

PROBLER P2 TROUBLESHOOTING

Section 3 - General Information: Maintenance

WARNING

Before attempting to perform any maintenance on this gun, relieve All Fluid and Air Pressures!

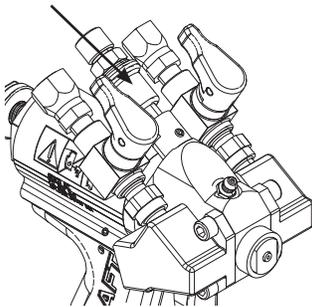
- To relieve fluid and air pressures:
- Turn OFF all air supplies at system except gun trigger air.
- Trigger the gun until all fluid pressures have been relieved.
- Turn OFF the gun trigger air at the system.
- Turn proportioner off.
- Trigger the gun until all trigger air pressure has been relieved.

Perform Gun maintenance as follows:

1. Check for leaking seals (34):

- Engage piston lock.
- Turn OFF the gun incoming air by closing gun air switch.

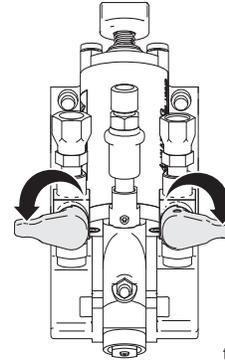
Air Switch



- Wait approximately 10 - 20 seconds, then turn ON the incoming air by opening gun air switch.
- Repeat two or three times.
- If any material has been purged from the gun, the seals (34) are leaking, or o-ring (35).
- Correct leaks by replacing the seals or o-rings and re-checking.

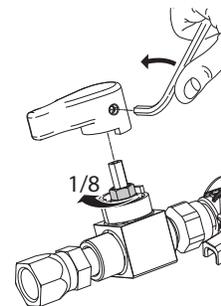
2. Check the material valves, p/n 25649 and 256460 for any leaks:

- Turn OFF both material valves.



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- Disengage piston lock.
- Trigger the gun several times.
- Wait approximately 10-20 seconds.
- Trigger the gun several times.
- If additional material is purged, the material valves are leaking.
- Correct the leaks by loosening the set screw and removing red or blue handle. Turn the valve packing nut clockwise in 1/8-turn increments until leak is corrected. Re-check.



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3. Check side blocks

- Turn OFF the air switch on the gun.

WARNING

Before removing the side blocks make certain that both material valves are in the OFF positions and trigger several times to depressurize fluid in gun!

If the material valves are on when the side blocks are removed the gun will quickly become encased in urethane!

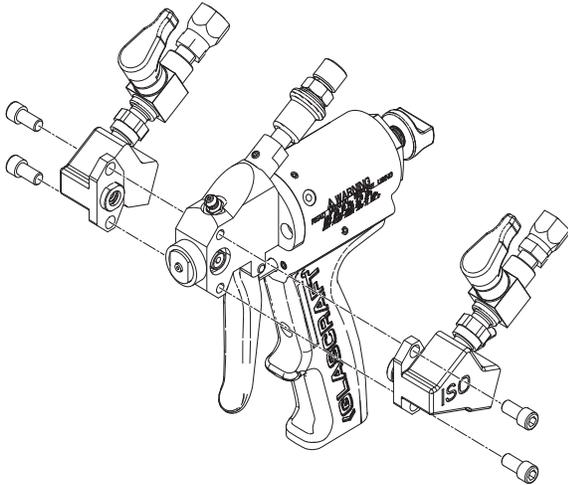
WARNING

Point gun side blocks down, away from all personnel. Existing fluid pressures could cause material to exit the side blocks with considerable force.

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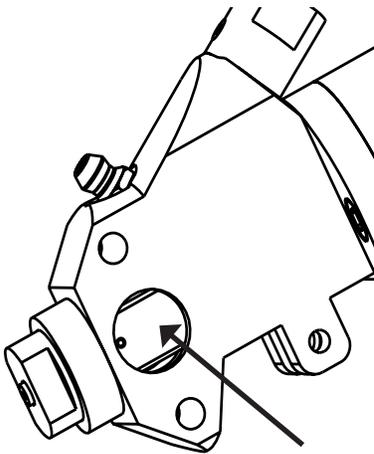
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- Take the side blocks off by removing screws.



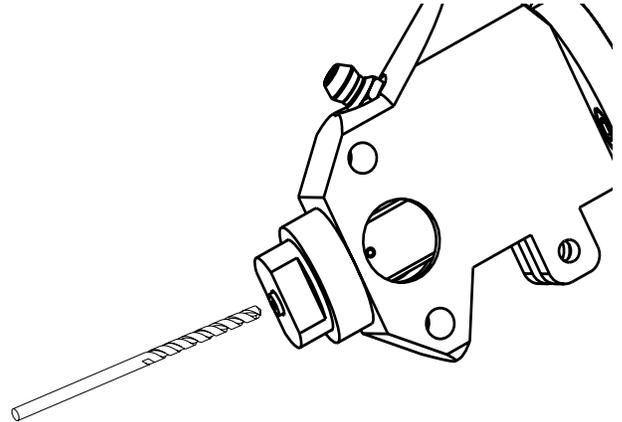
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- Examine the sides of the mixing chamber for scratches and/or material build-up. Carefully, without scratching the seal surfaces (sides), remove any accumulated material. Solvent can be used to wash accumulated material off of chamber, side blocks, etc. Keep the gun chamber tilted toward the ground so that solvent does not run back into gun. Certain solvents will attack o-rings on chamber shaft causing swelling and deterioration of o-rings.

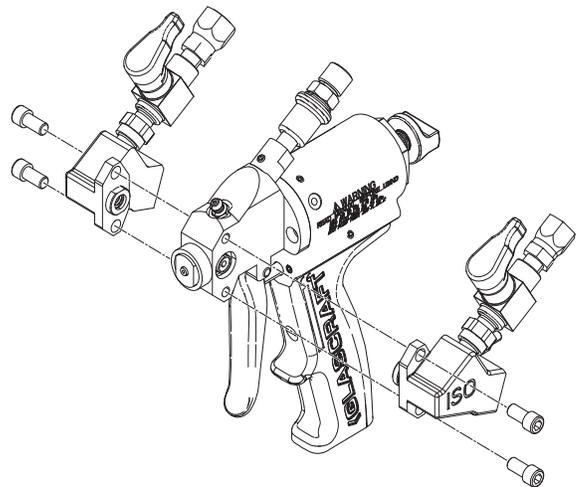


- Place generous amounts of high quality, white lithium grease (Part No. 117773) in each side of the gun front housing and on the side block seals.

- Use correct size drill bit to clean out the mixing chamber exit passage. Use correct size drill bit to clean the inlet side holes of the mixing chamber taking care not to scratch the mixing chamber's polished surfaces (refer to the drill chart).



- Re-assemble the side blocks and tighten the screws. Grease should appear at the tip of the mixing chamber.



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 **DO NOT** open the air switch on the gun because this will purge grease from the gun. The grease should be allowed to remain in the gun overnight.

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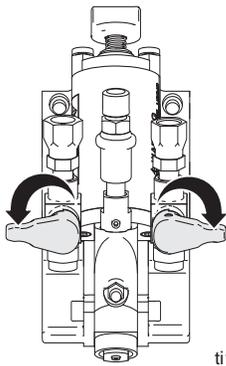
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Daily Shut-Down

For experienced users

Once you have used the gun with a product and system, and you have become comfortable with techniques on how all the variables are affecting your operations and maintenance requirements, Daily, Weekly, and Monthly maintenance requirements can be addressed specific to your operation.

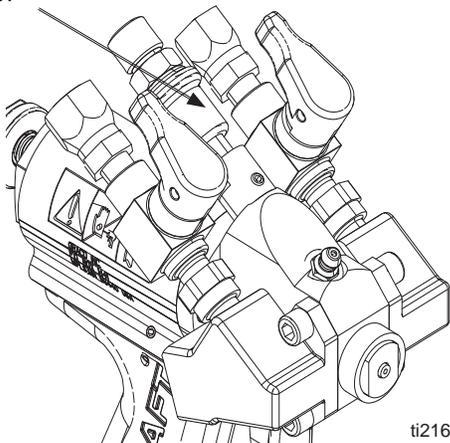
1. Turn the ball valves off, activate and deactivate the gun 5 - 6 times to purge residual pressure.



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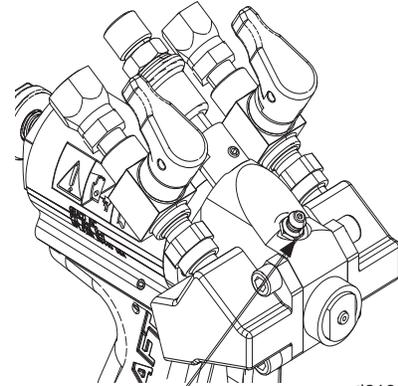
2. Engage piston lock.
3. Drill out the chamber insert snout with correct size drill bit for insert (see drill chart).
4. Pull slide valve halfway back to limit the air purge.

Air Switch



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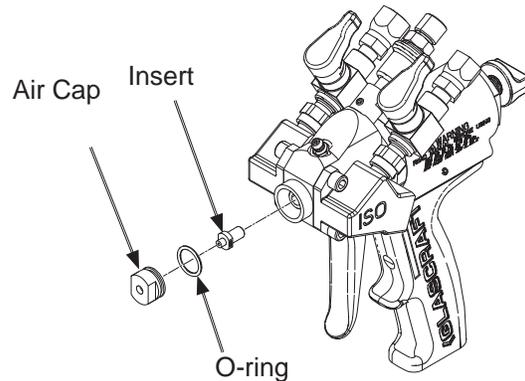
5. Use grease gun (Part No. 117792) to inject white lithium grease (Part No. 117773) into zerk fitting until a light mist of grease is purged through the snout. Shut off the air purge.



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Zerk Fitting

6. Remove the air cap and set to side. If solvent soaking is required, remove the o-ring before soaking.
7. Remove the snout insert and soak in solvent until next usage.



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Daily Start-Up

8. Clean the snout insert. Be sure both, the face and bottom flat are clean. Drill the snout bore out with the correct size bit for snout (see drill chart).
9. Clean the inner bore of the chamber. Drill out the chamber snout inlet bore as required.
10. Install the snout insert.
11. Install the air cap on to the chamber. Tighten finger tight until the cap bottoms out. Snug down with a 1/2 in. wrench. This does not require high torque. Over tightening can result in chamber damage.

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Refer to specific system user manuals for complete system installation.

Parts Replacement Procedure

WARNING

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If the material valves are on when side blocks are removed, the gun will quickly become encased in urethane!

1. Read each procedure entirely before beginning and refer to the illustrations as needed.
2. Flush and clean all chambers and passages as they become accessible.
3. Clean all parts before assembly.
4. Replace all o-rings and seals with new parts from the appropriate kit.
5. Inspect all parts for wear or damage and replace as required with new *genuine GlasCraft replacement parts from your authorized GlasCraft distributor.*
6. Inspect all threads for wear or damage and replace as required.
7. Tighten all threaded parts securely, but not excessively, upon assembly.
8. Lightly lubricate all o-rings and threads with grease (Part No. 118665).
9. Check all springs for resilience. They should return quickly to their original (new) length.

Routine Care

WARNING

Before attempting to perform any maintenance on this gun OR before removing side blocks, make certain that both gun material valves are in the fully OFF positions and trigger several times to depressurize fluid in gun!

If the material valves are on when side blocks are removed, the gun will quickly become encased in urethane!

It is recommended that the following service be performed on a daily basis.

1. Clean the gun using a brush and an appropriate clean solvent.
2. Inspect the side block seals making certain they are clean and free of scratches, nicks or foreign material. Clean and replace as required.
3. Remove, clean or replace the filter screen.
4. Maintain a reasonable stock level of "wear" items such as seals and o-rings. (see Service & Repair Parts Kits listed in Parts & Illustrations section.)
5. Grease gun daily to prevent 2 component curing and keep fluid passages clean. Purge air carries grease mist through air chamber and impingement ports then out the mix chamber nozzle, coating all surfaces. Use Part No. 117773 grease.

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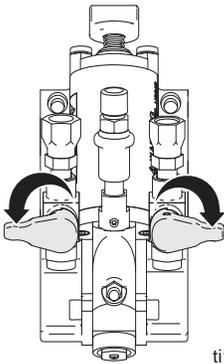
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Piston Lock Adjustment and Installation Procedure

The P2 gun piston throw is factory set and as a rule, should not require adjustment. The piston throw refers to how far back the air piston will travel when the gun is triggered. Proper throw adjustment will align the mixing chamber side ports with the side block seal thru port.

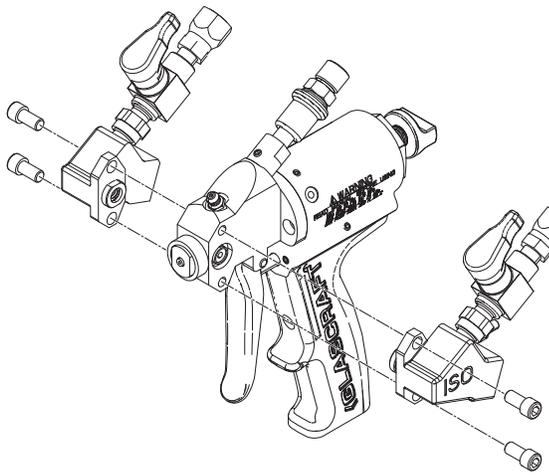
Determine if the piston throw is correct:

1. Follow the **pressure relief procedure** on page 15 and disconnect material hoses from the gun.
2. Turn the material ball valves to the OFF position.



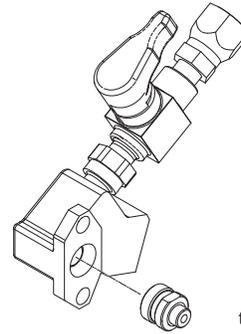
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3. Verify that the piston lock cap has been tightened and fully threaded into the gun.
4. Remove the side blocks.



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5. Remove one of the side block seal housings, from side block. Leave the seal (34) in housing and rinse with suitable solvent.



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6. Place the side seal housing in the gun head so the face of the seal sets against the mix chamber.

WARNING

If the material valves are on when side blocks are removed, the gun will quickly become encased in urethane!

7. Turn the gun trigger air supply on, then trigger the gun.



The purge air will not shut off with the side block removed.

8. If the impingement port is not fully visible through the side seal housing turn the trigger-air off and trigger the gun to relieve pressure. Use a 9/16 in. open-end wrench to adjust the adjustment nut in the appropriate direction. Repeat steps 7 and 8 until it is adjusted properly.



Non-permanent thread locker can be applied to the adjustment nut if necessary.

10. Reassemble the gun.

Before each use: Verify that the piston lock assembly is installed and working properly.

- Engage piston lock.
- Pressurize the system to working pressure.
- Open material ball valves.
- Point the gun in a safe direction and trigger gun. No material should flow from gun tip.
- **DO NOT USE IF IT IS NOT WORKING PROPERLY.**