LARRY HESS AND ASSOCIATES, INC

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WWW.BLAST-IT-ALL.COM

BLAST-IT-ALL® BUMPER BLASTER SUCTION BLAST CABINET

NOTE: It is the responsibility of the user to read and understand this manual and to provide a safe work environment for any operator. No representation is intended as to the suitability of this equipment for any specific application. Media selection and production rates are the sole responsibility of the end user. The user takes full responsibility to insure compliance with regulations and safe operation on this equipment.



DO NOT USE SAND. SAND WILL CAUSE SILICA DUST, WHICH IS THE CAUSE OF SILICOSIS DISEASE, A CONDITION OF MASSIVE FIBROSIS OF THE LUNGS. THIS STATEMENT INDICATES POTENTIAL PERSONNEL HAZARD. FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY.

WEBSITE CONCERNING SILICOSIS:

http://www.osha.gov/Silica/IT69D 1.html

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MEDIA QUANTITY

TABLE III

SECTION I DESCRIPTION AND GENERAL INFORMATION

1-1 Purpose and Scope

This publication contains operations and maintenance instructions with a trouble shooting guide and illustrated part's breakdown for the Larry Hess & Associates, Inc. Dry Blast Cabinet.

1-2 The blast cleaning machine is of the enclosed type. Parts for processing are loaded into the cabinet through doors on the right or left side of the cabinet. The operator's hands are inserted into a pair of gloves to protect the operator and to retain the media in the enclosure. Observation of parts in process is through a tempered glass window in the cabinet front. The unit also contains a sealed, two tube, fluorescent light which illuminates the work area. This machine is equipped with a safety interlock which controls the blasting process. This provides a measure of safety for the blast operator.

An externally supplied compressed air pressure propels the media for abrasive blasting cleaning. The air pressure is routed through a moisture separator, pressure regulator, and blast control to the nozzle.

The blast cleaning machine is equipped with a media reclaiming cyclone separator. Media, dust, and debris are returned from the cabinet sump for separation. Reusable material drops through the filter screen where large particles are trapped, and into the storage hopper for reuse. The cyclone separator is equipped with an adjustable slide tube assembly, which controls the amount of dust being removed from the media.

Air and dust exhausted from the cyclone separator may be contained by several means. Standard means is the use of a Dust Bag attached to the outlet of the blower. **OPTIONAL** Dust collector systems that are offered and easily installed with the machine.

1-3 General Information

This machine is designed primarily for blast cleaning with glass beads, (size 3-13) or aluminum oxide (size 46-220). Other types and sizes of blast media require special consideration. The nozzle pressure and media is determined by the application.

SECTION II UTILITY REQUIREMENTS

2-1 Air Requirements

Compressed air with sufficient CFM and pressure must be used. Normal blast pressure should not exceed 80 PSI. Air volume (CFM) must be sufficient to maintain correct blast pressure for the gun orifice used (see Table 1). Compressed air to the dry blast cabinet must be clean and dry. Water and/or oil in the compressed air will contaminate the media and cause clogging in the machine, nozzle, reclaimer and dust collecting system. Piping to the machine should be of the size of the machine inlet or larger to prevent pressure and volume loss.

TABLE 1

Orifice	<u>CFM</u>	<u>PSI</u>
No. 4	21.0	80
No. 5	31.0	80
No. 6	47.0	80
No. 7	62.0	80
No. 8	85.0	80

2-2 Electrical Requirements

The standard blast machine is equipped with a cord and plug for 120 Volt, single phase, 60 HZ operation. All other voltages require termination wiring on the machine.

A. 1 HP, 120 Volt, 1 Phase, 60 HZ, 20 AMP. circuit

SECTION III INSTALLATION - SUCTION MACHINE

3-1 Location

In selecting a location for your blast cabinet the following should be taken into consideration:

- **A.** Access to electrical supply
- **B.** Access to compressed air supply
- C. Sufficient room around machine for parts handling
- **D.** Access to dust bag or dust collector for dust removal
- **E.** Access to reclaimer fill door to clean trash screen and add media.
- **F.** Noise level of blasting operation to other operator stations
- **G.** High atmospheric humidity conditions where moisture is pulled into the cabinet

3-2 Installation

- **A.** Remove lag bolts holding the machine to the pallet, and remove from pallet. Place the machine in the desired location.
- **B.** Remove reclaim system from pallet and place unit behind cabinet.
- C. Select the proper size flex hose and two (2) clamps to connect reclaimer to the machine. Slide one end of the flex hose on the sump outlet of the machine and clamp in place. Slide the other end of the flex hose onto the reclaimer inlet and clamp in place.
- **D.** Connect MEDIA hose to the media valve(S) located on the bottom of the RECLAIM HOPPER.
- **E.** Remove the cabinet gloves from the plastic bags and install in the cabinet front glove holes. The gloves have two (2) snap-in rings, one to the inside and one to the outside.

F. <u>Dust Bag Installation</u>: ((IF SINGLE DUST BAG IS USED))

Remove the dust bag from its package and unfold. Slide dust bag opening over the outlet of the blower housing, making sure zippered end is in the down position. Using the proper clamp, secure dust bag to the blower housing.

TABLE 2

R-18 Reclaimer - 700 CFM 1 Dust Bag (11-715)

G. Dust Collector Installation D10

Move the dust collector to a position close to the reclaimer. Slip one end of the flex hose (6 in. for D10(700 CFM) on the outlet adapter located on the top of the reclaimer and clamp in place. Slip the other end of the flex hose on the inlet damper of the dust collector and clamp in place. Connect the 1/4 inch plastic air supply line for the shaker valve to the fitting supplied on the compressed air line. Be sure the slide gate on the bottom of the Dust Collector sump is in place before starting the machine.

- H. If machine is wired for other than 120 volt single phase, wires from the machine should be terminated. A qualified electrician should connect wiring to the motor. Check side of the motor for correct wiring of desired voltage and wiring schematic.
- **I.** Connect compressed air line to the moisture trap located on the rear of the machine. (See Table 1 for compressed air requirements).
- **J.** Connect proper electricity to the machine using motor data plate and Section 2-2 for guidance.
- **K.** Connect a grounding conductor to an <u>earth</u> ground. **Example**: Cold water pipe, ground rod, etc.
- L. For machines with a dust collector, loosen the wing nut on the inlet damper handle. Move the handle to full open position and tighten wing nut to prevent damper from moving.
- **M.** Slowly turn on compressed air supply.
- **N.** Move switch to the OFF position and apply electrical power to the machine.
- **O.** Move the switch to its ON position. The two tube, fluorescent light will illuminate the interior of the cabinet and the blower motor will start.
- **P. Single Phase Machines:** Fan rotation has been checked at factory.

Q. Three Phase Machines:

Three phase motors must have the rotation of the blower checked before operating. The fan must turn clockwise in the blower housing viewed from the top, of motor side of the blower housing. If rotation is wrong, have a qualified electrician reverse rotation. If rotation is correct, press the switch marked Start and machine motor will start.

Close all doors on the machine and reclaimer. If the machine includes a dust collector, **make sure the slide gate has been installed**. Insert one hand into a glove and hold the blast nozzle firmly. Activate the blast by pressing down on the foot valve.

Observe the reading on the gauge. Adjust the regulator until the gauge reads 80 PSI. Release the foot valve and blast will stop. Activate and release foot pedal several times to become familiar with the feel of the blast.

- **R.** Stop the Reclaim Fan before adding media.
- T. Obtain the desired media selected for you operation. Open the reclaimer door and pour the correct amount of media into the hopper of the reclaimer (See Table 3). Close the reclaimer door and secure latch, making sure the reclaimer door is sealed.

Table 3

700 CFM 15 LBS MEDIA

- U. Open the machine door and place a test piece, onto the grate within reach of the gloves. Close the machine door and latch securely. Move switch to its ON position. Insert both hands into the gloves. Hold the piece to be blasted <u>firmly</u> in one hand, and the blast gun in the other. Activate the foot pedal to begin blasting.
 (Do not point GUN at viewing window).
- V. The blasting technique is similar to spray painting, that is, smooth continuous strokes are most effective. The distance of the GUN from the part effects the size and results of the blast pattern. Normal use places the GUN approximately 6-8 inches from the item, at approximately 30 to 45 degrees. Several media sizes and pressures may be required to process many varied types of materials.

W. <u>Dust Removal - Dust Bags:</u>

Obtain a container and place under the dust bag. Use the zipper in the bottom of the dust bag to open the bag and allow the accumulated dust to flow into the container. When the dust has been transferred into the container, close the dust bag by moving the zipper to its closed position.

CAUTION: NEVER OPEN DUST BAG WITH MOTOR RUNNING!

X. Dust Removal - Dust Collector:

With motor off, press the button of the air operated vibrator valve mounted on the side of the dust collector. When vibrator valve is activated, you will be able to hear the vibrator shaking the bags inside the dust collector. The vibrator should be activated for one (1) minute before releasing. Obtain a container and place under the slide gate on the sump of the dust collector. Slowly move slide gate to its OPEN position and the accumulated dust will flow into the container. When dust has stopped flowing, Close the slide gate.

CAUTION: NEVER ACTIVATE SHAKER OR SLIDE VALVE WITH MOTOR RUNNING

Note: Dust removed from the dust bag or dust collector must be disposed of in an approved manner. This dust is WASTE and should NEVER BE PUT BACK INTO THE MACHINE.

SECTION IV MAINTENANCE

4-1 Before Each Use:

- **A.** Check moisture trap and drain if needed
- **B.** Visually inspect machine for any unsafe condition
- **C.** Turn on compressed air supply
- **D.** Turn on electricity

4-2 After Each Use:

- **A.** Turn off blower fan
- **B.** Activate shaker valve on dust collector
- **C.** Turn off electricity
- **D.** Turn off compressed air supply
- **E.** Drain moisture trap

4-3 Daily Inspection:

- **A.** Clean trash screen in reclaimer
- **B.** Empty dust bag or dust collector

4-4 Weekly Inspection:

- **A.** Dust bags in dust collector
- **B.** Blast gun parts for wear
- **C.** Machine door gaskets
- **D.** Reclaimer door gasket
- **E.** Air hoses for leaks and loose clamps
- **F.** Media hose for holes or soft spots

4-5 As Needed:

- **A.** Add media
- **B.** Replace bags
- **C.** Replace worn gloves
- **D.** Replace window
- **E.** Replace reclaimer trash screen
- **F.** Replace any worn or defective blast gun parts
- **G.** Replace gaskets
- **H.** Replace hoses

SECTION V BLAST GUN - SUCTION MACHINE

5-1 Operation - Ref. Dwg. M9009

The blast gun is the heart of the blasting operation. Worn parts or improper adjustment will reduce the effectiveness of the blasting process. Compressed air enters through the orifice and is directed into the center of the nozzle. The amount of air passing through the orifice is determined by its opening. The stream of compressed air enters the nozzle venturi and creates a vacuum in the gun body. This vacuum draws media from the media metering valve (Ref. Dwg. M1118, into the gun body through the barbed fitting at the bottom of the blast gun handle. The media is drawn into the nozzle by the vacuum produced by the stream of compressed air and mixes with the compressed air. This mixture is then propelled from the nozzle onto the surface to be blasted. The air/media ratio is pre-set to give maximum blasting performance. To maintain a maximum blasting condition the blast gun must be properly adjusted with no worn parts.

5-2 Parts Replacement

- A. Nozzle: Remove nozzle nut (1) by turning counter-clockwise. Remove nozzle by pulling straight out from gun body (4). Remove old "O" ring (3). Insert new "O" ring (3) into gun body (4) until it rests squarely on the machine shoulder in the gun body (4). Insert new nozzle (2) into the gun body (4) with the tapered venturi end first, toward (7) orifice air. Make sure the nozzle (2) seats evenly on the "O" ring (3). Replace nozzle nut (1) and tighten by turning clockwise until hand tight.
- В. Orifice: Loosen clamp on ½ inch rubber hose attached to the barbed end of the orifice (7) and remove hose. Loosen orifice locknut (5) by turning counter clockwise until orifice (7) can be turned counter clockwise from the gun body (4). Inspect the end of the orifice (7), if brass is worn at an angle, replace orifice (7). The end of the orifice (7) must be straight or the stream of compressed air will not enter the nozzle (2) correctly, and vacuum will not be produced to draw media into the blast gun. The rubber cover (6) is placed on the orifice (7). The rubber cover (6) should be installed on the orifice (7) approximately 1/16 inch to 1/8 inch from end of the orifice (7). Insert orifice (7) into gun body (4) and turn clockwise approximately six turns. Replace 1/2" air hose to the barbed end of the orifice (7) and tighten clamp. Remove media hose from the bottom of the blast gun and connect 0-30 inches of water (H20) vacuum gauge. Turn compressed air supply and electricity ON. Activate foot pedal and set air pressure to 80 PSI. With foot pedal activated, note reading on vacuum gauge. Adjust orifice (7) clockwise or counter clockwise until the maximum amount of vacuum is noted on the vacuum gauge. Release foot pedal and turn orifice locknut (5) clockwise until it holds orifice (7) securely in place.

SECTION VI RECLAIMER AIR WASH

6-1 Operation

Reclaimer/Dust Bag:

Media, dust and debris are removed from the blast cabinet and enters the reclaimer through the inlet. The air velocity created by the blower assembly causes the mixture removed from the cabinet to begin spinning in the reclaimer body. This spinning action separates the dust and small particles from the good media and debris. The dust is pulled from the reclaimer body through the inner tube assembly by the air velocity and discharges into the dust bag. Good media and debris falls to the trash screen, where the debris is trapped and reusable media passes through to be used again. The amount of dust and small particles removed may be varied.

6-2 Operation

Reclaim Pull-Through

The internal operation of a pull-through reclaimer is the same as described in 6-1; the only difference is that the motor assembly is located on the dust collector. An adapter is bolted onto the reclaimer in place of the blower assembly and a flex hose connects the reclaimer to the dust collector. The dust collector is equipped with an inlet damper which must also be adjusted (See 7-4, damper adjustment).

6-3 Air Wash Adjustment

Placement of the slide tube for each type of blasting application cannot be a predetermined setting. Many factors contribute to the air wash adjustment such as media type, media size, desired finish of part, etc. Adjustment of the slide tube must be made in small increments (approximately 1/4 inch.)in the direction needed to prevent over adjustment.

Adjust slide tube up, when good media is found in the material removed from the dust bag or dust collector. Adjust the slide tube down when excessive dust is found mixed with the media. To adjust the slide tube, move the switch to its OFF position and allow the motor to stop. Disengage reclaimer door latch and open the access door. Insert arm into reclaimer housing routing hand upward through the inner cone until the round slide tube is felt. Loosen the locking "T" handle located inside the slide tube, by turning counter-clockwise. Move the slide tube in the determined direction and lock in place by turning "T" handle clockwise. Carefully remove arm and close access door and latch to insure air tight seal. The machine should be operated under blast condition until the media has been circulated through the reclaim several times. Inspect media and dust again to determine if further adjustment is needed.

SECTION VII DUST COLLECTOR

7-1 Operation

The dust bags are equipped with one end closed while the other end remains open. The blower assembly, mounted on the side of the dust collector, creates an air flow through the dust bags. This air flow draws air, media, dust and debris from the blast cabinet into the reclaimer, where the dust is separated. The dust laden air from the reclaimer is drawn into the dust bags where the dust is trapped inside the bags. Clean air is then allowed to pass through the bags and exhausted from the blower assembly.

7-2 Cleaning

The bag hanger is equipped with an air operated vibrator. This vibrator is activated by an air push button located on the side of the dust collector. Cleaning of the dust bags and emptying the dust from the sump is very critical for correct operation of the blast machine. Failure to clean the dust bags reduces air movement in the blast machine and reclaimer. Results of reduced air movement includes excessive dust in cabinet, improper reclaiming, etc. (See Trouble Shooting Guide).

Dust bags should be shaken after each use or more often if needed. To shake the dust bags, first move the switch to its OFF position and allow motor to stop rotating. Press the button on the shaker valve and hold for one minute. With motor off, place a container under the slide gate in the sump of the dust collector. Move slide gate to its open position and allow dust to flow into the container. Move slide gate to its closed position. DISPOSE OF DUST IN AN APPROVED MANNER. Do not cycle dust back into the system. Do not shake bags or open sump slide gate when motor is operating. Remove wing nuts and remove access door weekly and inspect dust bags. After extended use, the dust bags will become saturated with dust and will not pass sufficient air. At this time remove the dust bags and replace with new bags.

7-3 Bag Replacement

Move the switch to its OFF position. De-energize electrical service switch and lock in its off position. Shake dust bags and empty sump as described in 7-2. Turn air supply to the unit off. Remove wing nuts and remove access door. Remove the closed end of the dust bag from the bag hanger at the top of the collector. Starting at the front, remove the bags from the bag holder. The open end of the bag has two coil springs sewn into the felt material. One spring is on each side of the bag holder. Pushing the springs inward will allow the bag to slip from its mounting hole.

Caution: Personnel protection should be taken against any dust that might escape during bag replacement. Some blasted items may produce dust that is harmful. Know what your dust contains.

To install new bags, begin by hanging the bags on the bag hanger using the loop sewn into the closed end of the bag. With the bags hanging in place, begin at the rear of the machine installing the open end of the dust bag into the bottom bag holder. Place one spring on each side of the bag holder metal. Working forward, install all bags carefully into their respective holder being careful not to cross any bags. Do not use any sharp object to install bags in bag holder. When all bags have been installed correctly, inspect and replace any worn gasket around the access door. Replace access door and tighten all wing nuts. When the blast machine is restarted, observe the exhaust from the blower for traces of dust. If dust is detected, remove access door and inspect bag installation and dust bags.

7-4 Damper Adjustment

Due to increased efficiency over the standard dust bag, the D10 and D20 dust collectors are equipped with an inlet damper. The inlet damper has an external adjustable handle which can be locked in place with a wing nut. The inlet damper should be open enough to maintain sufficient air flow for correct reclaiming and to clean dust from the cabinet. If inlet damper is open too far, it will tend to pull good media out of the reclaimer. Inspection of the dust removed from the dust collector will determine if the damper is open too far. A correct balance of the inlet damper of the dust collector and the air wash in the reclaimer will produce maximum use of selected media.

SECTION VIII

Safety Blast Control

8-1 Operation

A. Air Operated

A safety air valve is located above each cabinet door. This valve is activated when door(s) are closed.

WARNING: By-passing safety valve could cause a hazardous condition to personnel

Section IX

Trouble Shooting

9-A No Blast - No Air or Media

1. Air supply to machine turned off.

2. Regulator adjusted too low.

3. Foot valve bad.

4. Nozzle or orifice plugged.

5. Air safety interlock.

6. Main regulator bad.

7. Control regulator bad.

Solution

Turn on air supply

Set regulator to 80 PSI

Replace as needed

Back blast gun. Check and/or replace

Check & replace if needed

Check & replace if needed.

Check & replace if needed.

9-B No Media from Blast Gun (Air Only)

Probable Cause

1. Out of media

2. Media hose plugged.

3. Trash screen clogged.

Solution

Add media to reclaimer sump

Back blast

Empty screen drawer Daily Maintenance

9-C Blast Nozzle Surging

Probable Cause

1. Media valve of hose plugged.

2. Contaminated media (WET OR OILY MEDIA)

Solution

Clean or replace

Remove and replace media

9-D Cabinet Cloudy

Probable Cause

1. Low air movement

2. Media too old / too fine.

Solution

Check and empty dust filter(s)

Make sure cabinet air inlets are not blocked

Replace with new media

9-E Low or No Air Movement

Probable Cause

1. Fan motor not running.

2. Fan motor running in reverse

3. Incorrect fan speed.

4. Fan blade worn.

5. Dust bag full.

6. Dust collector full.

7. Air intake holes are blocked.

8. Inlet damper closed.

9. Flex hose - machine to reclaimer.

Solution

Check motor/fan rotation.

Reverse rotation. (See 3-2-S)

Check for correct motor voltage

Replace fan blade

Empty dust bag.

Shake bags and empty sump

Remove any obstructions covering holes

Adjust inlet damper. (See 7-4).

Flex hose off - replace.

9-F Reclaimer Not Separating (Dust in Media)

Probable Cause

1. Contaminated media

2. Adjustable air wash in reclaimer set too high.

3. Low air movement.

Solution

Replace media

Re-set air wash

Check as per 9-E.

9-G Contamination of Media

Probable Cause

1. Condensation in compressed air.

2. Oil in compressed air from air compressor.

3. Machine oil or cleaning solvents on parts

4. Atmospheric Humidity.

Solution

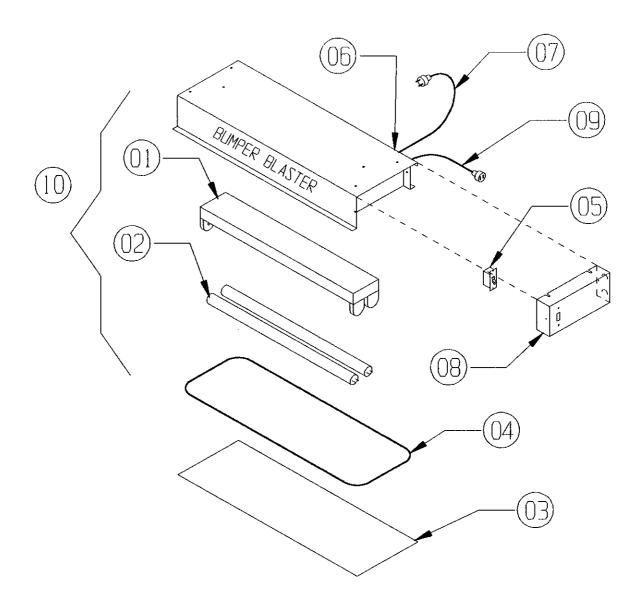
Drain moisture trap more often.

Install coalescing filter in compressor air supply.

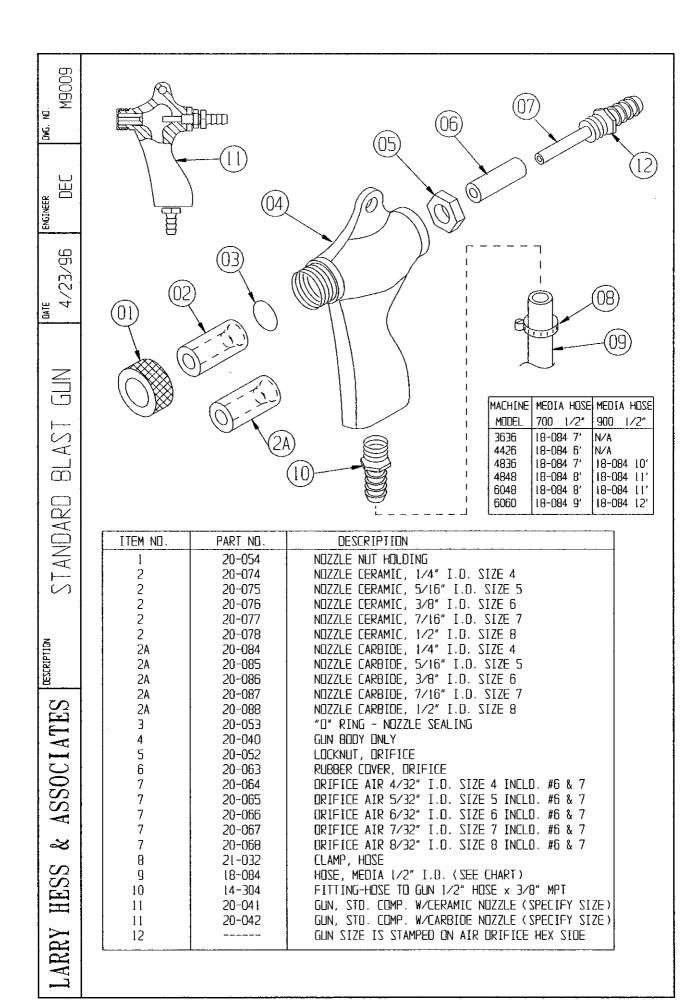
Parts being blasted should be cleaned in a solution that leaves no residue.

Machine should be placed in a location where large amounts of outside humid air is not drawn

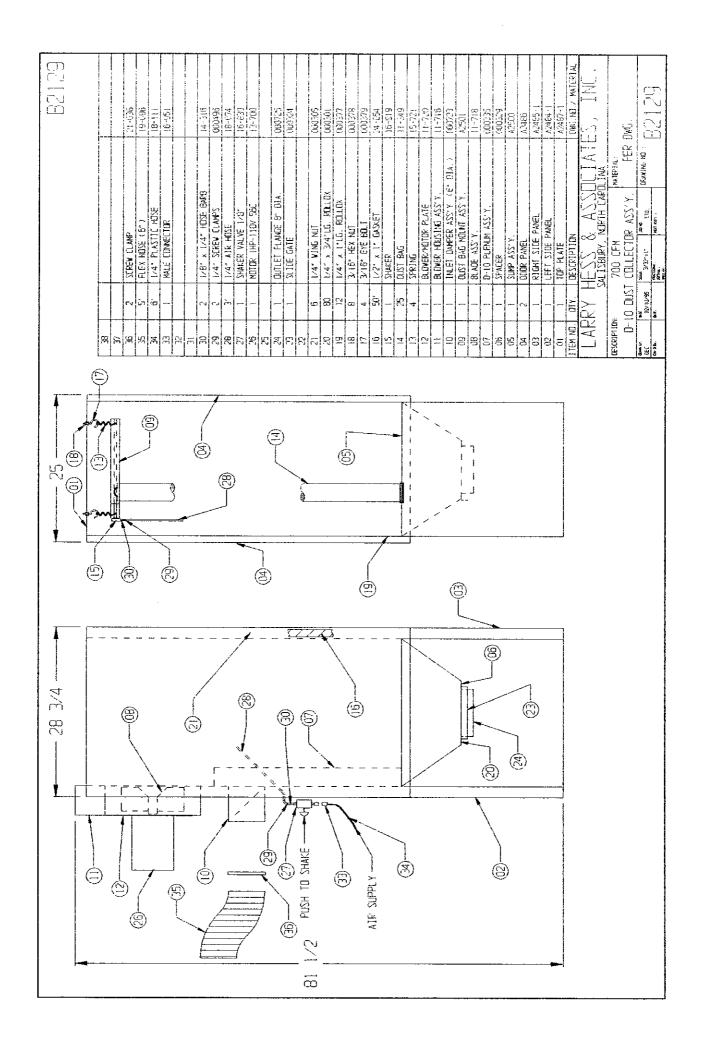
through the system.

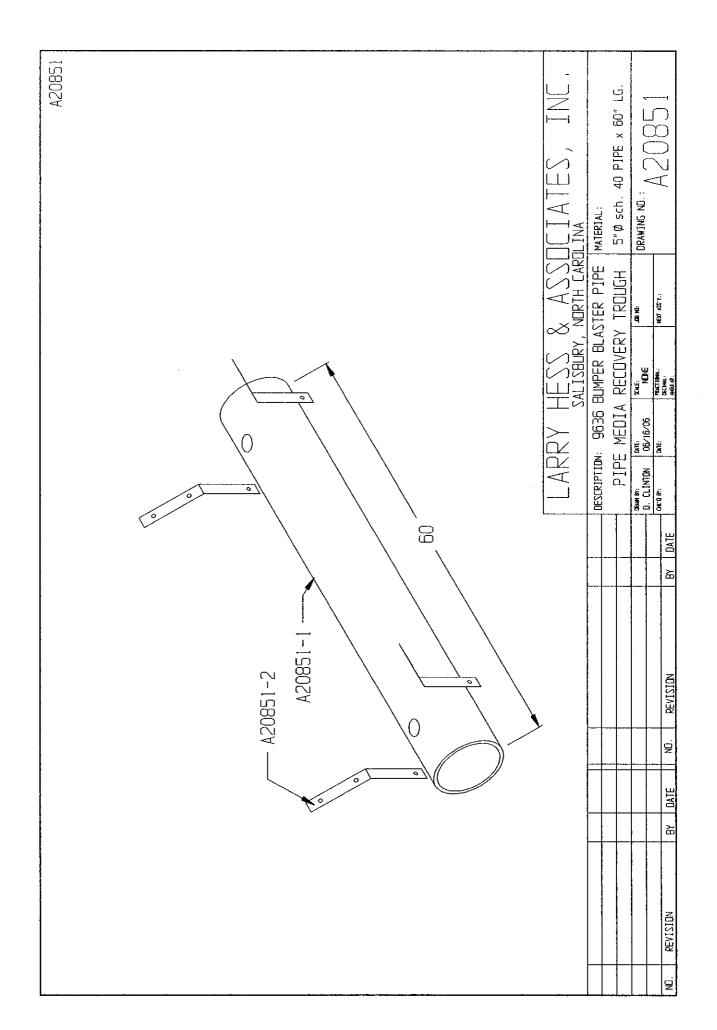


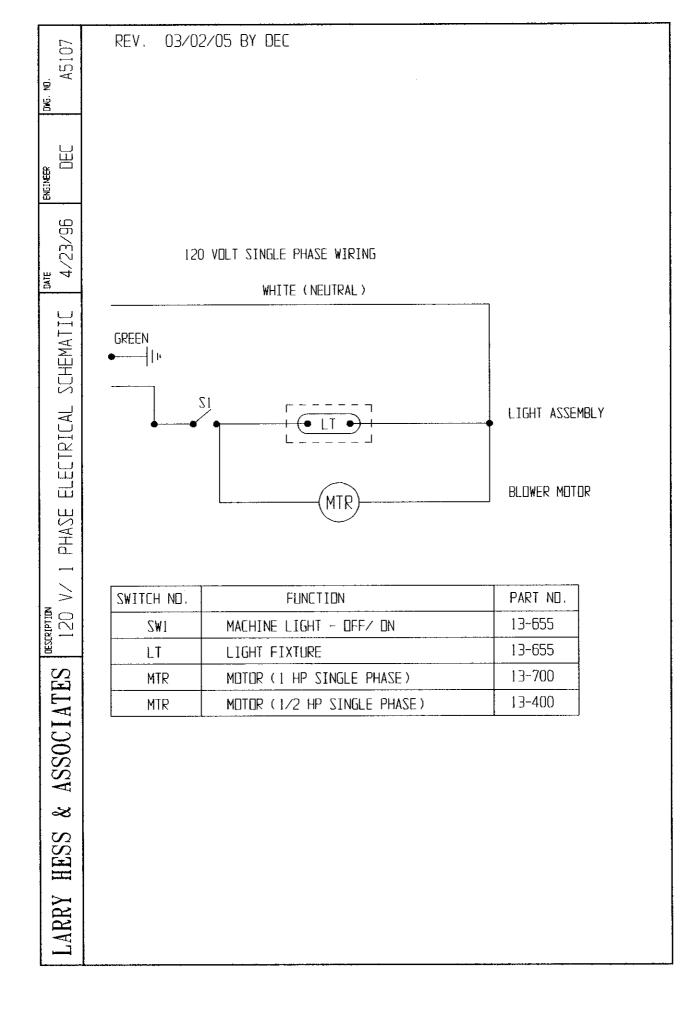
ITEM ND.	PART N□.	DESCRIPTION
1	13-533	FLUORESCENT FIXTURE, (NO TUBES)
2	13-534	FLUORESCENT TUBE
3	010216	PROTECTOR, LIGHT
4	23-059	GASKET
5	13-655	SMITCH
δ	13-605	ROUND CONNECTOR
7	13-550	POWER CORD, 3 WIRE
8	B198-2	SWITCH MOUNTING PLATE
9	010172F	CORD WITH FEMALE PLUG
10	010800	COMPLETE LIGHT BOX (EXCEPT 3 & 4)



DWG. NO. M1118	16			
ENGINEER DEC	(5)	(15)		
DATE 06/15/06	15)			
AIMER WITH REMOVEABLE TOP	3)- 4) DR (4)	4A)	(19) (19)	
WITH REME		(1) (9) (8) (1)	(19) (19) (3)	
RECI		(17		
DESCRIPTION 700	77511 115	700 554	DESCRIPTION	
	ITEM ND.	700 CFM 11-728	DESCRIPTION BAFFLE	
ES	2 3	11-705 21-034	INLET ADAPTOR (5A) 5"Ø INLET ADAPTOR 11-905	
ASSOCIATES	4 5 6	19-092 11-717	FLEX HDSE 4" (SPECIFY LENGTH) (4A) FLEX HDSE 5" 19-094 INLET WEAR PLATE (OPTIONAL)	
300	6	11-706 11-729	STD. SCREEN BASKET BASKET, HEAVY DUTY	
ASS	7 8	20-201 15-728	DRAIN PLUG DOOR LATCH & CATCH ASMB.	
ચ	9 10	11-702 11-703	DOOR AND GASKET GASKET (DNLY)	
SS	11	11-701 21-036	RECLAIMER HOUSING CLAMP	
HE	13 14 15	002028 11-731	TOP DUTLET (USED WITH DUST COLLECTOR) INNER VACUUM TUBE WITH SLIDE TUBE	
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	15 16	24-030 19-096	PUTTY TAPE FLEX HOSE, 6" TO DUST COLLECTOR (USE WITH #13) TRIPOD STAND (700)	
LARRY HESS	17 18 19	A1197 14-301 20-200	FITTING, 1/2 x 1/2 MEDIA VALVE, 2"	
		1 1		







WARRANTY

Larry Hess & Associates, Inc. Warrants to the original purchaser the merchandise sold to be free from defects in material and workmanship under normal use and service for a period of one (1) year. Upon prompt notification by the buyer, to LHA, components that are determined by LHA to be defective will be repaired or replaced at no additional charge, F.O.B. our factory.

Manufacturer shall have the right to inspect prior to replacing all merchandise in question.

This warranty does not apply to parts that are directly involved in the blasting operation. Example: gun, gun parts, viewing window, hose, gloves, etc.

Manufacturer shall not be required to pay any removal or installation charges whatsoever under this warranty.

Manufacturer shall not be liable for prospective profits, special or consequential damages, nor shall any recovery of any kind against manufacturer be greater in amount than the cost of repairs of defects in workmanship.

This warranty does not apply to damage caused by accidents, damage in transit, alterations by unauthorized personnel, abuse or damage by flood, fire, or acts of God, nor by artificially generated electric currents or any other cause whatsoever except defects in material or factory workmanship.

In all cases, defective parts must be returned to Larry Hess & Associates, Inc. before credit is issued.

If genuine BLAST-IT-ALL® replacement parts are not used, the warranty is void.

This warranty is in lieu of all other warranties expressed or implied and releases Larry Hess & Associates, Inc. of all other obligations and liabilities whatsoever. This warranty neither assumes nor authorizes any person to assume any obligation other than those specified by this warranty.

WARNING

DO NOT USE **SAND**. SAND WILL CAUSE SILICA DUST, WHICH IS THE CAUSE OF SILICOSIS DISEASE, A CONDITION OF MASSIVE FIBROSIS OF THE LUNGS. **THIS STATEMENT INDICATES POTENTIAL PERSONNEL HAZARD. FAILURE TO COMPLY WITH THESE INSTRUCTIONS MAY RESULT IN PERSONAL INJURY.**

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