Eastwood DO THE JOB RIGHT.

Item #30721

BENCHTOP BLAST CABINET

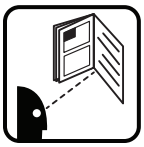
INSTRUCTIONS

The **EASTWOOD BENCHTOP BLAST CABINET** is specifically designed with heavy-duty components and a quality powder coated finish to provide years of trouble free service. It features a fluorescent 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

⚠ WARNING

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



⚠ READ INSTRUCTIONS

Thoroughly read and understand this manual before using. Save for future reference.

⚠ WARNING SHOCK HAZARD!

- **Always** plug into a properly grounded outlet.
- Under certain conditions (e.g. atmospheric humidity levels, type of media being used and/or type of media being blasted), the friction of abrasive blasting may generate static electricity and result in shocking. We recommend grounding the blast cabinet in accordance with local electrical codes.
- For well ventilated indoor use only.

⚠ WARNING ABRASIVE MEDIA HAZARD!

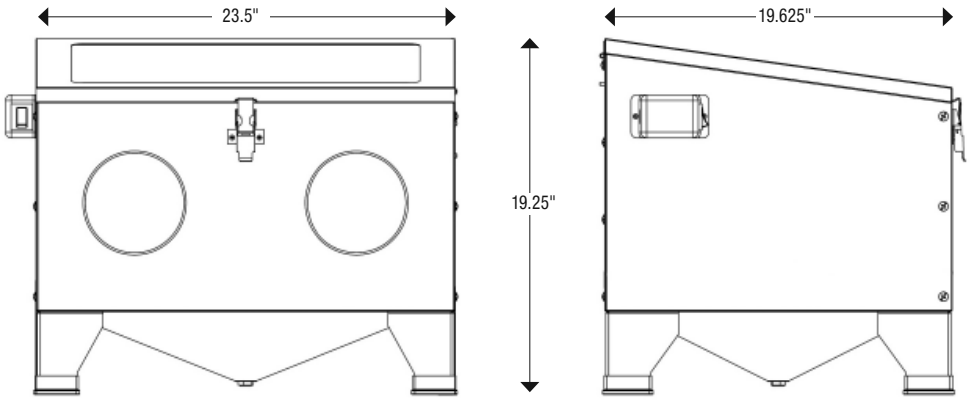
- **DO NOT USE SAND IN THIS UNIT** as serious respiratory health issues could result. The use of Eastwood blast media is strongly recommended for proper operation. Always select a grit size of 60 or finer to avoid nozzle blockage.
- **Never** operate the blast cabinet with the lid open. Always make sure 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. (Eastwood #20098 Rockford Shop Vacuum works great). 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.

⚠ WARNING OPERATIONAL HAZARDS!

- **Never** overload the blast cabinet. Maximum weight capacity of object to be blasted is 50 lbs. Maximum weight capacity of blast media is 25 lbs.
- **Always** use a clean, dry, regulated air supply. Moisture and or oil in air supply will cause clogging of blast media. Inlet air pressure must not exceed 90 PSI. Excessive air pressure can cause permanent damage to the unit and personal injury.

SPECIFICATIONS

- Electrical current requirement (lamp): 120 Volt AC, 60hz
- Air supply requirements: 10 CFM @ 80 PSI
- Internal Dimensions: 22” wide x 18” deep x 12” high

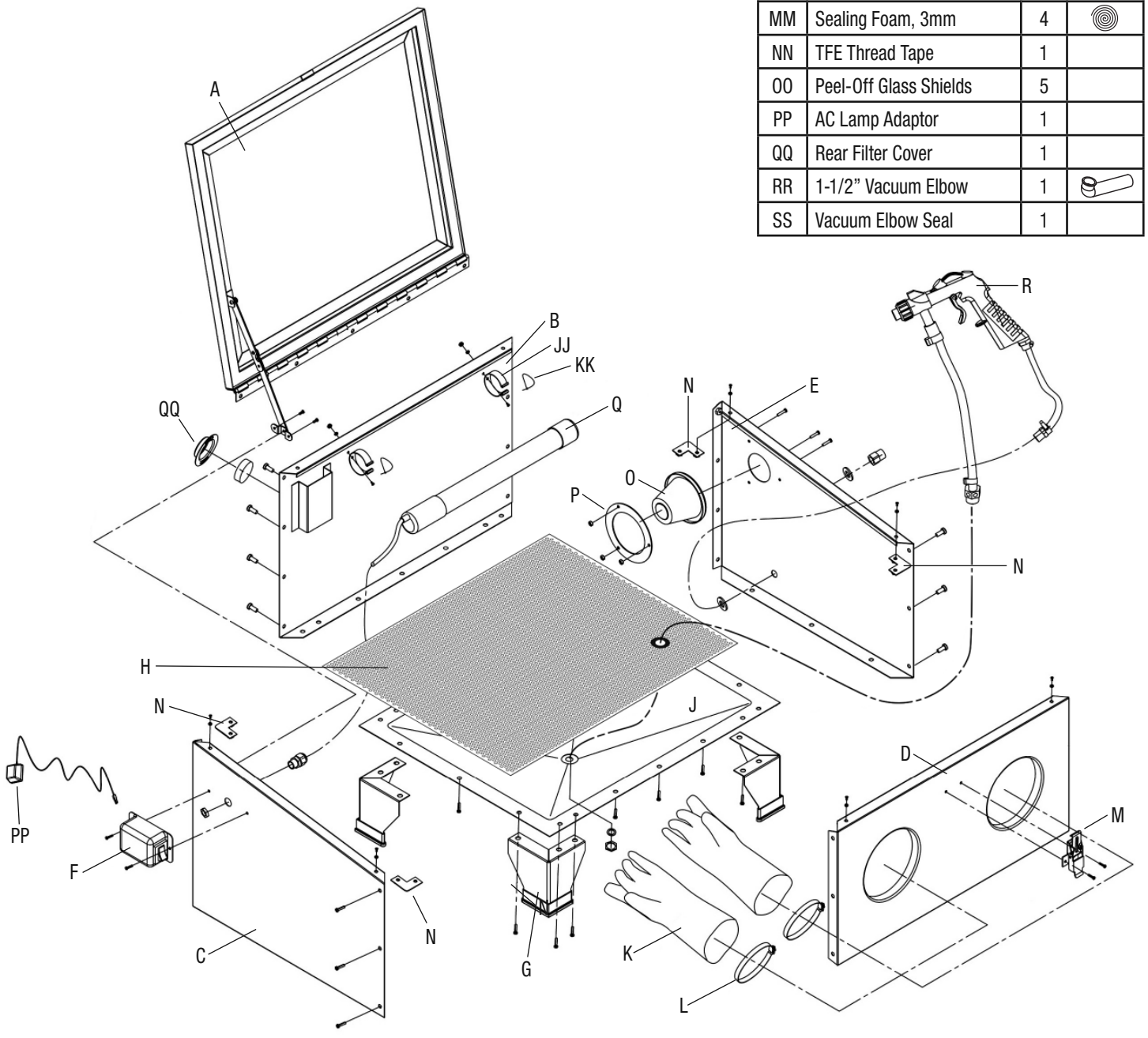


INCLUDES

Part	Description	Qty.
A	Lid/Glass Assembly	1
B	Cabinet Rear Panel	1
C	Cabinet Left Panel	1
D	Cabinet Front Panel	1
E	Cabinet Right Panel	1
F	Switch Box	1
G	Leg	4
H	Perforated Floor	1

Part	Description	Qty.
J	Hopper Panel	1
K	Gloves	2
L	Glove Clamps	2
M	Lid Latch	1
N	Corner Brace	4
O	Filter	1
P	Filter Retaining Flange	1
Q	Fluorescent Lamp	1
R	Blast Gun/Hose Assembly	1

Part	Description	Qty.	
AA	M6 x 12mm Screw	40	
BB	M4 x 20mm Screw	3	
CC	M4 x 10mm Screw	15	
DD	M4 x 6mm Screw	2	
EE	M6 Nut	33	
FF	M4 Nut	10	
GG	M4 Flat Washer	20	
JJ	Lamp Clamps	2	
KK	Cable Tie	2	
LL	Sealing Foam, 6mm	1	
MM	Sealing Foam, 3mm	4	
NN	TFE Thread Tape	1	
OO	Peel-Off Glass Shields	5	
PP	AC Lamp Adaptor	1	
QQ	Rear Filter Cover	1	
RR	1-1/2” Vacuum Elbow	1	
SS	Vacuum Elbow Seal	1	



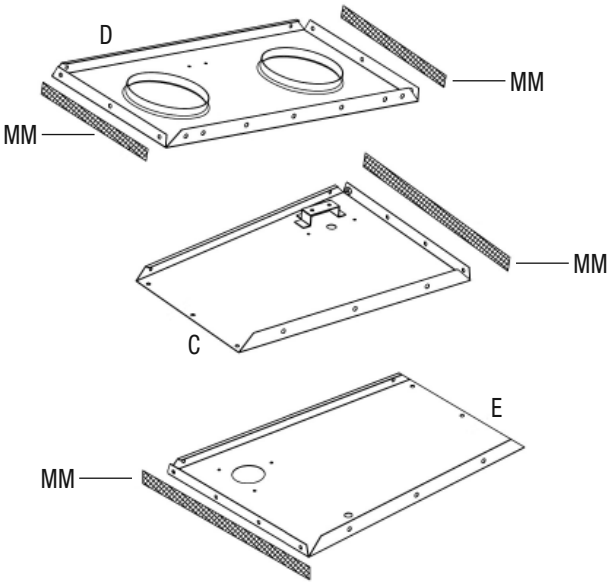
ASSEMBLY

APPLY SEALING FOAM (FIG 1)

Peel away protective paper and apply Sealing Foam **(MM)** on the outer, short-side flanged surfaces of the Front Panel **(D)**, and along the outer short-side end flange surfaces of the 2 Side Panels **(C+E)**.

4 Pcs. MM Sealing Foam, 3mm

FIG. 1



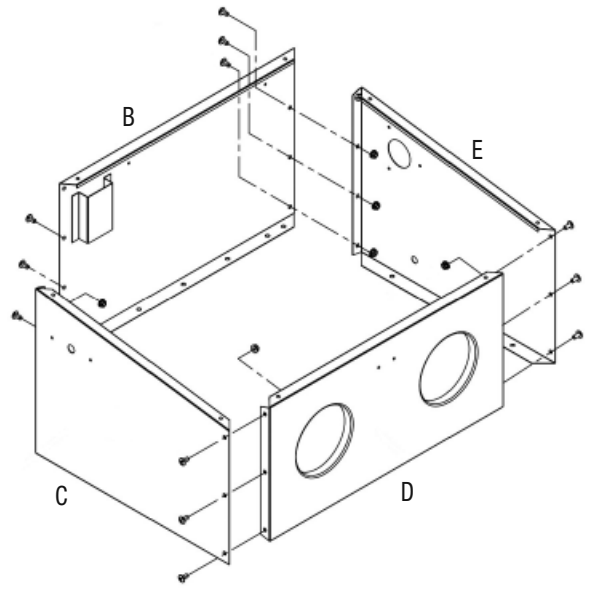
ASSEMBLE CABINET PANELS (B), (C), (D) & (E) (FIG 2)

Trapping the Sealing foam between panels, assemble the Rear Panel **(B)** with baffle at the upper left to the 2 Side Panels **(C+E)** and to the Front Panel **(D)** with flanges all facing inward then attach with (12) M6 x 12 screws **(AA)** and M6 nuts **(EE)**. Do not fully tighten hardware at this point

12 Pcs. AA M6 x 12mm Screw

12 Pcs. EE M6 Nut

FIG. 2



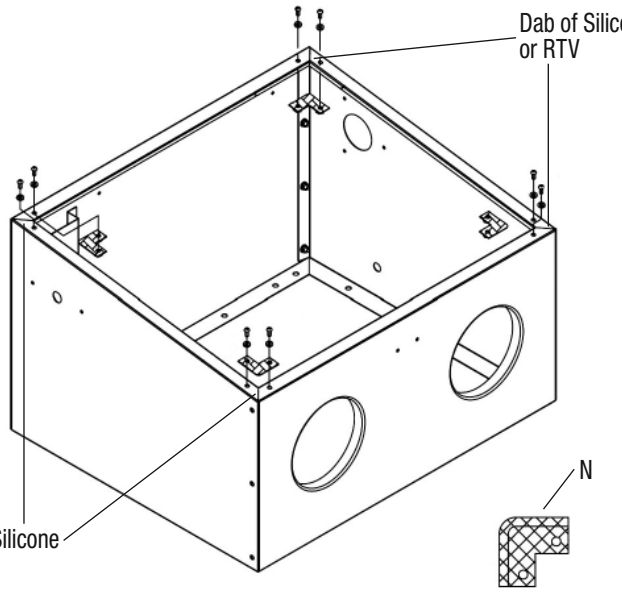
INSTALL CORNER REINFORCEMENTS (N) (FIG 3)

- Peel away protective paper and apply Sealing Foam **(MM)** to the upper surfaces of the (4) Corner Braces **(N)**.
- Install (4) Corner Braces **(N)** to the upper underside corners of the Cabinet Assembly with (8) M4 x 10mm screws **(CC)** and nuts **(FF)** trapping the Sealing Foam between Corner Braces and panel flanges. (Fully tighten all screws at this time).
- It is recommended to put a dab of silicone or RTV in the corners of joints to prevent air or media leaks.

4 Pcs. MM Sealing Foam, 3mm

8 Pcs. CC M4 x 10mm Screw

FIG. 3



ASSEMBLE HOPPER PANEL (J) & LEGS (G) TO CABINET (FIG 4)

- Turn the Cabinet Assembly upside down and apply Sealing Foam **(MM)** to the exposed flange surfaces.
- Place the Hopper Panel **(J)** (with funnel outlet upward) against the Cabinet Assembly trapping the Sealing Foam between.
- Set the (4) Legs **(G)** with flanges against the flat surfaces of the Hopper Panel.
- Secure above components with (20) M6 x 12mm screws **(AA)** and nuts **(EE)**. Tighten all hardware.

4 Pcs.	MM	Sealing Foam, 3mm	
20 Pcs.	AA	M6 x 12mm Screw	
20 Pcs.	EE	M6 Nut	

INSTALL AIR FILTER (FIG 5)

- Turn the Cabinet Assembly right side up and resting on the Legs.
- Place the Air Filter **(O)** (with conical shape facing inward) over the hole in the Right Side Cabinet Side Panel **(E)** and secure in place with the Filter Retaining Ring **(P)** and (4) M4 x 20mm screws **(BB)**, nuts **(FF)** and flat washers **(GG) (FIG 5A)**.

3 Pcs.	BB	M4 x 20mm Screw	
3 Pcs.	GG	M4 Flat Washer	
3 Pcs.	FF	M4 Nut	

INSTALL LATCH & LAMP CLAMPS (FIG 5)

- Place the Latch **(M)** (with "hook" portion oriented upwards) over the holes in the Cabinet Front Panel **(D)** and secure in place with (2) M4 x 10mm screws **(CC)**, nuts **(FF)** and flat washers **(GG)**.
- Locate 2 holes in the upper area of the Rear Cabinet Panel **(B)** and secure the (2) Lamp Clamps **(JJ)** with (2) M4 x 6mm screws **(DD)**, nuts **(FF)** and Flat Washers **(GG)**.

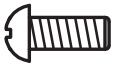
4 Pcs.	CC	M4 x 10mm Screw	
2 Pcs.	DD	M4 x 6mm Screw	
6 Pcs.	GG	M4 Flat Washer	
6 Pcs.	FF	M4 Nut	

FIG. 4

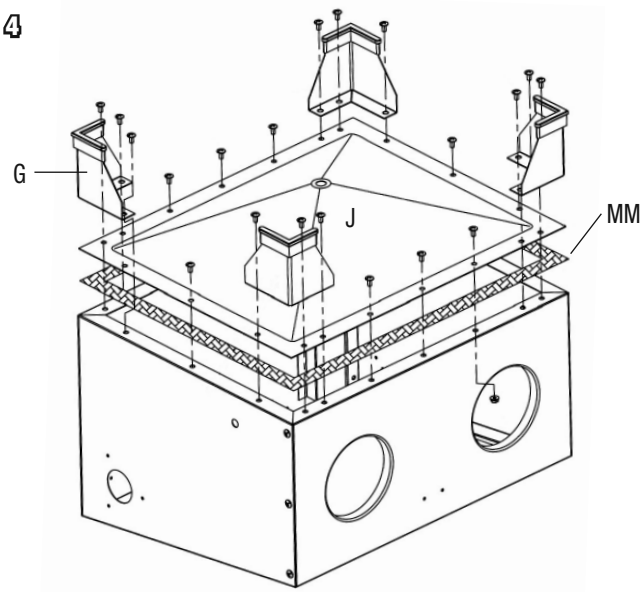


FIG. 5

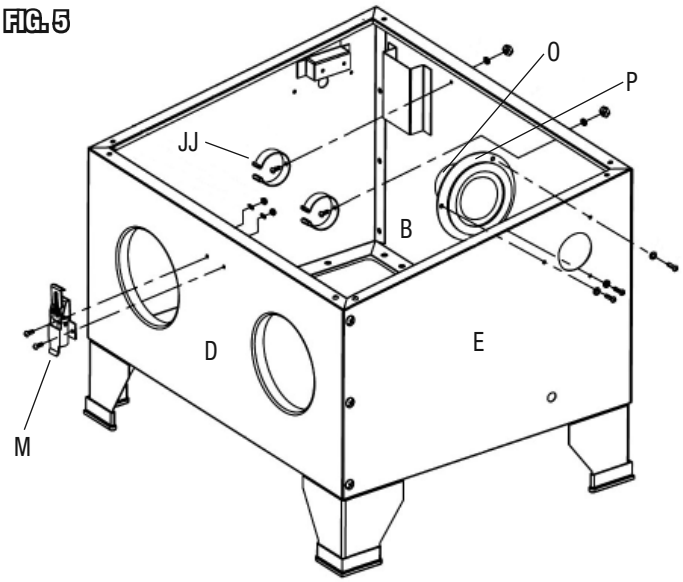
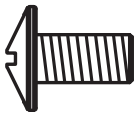


FIG. 5A

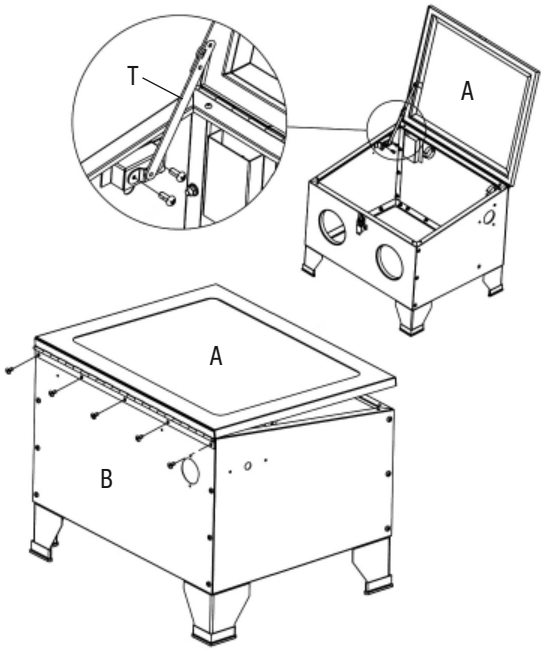
ASSEMBLE LID (A) TO CABINET (FIG 6)

- Attach Lid **(A)** hinge plate to the upper edge of the Cabinet Rear Panel **(B)** by threading (5) M6 x 12mm screws **(AA)** into weld-nuts on panel.
  NOTE: Do not let lid fall backward or downward against top or damage may occur.
- Install Lid Support **(T)** to the welded bracket of the upper Left Cabinet Side Panel with (2) M4 x 10mm screws **(CC)**.

5 Pcs. AA M6 x 12mm Screw 

2 Pcs. CC M4 x 10mm Screw 

FIG. 6



INSTALL GLOVES (K) TO CABINET (FIG 7)

- Fit (2) Large Hose Clamps **(L)** over the glove sleeves then slide the Rubber Gloves **(K)** fully over the Glove Flanges **(V)** then tighten Hose Clamps **(L)** securely.
  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.

NOTE: FOLLOW THIS STEP IF CONNECTING TO A SHOP VACUUM - INSTALL VACUUM ELBOW (SS) TO CABINET (FIG 7A)

- From the outside, install the Vacuum Elbow **(RR)** by slipping the inner edge of the Vacuum Elbow Seal **(SS)** over the hole on the upper rear corner of the Cabinet Back Panel **(B) (FIG 7A)**.

NOTE: FOLLOW THIS STEP ONLY IF NOT CONNECTING TO A SHOP VACUUM. - INSTALL REAR FILTER COVER (QQ) TO CABINET (FIG 7B)

- From the outside, place the Rear Filter Cover **(QQ)** over the hole on the upper rear corner of the Cabinet Back Panel **(B)** and secure by placing "keyhole" slots over the weld-pins and rotate to lock in place **(FIG 7B)**.

SAFETY NOTE: If not connecting to a vacuum, it is recommended that this unit is used outdoors only when weather permits.

FIG. 7

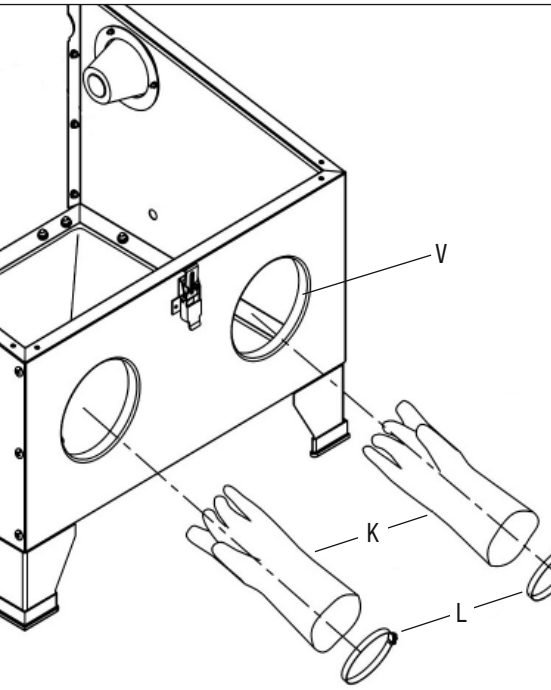
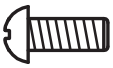


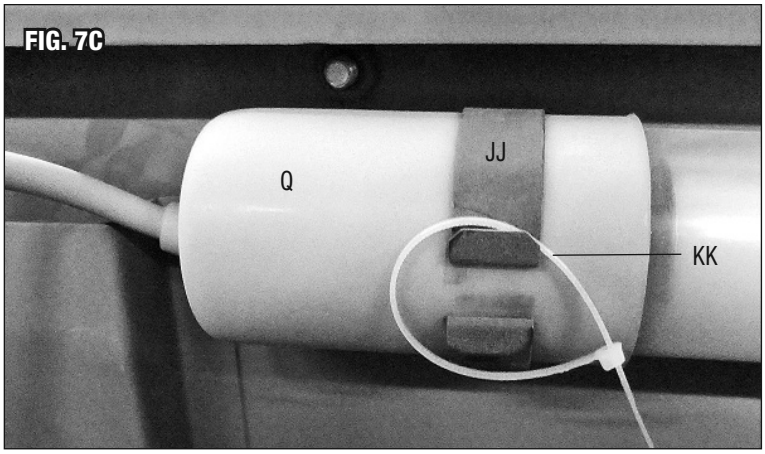
FIG. 7A

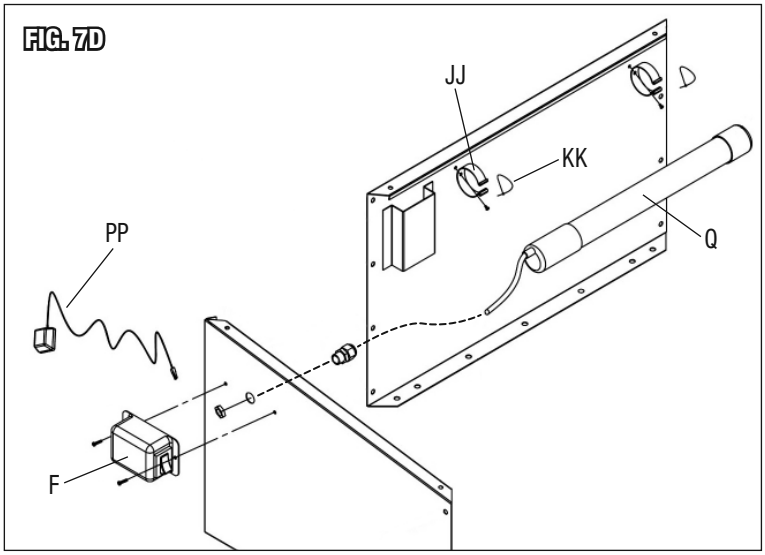
FIG. 7B

INSTALL FLUORESCENT LAMP (Q) (FIG 7C)
The wires must be connected to the designated colors or damage to the lamp will occur.

- Snap Fluorescent Lamp **(Q)** into Lamp Clips **(JJ)** and secure clamps closed with (2) Cable Ties **(KK)** by looping around the bent tabs of clips **(FIG 7C)**.
- Route the cord of the Fluorescent Lamp **(Q)** through the hole in the upper area of Cabinet Side Panel then thread the cord ferrule into the hole.
- Connect the Fluorescent Lamp **(Q)** wires to the Switch **(F)** wires. Attach Blue Wire to Blue wire connection and Brown Wire to the Gray wire connection.
  NOTE: Needle Nose pliers may be useful for inserting wires onto switch connections.
- Attach Switch Housing **(F)** to Cabinet Side Panel with (2) M4 x 10mm screws **(CC)**, washers **(GG)** and nuts **(FF)**.
  NOTE: Be sure to position the switch facing forward towards operator.
- Insert the connector plug from the low-voltage power supply **(PP)** into the Switch Housing. Plug the Transformer into a 120 volt outlet and turn on switch to illuminate Lamp.

2 Pcs.	CC	M4 x 10mm Screw	
2 Pcs.	GG	M4 Flat Washer	
2 Pcs.	FF	M4 Nut	





INSTALL BLAST GUN/HOSE ASSEMBLY (R) & PERFORATED FLOOR (H) (FIG 8)

- Place the Cross-Drilled Pickup Fitting of the Abrasive Gun and Hose Assembly **(R)** through the grommeted hole in the Perforated Floor **(H) (FIG 8D)**.
- Place the Cross-Drilled Abrasive Pickup Fitting of the Abrasive Gun and Hose Assembly **(R)** through the hole in the bottom of the Hopper Panel **(J) (FIG 8A)** and secure it with the large 15mm Nut and Washer **(FIG 8B)**.
- Place the Abrasive Blasting Gun **(R)** Air Supply Hose Fitting through the through hole in the lower rear of the Cabinet Right Side Panel **(E)** using a large flat washer on either side. Wrap thread sealing tape around fitting threads and secure with the Air Supply Fitting Nut **(FIG 8C)**.

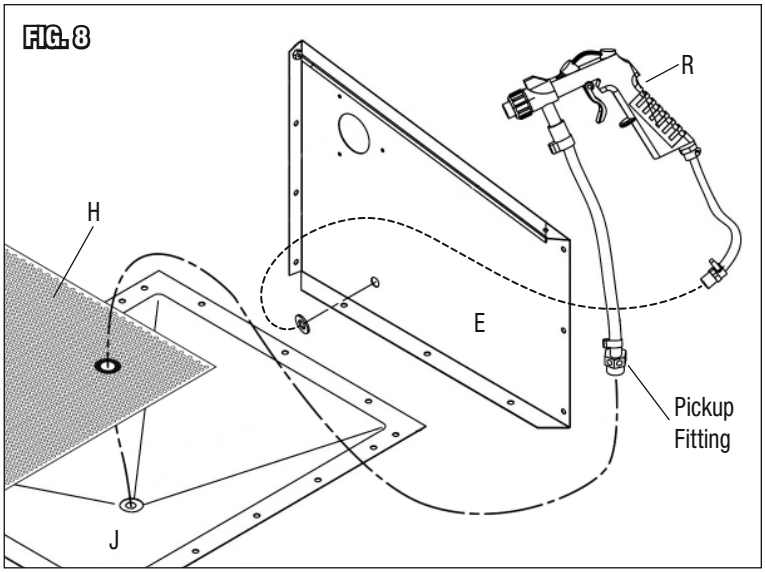
INSTALL PEEL-OFF SHIELD

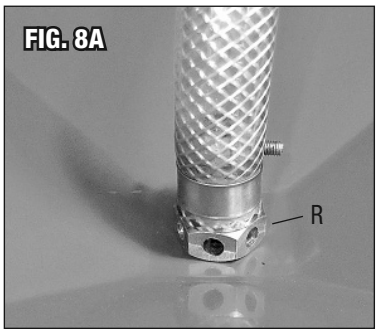
- The interior side of tempered glass window of the Lid **(A)** is equipped with a replaceable, full-view, peel-off, self-adhesive flexible window shield. It will become cloudy with use.

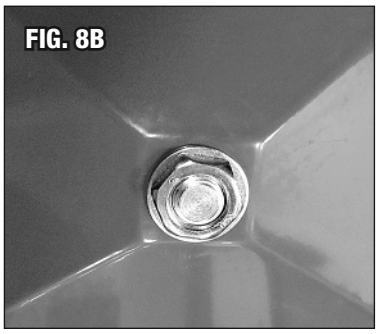
TO REPLACE:

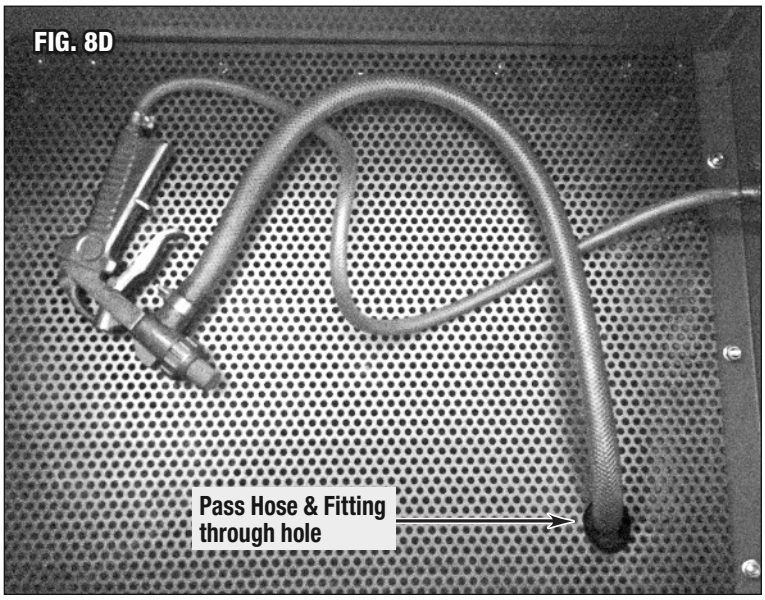
- Peel off worn protector.
- Gently clean glass with a soft cloth and glass cleaner or alcohol.
- Peel off adhesive protective strips and apply replacement shield to interior glass surface. Press on adhesive areas to ensure an abrasive proof seal.

Congratulations! Your fully assembled Eastwood Bench-Top Blast Cabinet is now ready to be filled with media and be put to work!









SET-UP CABINET 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 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.
- For best results, safety and visibility a heavy-duty type vacuum with 1.0 to 2.0 peak horsepower is strongly recommended.
- Slip a 1-1/2" vacuum hose over the Vacuum Elbow at the rear of the cabinet.
- **NOTE:** Only a light amount of negative pressure needs to be generated in order to keep a dust cloud form forming in the cabinet.
- To avoid vacuum damage, operate the blast cabinet with a properly filtered shop-type, dust collecting vacuum. (Eastwood #20098 Rockford Shop Vacuum works great). 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.
- Add Eastwood approved Blast Media. Fill to within 1/2" of the cabinet flange. 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.

TO DRAIN BLAST MEDIA FROM BLAST CABINET:

- Disconnect air supply to Blast Cabinet.
- Loosen and remove large 15mm Nut from underside of Hopper Panel.
- Pull out Cross-Drilled Abrasive Pickup Fitting.
- Allow media to drain.
- Replace Cross-Drilled Abrasive Pickup Fitting.
- Replace large 15mm nut and washer then tighten securely.

TROUBLESHOOTING

Problem	Cause	Fix
Insufficient Air to Blasting Gun	Compressor Inadequate	For best results, a compressor capable of at least 10 CFM @ 80 PSI is recommended. Lesser output will result in diminished performance.
	Air Line from Compressor Too Small	Use air supply line of 3/8" or larger.
	Air Line from Compressor Too Long	An air line of 25' maximum is recommended.
	Pinched or Damaged Section of 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.
	Media is Contaminated	Drain and sift blast media to remove debris before re-use.
View in Cabinet Becomes Obstructed	Vacuum May Not be Operating Correctly	If dust cloud is present, connect to a suitable shop vacuum or check to see that an attached vacuum system is functioning properly.
	Lens Shield is Worn	Plastic peel-off lens shield is worn. Clean inside of window and replace peel-off lens shield.

ADDITIONAL ITEMS

#22022 Blast Media Sifter Screen
#20608 Filter/Regulator Unit
#20098 Rockford Shop Vacuum
#20061 Rockford Shop Vacuum Bags
#22021 50lb. Eastwood 60 Grit, Aluminum Oxide Blast Media
#20068 Replacement Blast Nozzles Kit
#30770 5pk, Peel-off Lens Shields

NOTES

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: 800.544.5118 >> email: techelp@eastwood.com
PDF version of this manual is available online >> eastwood.com/30721manual

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