

Instruction Manual For Baldor Dust Control Units

Models DC7, DC7-3, DC8, DC8-3, DC10, DC10-3, DC12, DC12-3 and DC14-3.
For use on Grinders mounted to GA16 and GA20 pedestals

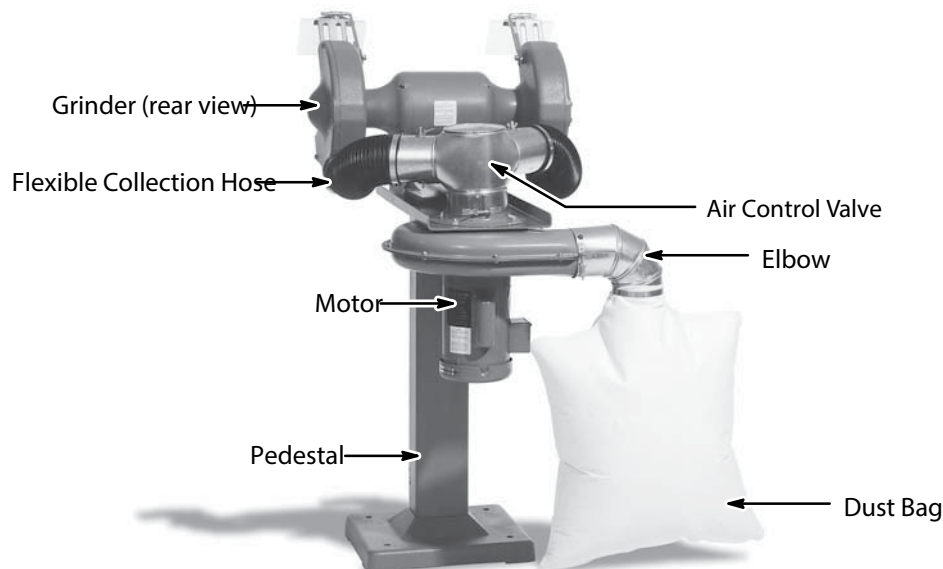
SAFETY NOTICE:

WARNING statements describe conditions that may lead to personnel injury including potentially fatal injuries if the machine is not properly used and warnings are not properly followed.

Caution statements describe conditions that may lead to equipment damage.

Electrical shock can cause serious or fatal injury. Only qualified personnel should install, maintain or troubleshoot this equipment.

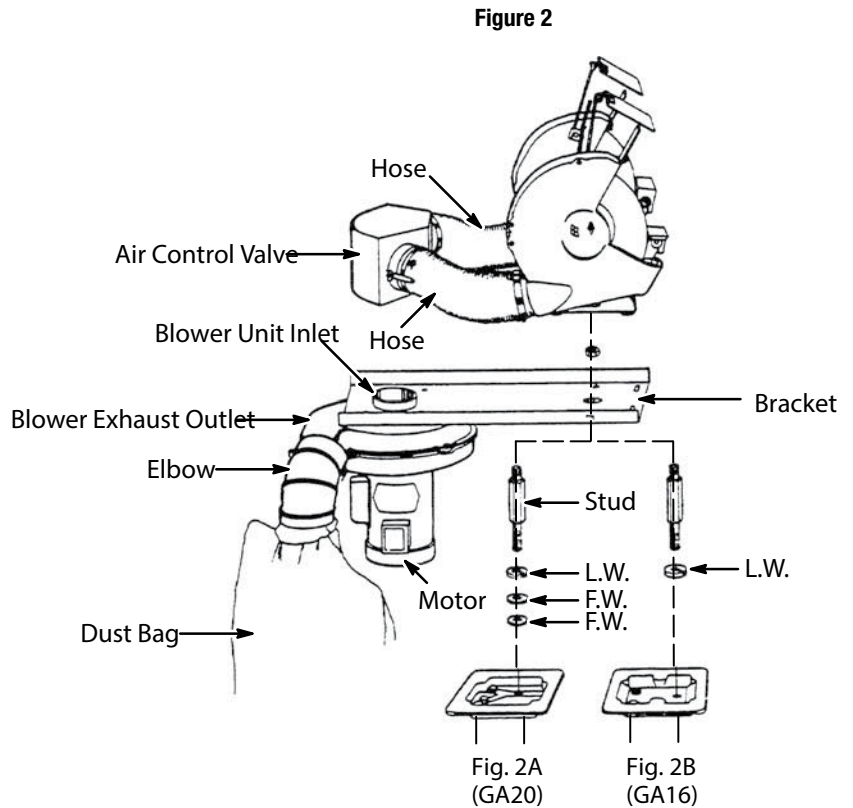
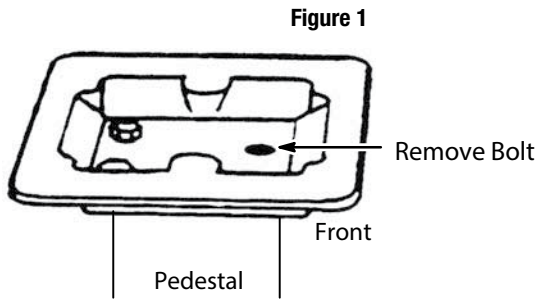
- WARNING:** Do not operate this dust control unit until you are sure that you are completely familiar with the safe operation of the dust control unit. Improper use can lead to severe injury. This manual defines proper use of this equipment. Before using this equipment for any other use, please consult Baldor. Contact Baldor if you do not understand any procedure or operation concerning this dust control unit or this manual.
- WARNING:** Do not use dust control unit in the presence of potentially combustible materials. Keep all combustible materials and flammable vapors away from dust control unit.
- WARNING:** Do not operate the dust control unit/grinder with the dust bag removed. Debris that may come from an open exhaust outlet can be a hazard to nearby persons or equipment.
- WARNING:** Prevent electrical shock hazard and accidental machine operation. Always disconnect dust control unit from the power source before servicing, changing dust bag or maintenance.
- WARNING:** Be sure the system is properly grounded before applying power. Do not apply power before you ensure that grounds are connected. Electrical shock can cause serious or fatal injury. Follow the National Electrical Code (NEC) and local codes for the safe installation of this equipment.
- WARNING:** Always use safety glasses with side shields (or full face shield) when operating grinder. Do not use ordinary eyeglasses. Also use face or dust mask if cutting operation is dusty.
- WARNING:** Don't use in dangerous environment. Don't use dust control units in damp or wet locations, or expose them to rain. Electrical shock can cause serious or fatal injury. Follow the National Electrical Code (NEC) and local codes for the safe installation of this equipment.
- WARNING:** Unsuitable accessories or attachments added to this machine can create hazards. Baldor accessories are specifically designed to be used with this grinder. Use accessories or attachments only in the proper intended manner. Accessories or attachments obtained from another source may cause hazards. Consult the manufacturer before use.
- WARNING:** Check damaged parts. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. Damaged parts should be properly repaired or replaced.
- WARNING:** Use proper extension cord. Make sure your extension cord is in good condition. When using an extension cord, be sure it is rated for the voltage and current rating of your product. An undersized cord will cause a drop in line voltage resulting in loss of power and overheating. Table 1 shows the correct wire size to use depending on cord length and nameplate ampere rating. If in doubt, use the next heavier gauge. The smaller the AWG gauge number, the heavier the cord.
- WARNING:** Dust created during grinding, buffing, sawing, power sanding, drilling, and other activities may contain chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.
- Caution:** Maintain dust control unit with care. Keep dust control unit clean for best and safest performance.
- Caution:** Do not wash the dust bag. Washing the bag will remove flame-retardant treatment.



Installation

When you receive your control, there are several things you should do immediately.

1. Observe the condition of the shipping container and report any damage immediately to the commercial carrier that delivered the product.
2. Verify that the part number you received is the same as the part number listed on your purchase order.



3. Bolt pedestal securely to floor. Pedestal must be securely mounted to floor to prevent tip hazard.
4. Remove the pedestal assembly bolt (Figure 1) located in top mounting plate.
5. Replace pedestal assembly bolt with stud and washers supplied with the dust control unit (see Figure 2). Use Fig. 2A for GA20 pedestal and Fig. 2B for GA16 pedestal. Tighten the stud securely into the pedestal.
6. Mount dust control bracket over stud with motor on bottom side, see Figure 2. Align mounting holes in bracket with those in pedestal. Secure bracket to stud with nut supplied. Proceed to mount grinder to pedestal by using proper holes in pedestal and installing mounting bolts supplied.
7. Mount the double-inlet air control valve to the inlet of the blower unit and secure at base of air control valve. Attach a hose (supplied with unit) to each inlet and to each grinder exhaust outlet. Secure both ends of hoses with clamps supplied.
8. Attach elbow to exhaust outlet of blower.
9. Attach dust bag to elbow with clamp supplied.

Electrical Instructions

Single phase dust control units are rated dual voltage. Some single phase dust control units are equipped with cord and grounding type plug for 115 volts. To use with a different voltage, see instructions provided to make wiring changes. All attachment plugs and any receptacles must be replaced with devices rated for the voltage for which the dust control unit is reconnected. For your safety, be certain dust control unit is properly grounded. Table 1 indicates the minimum wire size. Be sure to comply with NEC and local wiring codes.

Three phase dust control units are normally dual voltage and must be wired for the proper voltage and rotation direction (connections are inside conduit box). Connect phase sequence so that the wheel moves down toward top surface of tool rest as viewed from front of dust control unit. Wheel must rotate toward tool rest. Be sure all electrical connections are secured and properly insulated. For your safety, be certain dust control unit is properly grounded. Table 1 indicates the minimum wire size. Be sure to comply with NEC and local wiring codes.

Table 1 Minimum Gauge Wire Size

Ampere Rating		Volts		Total Length of Cord (Cord + Extension, in Feet)			
		115V	230V	25	50	100	150
				50	100	200	300
More Than	Not More Than	AWG					
0	6	18	16	16	14		
6	10	18	16	14	12		
10	12	16	16	14	12		
12	16	14	12	Not Recommended			

Grounding Instructions

WARNING:

Be sure the system is properly grounded before applying power. Do not apply power before you ensure that grounds are connected. Electrical shock can cause serious or fatal injury. Follow the National Electrical Code (NEC) and local codes for the safe installation of this equipment.

1. All grounded, cord-connected dust control units:

In the event of a malfunction or breakdown, grounding provides a path of least resistance for electric current to reduce the risk of electric shock. This dust control unit is equipped with an electric cord having 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. Do not modify the plug provided. If it will not fit the outlet, have the proper outlet installed by a qualified electrician.

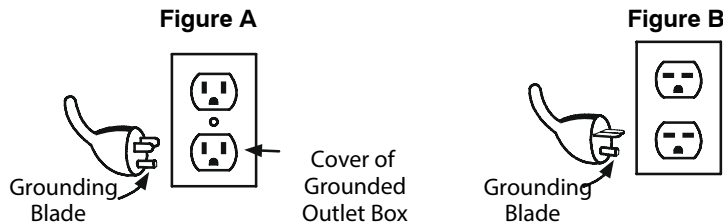
Improper connection of the equipment-grounding conductor can result in a risk of electric shock. The Green insulated wire (with or without yellow stripes) is the equipment-grounding conductor. If repair or replacement of the electric cord is necessary, do not connect the equipment-grounding conductor to a live terminal. Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if in doubt as to whether the tool is properly grounded.

Use only 3-wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.

Repair or replace damaged or worn cord immediately.

2. Grounded, cord-connected dust control units intended for use on a supply circuit having a nominal rating less than 150 volts.

This grinder is intended for use on a circuit that has an outlet that looks like the one illustrated in Figure A or B.



Operation

WARNING:

Do not operate this dust control unit until you are sure that you are completely familiar with the safe operation of the dust control unit. Improper use can lead to severe injury. This manual defines proper use of this equipment. Before using this equipment for any other use, please consult Baldor. Contact Baldor if you do not understand any procedure or operation concerning this dust control unit or this manual.

Before operating the dust control unit, be sure that all parts are in place. Check the grinder that is connected to the dust control unit to be sure it is in safe operating condition. Replace any damaged or missing parts. Do not operate grinder or dust collector with damaged or missing parts.

WARNING:

Do not use dust control unit in the presence of potentially combustible materials. Keep all combustible materials and flammable vapors away from dust control unit.

The dust control unit is for collecting dry material. Many materials in dust form are combustible. Check material safety data sheet. If material is potentially combustible, do not use with this dust control unit.

WARNING:

Do not operate the dust control unit/grinder with the dust bag removed. Debris that may come from an open exhaust outlet can be a hazard to nearby persons or equipment.

Air Flow Control

The air flow is directed to the wheels by adjusting the air control valves. To meet OSHA requirements, it is necessary to direct the air flow to the wheels, see Figure D. For open and closed position of air control valves, see Figure E. Close the air control valve to the unused wheel, open the air control valve to the wheel being used.

Figure D

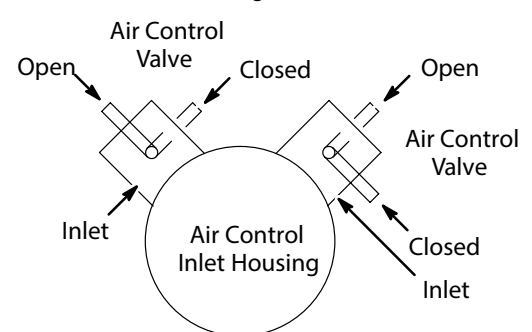
Catalog No.		Grinding Wheel Maximum Size		Air Flow* ft ³ per minute		Dust Bag	HP Dust Control Motor
115 1Phase 60 Hz	208-230/460 3 Phase 60 Hz	Dia.	Width	Capacity	OSHA** Required per wheel		
DC7	DC7-3	7"	1"	440	220	ARB-1	1/2
DC8	DC8-3	8"	1"	440	220	ARB-1	1/2
DC10	DC10-3	10"	1"	440	390*	ARB-1	1/2
DC12	DC12-3	12"	2"	440	390*	ARB-1	1/2
DC14	DC14-3	14"	3"	700	590*	ARB-2	1

* Adjust air control valves to direct total air flow to wheel being used. This is to meet OSHA air flow requirements.

Close the air control valve to the unused wheel, open the air control valve to the wheel being used.

** From ventilation section 1910.04 Table G-4, Federal register, Vol. #202.

Figure E



Maintenance

WARNING:

Prevent electrical shock hazard and accidental machine operation. Always disconnect dust control unit from the power source before servicing, changing dust bag or maintenance.

Caution:

Do not wash the dust bag. Washing the bag will remove flame-retardant treatment.

- Motor and bearings are lubricated for life and do not require additional lubrication.
- The dust bag and hoses connecting the dust control to the grinder should be cleaned occasionally (as needed).
- Wearing safety glasses and dust mask, remove the dust bag and shake the dust into a suitable container for disposal. Dispose of the dust in accordance with material safety data sheets, local codes and ordinances.
- Do not wash the bag. Washing the bag will remove flame-retardant treatment.
- Re-install the dust bag after cleaning.
- Replacement parts are available from Baldor distributors. Provide catalog number and specification number from nameplate of the Baldor product, plus the part description.
- Do not discard this manual. Keep it in a convenient location for reference.

LIMITED WARRANTY

Unless otherwise provided, Baldor grinders are warranted against defects in Baldor workmanship and materials for a period of Thirty-Six months. All warranty claims must be submitted to a Baldor repair facility prior to the expiration of the warranty period. Baldor shall have no responsibility or liability for any defect, latent or otherwise, discovered after the expiration of the warranty period provided herein. Extended warranties are available for certain Baldor products. These warranties are described in Baldor's catalog and other sales literature. Extended warranties are subject to the terms and conditions of this Limited Warranty as modified by the additional terms of the extended warranty. If a Baldor product is defective due to Baldor workmanship or materials and the defect occurs during the warranty period, then Baldor will either repair the product or replace it with a new one, whichever Baldor believes to be appropriate under the circumstances.

Warranty service is available for all Baldor products from Baldor's Customer Service Department in Fort Smith, Arkansas, and from Baldor repair facilities. A list of Baldor's repair facilities may be obtained by contacting Baldor at: Baldor Electric Company, 5711 R.S. Boreham, Jr. St., Fort Smith, Arkansas, 479-646-4711 (phone), 479-648-5792 (fax). All Baldor products requiring warranty service shall be transported or shipped freight pre-paid, at the risk of the party requiring warranty service, to Baldor's Customer Service Department in Fort Smith, Arkansas or to a Baldor repair facility. Written notification of the alleged defect in addition to a description of the manner in which the Baldor grinder is used, and the name, address and telephone number of the party requiring warranty service must be included. Baldor is not responsible for removal and shipment of the Baldor product to the service center nor for the reinstallation of the Baldor product upon its return to the party requiring warranty service. Customers who are unable to take or ship the Baldor product to a Baldor repair facility, or who desire a repair to be made by other than a Baldor repair facility, should contact Baldor's Customer Service Department at 479-646-4711. Repair by anyone other than a Baldor repair facility must be approved in writing by Baldor in advance of such service.

Problems with Baldor products can be due to improper maintenance, faulty installation, non-Baldor additions or modifications, or other problems not due to defects in Baldor workmanship or materials. If a Baldor repair facility determines that the problem with a Baldor product is not due to defects in Baldor workmanship or materials, then the party requiring warranty service will be responsible for the cost of any necessary repairs. Parties requiring warranty service not satisfied with a determination that a problem is outside of warranty coverage should contact Baldor's Customer Service Department at 479-646-4711 for further consideration.

EXCEPT FOR THE EXPRESS WARRANTY SET FORTH ABOVE, BALDOR DISCLAIMS ALL OTHER EXPRESS AND IMPLIED WARRANTIES INCLUDING THE IMPLIED WARRANTIES OF FITNESS FOR A PARTICULAR PURPOSE AND MERCHANTABILITY. NO OTHER WARRANTY, EXPRESS OR IMPLIED, WHETHER OR NOT SIMILAR IN NATURE TO ANY OTHER WARRANTY PROVIDED HEREIN, SHALL EXIST WITH RESPECT TO THE GOODS SOLD UNDER THE PROVISIONS OF THESE TERMS AND CONDITIONS. ALL OTHER SUCH WARRANTIES ARE HEREBY EXPRESSLY WAIVED BY THE BUYER. UNDER NO CIRCUMSTANCES SHALL BALDOR BE LIABLE OR RESPONSIBLE IN ANY MANNER WHATSOEVER FOR ANY INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES, OR ANTICIPATED PROFITS RESULTING FROM THE DEFECT, REMOVAL REINSTALLATION, SHIPMENT OR OTHERWISE.

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BALDOR®

Baldor Electric Company

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