# **ECO 3624**

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# **WARNING**

DO NOT USE *SAND*. SAND WILL CAUSE SILICA DUST, WHICH IS THE CAUSE OF SILICOSIS, 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 FOR SILICOSIS:

http://www.osha.gov/Silica/IT69D1.html

## **SET-UP INSTRUCTIONS**

# \*OPTIONAL\* FOOT CONTROL & AIR CONTROLS (21 CFM MINIMUM) SEE DRAWING (M7056)

- 1. Remove box from machine with Hand Gun and Air Controls.
- 2. Attach regulator bracket (item 4 to front of cabinet).
- 3. Connect regulator to bracket with lock ring.
- 4. Connect compressed air hose to inlet side of regulator.
- 5. Connect air hose from foot control to left side of cabinet.
- 6. Connect media hose to pick-up tube under grate.
- 7. Attach snap-in gloves to arm hole opening. Work snap ring into hole, one ring in front of opening and one ring behind hole.
- 8. Attach dust collector to left side of cabinet with supplied hardware.
- 9. Plug DC cord into cord from light assembly.

## ECO 12 & 21 CFM TRIGGER GUN SEE DRAWING (A9078)

- 1. Remove box from machine with Hand Gun and Components.
- 2. Connect compressed air hose to the left front side of the cabinet.
- 3. Connect media hose to pick-up tube.
- 4. Mount the media pick-up tube at the bottom of the left sump.
- 5. Connect compressed air supply to the fitting on the left front side of the cabinet.
- 6. Attach snap-in gloves to arm hole opening. Work snap ring into hole, one ring in front of opening and one ring behind hole.
- 7. Attach dust collector to left side of cabinet with supplied hardware.
- 8. Plug DC cord into cord from light assembly.

## \*OPTIONAL\*

## UNPACKING AND ASSEMBLY

## MACHINES WITH CARTRIDGE TYPE DUST COLLECTOR

- 1. Remove all shipping protection:
  Plastic wrapping, shipping pallet,
  box's inside, etc. Check for any
  concealed shipping damage, if
  discovered, report the damage to
  your freight carrier immediately.
- 2. Blast Cabinet should be placed in a desired location, away from any water or liquid environment such as cleaning vats, etc., where the air supply is not restricted and dry. If moist compressed air is present at this location, install a good moisture separator.
- 3. Installing Dust Collector:

Apply putty tape to cabinet around large hole, press to make a firm bond to cabinet and squeeze together at seam. Align the 4 hole bolt pattern and install bolts, washers, and nuts. Tighten bolts and nuts securely to seal around putty tape. Plug electrical cord from side of dust collector into plug from light box.

4. Connect the electrical cord from light box grounded electrical source, 110V/60 cycle, single phase

### **CHARGING WITH BLAST MEDIA**

5. Charge blast machine with abrasive. GLASS BEADS / ALUMINUM OXIDE Pour media into cabinet through one of doors, fill to ½ UP THE PICK-UP TUBE.

WARNING NEVER USE SAND AS A BLAST MEDIA SEE WARNING ON COVER PAGE

#### PREPARING PARTS FOR BLASTING

- 1. Preparing parts for blasting: all parts to be processed must be free of oil, grease and moisture. Make sure parts are dry before putting into cabinet for cleaning.
- 2. Air Pressure: 5 PSI to 80 PSI set air presssure at 80 PSIG. Most parts for blast cleaning can be blasted at 80 PSI. Designate parts to be processed, start at lower pressure and work up the PSI scale to obtain desired finish.
- 3. Gun Angle and Distance: Direct blast at part with and approximate (45-60) degree angle with ricochet toward the back side of cabinet. Do not hold gun at 90 degree to part being processed. This will cause the media blast to bounce back into the blast stream and slow blasting action. Also 90 degree angle will cause excessive wear on gun and viewing window. Hold gun approximately 6 inches from part being cleaned.
- 4. Media: Media should be of good quality and dry. Damp media will cause the media not to flow and will clog abrasive flow.

\*\*\*NEVER USE SAND\*\*\*

## See "WARNING" on COVER PAGE

If you are having a problem selecting media for a specified job, contact your distributor for their recommendations.

#### **TROUBLESHOOTING**

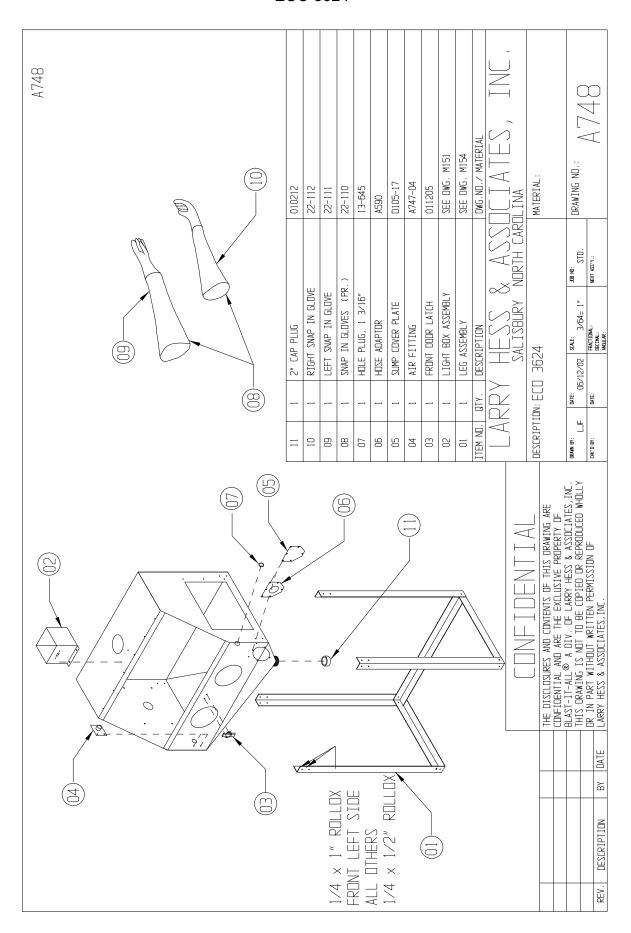
1. Blasting Gun: After 10-12 hours of blasting time the air orifice and nozzle should be checked. If the nozzle shows wear, rotate ¼ turn to prevent uneven wear. If this is not checked, it could result in destruction of nozzle and damage to the gun housing. If wear is detected on the orifice tip, replace it.

## 2. Caking of Media:

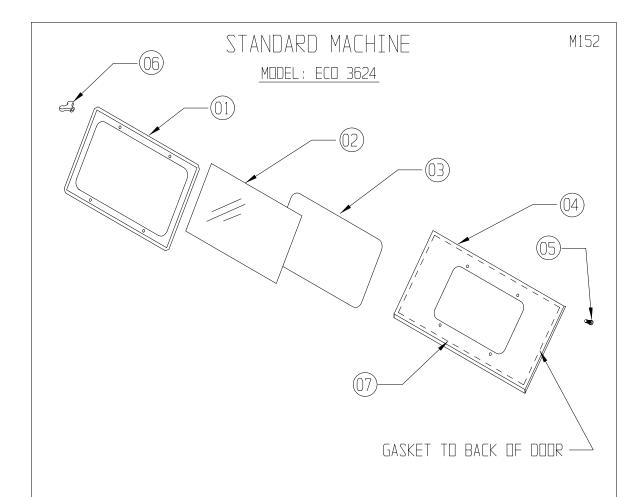
- A. Media caking is caused by moisture in compressed air supply of oily and greasy parts. If this is not corrected, media will not flow and will clog gun. Check air supply. If water or moisture is present, install a good moisture trap. If oily or greasy parts are being blast treated, you should first degrease and dry parts.
- B. If blast gun should occasionally clog, place thumb over nozzle (hold tight) and pull trigger 3 to 4 seconds. This will cause the system to back blast through the gun media hose and clear media hose.
- 3. Gun Air Pressure Drop: Set air regulator at 80 PSI on air gauge. A restriction in the supply line such as reducers of quick couplers will cause pressure drop. Also, if the blast cabinet is to far from the air compressor, a pressure drop can occur. We recommend ½"- 1" I.D. air supply line

- 4. Poor Visibility Excessive Dust:
- A. Cabinet air inlet blocked, check for blockage.
- B. Dust collector sump full and needs emptying.
- C. Cartridge contaminated. Clean by pushing up and down.
- D. Media breakdown replace media.
- 5. Poor Media Flow:
- A. Wet or damp media caused from moisture or oil in compressed air line.
- B. Use dry air or install moisture filter.
- C. Replace media and clean media sump hose.
- D. Hole in media hose from wear, replace hose assembly.
- E. Air orifice assembly in gun worn, replace assembly.

DO NOT OPEN ANY OF THE DOORS WHEN MACHINE IS IN OPERATION.



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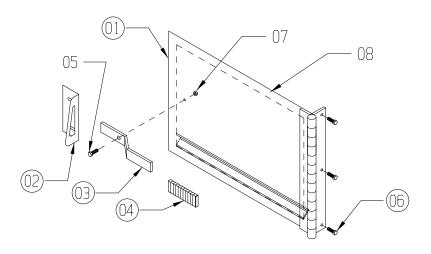


ITEM NO.	ΩTY.	DESCRIPTION	PART NO.
01	1	WINDOW FRAME	23-053
02	1	WINDOW, VIEWING	23-050
03	1	WINDOW GASKET (75")	24-054
04	1	FRONT DOOR	A745
05	4	1/4-20 x 1 ROLOX	30-148
06	4	1/4-20 WING NUT	30-510
07	1	DOOR GASKET (112")	24-054

- INSTALL FRONT DOOR TO CABINET USING (6) 10-24 x 1/2 SCREWS AND 10-24 NYLOCK NUTS.
- RUN IN (4)  $1/4 \times 1''$  ROLOX BOLTS FROM BACK OF DOOR AROUND WINDOW OPENING. INSTALL GASKET AROUND INSIDE EDGES OF DOOR.
- INSTALL GASKET TO DUTSIDE OF DOOR AROUND WINDOW OPENING.
- LAY WINDOW GLASS ON GASKET, SET WINDOW FRAME ON SCREWS AND HOLD IN PLACE WITH (4) WING NUTS.
- 13
- 14
- 15
- 16



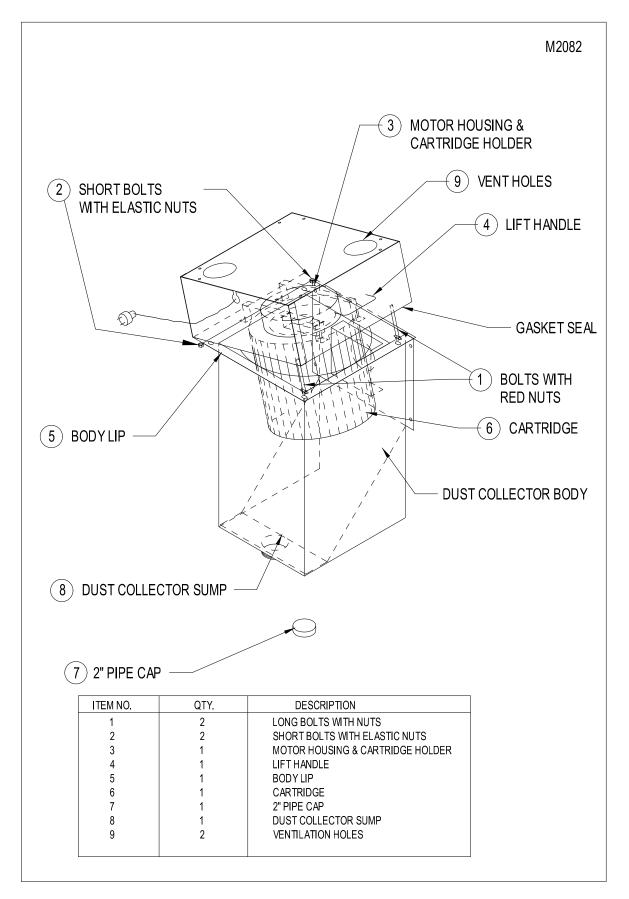
M155



ITEM NO.	ΩTΥ.	DESCRIPTION	PART NO.
01	1	SIDE DOOR	A755
02	1	LATCH, DOOR	15-718
03	1	CAM, DOOR	15-719
04	1	DOOR CAM RUBBER GRIP	15-720
05	1	1/4 x 1" BOLT	30-106
06	3	10-24 x 1/2 SCREW	30-101
07	1	1/4" NYLOCK NUT	30-503
08	1	DOOR GASKET (60")	24-054
09	3	10-24 NYLOCK NUTS	30-500

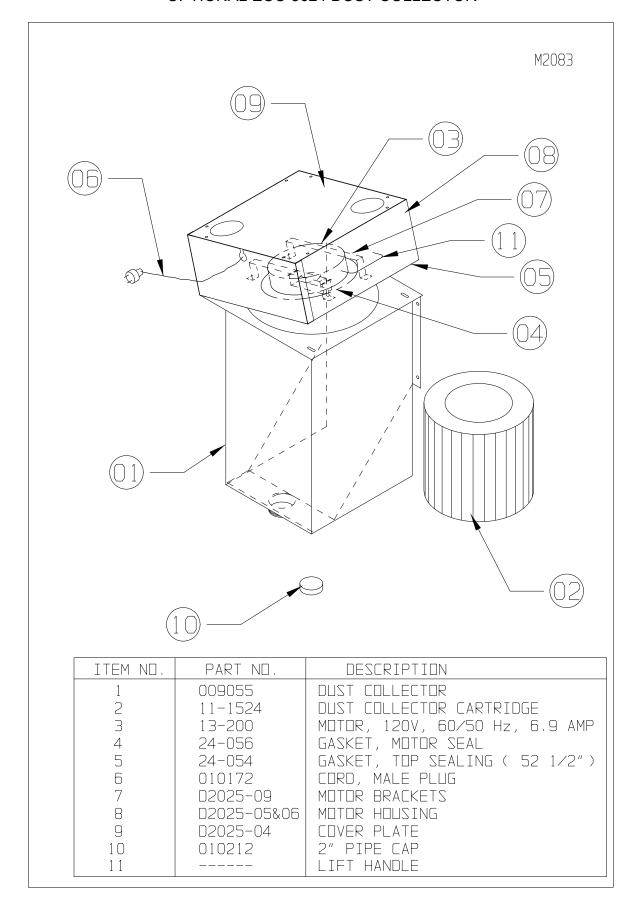
- 1. INSTALL SIDE DOOR TO CABINET USING (3) 10-24 x 1/2 SCREWS AND 10-24 NYLOCK NUTS.
- 2. RUN IN (4)  $1/4 \times 1''$  ROLOX BOLTS FROM BACK OF DOOR AROUND WINDOW OPENING.
- 3. INSTALL GASKET AROUND INSIDE EDGES OF DOOR.
- 4. INSTALL GASKET TO DUTSIDE OF DOOR AROUND WINDOW OPENING.
- 5. LAY WINDOW GLASS ON GASKET, SET WINDOW FRAME ON SCREWS AND HOLD IN PLACE WITH (4) WING NUTS.
- 13
- 14
- 15
- 16

## OPTIONAL ECO 3624 DUST COLLECTOR

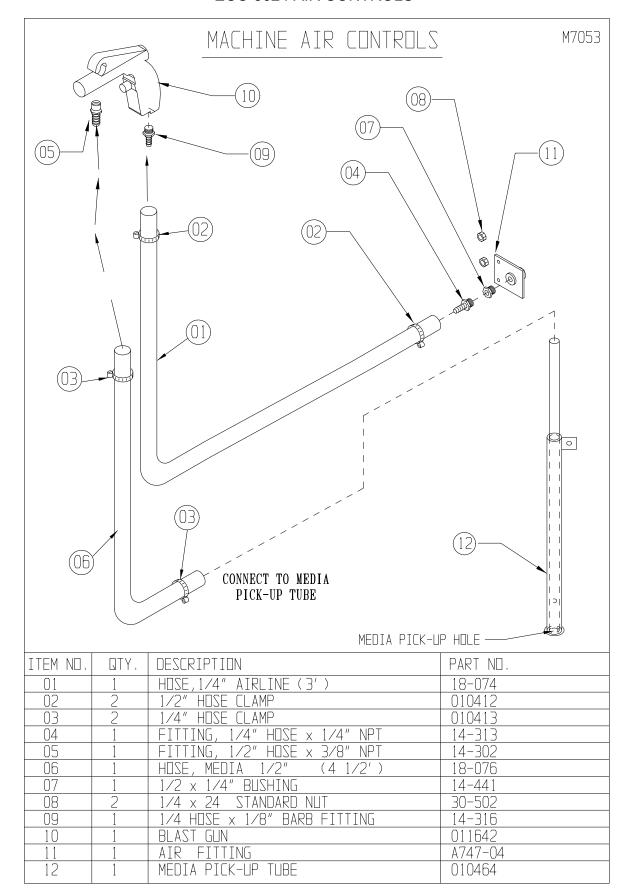


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## OPTIONAL ECO 3624 DUST COLLECTOR



#### **ECO 3624 AIR CONTROLS**

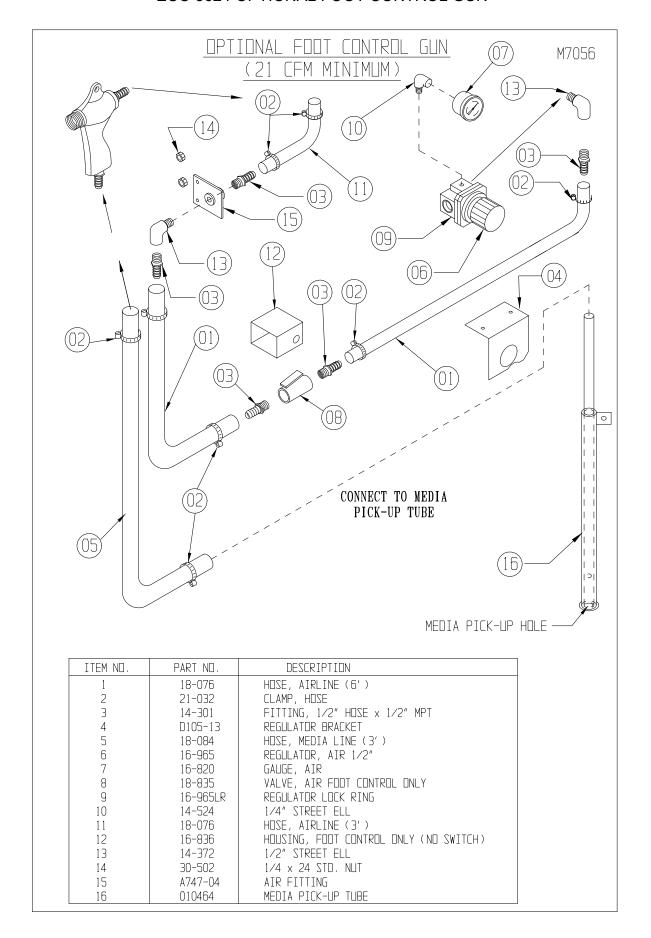


# ECO -12 OR 21 CFM GUN

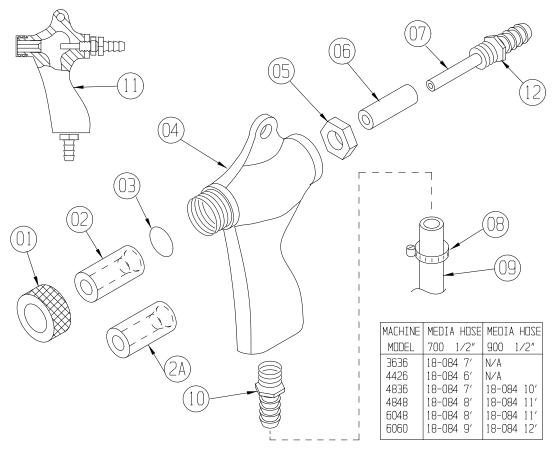
10 1 09 1 09 1 09 1 09 1 00 00 00 00 00 00 00 00 00 00 00 00 0	10 1 09 1 09 1 09 1 09 1 00 00 00 00 00 00 00 00 00 00 00 00 0	A9078	011640-1		_ARGE ) 20-053	3/8MPT x 1/2 HDSE 14-302	1/4MPT x 1/4 HDSE 14-313	GLN, HAND TRIGGER CONTROL W/END 011642	AIR JET 1/8 WITH D RING 011640	AIR JET 3/32 WITH D RING * STD. 011639	3DDY 011641	CARBIDE NDZZLE 5/16 011638	CARBIDE NDZZLE 1/4 011637	CERAMIC NDZZLE 5/16 011636	CERAMIC NDZZLE 1/4 * STD. 011635	JAPTUR 011634	GUN WITH 5/16 CARBIDE NDZZLE 011633		GLIN WITH 5/16 CERAMIC NDZZLE 011631	4 CERAMIC NDZZLE * STD.	IDN DWG.ND./ MATERIAL	TEST AND THE TABLES, THE .	MATERIAL:	
	THE DISCLIDILIRES AND CIDNIENTS OF THIS DRAWING ARE		VET STREW	D-RING (SMALL)	D-RING (LARGE)	FITTING 3/8MPT	FITTING 1/4MPT	GUN, HAND	AIR JET 1,	AIR JET 3,	SUCTION BODY	CARBIDE N	CARBIDE N	CERAMIC N	CERAMIC N	NDZZLE ADAPTOR	GUN WITH	GUN WITH	GUN WITH	GUN WITH	DESCRIPTION		J-12 DR	
	THE DISCLISURES AND CONTENTS OF THIS DRAWING ARE		-	-	-	_	-	-		-			-	1	1	-					_	/ / / / / /	[PTION: EC	
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### ECO 3624 OPTIONAL FOOT CONTROL GUN

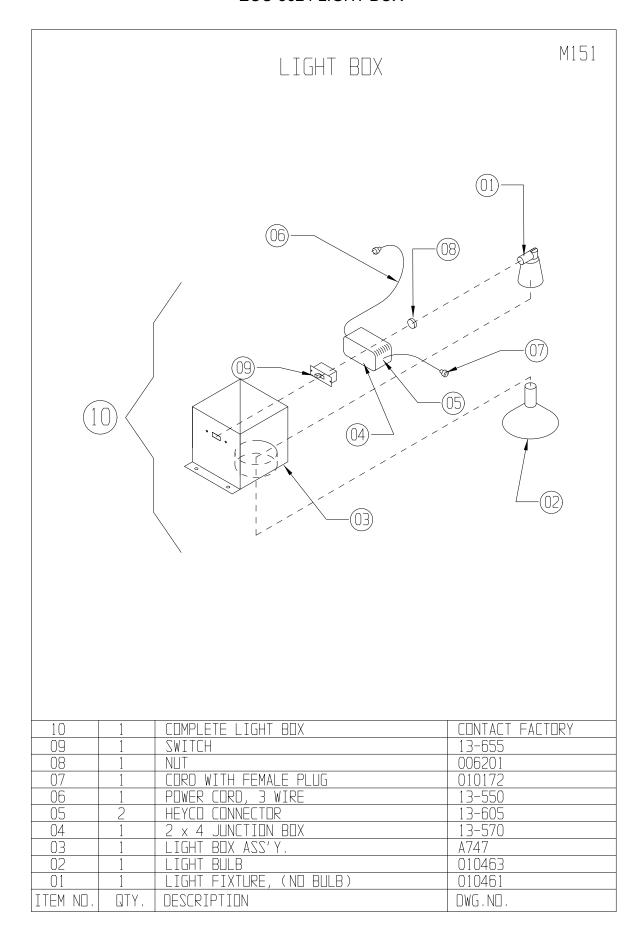


## STANDARD GUN PARTS



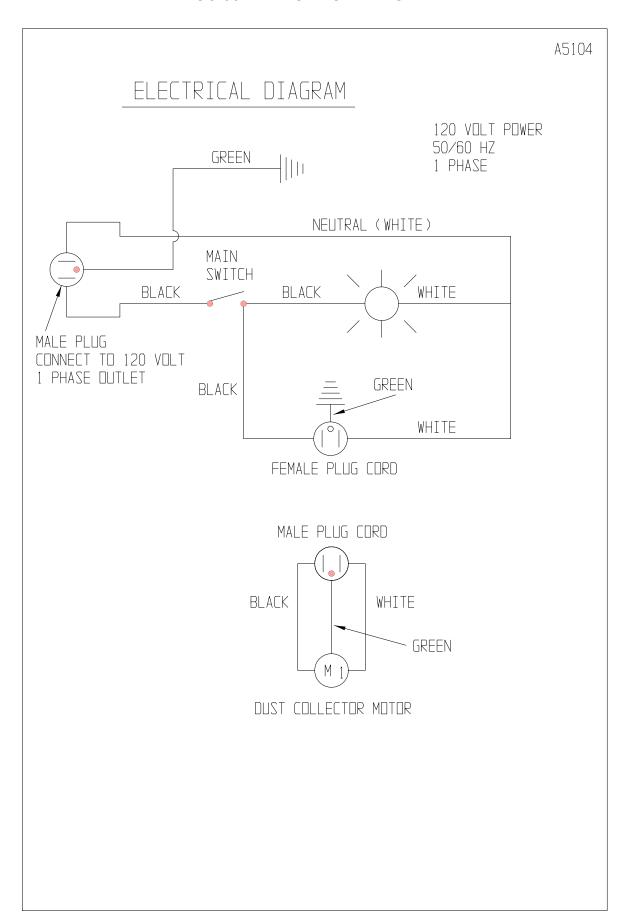
ITEM NO.	PART NO.	DESCRIPTION
1 2 2 2 2 2 2A 2A 2A 2A 2A 2A 3 4 5	PART ND.  20-054 20-074 20-075 20-076 20-077 20-084 20-085 20-086 20-087 20-088 20-053 20-040 20-052 20-063 20-064	DESCRIPTION  NDZZLE NUT HOLDING  NDZZLE CERAMIC, 1/4" I.D. SIZE 4  NDZZLE CERAMIC, 5/16" I.D. SIZE 5  NDZZLE CERAMIC, 3/8" I.D. SIZE 6  NDZZLE CERAMIC, 7/16" I.D. SIZE 7  NDZZLE CERAMIC, 1/2" I.D. SIZE 8  NDZZLE CARBIDE, 1/4" I.D. SIZE 4  NDZZLE CARBIDE, 5/16" I.D. SIZE 5  NDZZLE CARBIDE, 3/8" I.D. SIZE 5  NDZZLE CARBIDE, 3/8" I.D. SIZE 6  NDZZLE CARBIDE, 7/16" I.D. SIZE 7  NDZZLE CARBIDE, 1/2" I.D. SIZE 8  "D" RING - NDZZLE SEALING  GUN BDDY DNLY  LDCKNUT, DRIFICE  RUBBER COVER, DRIFICE  DRIFICE AIR 4/32" I.D. SIZE 4 INCLD. #6 & 7
5 6 7 7 7 7 7 8 9 10	20-052 20-063 20-064 20-065 20-066 20-067 20-068 21-032 18-084 14-304 20-041	LOCKNUT, ORIFICE RUBBER COVER, ORIFICE ORIFICE AIR 4/32" I.D. SIZE 4 INCLD. #6 & 7 ORIFICE AIR 5/32" I.D. SIZE 5 INCLD. #6 & 7 ORIFICE AIR 6/32" I.D. SIZE 6 INCLD. #6 & 7 ORIFICE AIR 7/32" I.D. SIZE 7 INCLD. #6 & 7 ORIFICE AIR 8/32" I.D. SIZE 8 INCLD. #6 & 7 CLAMP, HOSE HOSE, MEDIA 1/2" I.D. (SEE CHART) FITTING-HOSE TO GUN 1/2" HOSE x 3/8" MPT GUN, STD. COMP. W/CERAMIC NOZZLE (SPECIFY SIZE)
11 12	20-042	GUN, STD. COMP. W/CARBIDE NOZZLE (SPECIFY SIZE) GUN SIZE IS STAMPED ON AIR ORIFICE HEX SIDE

## ECO 3624 LIGHT BOX



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## ECO 3624 ELECTRICAL DIAGRAM



## 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.* 

BLAST-IT-ALL® Larry Hess & Associates, Inc. Airport Industrial Park 185 Piper Lane P.O. Box 1615 Salisbury, NC 28145-1615