

Eastwood[®]

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Item #21301

B100 INDUSTRIAL BLAST CABINET INSTRUCTIONS

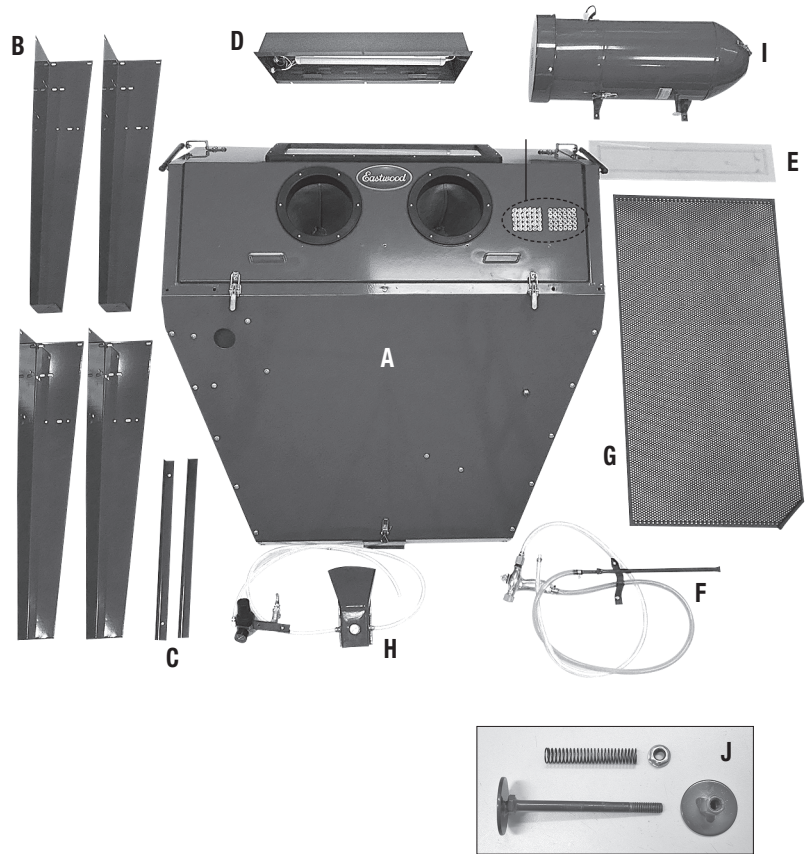


The **EASTWOOD B100 INDUSTRIAL BLAST CABINET** is constructed of heavy gauge steel with a quality powdercoated finish for maximum durability and trouble-free service. It features a high-intensity LED work lamp for increased visibility and a baffled, flow-through ventilation design with an included integral, high capacity vacuum unit all in a compact, space saving configuration. The unique clam shell front opening design provides much greater ease and safety with a low lift-over height when blasting larger or heavier items.

INCLUDES

COMPONENTS

- (1) Blast Cabinet Assembly [A]
- (4) Legs [B]
- (2) Leg Side Braces [C]
- (1) Light Fixture
(installed under lid for shipping) [D]
- (1) Glass Lamp Protection Panel
(installed under lid for shipping) [E]
- (1) Pick-up Tube/Gun/Hose Assembly [F]
- (1) Perforated Floor Panel [G]
- (1) Regulator/Air Valve/Foot Pedal Assembly [H]
- (1) Vacuum/Filter Assembly [I]
- (1) Filter Clearing Plunger Assembly [J]



ACCESSORIES

- (5) Peel-Off Window Shields
- (5) Peel-Off Lamp Protection Panel Shields
- (3) Spare Nozzles
- (1) Roll, Teflon Tape

HARDWARE

- (30) M6 x 12mm Pan Head Screws
- (30) M6 Self-Locking Nuts

REQUIRED FOR USE

- The inlet air supply must have a moisture separator capable of removing all moisture and impurities from the air supply. Moisture and/or oil in the air supply will cause clumping and clogging of the abrasive media.
- The included regulator must be used to limit incoming air pressure to 90 PSI maximum. Excessive air pressure can cause permanent damage to the unit and possible serious personal injury from bursting.
- For best results, a compressor capable of providing a minimum of 7.1 CFM @ 90 PSI is required. Less available CFM will not provide sufficient force to allow the Blaster to adequately remove rust and or paint.
- Use air supply line of 3/8" or greater. Limit air supply line to 25' or less.
- The use of Eastwood blast media is strongly recommended for proper operation. Use care to avoid using excessive grit size which can block the Nozzle.

SPECIFICATIONS

Electrical Current Requirement: Grounded 120 Volt AC, 20 Amp, 60hz.

Air Supply Requirements: Minimum 7.1 CFM, Maximum 28 CFM @ 90 PSI

Internal Dimensions: 46" wide x 22" deep x 22" high

SAFETY INFORMATION

The following explanations are displayed in this manual, on the labeling, and on all other information provided with this product:

⚠ DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious injury.

⚠ WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.

⚠ CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

⚠ NOTICE

NOTICE is used to address practices not related to personal injury.



⚠ READ INSTRUCTIONS

- Thoroughly read and understand these product instructions before using the Blast Cabinet.
- Keep these product instructions for future reference.



⚠ WARNING HEALTH AND INJURY HAZARDS!

- Silica based abrasives have been linked to severe respiratory disease. Avoid breathing dust produced by the Blast Cabinet. Always wear appropriate NIOSH approved breathing apparatus. DO NOT use any sand or silica-based abrasives with this Blast Cabinet.
- The Blasting Gun will eject particles, dust and sharp fragments at high velocity during operation. Eye protection should be worn at all times when operating this tool. Use ANSI approved safety glasses. Everyday eyeglasses are NOT safety glasses.
- **NEVER** operate the Blast Cabinet in an indoor area without the vacuum operating. Always make sure the lid is securely latched and sealed before operating.
- For maximum safety and results, operate the blast cabinet with a properly maintained vacuum unit. If dust is seeping out of the vacuum unit, stop immediately! This is a serious health hazard! Follow vacuum filter cleaning and maintenance procedure before resuming work.
- Always make sure the work area is isolated from any unprotected persons, pets or property.
- The Blast Gun can quickly start up while connected to an air supply causing serious personal injury. Always disconnect the Blast Cabinet from the air supply before changing nozzles, removing clogs or other maintenance.
- Excessive air pressure can cause tool to explode resulting in tool damage and personal injury. DO NOT exceed 90 psi [6.3 bar] of tool inlet air pressure.



⚠ CAUTION HEALTH AND INJURY HAZARDS!

- The Eastwood Industrial Blast Cabinet consists of large, heavy metal components which can cause potentially serious injuries if allowed to drop. Avoid pinching hands while handling parts during assembly. The assistance of a helper during assembly is necessary. The use of safety shoes is advised.
- Abrasive Blasting can generate excessive noise. Wear appropriate ANSI approved hearing protection while using.
- The high velocity media stream produced by this Abrasive Blaster can abrade and remove exposed flesh causing serious injury. Never operate the Blast Cabinet with lid open.
- Always dispose of exhausted media properly following all local hazardous material disposal regulations. Levels of hazardous materials such as lead, zinc chromate, etc. may be present in coatings being removed. Additional protection may be required in the presence of these substances.



⚠ CAUTION SHOCK HAZARD!

- Under certain conditions (e.g. low atmospheric humidity levels, type of media being used and/or type of material being blasted), the friction of abrasive blasting may generate static electricity and result in shocking.

ASSEMBLY

⚠ CAUTION

The Eastwood Industrial Blast Cabinet consists of large, heavy metal components which can cause potentially serious injuries if allowed to drop. Avoid pinching hands while handling parts during assembly. The assistance of a helper during assembly is necessary. The use of safety shoes is advised.

PREPARING BLAST CABINET FOR ASSEMBLY

- Unfold the cardboard packaging carton and lay it flat on a secure working surface to protect the finish of the Blast Cabinet during assembly.
- With a capable helper, carefully set the Blast Cabinet over the cardboard packaging on its back with the round glove holes facing upward (FIG 1).

REMOVE LIGHT FIXTURE AND GLASS PANEL FROM SHIPPING POSITION (D & E from A):

- Carefully unlatch the clasps holding the Clamshell Lid closed and allow it to slowly open with pressure from the attached Gas Cylinders (FIG 2).
- Reach in and while supporting the Light Fixture (D), loosen the six M6 screws holding it in place at the underside of the roof of the Cabinet.
- Carefully withdraw the Light Fixture (D) and the Glass Lamp Protection Panel (E).

⚠ CAUTION

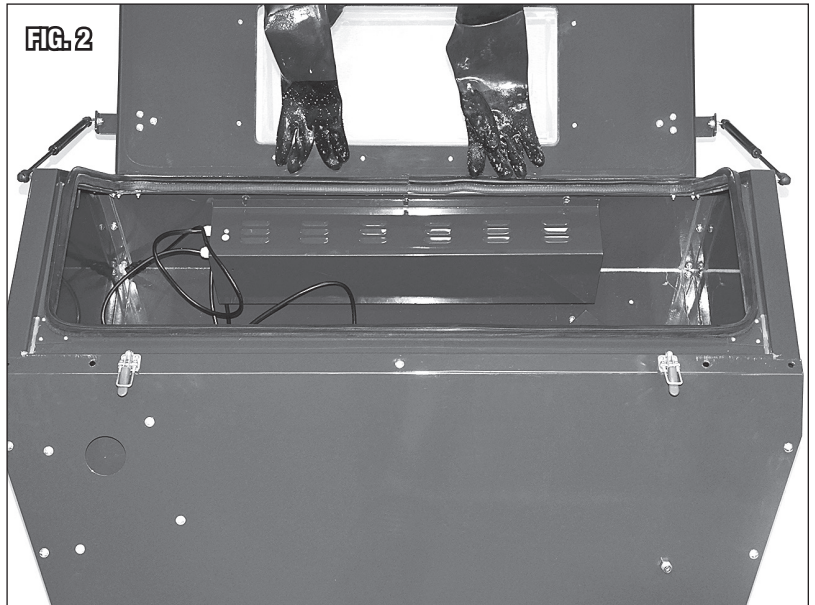
Wear appropriate work gloves to avoid receiving cuts from sharp edges of the Glass panel (E).

- Set the Light Fixture (D) and the Glass Lamp Protection Panel (E) aside in a secure location along with the six removed screws for top of Cabinet installation later.

FIG. 1

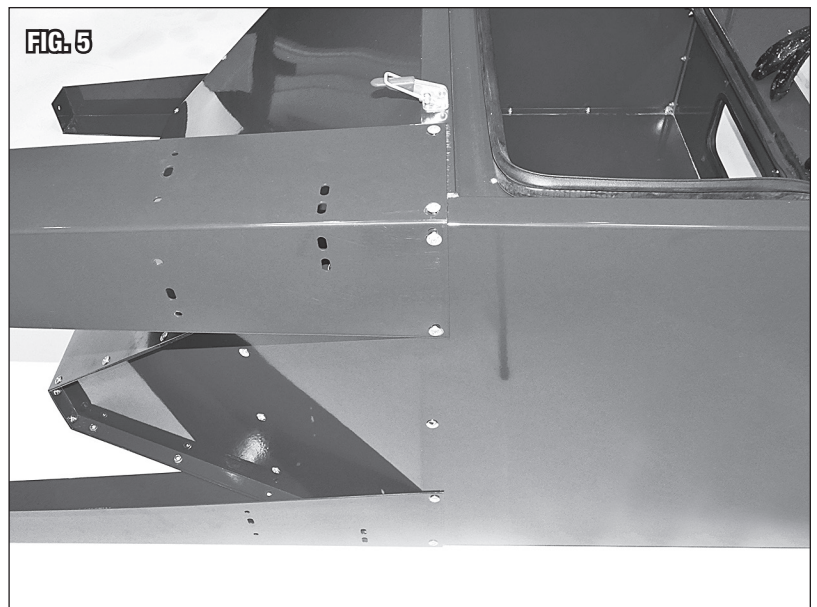
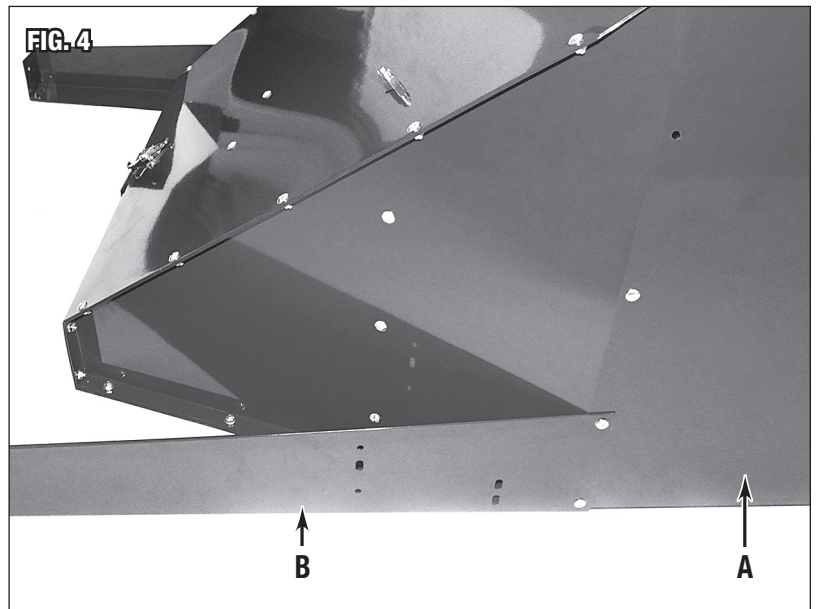
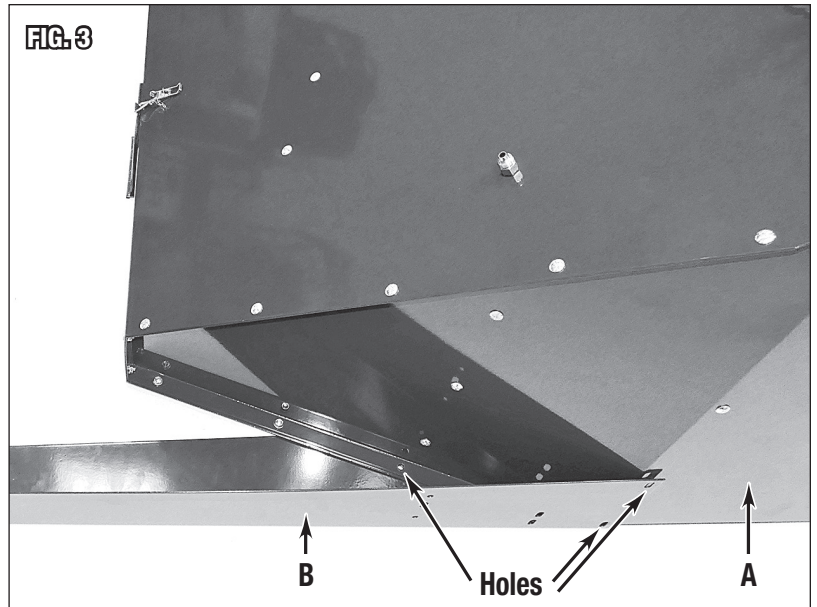


FIG. 2



ATTACH LEGS TO BLAST CABINET (B TO A):

- Slide a Leg (B) under the rear, lower corner of the cabinet (A) as a rear leg with 4 screw holes aligned (FIG 3).
NOTE: 2 of the screw holes are inaccessible at this point.
- Pass 2 M6 x 12mm Screws through holes from the outside, add M6 Nuts (FIG 4). Tighten securely.
- Place another Leg (B) over the front corner of the Cabinet (A) aligning 4 sets of holes.
NOTE: It is advisable to have a helper support the Leg while aligning holes and installing hardware.
- Insert 4 M6 x 12 mm Screws from the outside and add 4 Nuts (FIG 5).
- Repeat for front and rear legs at opposite side.



ADD LEG SIDE BRACES TO LEGS (C TO B)

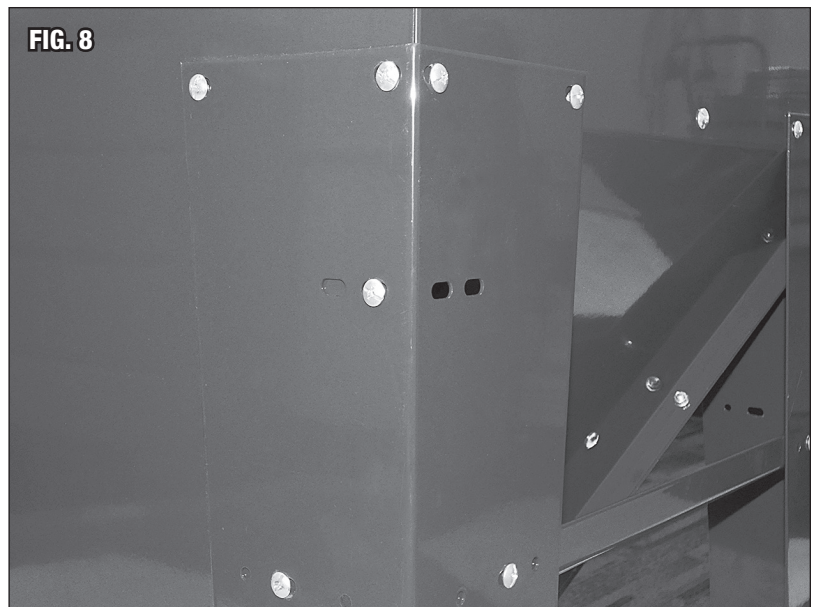
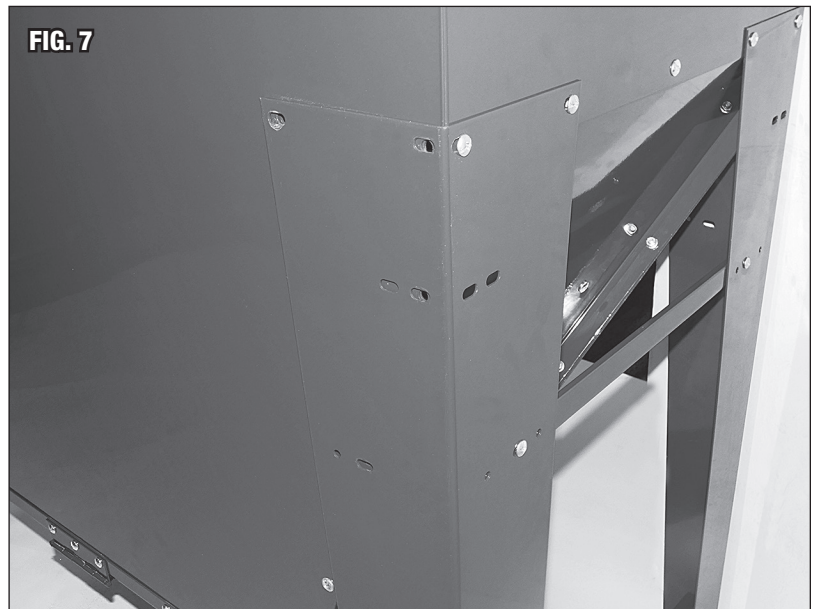
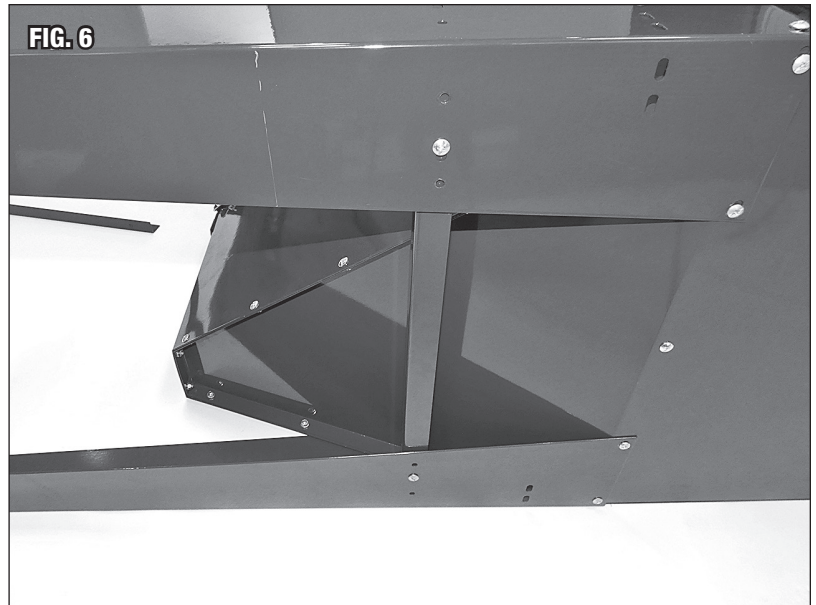
- Place a Leg Side Brace behind a set of Legs and align the screw holes (FIG 6).
- Add 2 M6 x 12mm Screw and Nuts and tighten securely (FIG 6).
- Close the Clamshell Lid against Gas Cylinder pressure and latch Clasps securely.

⚠ CAUTION

The following step requires the assistance of a capable helper as the unit is very heavy!

When raising, the rear Legs are not fully attached to the Cabinet and may be damaged or bent if not properly supported. The use of safety shoes is strongly advised.

- With helper, place gloved hands along rubber seal inside the open light fixture slot at the top of the Cabinet and lift slowly and steadily to upright position. **DO NOT** allow legs to collapse.
- Align all holes in Legs and Cabinet and add an additional 4 sets of Screws and Nuts per side. Tighten all hardware securely (FIGS 7 & 8).

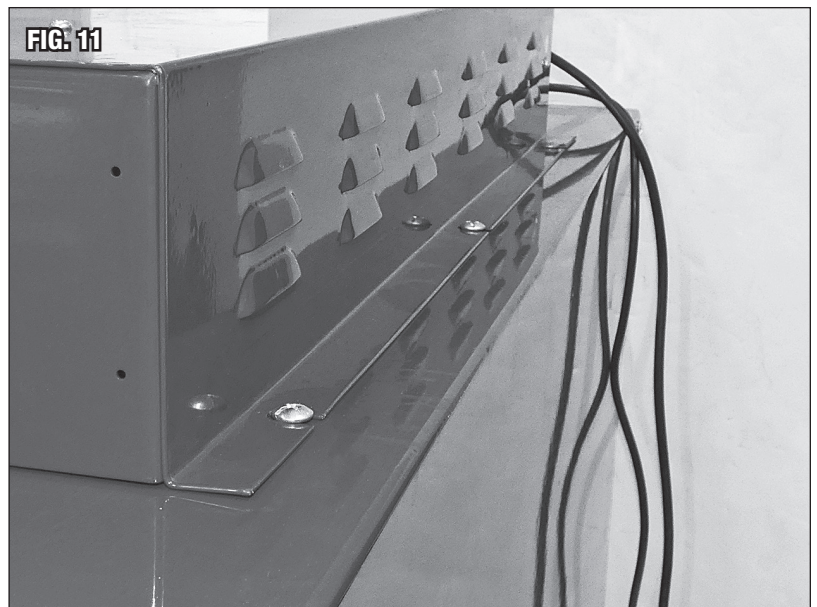
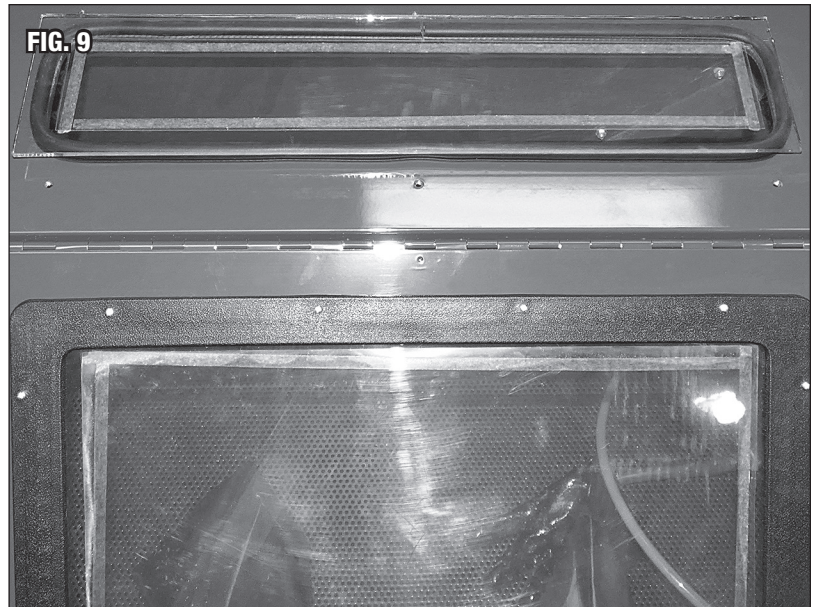


INSTALL LIGHT FIXTURE AND GLASS PANEL TO TOP OF CABINET LOCATION (D & E TO A)

⚠ CAUTION

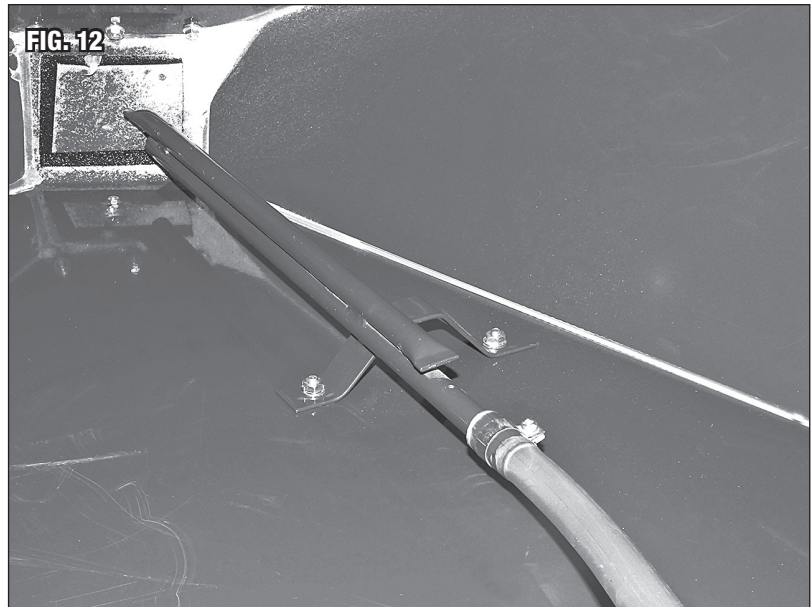
Wear appropriate work gloves to avoid receiving cuts from sharp edges of the Glass panel (E).

- Set and center the Glass Lamp Protection Panel (E) over the rubber seal WITH PEEL-OFF PROTECTIVE COVER facing downward toward inside of Cabinet (FIG 9).
- Place the Light Fixture with Switch facing forward (D) over the Glass Panel (E) and align the 3 mounting slots per side with the 6 holes in the cabinet top (FIG 10).
- Add the 6 previously removed Light Fixture Screws. **NOTE:** No nuts are required as these are pre-attached weld-nuts (FIG 11).



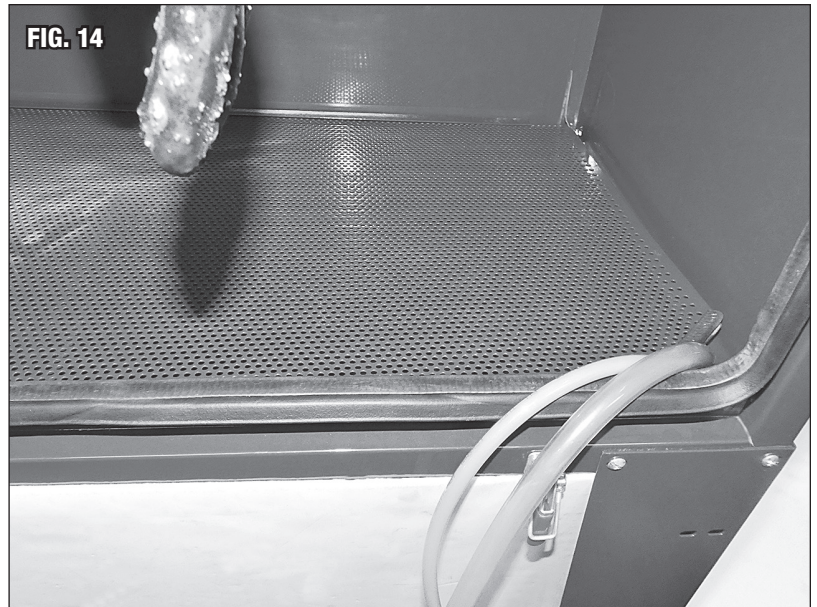
MOUNT PICK-UP TUBE/BLAST GUN/HOSE (F)

- Place the end of the Pickup Tube (F) at the bottom right of the Hopper section of the Cabinet (A), Align the mounting holes of the bracket with the 2 holes in the right front Hopper panel and secure it with 2 M6 Screws and Nuts (FIG 12).
- Slip the end of the Orange Air Supply Hose over the inner nipple of the 90° Bulkhead Fitting and secure it with the Compression Ring (FIG 13).



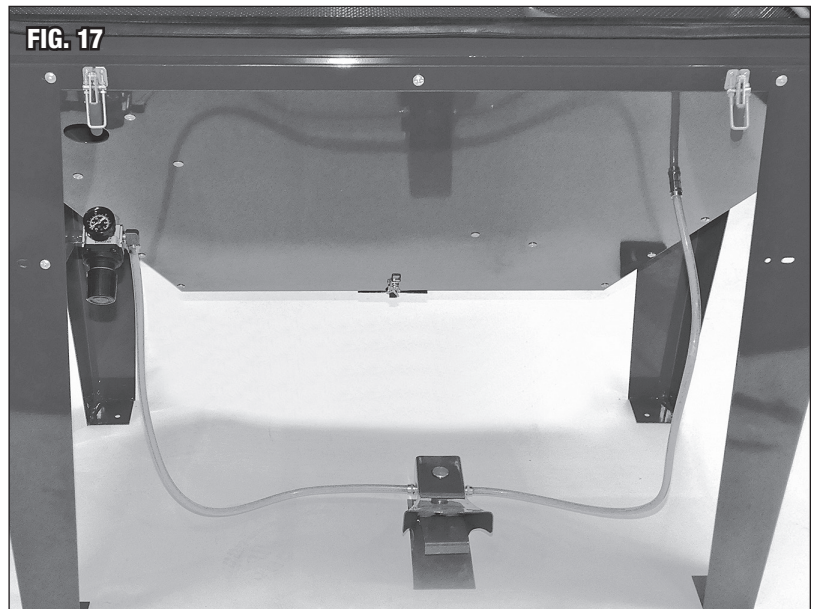
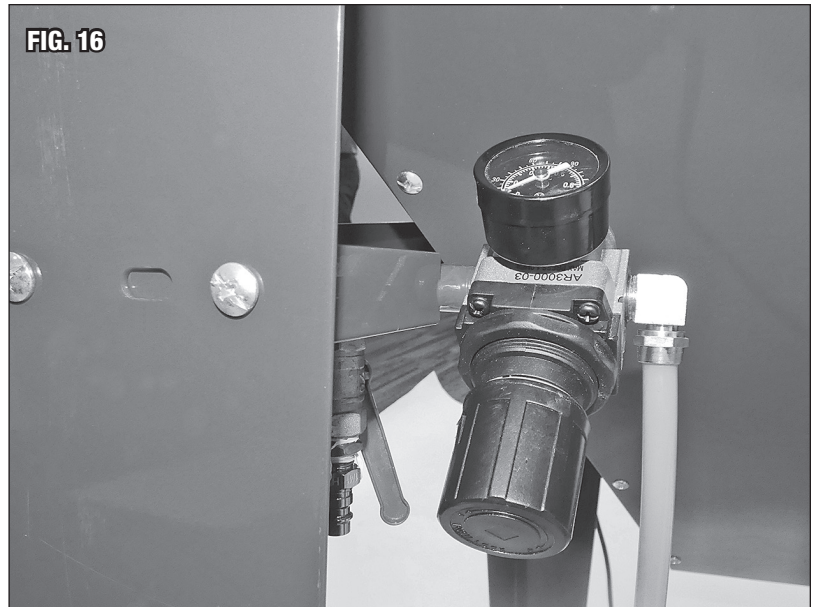
INSTALL THE PERFORATED CABINET FLOOR (G)

- Let the Abrasive Blasting Gun and Hose (F) hang out of the right front corner of the Cabinet.
- Set the Perforated Cabinet Floor (G) (with angled cut off corner toward right front of cabinet) and allow the edges to rest on the internal Cabinet support flanges (FIGS 14 & 15).



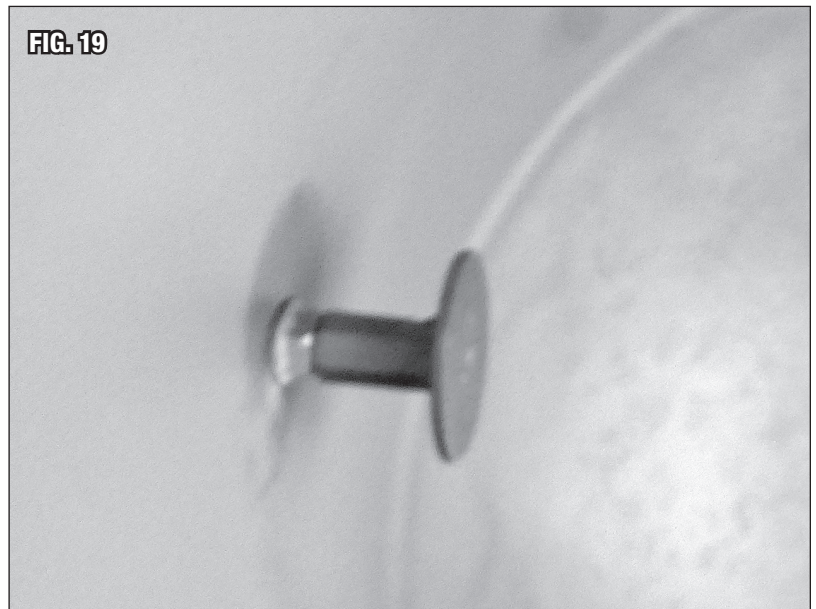
MOUNT REGULATOR/AIR VALVE/FOOT PEDAL ASSEMBLY (H)

- Set the Regulator/Air Valve in place on the upper front face of the Left Leg, align the mounting holes of the bracket with the 2 holes in the Leg and secure it with 2 M6 Screws and Nuts (**FIG 16**).
- Slip the end of the Orange Air Supply Hose over the outer nipple of the 90° Bulkhead Fitting and secure it with the Compression Ring (**FIG 17**).



ASSEMBLE FILTER CLEARING PLUNGER ASSEMBLY (J) TO VACUUM/FILTER ASSEMBLY (I):

- Unthread and separate the 2 sections of the Plunger Assembly (J), leaving the Spring in place over the stem.
- Insert the Plunger stem with the Spring into the open port of the Vacuum/Filter Cannister wall (FIG 18).
- Thread the inner Striker Head onto the threaded stem and lock into place with the supplied Locknut (FIG 19).



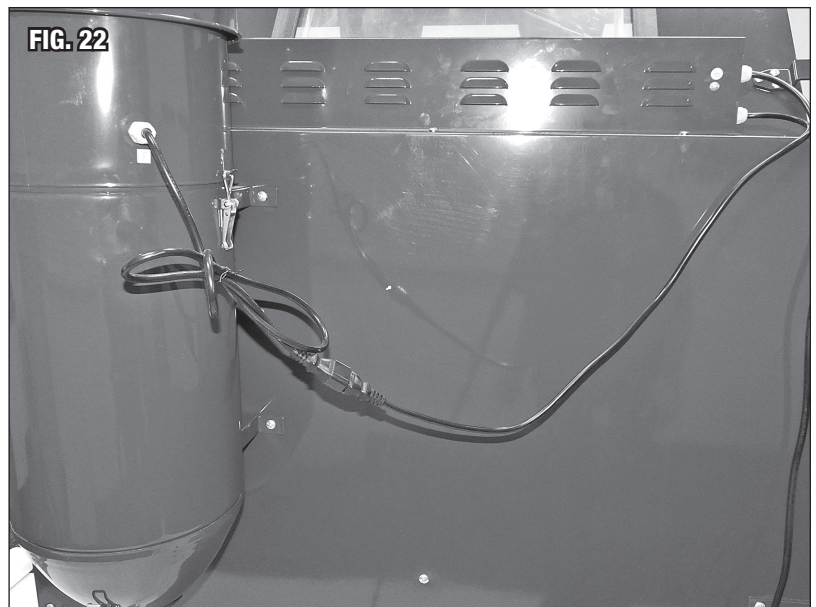
ATTACH VACUUM/FILTER ASSEMBLY TO CABINET (I TO A)

NOTE: The Vacuum/Filter Assembly is moderately heavy, and it is best to remove the Motor and Filter before installing on the Cabinet. Also, the assistance of a capable helper is necessary.

- Place the Vacuum/Filter Assembly on the floor and unlatch the 2 Clasps.
- Pull the Motor & Filter out of the top of the Housing and set it aside.
- With the assistance of a helper, align the mounting holes of the brackets with the 4 holes at the upper back wall of the Cabinet. Secure it in place using 4 sets of M6 Screws and Nuts (**FIG 20**).
- Carefully lower the Motor/Filter Assembly back into the mounted Housing and latch the Clasps securely (**FIG 21**).
- Connect the Plug on the power supply cord with the female Receptacle on the cord attached to the Light Fixture (**FIG 22**).

NOTE: The switch on the Light Fixture controls both the Light Fixture and the Vacuum at the same time.

- The Eastwood Industrial Blast Cabinet is now fully assembled and ready for use.



SET-UP BLAST CABINET FOR USE

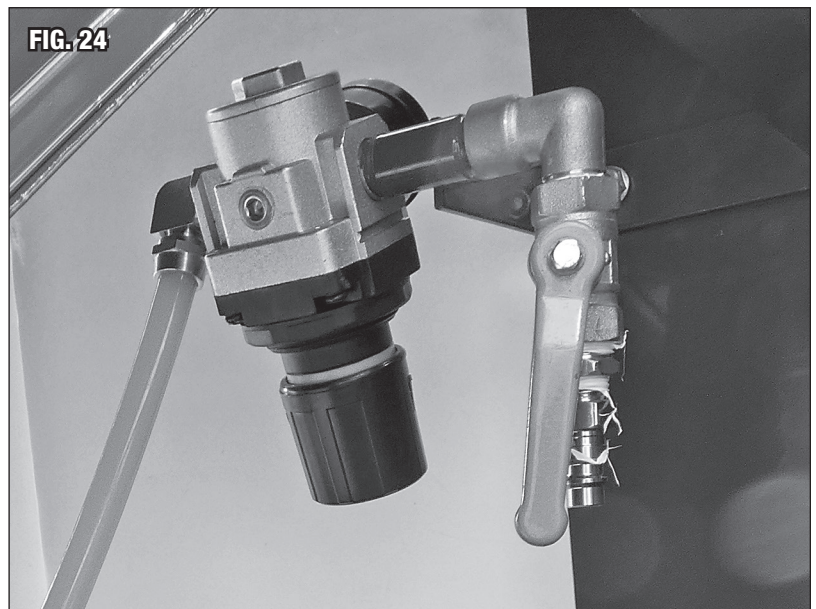
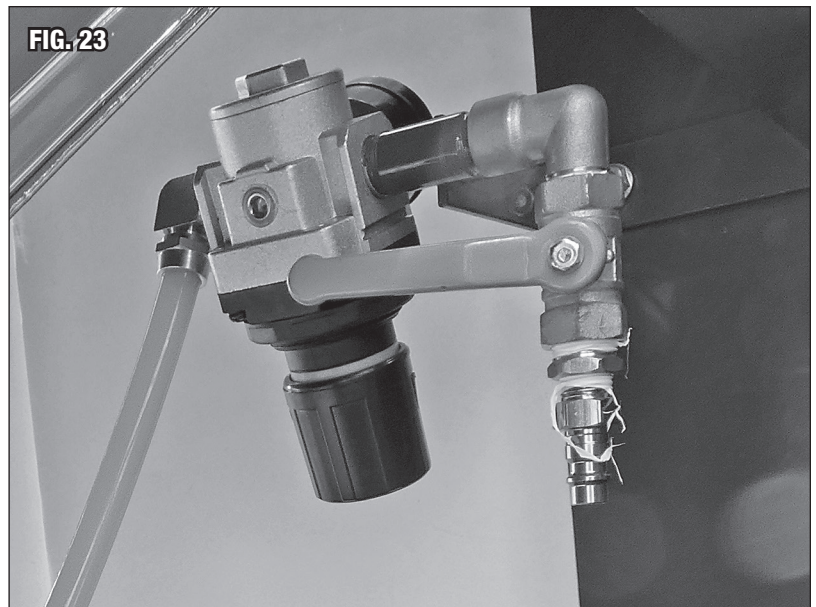
- Add Eastwood approved Blast Media. Fill to within 10" of the Perforated Floor support flanges.
DO NOT OVERFILL. Overfilling will degrade performance.
DO NOT USE SAND IN THIS BLAST CABINET!
NOTE: for best results and to avoid nozzle clogging, do not use media larger than 60 grit particle size.
- Close the Air Inlet Valve on the Regulator/Air Inlet Assembly (**FIG 23**).
- Connect to a clean and dry 90 PSI, Min 7.1 CFM, Max. 28 CFM air source.

▲ NOTICE

The inlet air supply **MUST** have a moisture separator capable of removing all moisture and impurities from the air supply. Moisture and/or oil in the air supply will cause clumping and clogging of the media. The Eastwood # 34103 Moisture Separator (not included) works well.

OPERATION

- Open the front-loading Lid, place object to be blasted on the Perforated Floor Panel.
- Open the Air Inlet Valve on the Regulator/Air Inlet Assembly (**FIG 24**).
- The included Regulator is used to limit incoming air pressure. The Regulator should be adjusted to 90 PSI maximum. Excessive air pressure can cause permanent damage to the unit.
- Connect to a properly grounded, 120V AC, 20 Amp, 60Hz outlet.
- Close and securely latch the Lid.
- Set Vacuum & Light Switch to "ON".
- Place hands into Gloves.
- Grip the Blast Gun firmly.
- Depress the Foot Pedal to discharge the blast stream.
- Direct the blast stream at the workpiece at an ideal 60°- 45° angle range.
NOTE: Avoid angles of 90° (causes excess Nozzle wear, excess wear on inside of cabinet and glass.) or less than 30° (media tends to glance off workpiece).
- When done, release Foot Pedal and allow Vacuum to run several minutes until all dust is clear from the Cabinet.
- Turn off Vacuum & Light.
- Shut off Air Supply Valve.
- Open Lid.
- Disconnect Air Supply when not in use.



MAINTENANCE

REPLACE PEEL-OFF WINDOW SHIELD

- The interior side of tempered glass Lid Window is equipped with a replaceable, full-view, peel-off, self-adhesive flexible window shield. It will become cloudy with use.

To replace:

- Peel off worn protector.
- Gently clean glass with a soft cloth and glass cleaner or alcohol.
- Peel off adhesive protective strips and apply replacement shield to interior glass surface. Press on adhesive areas to ensure an abrasive proof seal.

REPLACE PEEL-OFF LAMP PROTECTION PANEL SHIELD

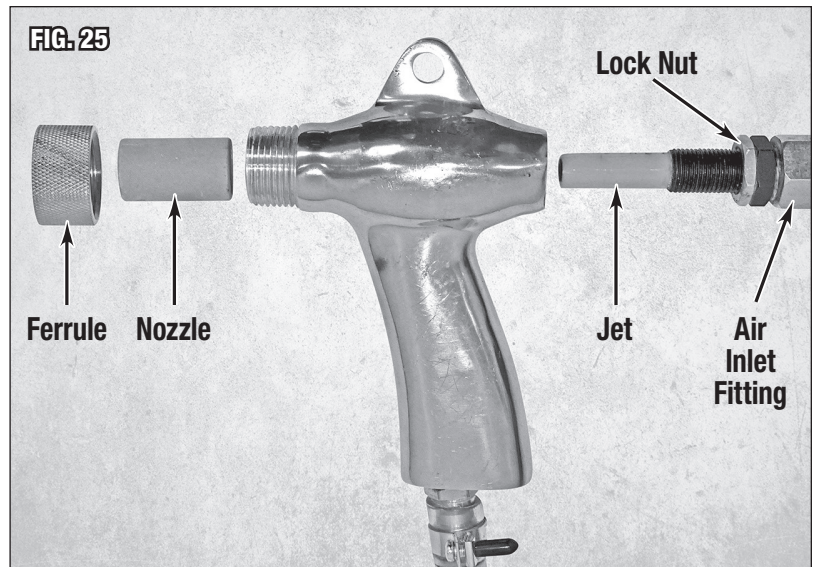
- The interior side of tempered glass Lamp Protection Panel is equipped with a replaceable, peel-off, self-adhesive flexible window shield. It will gradually become cloudy with use and can diminish light intensity.

To replace:

- Peel off worn protector.
- Gently clean glass with a soft cloth and glass cleaner or alcohol.
- Peel off adhesive protective strips and apply replacement shield to interior glass surface. Press on adhesive areas to ensure an abrasive proof seal.

CERAMIC NOZZLE REPLACEMENT

- Replace the Nozzle when you notice excessive air and blast media being used or cleaning efficiency is reduced. Nozzle replacement on the Blast Gun is easy.
- After disconnecting the unit from the air supply, unthread the Nozzle Ferrule from the front of the Gun Body, remove the Ceramic Nozzle, install replacement and thread the Nozzle Ferrule back in place (**FIG 25**).
- The Blast gun is now once again ready for use.



REPLACE BLAST MEDIA

⚠ WARNING

The fine dust accumulated by this unit is a Health Hazard! Avoid breathing dust produced by handling the Filter. Always wear appropriate NIOSH approved breathing apparatus when cleaning, emptying or maintaining the unit and use in a well-ventilated area.

⚠ NOTICE

Always dispose of exhausted media properly following all local hazardous material disposal regulations. Levels of hazardous materials such as lead, zinc chromate, etc. may be present in coatings being removed. Additional precautions may be required in the presence of these substances.

- To drain blast media from Blast Cabinet
 - Disconnect air supply to Blast Cabinet.
 - media under the Drain Panel of the Hopper.
 - Carefully release the Clasp of the Drain Panel Latch (**FIG 26**).
 - Allow the media to drain. Gently thumping the sides of the Hopper may be helpful in maintaining media flow.
 - When draining stops, clear excess media from seal area of the Drain Panel, close and latch the Clasp securely.
 - Add Eastwood approved Blast Media. Fill to within 10" of the Perforated Floor support flanges.

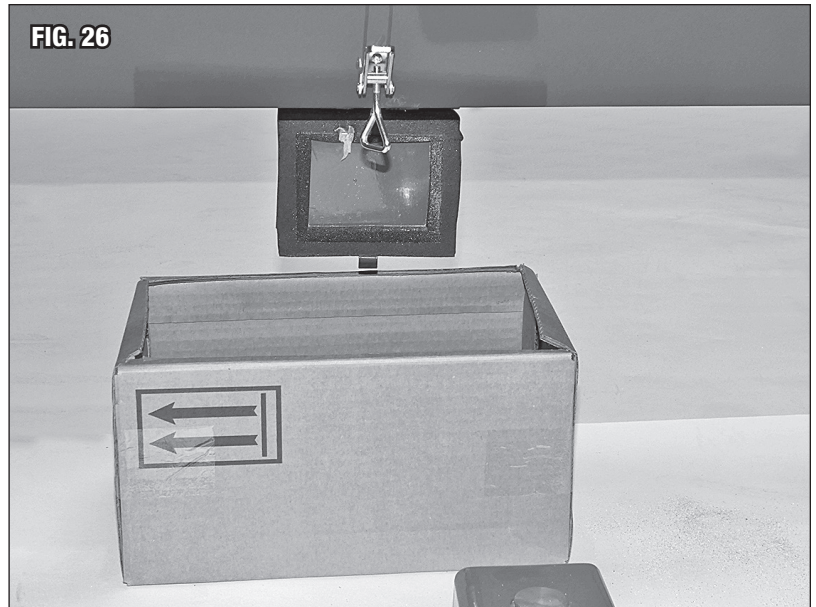
DO NOT OVERFILL.

Overfilling will degrade performance.

DO NOT USE SAND IN THIS BLAST CABINET!

NOTE: for best results and to avoid nozzle clogging, do not use media larger than 60 grit particle size.

FIG. 26



VACUUM MAINTENANCE

The Vacuum is designed to keep the dust level in the cabinet low for maximum visibility while blasting. As the Blaster is operated, make-up air enters the vent at the left front Hopper panel, circulates through the cabinet and is drawn through the outlet baffle at the upper rear panel.

- After every 10 minutes of blasting, operate the Filter Plunger at the side of the Vacuum Housing (**FIG 27**). To do so: Strike the plunger sharply with the side or palm of the hand. This will strike the Filter allowing any caked accumulation of media dust to fall into the bottom hopper. As the Filter is repeatedly struck, the hopper will fill with media dust and must be emptied. To do so: unlatch the Clasp on the conical vacuum hopper base and allow the dust to discharge into a container.



⚠ WARNING

The fine dust accumulated by this unit is a Health Hazard! Avoid breathing dust produced by handling the Filter. Always wear appropriate NIOSH approved breathing apparatus when cleaning, emptying or maintaining the unit and use in a well-ventilated area.

⚠ NOTICE

Always dispose of exhausted media properly following all local hazardous material disposal regulations. Levels of hazardous materials such as lead, zinc chromate, etc. may be present in coatings being removed. Additional precautions may be required in the presence of these substances.

- If it becomes apparent that the vacuum is failing to clear the dust from the cabinet while dusting, the Filter must be cleaned. To do so:
 - Turn off unit and unplug the power supply cord.
 - Unlatch the Clasps on the sides of the Vacuum/Filter Assembly and pull the Motor & Filter out of the top of the Housing and set it upside down with the Filter base upward.

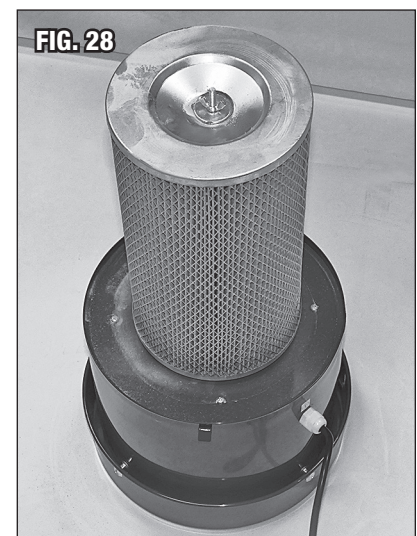
⚠ WARNING

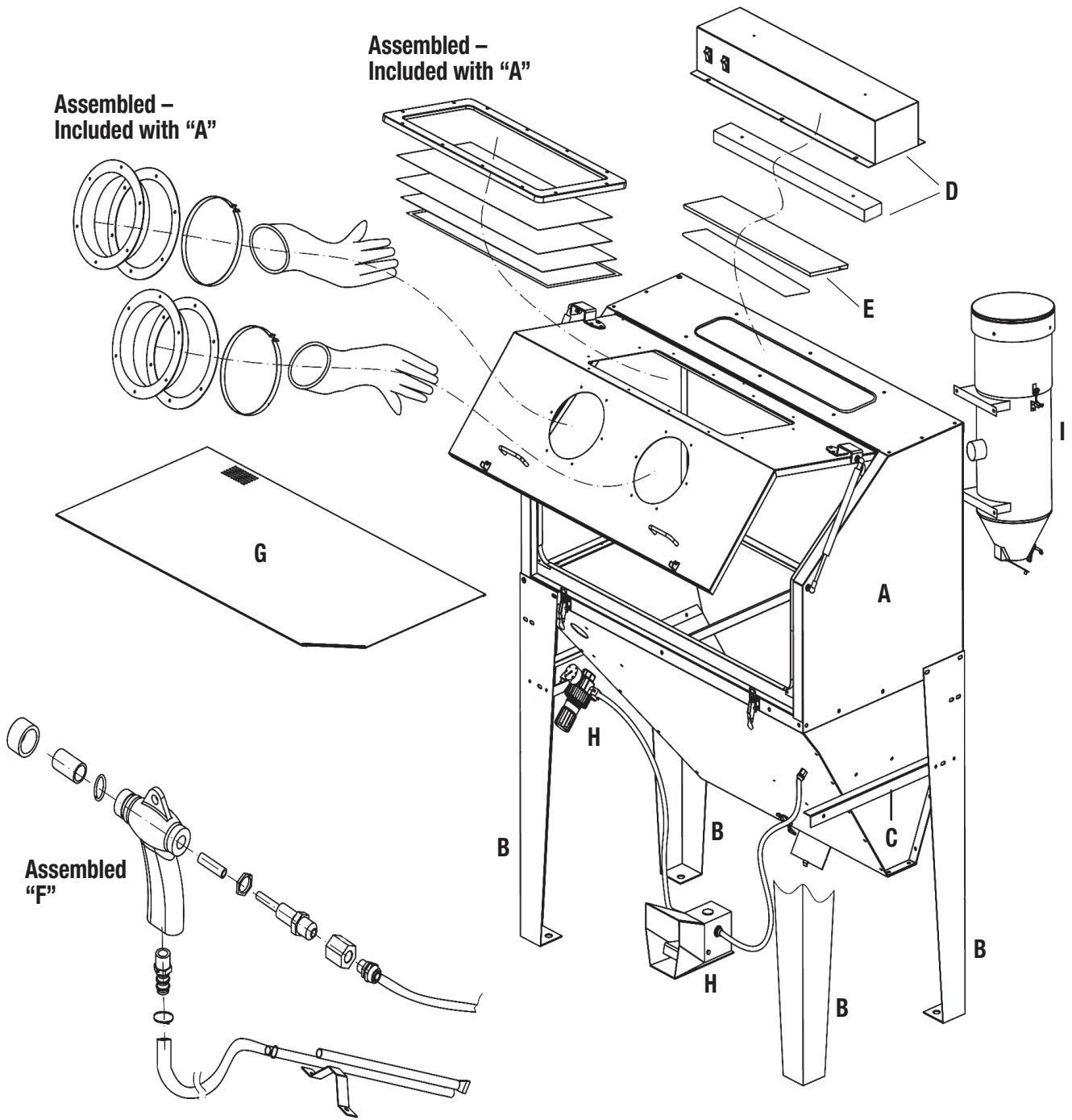
The fine dust accumulated by this unit is a Health Hazard! Avoid breathing dust produced by handling the Filter. Always wear appropriate NIOSH approved breathing apparatus when cleaning, emptying or maintaining the unit and use in a well-ventilated area.

⚠ NOTICE

Always dispose of exhausted media properly following all local hazardous material disposal regulations. Levels of hazardous materials such as lead, zinc chromate, etc. may be present in coatings being removed. Additional precautions may be required in the presence of these substances.

- Loosen and remove the Filter Retaining Wingnut and Washer (**FIG 28**).
- Pull the Filter free of the Motor Unit.
- Clean dust from the rubber seal.
- Using a suitable blow gun and compressed air source, blow air through the Filter from the inside out.
- When done, replace Filter and secure it with the Filter Retaining Washer and Wingnut.
- Replace the Motor & Filter assembly back into the Housing and latch the Clasps securely.
- Reconnect the Power Supply Cord.





TROUBLESHOOTING

PROBLEM	CAUSE	CORRECTION
Weak Blast Stream	Compressor Inadequate Causing Insufficient Volume of Air (CFM) to Operate Tool.	Verify sufficient air supply to tool. Minimum requirement = 7.1 CFM, Maximum 28 = CFM) @ 90 PSI.
	Air Supply Line from Compressor Too Small	Use air supply line of 3/8" or greater.
	Air Supply Line from Compressor Too Long	Limit air supply line to 25' or less.
	Pinched or Damaged Media Suction Line	Replace suction hose. Automotive fuel or heater hose works well.
	Moisture or Other Contamination in Air Supply	Check for and eliminate source of moisture in air line and blast gun.
Media Surging	Moisture in Media and or/Air Supply	Install a moisture separator capable of removing all moisture and impurities from the air supply.
	Debris or Blasting Residue in Gun Nozzle	Clean out gun nozzle then drain and sift blast media to remove debris before re-use.
	Excessive Media in Hopper	For best results, operate blaster with the Pick-up Tube inlet buried several inches in media. 50 lbs. of media is generally sufficient.
Media Stream Suddenly Stops	Dirt or Debris in Media Suction Line to Gun	To dislodge blockage, with lid closed, place a blast gloved finger over the nozzle outlet and momentarily depress Foot Pedal.
	Contaminated Media	Drain and sift blast media to remove debris before re-use.
View in Cabinet Becomes Obstructed	Dust is Clogging Filter	Operate Filter Plunger to shake dust form Filter.
		Clean Filter per procedure in Maintenance Section.
	Filter Housing is Full of Dust	Empty Filter Housing per procedure in Maintenance Section.
		Clean Filter per procedure in Maintenance Section.
Plastic Peel-Off Shield is Worn	Clean inside of window and replace Peel-off shield.	

ADDITIONAL ITEMS

- #22022 Blast Media Sifter Screen
- #34103 Moisture Separator
- #21305 Replacement Air Jets
- #21308 Peel-off Lid Window Shields
- #21309 Peel-off Light Fixture Shields
- #21319 Replacement Gloves
- #21321 Lid Window Glass
- #21326 Light Fixture Glass
- #21329 Dust Filter
- #22019 Silicon Carbide Media, 60 Grit
- #22021 Aluminum Oxide Media, 60 Grit
- #13792 Aluminum Oxide Media, 90 Grit
- #22018 Walnut Shell Media, 12/20 Grit
- #13779 Ground Glass Media, 40/70 Grit
- #13772 Glass Bead Media, 100/170 Grit
- #22023 Glass Bead Media, 70/100 Grit
- #11806 Soda Media, 10 lbs.
- #20068 Replacement Nozzles, 4pc

If you have any questions about the use of this product, please contact

The Eastwood Technical Assistance Service Department: 800.343.9353 >> email: tech@eastwood.com

PDF version of this manual is available at eastwood.com

The Eastwood Company 263 Shoemaker Road, Pottstown, PA 19464, USA 800.343.9353 eastwood.com

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