DO THE JOB RIGHT.

Item #20464

# MODULAR BLAST CABINET

## INSTRUCTIONS

The **EASTWOOD MODULAR BLAST CABINET** is specifically designed with heavy-duty components and a quality powdercoated finish to provide years of trouble free service. It features a high-intensity LED work lamp for increased visibility and a baffled, flow-through ventilation design with an external vacuum connection all in a compact, space saving configuration.

# SAFETY INFORMATION

**⚠ 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 used with the safety alert symbol, 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 this manual before using.
- Save 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.
- Dust and fine particulate matter is generated during the blasting process which can contain toxic substances such as lead, silica, solvents and others. Breathing this dust and fine particulate matter can cause many serious respiratory health conditions. Always use NIOSH approved respiratory protection while using this Sander.
- 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 Modular Blast Cabinet in an indoor area without a suitable vacuum attached and 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 filtered shop-type, dust collecting vacuum. If dust is seeping out of your vacuum filter, stop immediately! This is a serious health hazard and will prematurely burn out your vacuum motor. Purchase and install a fine particulate filter for your particular brand of shop-type vacuum to capture these dust particles.
- Always make sure the work area is isolated from any unprotected persons, pets or property.
- The Blast Gun can quickly start up when handling 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.

### ⚠ WARNING 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.

### ⚠ CAUTION SAFETY HAZARD!

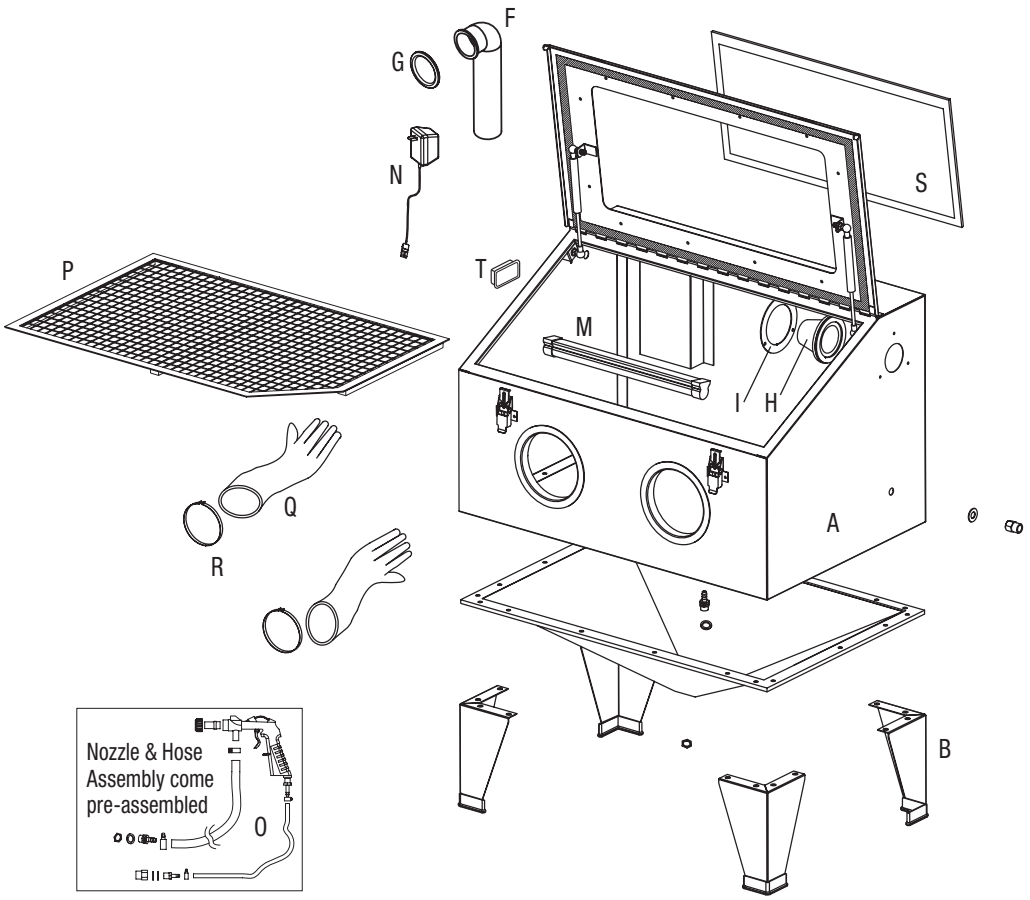
- Abrasive Blasting can generate excessive noise. Wear appropriate hearing protection while using.
- The high velocity media stream produced by this Abrasive Blaster can abrade and remove exposed flesh causing serious injury. Never operate the Blast Cabinet with lid open.
- Never clean up after blasting without a properly filtered shop-type, dust collecting vacuum. If dust is seeping out of your vacuum filter, stop immediately! Purchase and install a fine particular filter for your particular brand of shop-type vacuum to capture these dust particles. 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.

# SPECIFICATIONS

- Electrical current requirement (lamp): 120 Volt AC, 60hz.
- Air supply requirements: 7 CFM @ 90 PSI.
- Internal Dimensions: 28” wide x 18” deep x 12” high.
- External Dimensions (with 9” Legs): 31-1/2” wide x 20-1/2” deep x 28” high.

# INCLUDES

| Part | Description | Qty. |
|---|---|---|
| A | Blast Cabinet Assembly | 1 |
| B | Leg, 9" | 4 |
| C | M6 x 12mm Screw | 16 |
| D | M6 Nut | 16 |
| E | M6 Flat Washer | 16 |
| F | Vacuum Elbow | 1 |
| G | Vacuum Elbow Seal | 1 |
| H | Air Filter | 1 |
| I | Filter Retaining Flange | 1 |
| J | M4 x 20mm Screw | 3 |
| K | M4 Nut | 5 |
| L | M4 Flat Washer | 3 |
| M | LED Lamp | 1 |
| N | Plug-In Power Supply | 1 |
| O | Blast Gun/Hose Assembly | 1 |
| P | Perforated Floor | 1 |
| Q | Glove | 2 |
| R | Glove Clamp | 2 |
| S | Peel-Off Glass Shield | 5 |
| T | Switch Housing | 1 |
| U | M4 x 8mm Screw | 2 |
| V | M4 Lock Washer | 2 |




# 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.
- A suitable regulator must be used to limit incoming air pressure to 90 PSI maximum, 80 PSI is ideal. 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 CFM @ 90 PSI is required. Less available CFM will not provide sufficient force to allow the Blaster to adequately remove rust and or paint.
- 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 (no larger than 60 grit).

# ASSEMBLY

**ASSEMBLE BLAST CABINET TO INCLUDED 9" LEGS (B)**

1. Unfold the cardboard packaging carton and lay it flat on a secure working surface to protect the finish of the Blast Cabinet during assembly.
2. Carefully set the Blast Cabinet over the cardboard packaging on its right side with the lid open and the round glove holes toward you.
3. Locate an included 9" leg **(B)** at the underside corner of the cabinet with 4 screw holes aligned **(FIG 1)**.
4. Pass 4 M6 x 12mm Screws **(C)** through holes from the inside, add M6 Nuts **(D)** and M6 Washers **(E)**. Tighten Nuts.
5. Repeat for remaining 3 legs **(B)**.

**ASSEMBLING BLAST CABINET TO <u>OPTIONAL</u> EASTWOOD #20499, 36" LEG KIT**

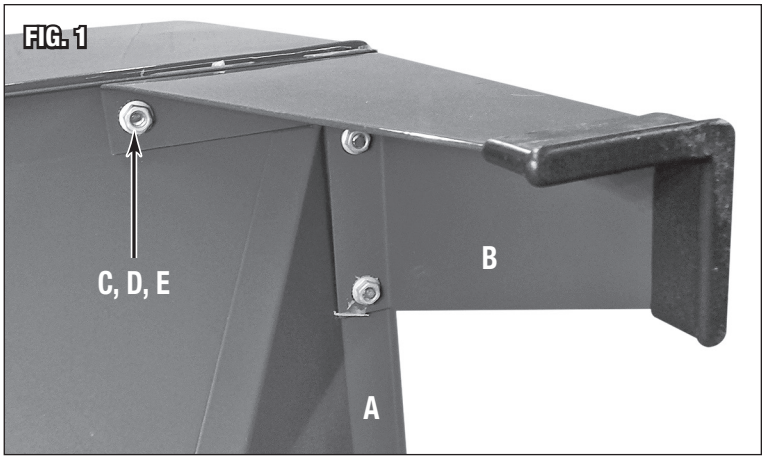
1. Unfold the cardboard packaging carton and lay it flat on a secure working surface to protect the finish of the Blast Cabinet during assembly.
2. Carefully set the Blast Cabinet over the cardboard packaging on its right side with the lid open and the round glove holes toward you.
3. Working on a secure, flat surface, hold a 36" Leg in the upright position, align a hole in the center portion of the leg with hole in a Short (16") Angled Brace and pass an M6 x 12mm Screw **(C)** through hole from the outside, add M6 Nut **(D)** and M6 Washer **(E) (FIG 2)**. Snug but do not fully tighten hardware at this time.
4. Attach another leg to the opposite end of the short (16") Angled Brace and pass an M6 x 12mm Screw through hole from the outside, add M6 Washer and M6 Nut.
5. Continue with remaining three 36" Legs and Long (26") Angled Braces until all 4 Legs and Braces are assembled.
6. Attach Leg Assembly to Cabinet by passing 16 (4 per corner) M6 x 12mm Screws **(C)** through holes from the inside corners of The Blast Cabinet, add M6 Nuts **(D)** and M6 Washers **(E)**. Securely tighten all hardware.
7. With the help of a capable assistant, carefully transition the total assembled unit from lying on its side to stand upright on the floor.

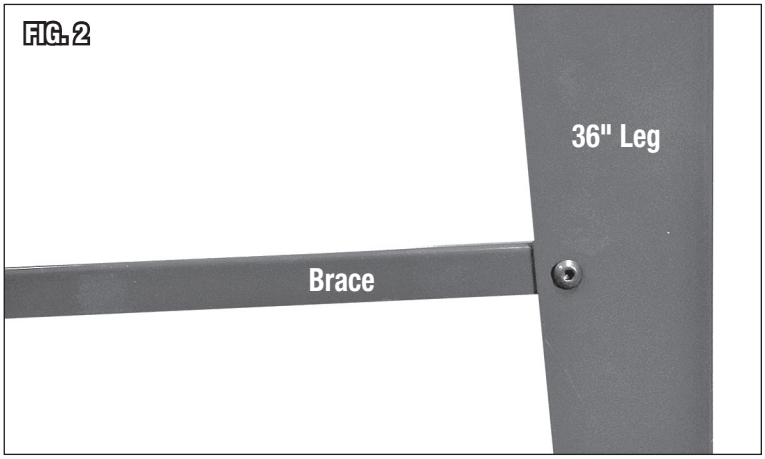
**INSTALL VACUUM ELBOW (F) TO CABINET**

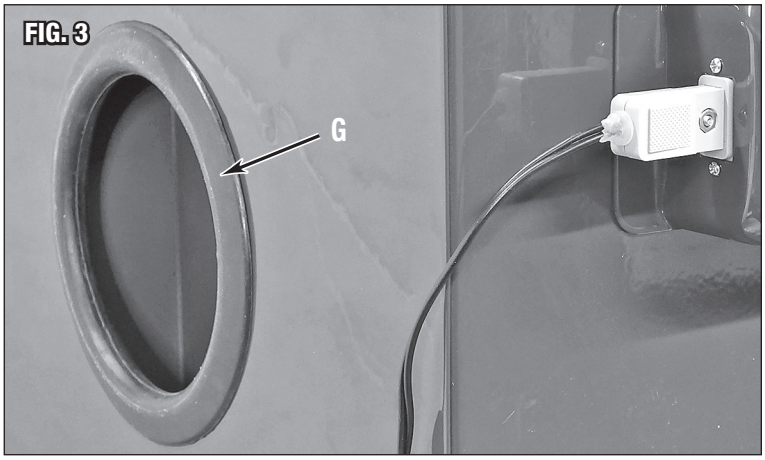
1. From the outside, slip the inner edge of the Vacuum Elbow Seal **(G)** over the hole on the upper rear corner of the Cabinet Back Panel **(FIG 3)**.
2. Fit the Vacuum Elbow **(F)** into the Vacuum Elbow Seal **(G)** until it is fully seated.

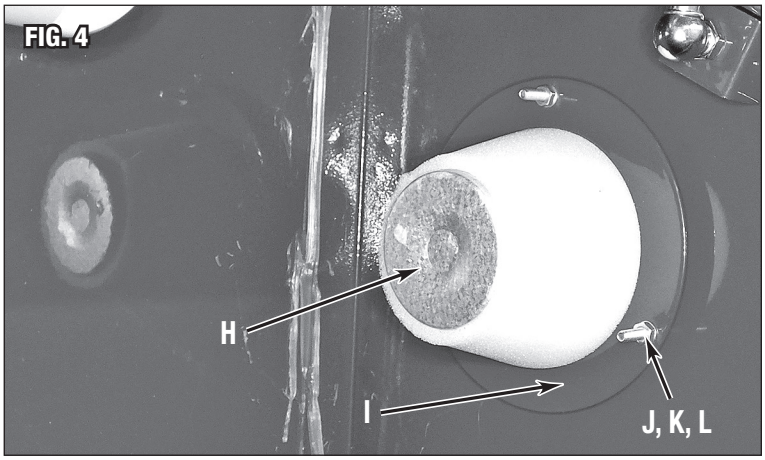
**MOUNTING AIR FILTER (H)**

1. Place the Air Filter **(H)** (with conical shape facing inward) over the hole in the upper right cabinet side and secure in place with the Filter Retaining Flange **(I)** and (3) M4 x 20mm screws **(J)**, M4 Nuts **(K)** and M4 Flat Washers **(L) (FIG 4)**.



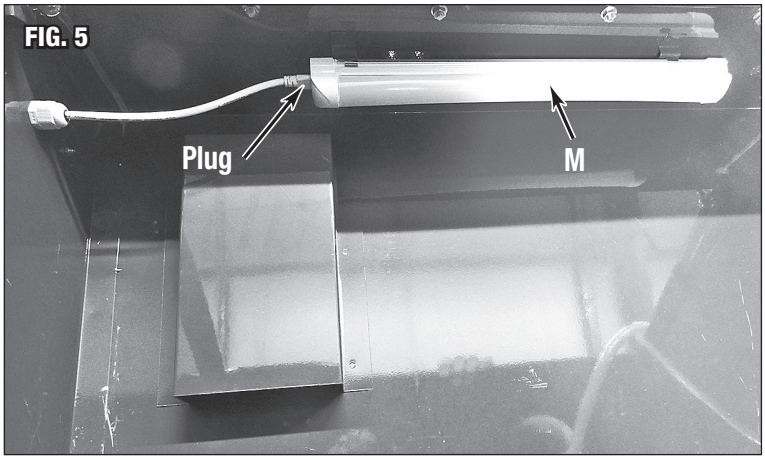



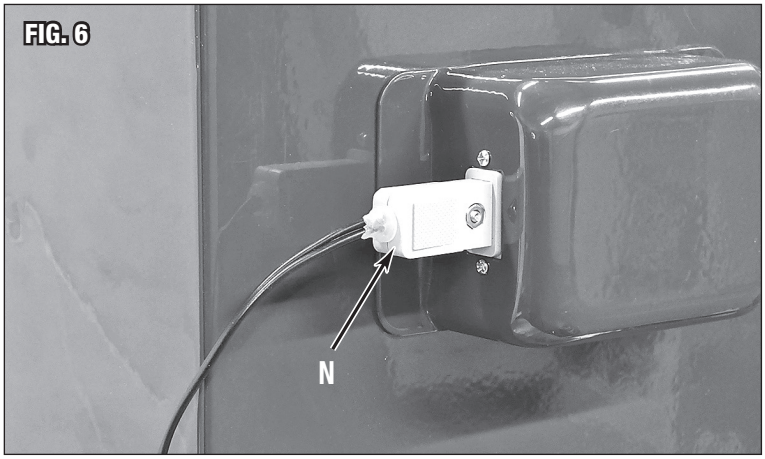
**INSTALL SWITCH HOUSING (T) AND LED LAMP (M)**

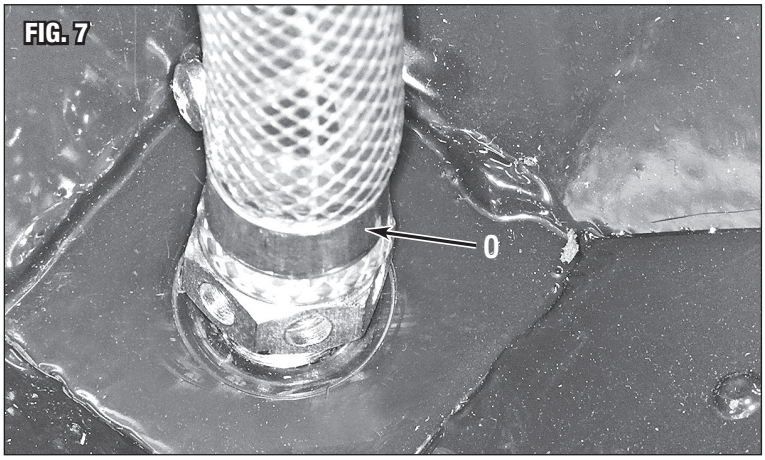
1. Mount the Switch Housing **(T)** to the Blast Cabinet using the provided hardware **(U, V, K)**. Install the LED Lamp wire and bulkhead fitting at the same time **(FIG 5)**.
2. Plug the LED Lamp wire into to the Lamp **(M)**.
3. Snap LED Lamp **(M)** into Lamp Clips **(FIG 5)**.
4. Insert the connector plug from the Power Supply **(N)** into the Switch Housing **(FIG 6)**.
5. Plug the Power Supply into a 120 volt outlet and turn on switch to illuminate Lamp.

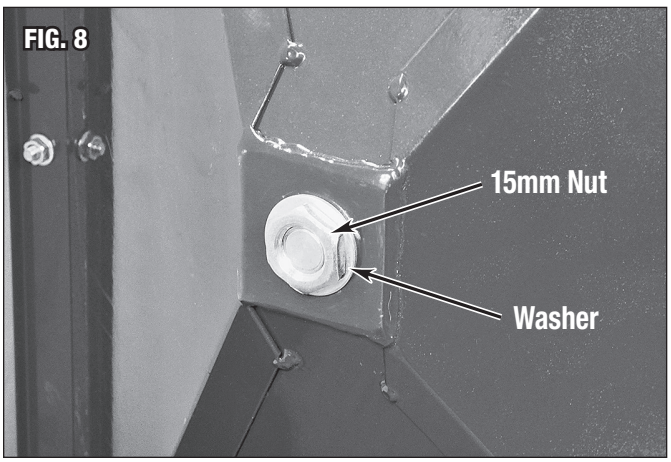
**INSTALL BLAST GUN/HOSE ASSEMBLY (O)**

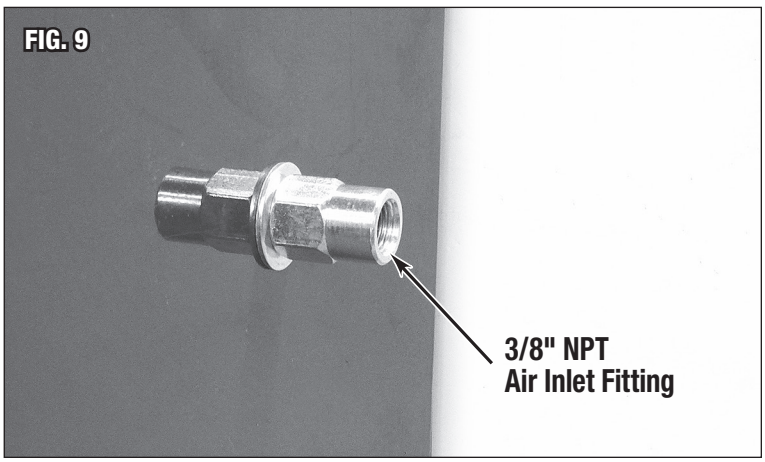
1. Place the Cross-Drilled Abrasive Pickup Fitting of the Abrasive Gun and Hose Assembly **(O)** through the hole in the bottom of the Hopper Panel **(FIG 7)** and secure it with the large 15mm Nut and Washer **(FIG 8)**.
2. Place the Abrasive Blasting Gun Air Supply Hose Fitting through the through hole in the lower rear of the Cabinet Right Side Panel using a large flat washer on either side. Wrap thread sealing tape around fitting threads and secure with the Air Supply Fitting Nut **(FIG 9)**.



**INSTALL PERFORATED CABINET FLOOR (P)**

1. Let the Abrasive Blasting Gun **(O)** hang out of the right front corner of the Cabinet.
2. Set the Perforated Cabinet Floor **(P)** (with angled cut off corner toward right front of cabinet) and allow the edges to rest on the internal Cabinet flanges **(FIG 10)**.

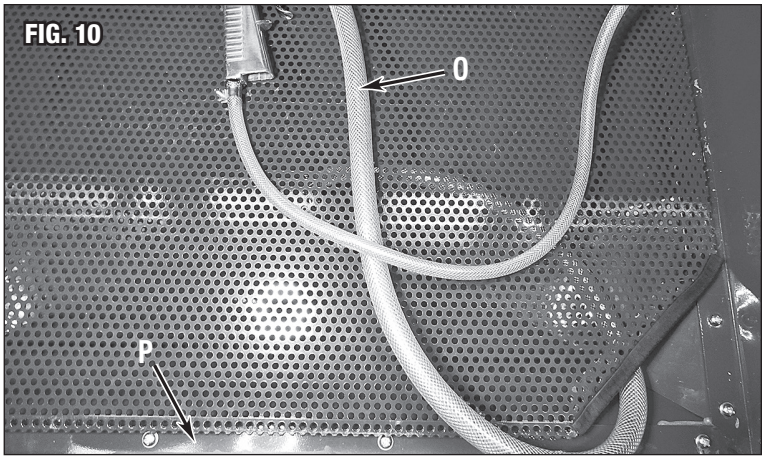
**ATTACH GLOVES (Q) TO CABINET**

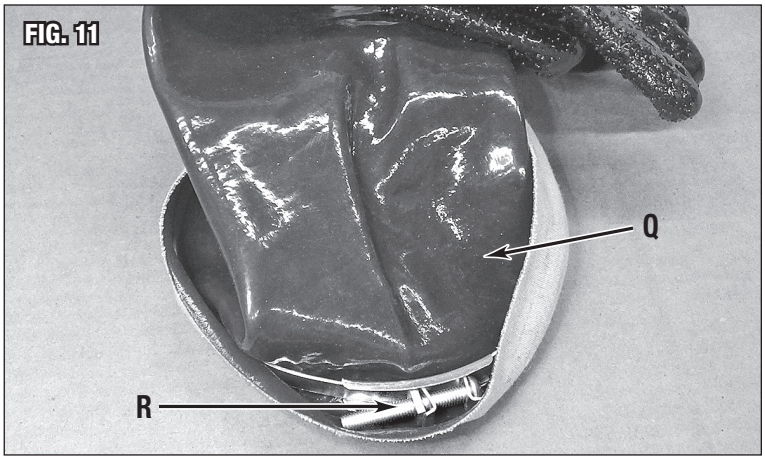
1. Fit (2) Large Hose Clamps **(R)** over the glove sleeves inward approx. 1". Be sure to place the screw portion of each clamp upward and in-line with the thumb of each glove **(FIG 10)**.
2. Slide the Rubber Gloves **(Q)** fully over the Glove Flanges then tighten Hose Clamps **(R)** securely **(FIG 11)**.

**NOTES:**

- Be sure to install left and right hand gloves on the correct side and position them with thumbs upward.
- It may be helpful to trim the gloves shorter in the cuff area for a better fit.

***Congratulations! Your fully assembled Eastwood Modular Blast Cabinet is now ready to be filled with media and be put to work!***



# SET-UP CABINET FOR USE

1. 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.
2. A suitable regulator must be used to limit incoming air pressure to 90 PSI maximum, 80 PSI is ideal. Excessive air pressure can cause permanent damage to the unit.
3. For best results, safety and visibility a heavy-duty type vacuum with 1.0 to 2.0 peak horsepower is strongly recommended.
4. Slip a 1-1/2" vacuum hose over the Vacuum Elbow at the rear of the cabinet.
5. Note: Only a light amount of negative pressure needs to be generated in order to keep a dust cloud form forming in the cabinet.
6. To avoid vacuum damage, operate the blast cabinet with a properly filtered shop-type, dust collecting vacuum. If dust is seeping out of your vacuum filter, stop immediately! This is a serious health hazard and will prematurely burn out your vacuum motor. Purchase and install a fine particulate filter for your particular brand of shop-type vacuum to capture these dust particles.
7. Add Eastwood approved Blast Media. Fill to within 1/2" of the cabinet flange. 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.

# MAINTENANCE

**REPLACE PEEL-OFF SHIELD**

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

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

**REPLACE BLAST MEDIA**

To drain blast media from Blast Cabinet:

1. Disconnect air supply to Blast Cabinet.
2. Loosen and remove large 15mm Nut from underside of Hopper Panel.
3. Pull out Cross-Drilled Abrasive Pickup Fitting.
4. Allow media to drain.
5. Re-install Cross-Drilled Abrasive Pickup Fitting.
6. Re-install large 15mm nut and washer then tighten securely.

**NOZZLE & JET REPLACEMENT**

- Replace the Nozzle when you notice excessive air and blast media being used or cleaning efficiency is reduced. Nozzle replacement on your Blast Cabinet is easy. After disconnecting the unit from the air supply, unthread the Nozzle Ferrule from the front of the Gun Body, remove the Nozzle.
- If, after extensive use, you determine your Blast Gun needs an overhaul, parts replacement is easy. In addition to the Nozzle replacement described above, there is an Air Jet in the forward section of the Blast Gun body. The wear on the Air Jet is external because of the abrasive passing over the Jet to enter the Nozzle. To obtain maximum siphon power, the inside diameter of the Air Jet must be 1/2 the size of the inside diameter of the Nozzle.
- When the Air Jet is worn, it will deflect the air and abrasive downward and will erode the external surface of the Nozzle. Generally, the ratio of wear is one Jet to every three or four Nozzles.
- To remove the Air Jet, first remove the Nozzle as previously described then using a deep, thin-wall 7/16" or 12mm socket inserted over the Air Jet, loosen and remove it. The Air Jet is threaded into the main Gun Body and is also responsible for securing the front, Mixing Section of the Gun to the main Gun Body and when removed, the Gun Body will separate.
- To install the replacement Air Jet, drop it into the front, Mixing Section of the Gun Body, line up the sections of Gun Body, thread the Jet into the main Gun Body then tighten in place with the deep, thin-wall 7/16" or 12mm socket.
- Replace the Nozzle and Nozzle Ferrule.
- The Blast gun is now once again ready for use.

# TROUBLESHOOTING

| PROBLEM | CAUSE | CORRECTION |
|---|---|---|
| **Insufficient Air to Blasting Gun** | Compressor inadequate | For best results, a compressor capable of at least 7 CFM @ 90 PSI is recommended. Lesser output will result in diminished performance. |
| | Air line from compressor to small | Use air supply line of 5/16" or larger. |
| | Air line from compressor too long | An air line of 25' maximum is recommended. |
| | Pinched or damaged suction hose | Replace suction hose. Automotive fuel or heater hose works well. |
| **Media Surging** | Moisture in media and or/air supply | Install a moisture separator capable of removing all moisture and impurities from the air supply. |
| | Dirt 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 siphon tube buried several inches in media. 25 lbs. of media is generally sufficient. |
| **Media Stream Suddenly Stops** | Dirt or debris in suction hose | To dislodge blockage, place a ***gloved finger*** over the nozzle outlet and momentarily depress trigger. |
| | | Drain and sift blast media to remove debris before re-use. |
| **View in Cabinet Becomes Obstructed** | Dust cloud is present | Connect to a suitable shop vacuum or check to see that an attached vacuum system is functioning properly. |
| | Plastic peel-off lens shield is worn | Clean inside of window and replace peel-off lens shield. |

# ADDITIONAL ITEMS

**#22022** Blast Media Sifter Screen
**#31633** Complete Filtration System with #51567 QC3 Filter
**#22021** 50lb. Eastwood 60 Grit, Aluminum Oxide Blast Media
**#20068** Replacement Blast Nozzles
**#30998** Dust Collection System
**#20071** 5–Pack, Peel-Off Lens Shields
**#20073** Replacement Glass

See our complete line of Blasters and Accessories at www.eastwood.com

**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
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