on the next page to see schematics of how to wire a Dust-Force for 220V and 110V.



Power Switch Wiring Diagram

(110V Diagram and 220V Conversion Diagram)

110V Diagram

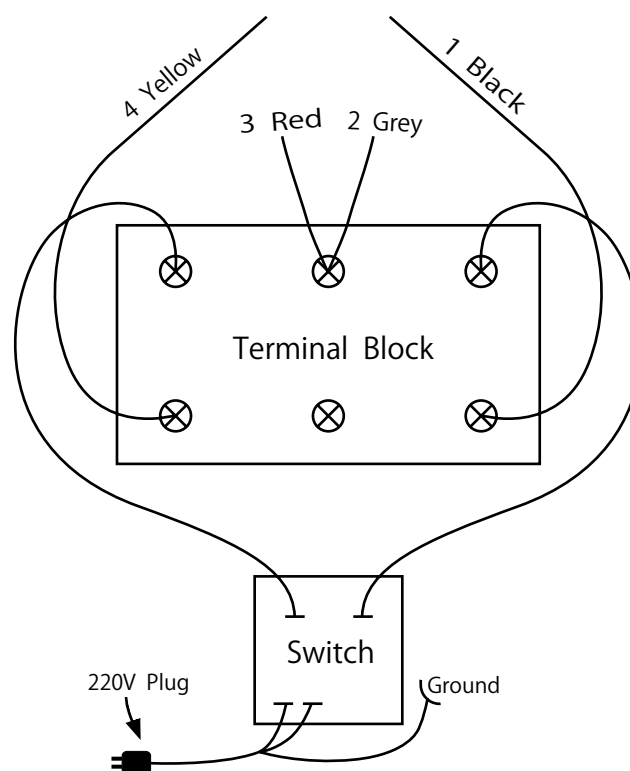


Number and Color Codes:

- #1 - Black
- #2 - Grey
- #3 - Red
- #4 - Yellow

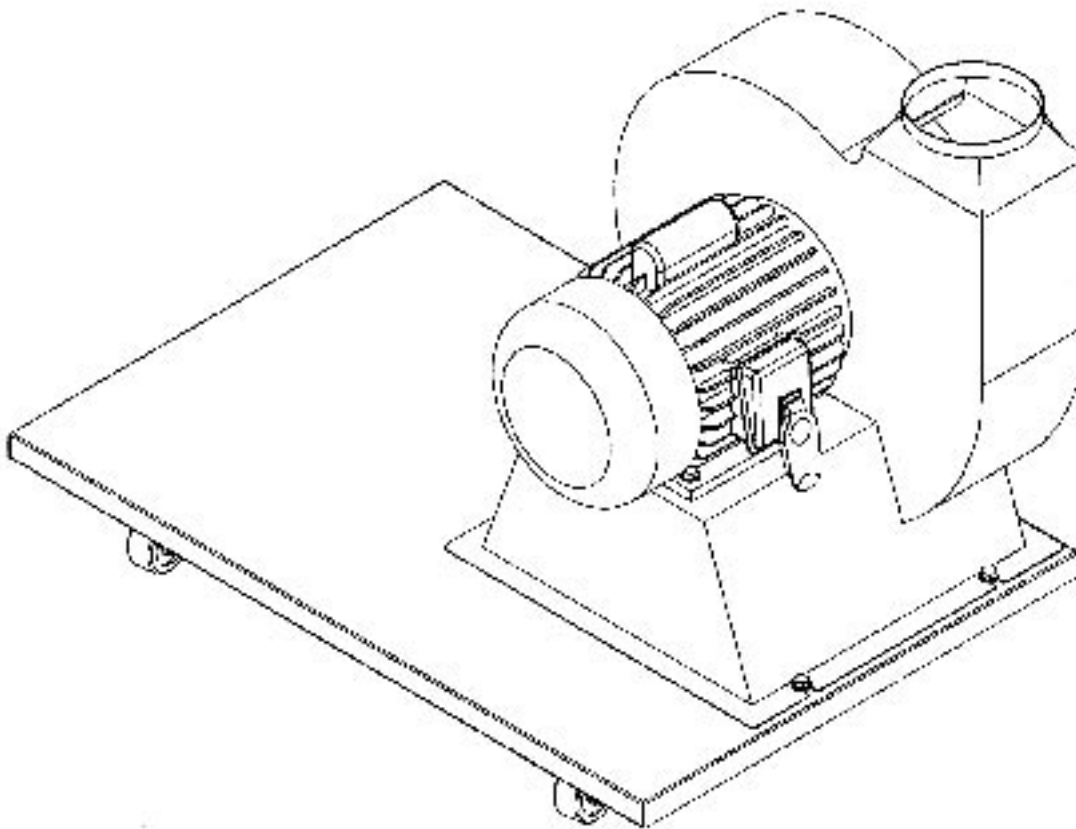
To Convert the JDS Dust-Force from 110V to 220V, start by removing the switch cover and the insulating panel that protects the terminal block. (As shown on the previous page.) Remove the Black, Grey, and Yellow wires from where they are located. (See 110V Diagram above.) Secure the Red and Grey wires to the top middle terminal. Then secure the Yellow wire to the bottom left terminal, and the Black wire to the bottom right terminal. The two wires from the switch stay in the same position. (Please view the 220V Conversion Diagram on the right.) When finished securing all the terminals, replace the insulating panel back over the Terminal Block and secure the switch cover. The final step is to remove the 110V plug from the power cord, and replace it with a 220V plug. It is not necessary to replace the power cord.

220V Conversion Diagram



Motor Control

The Dust-Force switch is located on the side of the Motor. To start the dust collector, Lift **Up** on the switch. To stop the dust collector, press **Down** on the switch.



Grounding

1. In the event of a malfunction or breakdown, grounding provides a path of least resistance for the electric current, to reduce the risk of electric shock. This machine is equipped with an electrical cord that has an equipment grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed and grounded in accordance with all local codes and ordinances.
2. Do not modify the plug provided. If it will not fit the outlet, have a proper outlet installed by a qualified electrician.
3. Improper connection of the equipment grounding conductor can result in the risk of electric shock. The conductor with the green outer insulation (with or without a yellow stripe), is the equipment grounding conductor. If repair or replacement of the electrical cord is necessary, do not connect the equipment grounding conductor to a live terminal.
4. Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if there is doubt as to whether the machine is properly grounded.
5. Use only three-wire extension cords that have three-prong grounding plugs and three pole receptacles that accept the tool's plug.
6. Repair or replace a damaged or worn cord immediately.
7. This machine is intended for use on a circuit that has an outlet that looks like the one in illustration (A). The machine has a grounding plug that looks like the plug in illustration (A).

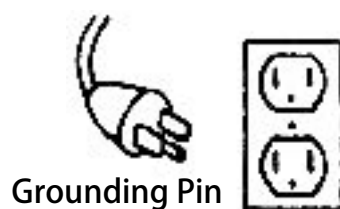
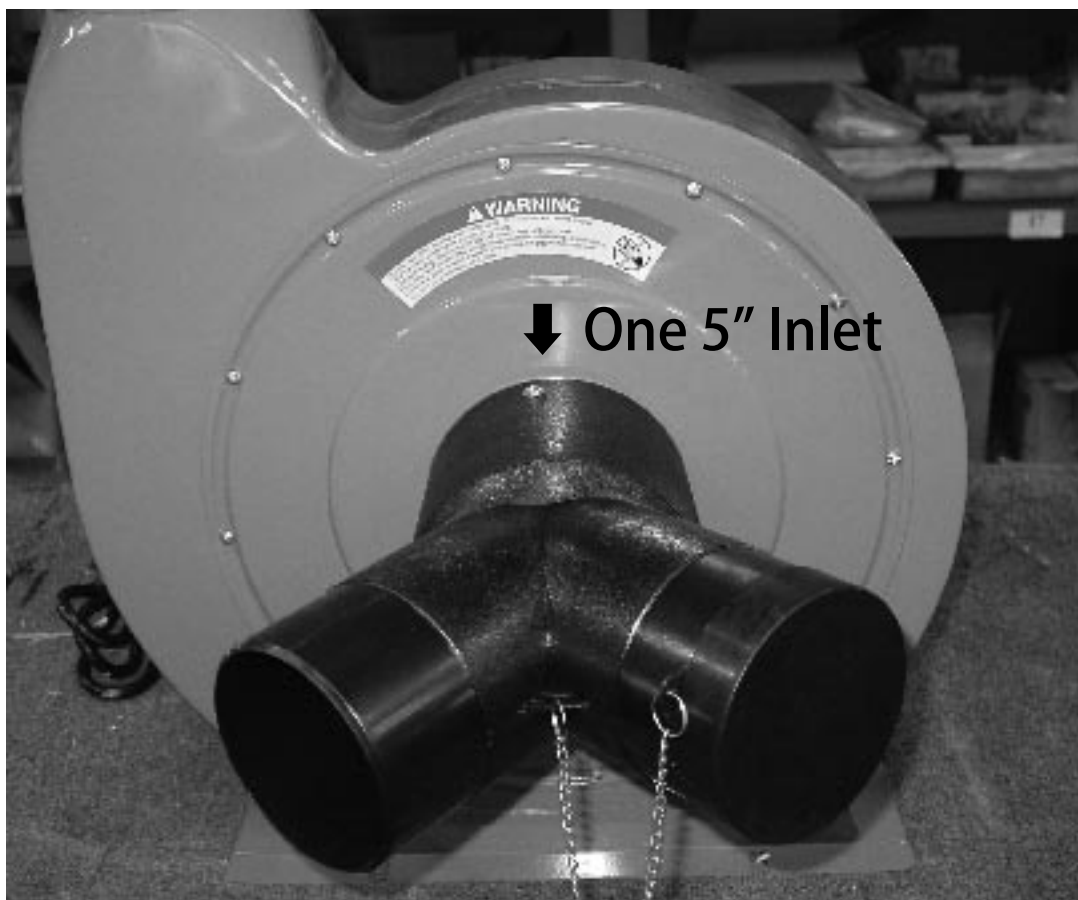


Illustration (A)

Inlet Connector Dimensions



↑ Two 4" Inlets ↑

Table of Parts

From the Main Carton - (See Figure #1)

Item#	Description	Qty	Fig. #1
A	Hose 5" Flexible	1	
B	Collector Support Frame	1	
C	Main Frame Housing	1	
D	Base Plate	1	
E	Upper Bag Support Rod	1	
F	Collector Frame Support Rod	2	
G	Inlet Connector, Dual	1	
H	Top Bag and Bottom Bags	2	
I	Caster	4	
K	Parts Bag	1	
L	Hose Clamp, 5" Expandable	2	

Content of Parts Bag from Item #K - (See Figure #2)

Item#	Description	Specs	Qty	Fig. #2
M	Hex. Hd. Bolt	5/16"-18x1/2"	24	
N	Hex. Hd. Bolt	5/16"-18x3/4"	4	
O	Round Hd. Screw	3/16"-24x3/8"	1	
P	Hex Wrench	5mm	1	
Q	Open end wrench	10-12mm	1	

Assembly

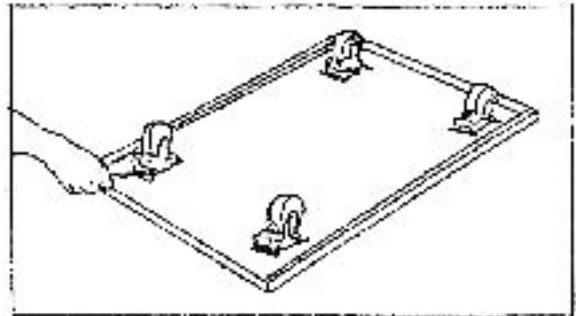
Step 1 - Attaching the Casters - (See Figure #3)

❶ From the Parts List find the following

Item#	Description	Qty
D	Base Plate	1
I	Caster	4
M	Hex. Hd. Bolt 5/16"-18x1/2"	16
Q	Open end wrench 10-12mm	1

❷ Turn the Base Plate over (**D**). Align the 4 Casters (**I**), on top of the holes provided. Secure the Casters to the Base Plate with the Hex Head bolts provided. (**M**)

Fig. #3



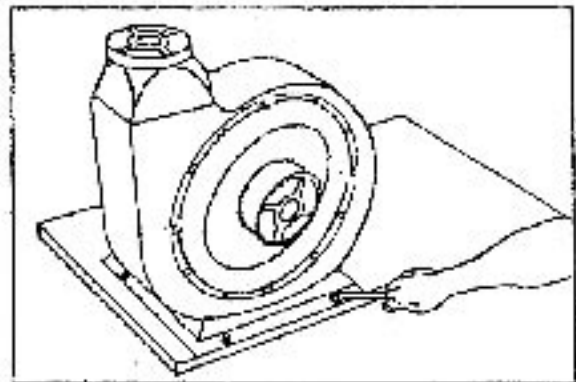
Step 2 - Assembling Main Housing - (See Figure #4)

❶ From the Parts List find the following

Item#	Description	Qty
C	Main Frame Housing	1
M	Hex. Hd. Bolt 5/16"-18x1/2"	4
Q	Open end wrench 10-12mm	1

❷ Turn the Base Plate right side up (Casters on the floor). Locate the 4 threaded holes at the end of the Base Plate. Lift the Main Frame Housing (**C**) and align it with the 4 screw holes. Secure in place with the 4 Hex Head bolts (**M**). Make sure all bolts are securely fastened.

Fig. #4



Assembly

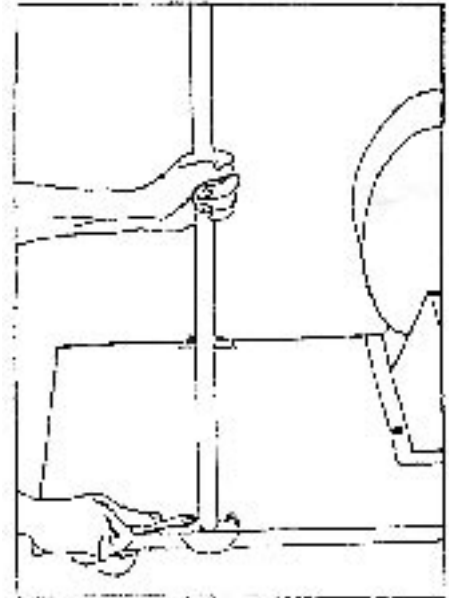
Step 3 - Assembling the Collector Supporter - (See Figure #5)

Fig. #5

❶ From the Parts List find the following

Item#	Description	Qty
F	Collector Frame Support Rod	2
M	Hex. Hd. Bolt 5/16"-18x1/2"	4
Q	Open end wrench 10-12mm	1

❷ The Collector Frame Support Rod (**F**), has two flanges, these flanges bolt to the Base Plate (**D**), one on either side. The corresponding holes in the Base Plate (**D**) are already threaded. Secure the Support Rods in place with the 4 Hex Head bolts (**M**). Make sure all bolts are securely fastened.



Step 4 - Assembling Collector & Upper Bag Support - (See Figure #6)

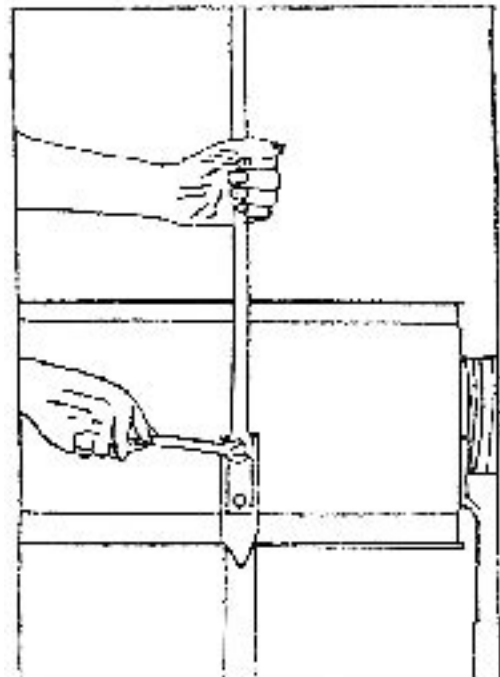
Fig. #6

❶ From the Parts List find the following

Item#	Description	Qty
B	Collector Support Frame	1
E	Upper Bag Support Rod	1
N	Hex. Hd. Bolt 5/16"-18x3/4"	4
Q	Open end wrench 10-12mm	1

❷ The inlet flange of the Collector support frame (**B**) must point or face the outlet funnel of the Main Housing (**C**). This is for the hose to connect and align properly. Then the upper Bag Support rod (**E**), is mounted at the rear of the machine, same side as the motor.

❸ Secure the Collector Support Frame (**B**) to the front of Collector Frame Support Rod (**F**) using the 2 Hex Head bolts (**N**). Make sure the inlet funnel of (**B**) is facing the outlet chute of the Main Frame Housing (**C**).



Assembly

Step 5 - Assembling the Hose - (See Figure #7)

① From the Parts List find the following

Item#	Description	Qty
A	Hose 5" Flexible	1
L	Hose Clamp, 5" Expandable	2

② Place the Hose Clamps (**L**), over both ends of the Hose (**A**). Insert one end of the Hose (**A**) over the outlet chute of the Main Housing (**C**), and the other end of the Hose (**A**) over the inlet funnel of the Collector Support Frame (**B**). Secure in place by tightening the screw on the Hose Clamp (**L**) with a Phillips head screw driver. Make sure that both ends of the Hose are firmly mounted to each respective funnel, and securely fastened in place.

③ Your Dust-Force is now assembled and should look like Figure #8. **NOTE: This Hose must not come loose during operation!**

Fig. #7

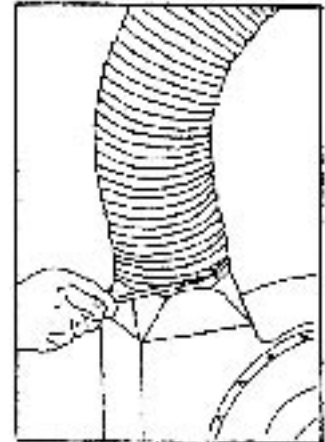
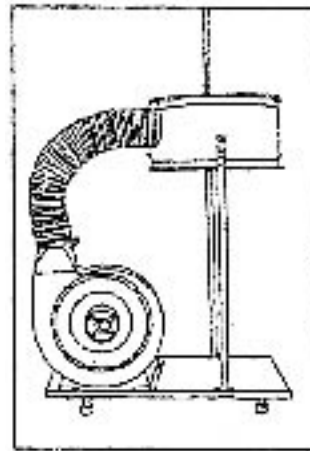


Fig. #8



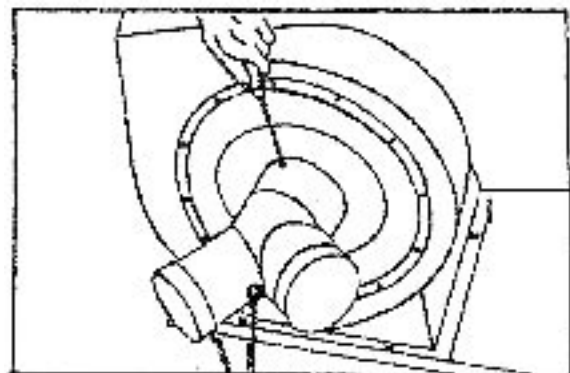
Step 6 - Assembling the Dual Inlet - (See Figure #9)

① From the Parts List find the following

Item#	Description	Qty
G	Inlet Connector, Dual	1
O	Round Hd. Screw 3/16"-24x3/8"	1

② Locate the Inlet Connector (**G**) and install it over the Main Frame Housing (**C**) as shown in Figure #9. Make sure the Inlet Connector (**G**) is securely held in place with the Round Head Screw (**O**).

Fig. #9



Assembly

Step 7 - Assembling the Collector Bags - (See Figure #10)

❶ From the Parts List find the following

Item#	Description	Qty
H	Top Bag	1
H	Bottom Bag	1

❷ Unfold the Bottom Bag (**H**), and attach it to the Collector Support Frame (**B**). There are hooks located on the Collector Support Frame (**B**) to help hold the bag in place while you secure the bag with the Metal Belt provided. See figure #10

❸ Unfold the Top Bag with logo (**H**), and attach it to the top portion of the Collector Support Frame (**B**). Secure the Bag with the Metal Belt provided. Secure the Top of the Collector bag (**H**) over the hook provided on the Upper Collector Support rod (**E**). See figure #11.

❹ Your Dust-Force is now assembled and should look like figure #12. You should have no spare parts left from assembling your unit. If you do please re-check all steps above to ensure all parts are correctly assembled with the correct hardware. Make a thorough check that all hardware is securely fastened before attempting to apply power to your new power tool.

Fig. #10



Fig. #11

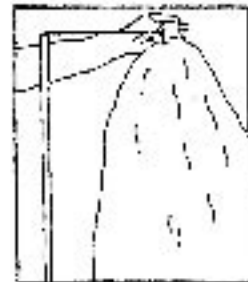


Fig. #12

CAUTION: Carefully review all safety and electrical procedures before attempting to use this power tool!



WARNING:

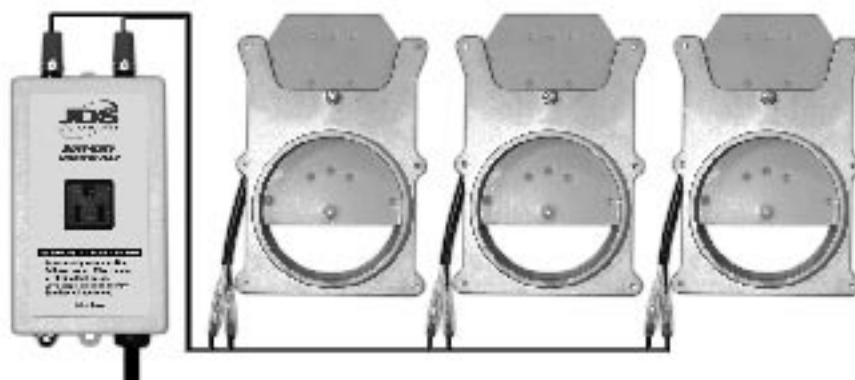
Always disconnect the Dust Collector from the power source before commencing any maintenance.

The Dust-Force **Accessories**

**JDS 1 Micron
Canister Kit**



JDS Dust-Gate
(Automated Blast-Gate System)

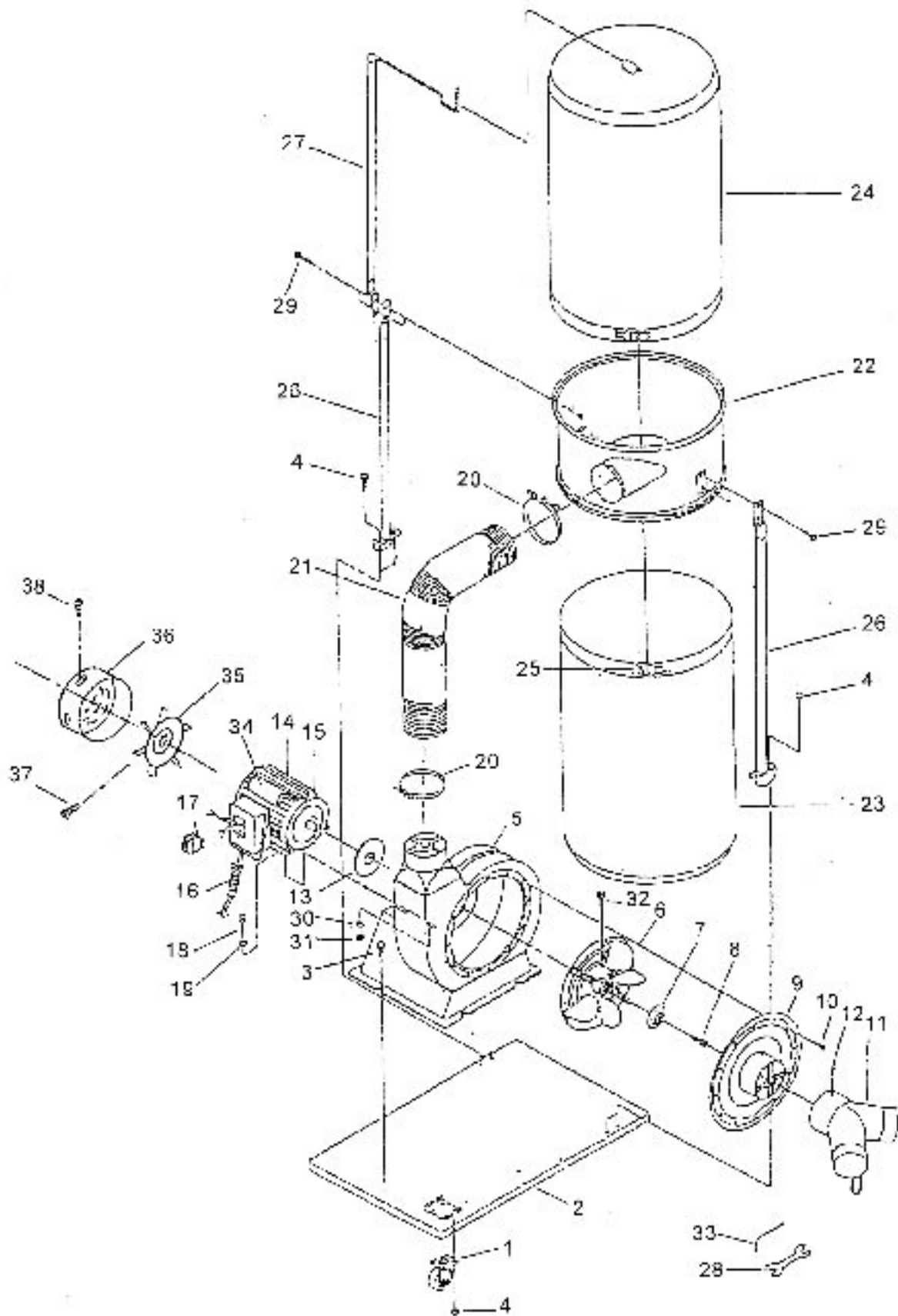


JDS Accessory Kit



For More information on these Accessories, please call 1-800-480-7269
Or visit www.jdstools.com

Exploded Isometric View of Machine



Parts List

Item#	Description	Specification	Q'ty
1	Caster		4
2	Base Plate		1
3	Screw Hex. Flange. Head	5/16" - 18 x 1/2"	4
4	Screw Hex. Flange. Head	5/16" - 18 x 1/2"	20
5	Main Frame Housing Assembly		1
6	Impeller Fan/Impeller Assembly		1
7	Impeller Washer		1
8	Screw Hex. Sic. Head	M6 x 1.0x 19mm	1
9	Inlet Cover		1
10	Screw Pan Flange Head	3/16" - 24 x 3/8"	12
11	Inlet Connector, Dual		1
12	Screw Pan Flange Head	3/16" - 24 x 3/8"	1
13	Rubber Gasket		1
14	Motor		1
15	Key	6 x 6 x 25mm	1
16	Power Cord		1
17	Switch		1
18	Screw Hex. Head	5/16" - 18	4
19	Washer	5/16" - 18	4
20	Hose clamp 5" Expandable		2
21	Hose, 5" Expandable		1
22	Collector		1
23	Bottom Bag		1
24	Top Bag with Logo		1
25	Belt Clamp (Belt and Buckle)		2
26	Collector Frame Support Rod		2
27	Upper Bag Support Rod		1
28	Open End Wrench	10 x 12mm	1
29	Screw Hex. Flange Head	5/16" - 18 x 3/4"	4
30	Washer	5/16" - 18	4
31	Nut	5/16" - 18 x 18	4
32	Screw Hex. Head	5/16" - 18 x 5/16"	1
33	Hex. Wrench	5mm	1
34	Capacitor	400MFD/125V	1
35	Motor Cool Fan		1
36	Motor Cover		1
37	Round Head Screw	1/4" x 3/8"	1
38	Round Head Screw	3/16" x 1/4"	3