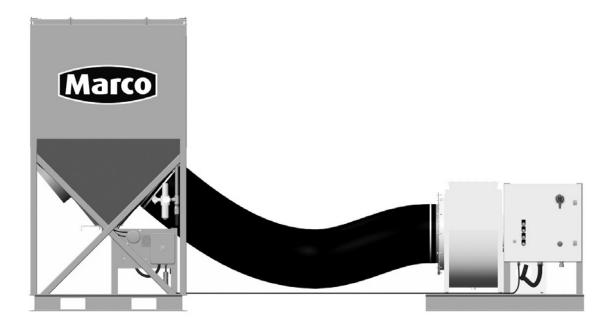
SERVICE MANUAL

DUSTMASTER® 6,000 CFM ELECTRIC DUST COLLECTOR







Before using this equipment, read, understand and follow all instructions in the Operator's Manuals provided with this equipment. If the user and/ or assistants cannot read or understand the warnings and instructions,

the employer of the user and/or assistants must provide adequate and necessary training to ensure proper operation and compliance with all safety procedures pertaining to this equipment. If Operator's Manuals have been lost, please visit www.marco.us, or contact Marco at 563.324.2519 for replacements. Failure to comply with the above warning could result in death or serious injury.



Company Profile

Since 1944, Marco has developed a strong tradition of providing innovative and reliable products and services to the surface preparation and protective coatings industries. We are the world's premier provider of Abrasives, Blasting, Coating, Dust Collectors, Engineered Systems, Rental, Safety, Service, Repair, & Modernization, and Vacuums.

Through innovative designs and a total commitment to quality, Marco manufactures products that increase production rates, create a safer workplace, and reduce maintenance costs. Marco's industry experience, manufacturing capabilities, legendary customer service, product availability, logistics services, and technology leadership is your assurance that we deliver high quality products and services, providing the best value to you, our customer.

The Marco Difference

- Industry Experience With Marco on your team, you have access to expertise which can only come from decades of industry leadership. We have organized our engineering department, production specialists, customer operations, and safety support into a "Center of Competence." As a Marco customer, you have access to hundreds of years of cumulative experience related to your operations.
- Manufacturing Excellence Marco is a U.S. based, ISO 9001:2008 certified manufacturer of equipment for the Surface Preparation and Protective Coatings industries. Marco's engineers benchmark the industry to ensure that we design and manufacture superior products that set the "Gold Standard" for performance, safety, and quality.
- Legendary Customer Service Marco's legendary customer service team is staffed by friendly, highly-trained individuals who are focused on providing the highest level of product support, order accuracy, and customer satisfaction.
- Product Availability We stock over 10,000 SKU's and have more than 45 shipping locations to serve North American and International markets for all major brands of blasting and coating equipment. As the largest provider of surface preparation and protective coatings equipment in the world, our inventory levels and product availability are unmatched.
- Logistics Services Marco's in-house logistics team is dedicated to moving your shipment anywhere in the world. We move more than 14,000 truckloads every year, allowing you to save on freight costs by leveraging our buying power. Lower your process costs with a single invoice, which includes product and freight.
- Technology Leadership Our website provides: Operator's Manuals, Part Numbers and Schematics Guides, SDS information, and Features & Specifications Guides, providing access to information 24/7. Our Extranet application allows you to receive quotes and place orders online. Our Intranet maintains a complete record of your purchase history to assist with ongoing support of your existing equipment and future purchasing decisions.

Vision Statement

Marco is the world's premier provider of Abrasives, Blasting, Coating, Dust Collectors, Engineered Systems, Rental, Safety, Service, Repair, & Modernization, and Vacuums.

Mission Statement

Marco provides strong leadership and innovation to the surface preparation and protective coatings industries. We dedicate our efforts to the continuous improvement of our products, services, processes, people, and most importantly, the quality of our customer's experience.

Quality Statement

Marco is committed to providing superior quality in the design, manufacturing, distribution, rental, service, and repair of our products. Our ISO 9001:2008 certification extends throughout all operations in all locations. Continuous improvement of our processes and supply chain Integration comprise the core of our business strategy for delivering exceptional quality and value in all Marco products and services.

Management Philosophy

We are a company dedicated to the success of every customer and associate. We discuss, debate, challenge, measure, and test our ideas. We will be boundless and limitless in our passion to improve. Through sound leadership and dedicated associates, we will ensure a long term, profitable future for Marco, our associates, customers, and suppliers.

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DEFINITION OF TERMS

A DANGER

This is an example of danger. This indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury.

A CAUTION

This is an example of a caution. This indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It can also be used to alert against unsafe practices.

A WARNING

This is an example of a warning. This indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

NOTICE

This is an example of a notice. This indicates policy or practice directly related to safety of personnel or protection of property.

HAZARD IDENTIFICATIONS

A WARNING

Failure to comply with ANY WARNING listed below could result in death or serious injury.

- Breathing dust containing silica could cause silicosis, a fatal lung disease. Breathing dust during abrasive blasting operations, post-blast cleaning operations, and/or servicing equipment within the abrasive blasting area may expose an individual to conditions that could cause asbestosis, lead poisoning and/or other serious or fatal diseases. Harmful dust containing toxic material from abrasives or surfaces being abrasive blasted can remain suspended in the air for long periods of time after abrasive blasting has ceased. A NIOSH-approved, well-maintained, respirator designed for the specific operation being performed must be used by anyone abrasive blasting, handling or using the abrasive, and anyone in the area of the dust.
- Contact NIOSH and OSHA offices to determine the proper respirator for your specific application. The air supplied to the respirator must be at least Grade D quality as described in Compressed Gas Association Commodity Specification G-7.1 and as specified by OSHA Regulation 1910.134. Ensure air filter and respirator system hoses are not connected to non-air sources or in-plant lines that may contain nitrogen, oxygen, acetylene or other non-breathable gases. Before removing respirator, use an air monitoring instrument to determine if the atmosphere is safe to breathe.
- You must comply with all OSHA, local, City, State, Province, Country and jurisdiction regulations, ordinances and standards, related to your particular work area and environment. Keep unprotected individuals out of the work area.
- Abrasive blasting operators must receive thorough training on the use of abrasive resistant attire which includes: supplied-air respirator, abrasive blasting suit, safety shoes, gloves, ear protection and eye protection. Protect the operator and bystanders by complying with NIOSH and OSHA Safety Standards.
- Inspect all equipment for wear or damage before and after each use. Failure to use Original Equipment Manufacturer repair parts and failure to immediately replace worn or damaged components could void warranties and cause malfunctions.
- OSHA requires abrasive blasting nozzles be equipped with an operating valve, which shall be designed to be held open only by continuous hand pressure and shall close immediately upon release of hand pressure (i.e., a "deadman" control). The valve shall not be modified in any manner that would allow it to remain open without the application of continuous hand pressure by the operator. Failure to comply with the above warning could result in release of high speed abrasive and compressed air resulting in death or serious injury. OSHA 29CFR 1910.244(b)
- Point the abrasive blasting nozzle only at the surface being abrasive blasted. Never point the abrasive blasting nozzle or abrasive stream at yourself or others.
- Unless otherwise specified, maximum working pressure of abrasive blasting pots and related components must not exceed 150 psi. Exceeding maximum working pressure of 150 psi could cause the abrasive blasting pot and components to burst. Failure to comply with the above warning could result in death or serious injury.
- Never weld, grind or drill on the abrasive blasting pot (or any pressure vessel). Doing so will void ASME certification and manufacturer's warranty. Welding, grinding or drilling on the abrasive blasting pot (or any pressure vessel) could weaken the vessel causing it to burst. Failure to comply with the above warning could result in death or serious injury. (ASME Pressure Vessel Code, Section VIII, Division 1)
- This equipment is not intended for use in any area that might be considered a hazardous location, as described in the National Electric Code NFPA 70, Article 500. Use of this equipment in a hazardous location could cause an explosion or electrocution.
- Never hang objects from the abrasive blasting pot handle. Doing so may cause the abrasive blasting pot to become unstable and tip over.
- Never attempt to move an abrasive blasting pot containing abrasive. Never attempt to manually move abrasive blasting pots greater than 6.5 cubic foot capacity. Always use at least two capable people to manually move an abrasive blasting pot on flat, smooth surfaces. A mechanical lifting device must be used if an abrasive blasting pot is moved in any other manner.
- The use of this product for any purpose other than originally intended or altered from its original design is prohibited.

HAZARD IDENTIFICATIONS

A WARNING

Failure to comply with ANY WARNING listed below could result in death or serious injury.

- This product is not for use in wet environments. Always use a Ground Fault Interrupter Circuit (GFIC) for all electrical power source connections. Use of this product in wet environments could create a shock or electrocution hazard.
- Frozen moisture could cause restrictions and obstructions in pneumatic control lines. Any restriction or obstruction in the pneumatic control lines could prevent the proper activation and deactivation of the remote control system, resulting in the release of high speed abrasive and compressed air. In conditions where moisture may freeze in the control lines an antifreeze injection system approved for this application can be installed.
- Do not cut, obstruct, restrict or pinch pneumatic control lines. Doing so could prevent the proper activation and deactivation of the remote control system, resulting in the release of high speed abrasive and compressed air.
- Use of Marco remote control switches with other manufacturer's remote control systems could cause unintended activation of remote control systems resulting in the release of high speed abrasive and compressed air. Only Marco remote control switches should be used with Marco remote control systems.
- Always be certain to have secure footing when abrasive blasting. There is a recoil hazard when abrasive blasting starts that may cause user to fall and misdirect the abrasive stream at operator or bystander.
- Never use an abrasive blasting pot or attachments as a climbing device. The person could slip and fall. The abrasive blasting pot could become unstable and tip over.
- For equipment manufactured by entities other than Marco, you must consult the Original Equipment Manufacturer operator's manuals, information, training, instructions and warnings, for the proper and intended use of all equipment.
- Flammable fumes, such as solvent and paint fumes in the work area can present an ignition or explosion hazard if allowed to collect in adequate concentrations. To reduce conditions that could result in a fire or an explosion, provide adequate ventilation, eliminate all ignition or spark sources, keep the work area free of debris, store solvents and solvent contaminated rags in approved containers, follow proper grounding procedures, do not plug/unplug power cord or turn on/off power switches when flammable fumes are present, keep a working fire extinguisher or provide another fire suppression system in the work area. Cease all operations and correct condition if a spark or ignition source is identified during operation.
- Always depressurize the entire system, disconnect all power sources and lockout/tagout all components before any maintenance or troubleshooting is attempted. Failure to comply with the above warning could cause electrical shock and inadvertent activation of equipment resulting in death or serious injury.
- Moving parts can present an area where crushing, pinching, entanglement or amputation may occur. Do not place body parts or foreign objects in any area where there are moving parts.
- Surfaces of heated supply tanks, drums and/or lines as well as the adjoining plumbing may become hot during normal use. Do not touch these heated surfaces without proper protection. Deactivate and allow sufficient time for all surfaces to cool before attempting any maintenance.
- High-pressure fluid from gun, hose leaks, or ruptured components can pierce skin and can cause a serious injury that may result in amputation. Do not point gun or spray tip at anyone or at any part of the body. Keep clear of any leaks or ruptures. Depressurize the entire system before attempting cleaning, inspecting, or servicing equipment.
- Exposure to toxic fluids or fumes may occur during the normal operation of this system. Before attempting to fill, use, or service this system, read MSDS's to know the specific hazards of the fluids you are using. Always use proper Personal Protective Equipment when attempting to fill, use, or service this system.

HAZARD IDENTIFICATIONS

Failure to comply with ANY CAUTION listed below may result in minor or moderate injury.

- Static electricity can be generated by abrasive moving through the abrasive blasting hose causing a shock hazard. Prior to use, ground the abrasive blasting pot and abrasive blasting nozzle to dissipate static electricity.
- ► High decibel noise levels are generated during the abrasive blasting process which may cause loss of hearing. Ensure appropriate Personal Protective Equipment and hearing protection is in use.

NOTICE

Failure to comply with ANY NOTICE listed below could pose a hazard to personnel or property.

- See Air & Abrasive Consumption Chart for estimated abrasive consumption rates and required air flow (cubic feet per minute). Your system must meet these minimum requirements to ensure proper function and performance.
- Always use abrasive that is dry and properly screened. This will reduce the potential for obstructions to enter the remote control system, abrasive metering valve and abrasive blasting nozzle.
- Moisture build-up occurs when air is compressed. Any moisture within the abrasive blasting system will cause abrasive to clump, clogging metering valves, hoses and nozzles. Install an appropriately sized moisture separator at the inlet of the abrasive blasting system. Leave the moisture separator petcock slightly open to allow for constant release of water. If insufficient volume of air exists and petcock is unable to be left open (at all times) petcock should be opened frequently to release water.
- To reduce abrasive intrusion in the air supply hose, depressurize the abrasive blasting pot before shutting off air supply from compressor.
- Inspect abrasive blasting nozzle before placing into service. Damage to abrasive blasting nozzle liner or jacket may occur during shipping. If you receive a damaged abrasive blasting nozzle, contact your distributor immediately for replacement. Abrasive blasting nozzles placed into service may not be returned. Abrasive blasting nozzle liners are made of fragile materials and can be damaged by rough handling and striking against hard surfaces. Never use a damaged abrasive blasting nozzle.
- Abrasive blasting at optimal pressure for the abrasive used is critical to productivity. Example: For an abrasive with an optimal abrasive blasting pressure of 100 psi at the abrasive blasting nozzle, one pound per square inch of pressure loss will reduce abrasive blasting efficiency by 1.5%. A 10 psi reduction in air pressure will cause a 15% loss of efficiency. Use a Needle Pressure Gauge to identify pressure drops in your system. Consult with your abrasive supplier for the requirements of your abrasive.
- Replace abrasive blasting nozzle if liner or jacket is cracked or damaged. Replace abrasive blasting nozzle if original orifice size has worn 1/16" or more. Determine abrasive blasting nozzle wear by inserting a drill bit 1/16" larger than original size of abrasive blasting nozzle orifice. If the drill bit passes through abrasive blasting nozzle, replacement is needed.

DESCRIPTION

Description

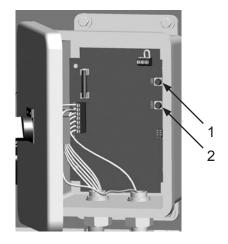
A dust collector creates an engineered air flow in an enclosure, providing ventilation and collecting airborne dust and debris. Abrasive blasting performed in an enclosure requires a dust management system for compliance with OSHA regulations governing the work site. Removing airborne dust and debris from an enclosure improves work site safety and visibility, increasing production rates. The Dustmaster[®] 6,000 CFM Electric Dust Collector has a reverse incline blade fan matched to a 15 horsepower Electric motor to generate up to 6,000 CFM of air flow. Typical applications include blast rooms, blast yards, bridges, shipyards, storage tanks, and water treatment plants.

Adjust Pulse Separation

A WARNING

Always depressurize the entire system, disconnect all power sources and lockout/ tagout all components before any maintenance or troubleshooting is attempted. Failure to comply with the above warning could cause electrical shock and inadvertent activation of equipment resulting in death or serious injury.

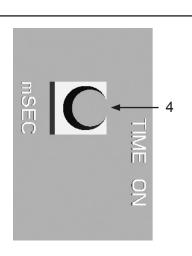
- 1) Open enclosure door of Timer Controller.
- 2) Locate Adjustment Knobs (1 and 2).



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3) Set the Pulse Separation, the elapsed time between pulses, by moving Knob (3). The recommended elapsed time between pulses is 10 seconds (90 psi at 24 cfm). Depending on conditions, the elapsed time may need to be changed. Elapsed time between pulses should be between 5–15 seconds. Header should fully repressurize between pulses.

- Set Pulse Duration, the elapsed time of compressed air entering the filters, by moving Knob (4). The recommended elapsed time of compressed air entering the filters is 200 milliseconds (mSEC). Depending on conditions, the elapsed time of air entering the filters should be between 200—350 milliseconds.
- 5) Close enclosure door of Timer Controller.



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Remove & Install Timer Board



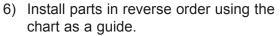
Always depressurize the entire system, disconnect all power sources and lockout/ tagout all components before any maintenance or troubleshooting is attempted. Failure to comply with the above warning could cause electrical shock and inadvertent activation of equipment resulting in death or serious injury.

NOTICE

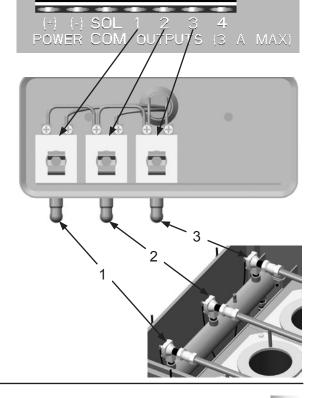
Label all hoses and connections to aid installation.

1) Turn off main power with Disconnect Switch (1).

- 2) Open Timer Board Enclosure Door (4).
- 3) Remove four Screws (2).
- Record connection location and label Wires (3).
- 5) Disconnect Wires (3).



 Adjust pulse duration and pulse separation. See Adjust Pulse Separation.



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Remove & Install Pulser Solenoid

A WARNING

Always depressurize the entire system, disconnect all power sources and lockout/ tagout all components before any maintenance or troubleshooting is attempted. Failure to comply with the above warning could cause electrical shock and inadvertent activation of equipment resulting in death or serious injury.



This equipment is not intended for use in any area that might be considered a hazardous location, as described in the National Electric Code NFPA 70, Article 500. Use of this equipment in a hazardous location could cause an explosion or electrocution. Failure to comply with the above warning could result in death or serious injury.



When performing service or maintenance on systems or devices requiring access from an elevated position, you must comply with all OSHA, local, City, State, Province, Country and jurisdiction regulations, ordinances and standards, as related to working in elevated work areas. Failure to comply with the above warning could result in death or serious injury.



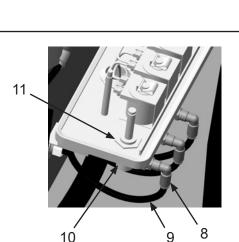
Label all hoses and connections to aid installation.

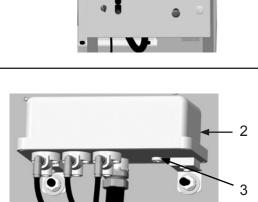
- 1) Turn off main power with Disconnect Switch (1).
- 2) Disconnect air hose from filter/regulator.

 Loosen two Screws (3) and remove Cover (2).

- 4) Disconnect Wire (6) and Wire (7).
- 5) Remove Retaining Clip (4).
- 6) Remove Operator (5).

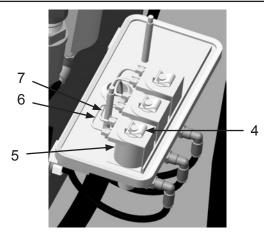
- 7) Disconnect Tubing (9).
- 8) Remove Fitting (8).
- 9) Remove Nut (11) and Valve (10).
- 10) Install parts in reverse order.





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Remove & Install Magnehelic Gauge

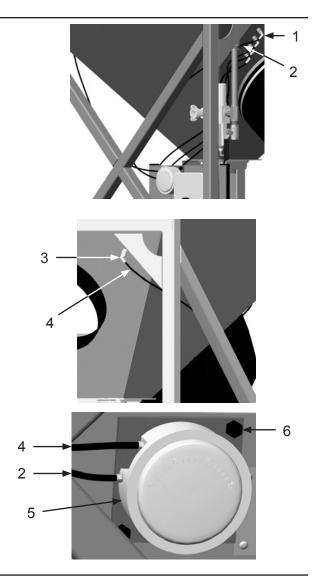


Always depressurize the entire system, disconnect all power sources and lockout/ tagout all components before any maintenance or troubleshooting is attempted. Failure to comply with the above warning could cause electrical shock and inadvertent activation of equipment resulting in death or serious injury.

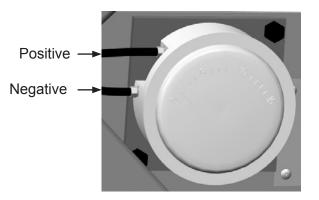


Label all hoses and connections to aid installation.

- 1) Label Hose (2) as "Negative".
- 2) Label Hose (4) as "Positive".
- Disconnect Hoses (2,4) from 90° Elbows (1,3).
- 4) Disconnect Hoses (2,4) from Magnehelic Gauge (5).
- 5) Remove Nuts, Lock Washers and Bolts (6).



- 6) Install parts in reverse order using the following special instructions:
 - Ensure labeled hoses are installed correctly. "Negative" hose installed in upper port. "Positive" hose in lower port.



Remove & Install Dust Collector Filter Cartridge Lid Assembly

A WARNING

Always depressurize the entire system, disconnect all power sources and lockout/ tagout all components before any maintenance or troubleshooting is attempted. Failure to comply with the above warning could cause electrical shock and inadvertent activation of equipment resulting in death or serious injury.

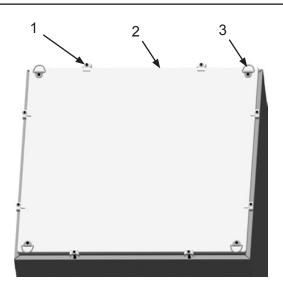


Rotating and moving parts can pinch, crush, or entangle when in motion. Follow proper lockout/tagout procedures before servicing. Failure to comply with the above warning could result in death or serious injury.



When performing service or maintenance on systems or devices requiring access from an elevated position, you must comply with all OSHA, local, City, State, Province, Country and jurisdiction regulations, ordinances and standards, as related to working in elevated work areas. Failure to comply with the above warning could result in death or serious injury.

- 1) Remove Eight Nuts and Washers (1).
- Note: Approximate weight of Lid is 85 pounds. Use suitable lifting device to support or maneuver Lid.
- Attach a suitable lifting device to four D-rings (3) and remove Lid (2).
- 3) Install parts in reverse order.



Remove & Install Pulser Manifold

A WARNING

Always depressurize the entire system, disconnect all power sources and lockout/ tagout all components before any maintenance or troubleshooting is attempted. Failure to comply with the above warning could cause electrical shock and inadvertent activation of equipment resulting in death or serious injury.

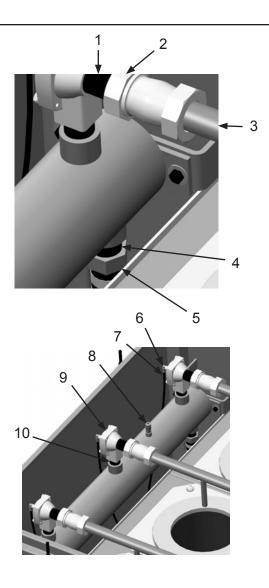
A WARNING

When performing service or maintenance on systems or devices requiring access from an elevated position, you must comply with all OSHA, local, City, State, Province, Country and jurisdiction regulations, ordinances and standards, as related to working in elevated work areas. Failure to comply with the above warning could result in death or serious injury.

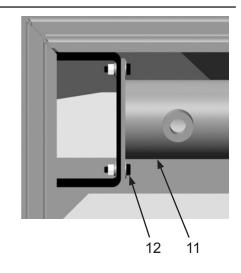


Label all hoses and connections to aid installation.

- Shutdown pulser system. See Pulser System Startup & Shutdown.
- Remove lid assembly. See Remove & Install Dust Collector Filter Cartridge Lid Assembly.
- 3) Remove hose (5) and Nipple (4) from manifold.
- Remove Compression Coupling (2) from Pulser System Blowpipe (3).
- 5) Remove Pulser System Blowpipe (3).
- 6) Remove Nipple (1).
- Disconnect Urethane Tubing (7) and remove Fitting (6).
- 8) Remove Diaphragm Valve (9).
- 9) Remove Nipple (10).
- 10) Repeat for remaining Diaphragm Valves.
- 11) Remove Pressure Relief Valve (8).



- Note: Approximate weight of Pulser Manifold is 55 pounds. Use suitable lifting device to support or maneuver Pulser Manifold.
- 12) Attach suitable lifting device to Pulser Manifold (11).
- 13) Remove four Bolts, Lock Washers, Nuts and Eight Washers (12). Remove Pulser Manifold (11).
- 14) Install parts in reverse order.



Remove & Install Dust Collector Filter Cartridges

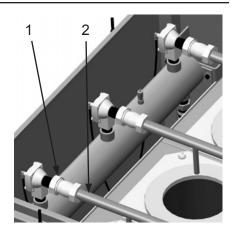
A WARNING

Always depressurize the entire system, disconnect all power sources and lockout/ tagout all components before any maintenance or troubleshooting is attempted. Failure to comply with the above warning could cause electrical shock and inadvertent activation of equipment resulting in death or serious injury.

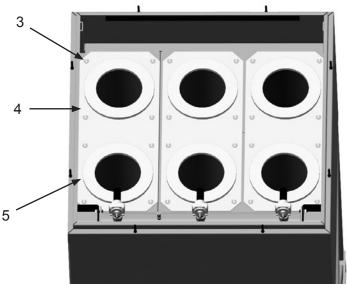


Breathing dust containing silica could cause silicosis, a fatal lung disease. Breathing dust during abrasive blasting operations, post-blast cleaning operations, and/or servicing equipment within the abrasive blasting area may expose an individual to conditions that could cause asbestosis, lead poisoning and/or other serious or fatal diseases. Harmful dust containing toxic material from abrasives or surfaces being abrasive blasted can remain suspended in the air for long periods of time after abrasive blasting has ceased. A NIOSH-approved, wellmaintained, respirator designed for the specific operation being performed must be used by anyone abrasive blasting, handling or using the abrasive, and anyone in the area of the dust. Failure to comply with the above warning could result in death or serious injury.

- 1) Shutdown pulser system. See Pulser System Startup & Shutdown.
- Remove lid assembly. See Remove & Install Dust Collector Filter Cartridge Lid Assembly.
- Remove Compression Coupling (1) from Pulser System Blowpipe (2).
- 4) Remove Pulser System Blowpipe (2). Repeat for remaining blowpipes.



- 5) Remove eight Nuts and Washers (3) from Filter Plate (4).
- 6) Remove Filter Plate (4).
- 7) Repeat for other filter plates.
- 8) Remove six Filter Cartridges (3).
- 9) Install parts in reverse order.

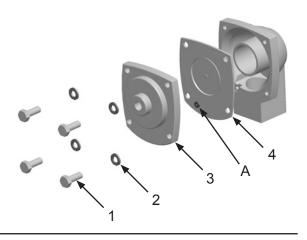


Disassemble & Assemble Diaphragm Valve

A WARNING

Always depressurize the entire system, disconnect all power sources and lockout/ tagout all components before any maintenance or troubleshooting is attempted. Failure to comply with the above warning could cause electrical shock and inadvertent activation of equipment resulting in death or serious injury.

- 1) Remove four Bolts (1) and Washers (2).
- 2) Remove Cover (3).
- 3) Remove Diaphragm (4).
- 4) Install parts in reverse order using the following special instructions:
 - Check Vent Hole (A) is not blocked or occluded.

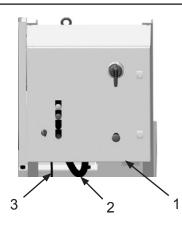


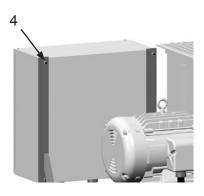
Remove & Install Control Panel

A WARNING

All electrical connections are to be made by a qualified electrician in accordance with all applicable codes, ordinances and good practices. Failure to comply with the above warning could result in death or serious injury.

- 1) Turn off 460 V, 60 Hz 17.5 FLA power source.
- Disconnect 460 V, 60 Hz 17.5 FLA power source electric cord (not shown) from control box at location (1).
- Disconnect Electrical Cords (2 & 3) from control box.
- Note: Approximate weight of Control Box is 50 pounds. Use suitable lifting device to support or maneuver Control Box.
- Note: Attach suitable lifting device to Control Box (1).
- Remove four Bolts, Nuts, Lock Washers and eight Washers (4) and remove control box.
- 5) Install parts in reverse order.





Remove & Install Fan With Motor

A WARNING

Always depressurize the entire system, disconnect all power sources and lockout/ tagout all components before any maintenance or troubleshooting is attempted. Failure to comply with the above warning could cause electrical shock and inadvertent activation of equipment resulting in death or serious injury.



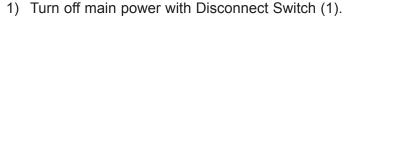
Rotating and moving parts can pinch, crush, or entangle when in motion. Follow proper lockout/tagout procedures before servicing. Failure to comply with the above warning could result in death or serious injury.



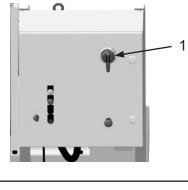
When performing service or maintenance on systems or devices requiring access from an elevated position, you must comply with all OSHA, local, City, State, Province, Country and jurisdiction regulations, ordinances and standards, as related to working in elevated work areas. Failure to comply with the above warning could result in death or serious injury.

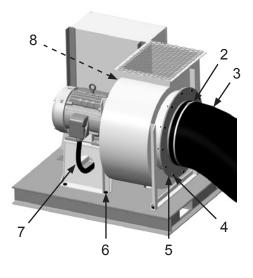


All electrical connections are to be made by a qualified electrician in accordance with all applicable codes, ordinances and good practices. Failure to comply with the above warning could result in death or serious injury.



- Disconnect Electrical Cord (7) from control box.
- 3) Remove Clamp (2) and Duct Hose (3).
- 4) Remove 12 Bolts, Lock Washers, Nuts and 24 Washers (4) and Adapter Flange (5).
- Note: Approximate weight of fan with motor is 500 lbs. Use suitable lifting device to support or maneuver fan.
- Attach a suitable lifting device to Eyelet (8) on back of fan and remove six Bolts, Lock Washers, Nuts and 12 Washers (6). Remove Fan with motor.
- 6) Install parts in reverse order.





TROUBLESHOOTING

If the Dustmaster[®] 6,000 CFM Electric Dust Collector does not function properly, check the following:

ollowing.	
SYMPTOM (Cause)	ACTION
Magnehelic Gauge reading greater than normal operating range (Dust Collector Filter Cartridges)	A reading greater than 8" (w.c) on Magnehelic Gauge indicates clogged filters. Turn off fan. Pulsers will clean down the filters. Once gauge reads back into the normal operation range of 3" — 8" (w.c), re-start fan and increase RPM to operating speed. See Unit Startup & Shutdown.
	If Magnehelic Gauge is reading above 8" (w.c.), perform After Use procedure. Inspect Pulser System and Filters. Replace filter cartridges, if needed.
	If Magnehelic Gauge is reading above 10" (w.c.), shut down unit immediately. Replace filter cartridges.
Filter Pulser System pressurizes but does not pulse (No power to control box, blown fuse in control box or timer board, disconnected wires, timer board, solenoid, diaphragm valve)	Inspect all power connections. Repair or replace faulty connections.
	Turn main power switch "ON", and look for indicator light. If indicator light does not signal, turn switch "OFF". Replace fuse.
	Turn main power switch "OFF". Replace fuse.
	Turn main power switch "ON", and look for indicator light. If indicator light does not signal, turn switch "OFF". Inspect all electrical connections.
	Inspect all solenoids and listen for audible sound as it engages to pulse. Replace solenoid.
	Inspect diaphragm valve breather vent for obstruction.
Pulser System leaks (Loose or missing hoses or connections, loose or missing urethane tubing, damaged diaphragm valves)	Check hose and hose connections betweer diaphragm valves and hopper wall.
	Check all tubing for secure connections and fittings. If fittings do not fit tightly in hose, co a small section from the end of the hose an re-insert fitting in tube.
	Inspect diaphragm valve for damage or debris. Repair or replace diaphragm valve.



Always depressurize the entire system, disconnect all power sources and lockout/ tagout all components before any maintenance or troubleshooting is attempted. Failure to comply with the above warning could cause electrical shock and inadvertent activation of equipment resulting in death or serious injury.

\Lambda WARNING

Rotating and moving parts can pinch, crush, or entangle when in motion. Follow proper lockout/tagout procedures before servicing. Failure to comply with the above warning could result in death or serious injury.

MAINTENANCE NOTES

DATE	TYPE OF SERVICE	PART NUMBER

ADDITIONAL TECHNICAL DATA

The associations listed below offer information, materials and videos pertaining to abrasive blasting and safe operating practices.

 American Society for Testing and Materials (ASTM) 100 Barr Harbor Drive West Conshohockon, PA 19428-2959

Phone: (610) 832-9585 FAX: (610) 832-9555 www.astm.org

 Occupational Safety & Health
 Administration (OSHA)
 United States
 Department of Labor
 200 Constitution Avenue
 Washington, DC 20210

Phone: (800) 321-OSHA (800) 321-6742 www.osha.gov

 The National Board of Boiler & Pressure Vessel Inspectors
 1055 Crupper Avenue Columbus, Ohio 4322

Phone: (614) 888-8320 FAX: (614) 888-0750 www.nationalboard.org

 National Association of Corrosion Engineers (NACE)

1440 South Creek Drive Houston, TX 77084-4906 Phone: (281) 228-6200 FAX: (281) 228-6300 www.nace.org

 The Society for Protective Coatings (SSPC)
 40-24th Street, 6th Floor

Pittsburgh, PA 15222-4656 Phone: (412) 281-2331 FAX: (412) 281-9992

www.sspc.org

American National
Standards Institute

(ANSI) 1899 L Street, NW, 11th Floor Washington, DC 20036

Phone: (202) 293-8020 FAX: (202) 293-9287 www.ansi.org

LIMITED WARRANTY

Seller warrants to the original purchaser that the Product covered by this Limited Warranty will remain free from defects in workmanship or material under normal commercial use and service for a period of one year from the date of shipment to the original Purchaser. This Warranty shall not apply to defects arising, in whole or in part, from any accident, negligence, alteration, misuse or abuse of the Product, operation of the Product which is not in accordance with applicable instructions or manuals or under conditions more severe than, or otherwise exceeding, those set forth in the written specifications for the Product, nor shall this Warranty extend to repairs or alterations of the Product and/or any maintenance part by persons other than Seller or Seller's authorized representatives. This warranty does not apply to accessory items. Further, this Warranty does not apply to damage or wear to the surface finish or appearance of the Product or normal wear and tear to the Product. This Warranty is limited to a purchaser who purchases the Product either directly from the Seller or from one of Seller's "Authorized Distributors". An Authorized Distributor is a Seller approved distributor that purchases the Product directly from the Seller for the sole purpose of re-selling the Product at retail, without any use or modifications whatsoever, to an end-purchaser. This warranty is specifically non-assignable and non-transferable.

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GLOBAL HEADQUARTERS

 3425 East Locust Street Davenport, IA 52803

ph: 800.BLAST.IT (800.252.7848) ph: 563.324.2519 fax: 563.324.6258

REGIONAL BRANCH OFFICES

- lowa Davenport
- Louisiana Gonzales Harvey Lafayette
- Ohio Youngstown
- Texas Beaumont Corpus Christi Deer Park



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