Operation, Parts, Service, Repair

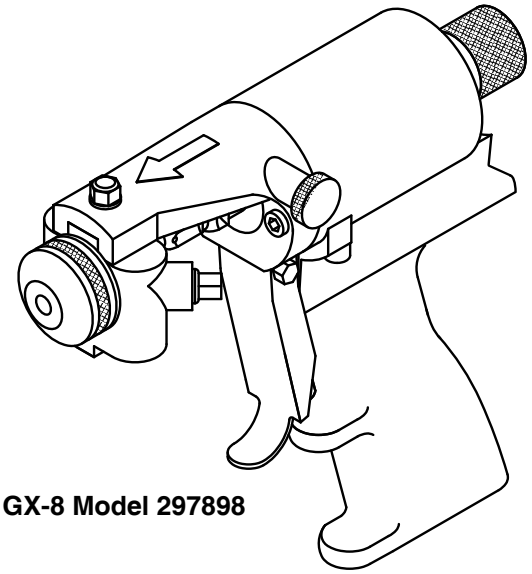
# GX-8P Spray Gun

311338N
EN

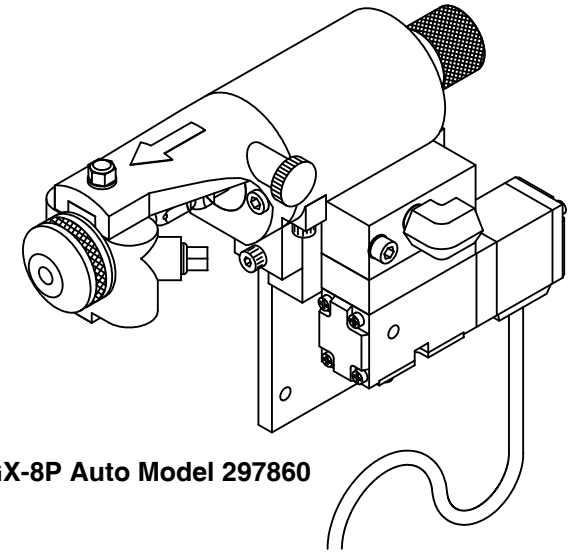
***For use with non-flammable polyurethane foams, two-component coating systems (polyureas), and some two-component epoxy systems. For professional use only. Not for use in explosive atmospheres.***

*3500 psi (24 MPa, 240 bar) Maximum Working Pressure*
*125 psi (90 KPa, 9 bar) Maximum Air Working Pressure*

**Important Safety Instructions**
Read all warnings and instructions in this manual. Save these instructions.



**GX-8 Model 297898**



**GX-8P Auto Model 297860**

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# Models

| Part No. | Description | Includes: | | | | |
|---|---|---|---|---|---|---|
| | | Mix Module | Tip | Manifold | Starter Kit | Flushing Kit |
| 297898 ★ | Gun, GX-8 | 295338 (013) | 297192 (201) | Not Included | | |
| 297860 | Gun, GX-8, Auto | | | | | |
| 24P633 ★ | Gun, GX-8, with manifold | | | 24N996 | 297911 | 296980 |

★ CE

# Warnings

*The following warnings are for the setup, use, grounding, maintenance, and repair of this equipment. The exclamation point symbol alerts you to a general warning and the hazard symbols refer to procedure-specific risks. When these symbols appear in the body of this manual, refer back to these Warnings. Product-specific hazard symbols and warnings not covered in this section may appear throughout the body of this manual where applicable.*

## ⚠ WARNING

### PERSONAL PROTECTIVE EQUIPMENT

Always wear appropriate personal protective equipment and cover all skin when spraying, servicing equipment, or when in the work area. Protective equipment helps prevent serious injury, including long-term exposure; inhalation of toxic fumes, mists or vapors; allergic reaction; burns; eye injury and hearing loss. This protective equipment includes but is not limited to:

- A properly fitting respirator, which may include a supplied-air respirator, chemically impermeable gloves, protective clothing and foot coverings as recommended by the fluid manufacturer and local regulatory authority.
- Protective eyewear and hearing protection.

### TOXIC FLUID OR FUMES HAZARD

Toxic fluids or fumes can cause serious injury or death if splashed in the eyes or on skin, inhaled or swallowed.

- Read Safety Data Sheet (SDS) for handling instructions and to know the specific hazards of the fluids you are using, including the effects of long-term exposure.
- When spraying, servicing equipment, or when in the work area, always keep work area well ventilated and always wear appropriate personal protective equipment. See **Personal Protective Equipment** warnings in this manual.
- Store hazardous fluid in approved containers, and dispose of it according to applicable guidelines.

### SKIN INJECTION HAZARD

High-pressure fluid from gun, hose leaks, or ruptured components will pierce skin. This may look like just a cut, but it is a serious injury that can result in amputation. **Get immediate surgical treatment.**

- Do not point gun at anyone or at any part of the body.
- Do not put your hand over the spray tip.
- Do not stop or deflect leaks with your hand, body, glove, or rag.
- Engage trigger lock when not spraying.
- Follow **Pressure Relief Procedure** in this manual, when you stop spraying and before cleaning, checking, or servicing equipment.

### PRESSURIZED EQUIPMENT HAZARD

Fluid from the gun/dispense valve, leaks, or ruptured components can splash in the eyes or on skin and cause serious injury.

- Follow **Pressure Relief Procedure** in this manual, when you stop spraying and before cleaning, checking, or servicing equipment.
- Tighten all fluid connections before operating the equipment.
- Check hoses, tubes, and couplings daily. Replace worn or damaged parts immediately.

# ⚠ WARNING

## FIRE AND EXPLOSION HAZARD

Flammable fumes, such as solvent and paint fumes, in **work area** can ignite or explode. To help prevent fire and explosion:

- Use equipment only in well ventilated area.
- Eliminate all ignition sources; such as pilot lights, cigarettes, portable electric lamps, and plastic drop cloths (potential static arc).
- Keep work area free of debris, including solvent, rags and gasoline.
- Do not plug or unplug power cords, or turn power or light switches on or off when flammable fumes are present.
- Ground all equipment in the work area. See **Grounding** instructions.
- Use only grounded hoses.
- Hold gun firmly to side of grounded pail when triggering into pail.
- If there is static sparking or you feel a shock, **stop operation immediately.** Do not use equipment until you identify and correct the problem.
- Keep a working fire extinguisher in the work area.

## EQUIPMENT MISUSE HAZARD

Misuse can cause death or serious injury.

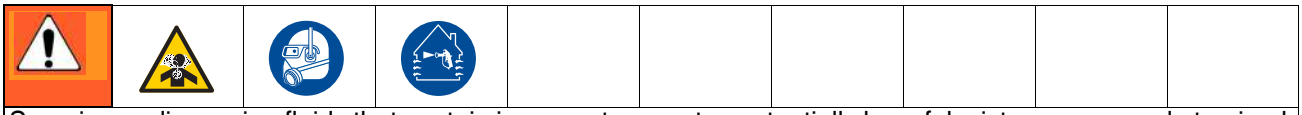
- Do not operate the unit when fatigued or under the influence of drugs or alcohol.
- Do not exceed the maximum working pressure or temperature rating of the lowest rated system component. See **Technical Data** in all equipment manuals.
- Use fluids and solvents that are compatible with equipment wetted parts. See **Technical Data** in all equipment manuals. Read fluid and solvent manufacturer's warnings. For complete information about your material, request MSDS forms from distributor or retailer.
- Check equipment daily. Repair or replace worn or damaged parts immediately with genuine Graco/Gusmer replacement parts only.
- Do not alter or modify equipment.
- Use equipment only for its intended purpose. Call your Graco/Gusmer distributor for information.
- Route hoses and cables away from traffic areas, sharp edges, moving parts, and hot surfaces.
- Do not kink or over bend hoses or use hoses to pull equipment.
- Keep children and animals away from work area.
- Comply with all applicable safety regulations.

## PRESSURIZED ALUMINUM PARTS HAZARD

Do not use 1,1,1-trichloroethane, methylene chloride, other halogenated hydrocarbon solvents or fluids containing such solvents in pressurized aluminum equipment. Such use can cause serious chemical reaction and equipment rupture, and result in death, serious injury, and property damage.

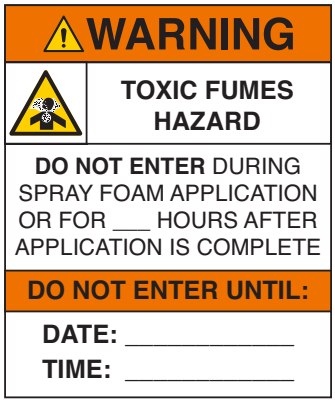
# Important Two-Component Material Information

## Isocyanate Conditions



Spraying or dispensing fluids that contain isocyanates creates potentially harmful mists, vapors, and atomized particulates.

- Read and understand the fluid manufacturer's warnings and Safety Data Sheet (SDS) to know specific hazards and precautions related to isocyanates.
- Use of isocyanates involves potentially hazardous procedures. Do not spray with this equipment unless you are trained, qualified, and have read and understood the information in this manual and in the fluid manufacturer's application instructions and SDS.
- Use of incorrectly maintained or mis-adjusted equipment may result in improperly cured material.which could cause off gassing and offensive odors. Equipment must be carefully maintained and adjusted according to instructions in the manual.
- To prevent inhalation of isocyanate mists, vapors and atomized particulates, everyone in the work area must wear appropriate respiratory protection. Always wear a properly fitting respirator, which may include a supplied-air respirator. Ventilate the work area according to instructions in the fluid manufacturer's SDS.
- Avoid all skin contact with isocyanates. Everyone in the work area must wear chemically impermeable gloves, protective clothing and foot coverings as recommended by the fluid manufacturer and local regulatory authority. Follow all fluid manufacturer recommendations, including those regarding handling of contaminated clothing. After spraying, wash hands and face before eating or drinking.
- Hazard from exposure to isocyanates continues after spraying. Anyone without appropriate personal protective equipment must stay out of the work area during application and after application for the time period specified by the fluid manufacturer. Generally this time period is at least 24 hours.
- Warn others who may enter work area of hazard from exposure to isocyanates. Follow the recommendations of the fluid manufacturer and local regulatory authority. Posting a placard such as the following outside the work area is recommended:

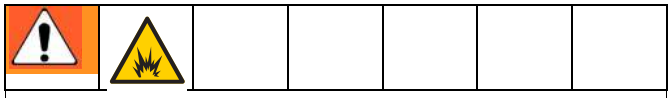


## For all applications except spray foam

Spraying or dispensing fluids that contain isocyanates creates potentially harmful mists, vapors, and atomized particulates.

- Read and understand the fluid manufacturer's warnings and Safety Data Sheet (SDS) to know specific hazards and precautions related to isocyanates.
- Use of isocyanates involves potentially hazardous procedures. Do not spray with this equipment unless you are trained, qualified, and have read and understood the information in this manual and in the fluid manufacturer's application instructions and SDS.
- Use of incorrectly maintained or mis-adjusted equipment may result in improperly cured material. Equipment must be carefully maintained and adjusted according to instructions in the manual.
- To prevent inhalation of isocyanate mists, vapors, and atomized particulates, everyone in the work area must wear appropriate respiratory protection. Always wear a properly fitting respirator, which may include a supplied-air respirator. Ventilate the work area according to instructions in the fluid manufacturer's SDS.
- Avoid all skin contact with isocyanates. Everyone in the work area must wear chemically impermeable gloves, protective clothing and foot coverings as recommended by the fluid manufacturer and local regulatory authority. Follow all fluid manufacturer recommendations, including those regarding handling of contaminated clothing. After spraying, wash hands and face before eating or drinking.

## Material Self-ignition



Some materials may become self-igniting if applied too thick. Read material manufacturer's warnings and Safety Data Sheet (SDS).

## Keep Components A and B Separate

Cross-contamination can result in cured material in fluid lines which could cause serious injury or damage equipment. To prevent cross-contamination:

- **Never** interchange component A and component B wetted parts.
- Never use solvent on one side if it has been contaminated from the other side.

## Moisture Sensitivity of Isocyanates

Exposure to moisture (such as humidity) will cause ISO to partially cure, forming small, hard, abrasive crystal that become suspended in the fluid. Eventually a film will form on the surface and the ISO will begin to gel, increasing in viscosity.

***NOTICE***

Partially cured ISO will reduce performance and the life of all wetted parts.

- Always use a sealed container with a desiccant dryer in the vent, or a nitrogen atmosphere. **Never** store ISO in an open container.
- Keep the ISO pump wet cup or reservoir (if installed) filled with appropriate lubricant. The lubricant creates a barrier between the ISO and the atmosphere.
- Use only moisture-proof hoses compatible with ISO.
- Never use reclaimed solvents, which may contain moisture. Always keep solvent containers closed when not in use.
- Always lubricate threaded parts with an appropriate lubricant when reassembling.

**NOTE:** The amount of film formation and rate of crystallization varies depending on the blend of ISO, the humidity, and the temperature.

## Foam Resins with 245 fa Blowing Agents

Some foam blowing agents will froth at temperatures above 90°F (33°C) when not under pressure, especially if agitated. To reduce frothing, minimize preheating in a circulation system.

## Changing Materials

**NOTICE**

Changing the material types used in your equipment requires special attention to avoid equipment damage and downtime.

- When changing materials, flush the equipment multiple times to ensure it is thoroughly clean.
- Always clean the fluid inlet strainers after flushing.
- Check with your material manufacturer for chemical compatibility.
- When changing between epoxies and urethanes or polyureas, disassemble and clean all fluid components and change hoses. Epoxies often have amines on the B (hardener) side. Polyureas often have amines on the B (resin) side.

# Overall View

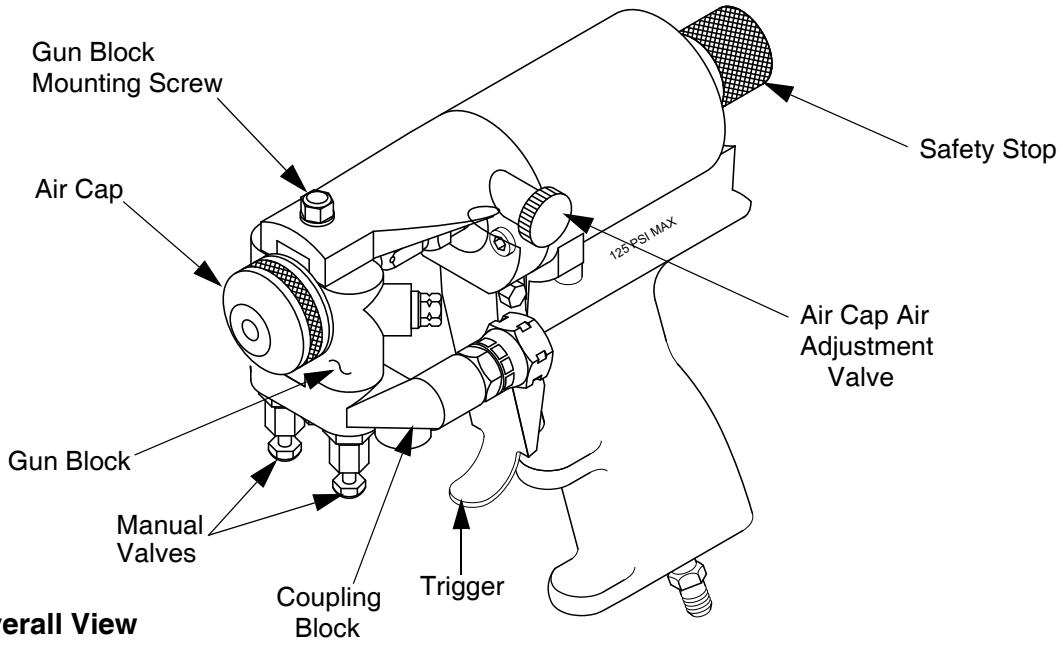



**FIG. 1: GX-8P Overall View**

# Centerline Components

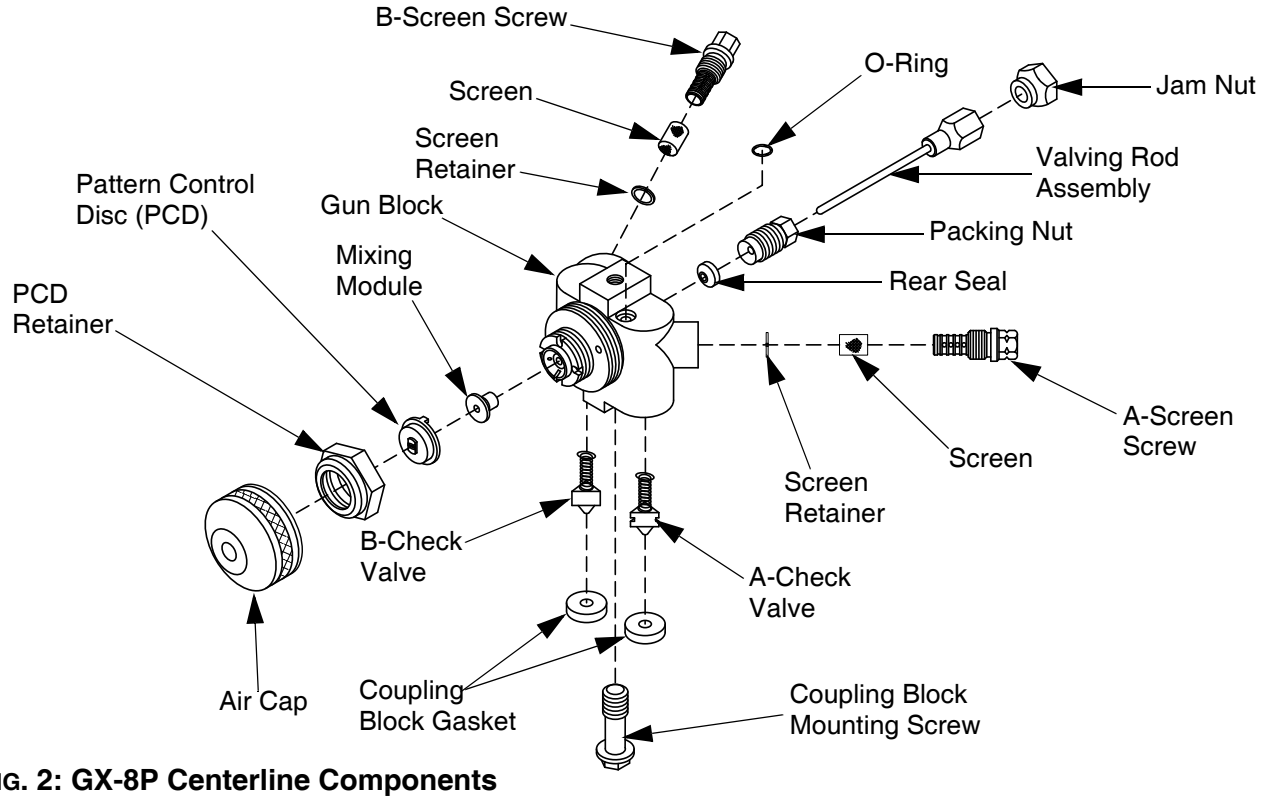



**FIG. 2: GX-8P Centerline Components**

# Mixing Module

Graco offers a variety of spray tip configurations to meet most applications that spray fast-reaction chemical systems at low outputs. GX-8P spray tip components consist of a Pattern Control Disc (PCD) and a Mixing Module (Figure 3). Tip components are available in a range of sizes in both round and fan spray patterns. Please contact your authorized Graco distributor to help you determine the best configurations for your specific application.

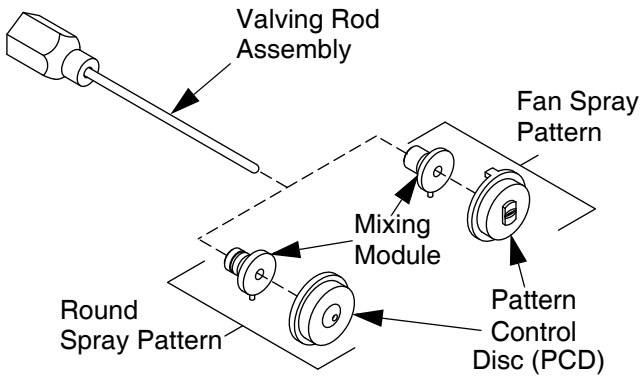



**FIG. 3: Mixing Module & PCD**

# Operation Basics

To prevent accidental gun operation, always disconnect air supply before servicing gun or anytime gun is not in use.

# Grounding

Check your local electrical code and proportioner manual for detailed grounding instructions.

Ground spray gun through connection to Graco-approved grounded fluid supply hose.

# Safety Position

GX-8P guns have a two-position safety stop. When engaged, it prevents accidental triggering of gun during servicing or down time. When disengaged, it allows gun to dispense.

## Engage Safety Stop

To engage safety stop, push in and turn safety stop clockwise to place gun in CLOSED safety position.

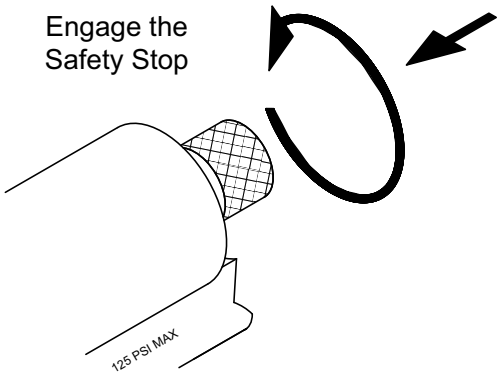



**FIG. 4: Safety Stop - Engaged**

## Disengage Safety Stop

To disengage safety stop, push in and turn safety stop counterclockwise to place gun in OPEN position.

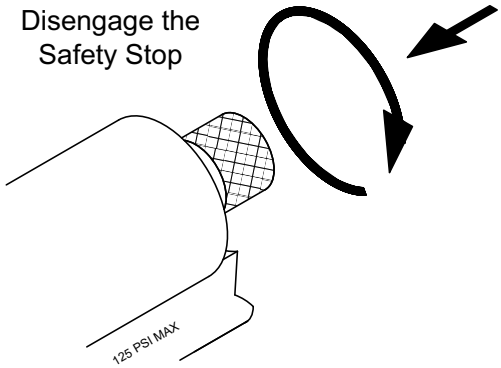



**FIG. 5: Safety Stop - Disengaged**

# Air Hose Connection

## Connect Air Hoses

Pull back sleeve of female fitting, insert male fitting and slide sleeve forward to secure connection.

## Disconnect Air Hoses

Pull back sleeve of female fitting and pull out male fitting.

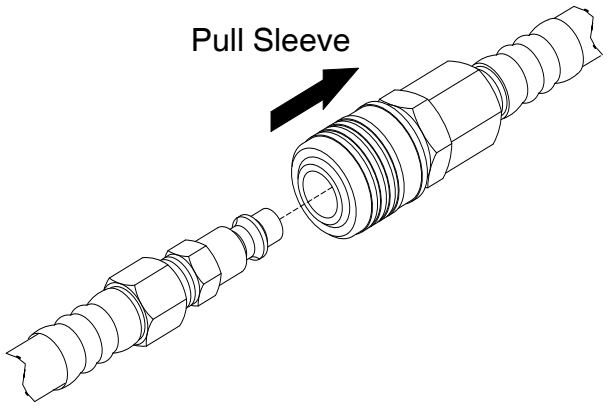



**FIG. 6: Disconnect Air Hose**

# Coupling Block

Chemical hoses are joined to gun block by a coupling block to ease installation and removal of gun.

## Manual Valves

Two manual valves located on coupling block control flow of each chemical component to gun.

Never open manual valve unless coupling block is secured to gun or unless you point gun into waste container.

**NOTE:** Triggering gun with manual valves closed may cause crossover if any residual chemical remains in gun ports.

### Open Manual Valves

Use 5/16 in. nut driver to turn manual valve counterclockwise approximately three full turns.

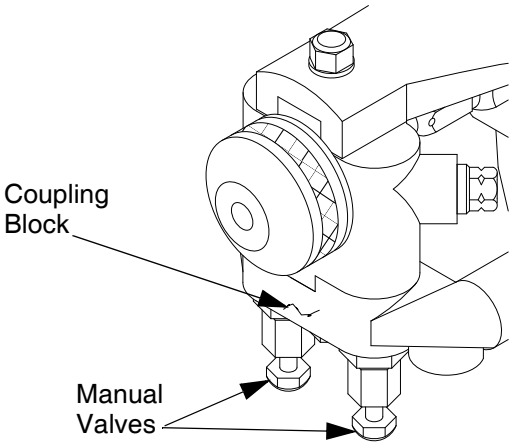



**FIG. 7: Open Manual Valves**

### Close Manual Valves

Use 5/16 in. nut driver to turn manual valve fully clockwise.

To prevent accidental gun operation, always set safety stop to CLOSED, close both manual valves, and disconnect air supply.

## Installation and Removal

To prevent release of pressurized chemicals, close both manual valves before coupling block is removed.

### Install Coupling Block

1. Replace nicked, damaged, or worn coupling block gaskets.
2. Ensure A-(isocyanate) and B-(resin) check valves are inserted into their proper recesses in gun block. Isocyanate valve is notched for easy identification.

3. Fit coupling block into gun block and insert coupling block mounting screw. Use 5/16 in. nut driver to tighten to gun block.

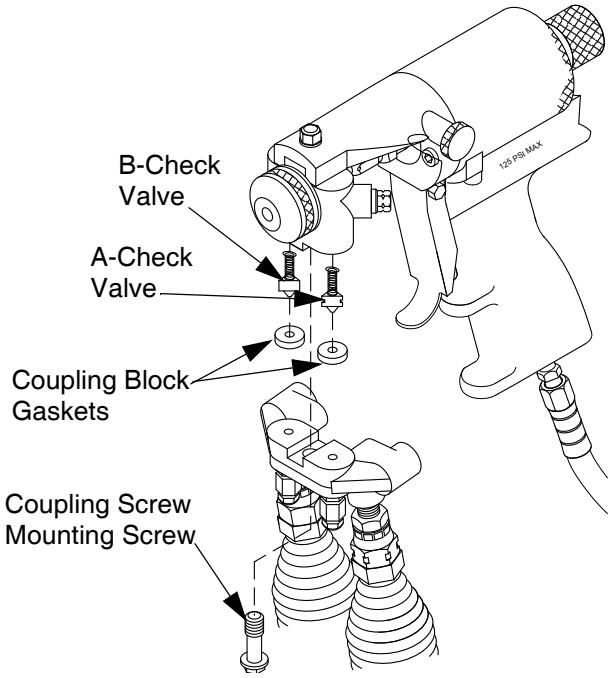



**FIG. 8: Install Coupling Block**

### Remove Coupling Block

1. CLOSE safety stop.
2. Disconnect air hose.
3. Close both manual valves.
4. Remove coupling block mounting screw.
5. Separate coupling block from gun.
6. Wipe mating surfaces of gun block and coupling block to remove residual chemicals.
7. Cover exposed openings with grease.

**NOTE:** To avoid accidental gun operation, ensure coupling block manual valves are closed before attempting to service gun, or any time gun is not in use.

# Air Inlet Configuration

There are two configurations for the air inlet. In the standard configuration, the air inlet is at base of handle. In the alternate configuration, the air inlet is at rear of gun.

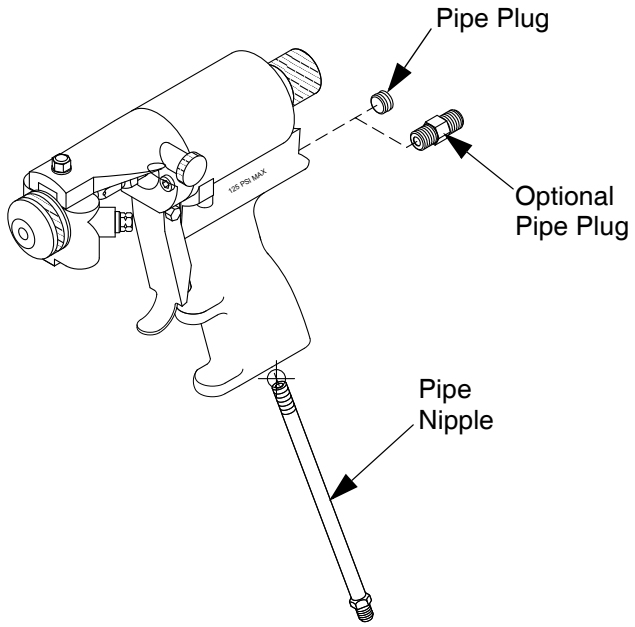



**FIG. 9: Air Inlet Configuration**

To change to alternate configuration:

1. Use 6 in. adjustable wrench to remove 4 in. pipe nipple from base of gun.
2. Use 3/16 in. hex key to remove 1/8 in. pipe plug from rear of gun.
3. Use 3/16 in. hex key to install 1/8 in. pipe plug in location previously occupied by 4 in. pipe nipple.
4. Use 6 in. adjustable wrench to install pipe nipple in location previously occupied by 1/8 in. pipe plug.

# Mixing Module and PCD Installation

1. Loosen air cap by hand and remove.
2. Install mixing module:
   a. Disconnect gun from coupling block.
   b. Connect air supply to gun.
   c. Set safety stop to OPEN.
   d. Hold down trigger and place module over tip of valving rod.
   e. Align keying pin with slot in gun block and keep gun trigger held down.
3. Install PCD:
   a. Hold down gun trigger and thread PCD retainer in place by hand.
   b. Use 10 in. adjustable wrench to carefully tighten PCD retainer until snug enough to ensure no leak will occur.
   c. Release gun trigger.
4. Install air cap and tighten by hand.
5. Adjust valving rod (see **Valving Rod Adjustment**, page 14).

# Valving Rod Adjustment

Valving rod should not require adjustment if it was shipped from factory with mixing module and PCD installed. Valving rod should only require adjustment when:

- Piston/rod assembly/ring is changed
- Valving rod is changed
- PCD is installed or changed
- Mixing module is installed or changed

To adjust valving rod:

1. Perform **Clean Spray Gun Procedure**,(see page 19.
2. Connect air supply to gun.
3. Use 5/16 in. open-end wrench to loosen packing nut 3 or 4 turns. This relieves pressure between seals and makes adjustment easier.

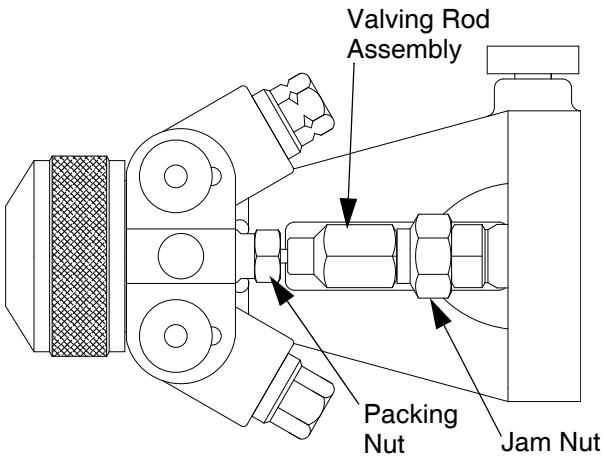



**FIG. 10: Valving Rod Adjustments**

4. Use 3/8 in. wrench on hex-shaped valving rod shank and 1/2 in. wrench on jam nut to loosen and back it away from valving rod by 3 or 4 full turns. Then move valving rod toward gun cylinder. Turn valving rod shank 2 or 3 full turns clockwise.
5. Slowly turn valving rod counterclockwise to move it toward PCD until resistance is felt. Valving rod tip should touch inside spherical surface of PCD.
6. Carefully maintain 3/8 in. wrench in position and tighten jam nut up against valving rod shank to lock adjustment into place.
7. Re-tighten packing nut.
8. Check rear safety stop by attempting to disengage it. If knob will not turn, valving rod is adjusted too far forward. Repeat steps 3 - 7. Make sure not to adjust valving rod past the point resistance is felt. If safety stop disengages, proceed to step 9.
9. Trigger gun with safety stop disengaged to confirm rear seal adjustment. Make sure rod moves freely. If not, loosen packing nut slightly until it does. Start to spray and check for chemical seepage from packing nut and re-tighten if necessary.

**NOTE:** If valving rod required adjustment as part of initial mixing module and PCD installation on a new spray gun, proceed to **Initial Set Up**, page 15.

# Initial Set Up

1. Remove coupling block from gun.
2. Use two 6 in. adjustable wrenches to install female quick disconnect fitting onto air supply hose bundled with chemical supply hoses.
3. Use two 6 in. adjustable wrenches to connect A-isocyanate hose (red-taped) to notched fitting on coupling block. Connect B-resin hose (blue-taped) to fitting without notches on coupling block.
4. Close both manual valves.
5. Pressurize A and B chemical hoses and check for leaks (see Proportioner manual as needed).
6. Bleed air from chemical hoses:
   a. Hold coupling block with exit ports pointed into waste container.
   b. Use 5/16 in. nut driver to open each manual valve; this allows any trapped air to escape. Bleed each side for a short time until chemicals leaving hoses are free of air.
   c. Close both manual valves.
7. Use cloth soaked in gun cleaner to clean coupling block and mating surfaces.

**NOTICE**

Do not apply grease to mating surfaces of coupling block to avoid accumulation of dirt and other contaminants.

8. CLOSE safety stop.
9. Install coupling block to gun.
10. Proceed with daily start-up and shutdown procedures as required.

# Daily Start-up

Ensure gun is attached to coupling block and air hose. Ensure proportioning unit is at desired temperature and pressure. Properly ground equipment to avoid static sparking that may result in fire or explosion.

1. Connect air supply to gun.
2. Adjust air cap adjustment valve. Turn knob counter-clockwise to open valve and clockwise to close valve.
3. Open both manual valves.
4. OPEN safety stop.
5. Test spray on a disposable surface and evaluate.

# Daily Shutdown

**NOTE:** Follow daily shutdown procedure when gun is out of service for any length of time, or for mid- or end-of-day service. See **Clean Spray Gun Procedure**, page 19.

1. CLOSE safety stop.
2. Close both manual valves.
3. Disconnect air supply from gun.
4. Shut down proportioning unit as required.
5. Clean as required (see **Clean Spray Gun Procedure**, page 19).

**NOTE:** Disassembling gun for daily cleaning is not recommended if gun has been operating properly. However, if gun is removed from coupling block, it must be flushed and cleaned thoroughly.

# Pressure Relief Procedure

Relieve pressure before cleaning or repairing gun.

1. Close both manual valves.

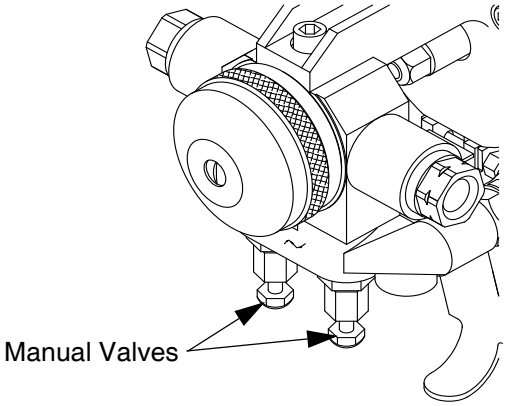



**FIG. 11: Close Manual Valves**

2. OPEN safety stop.
3. Trigger gun onto cardboard or into waste container to relieve pressure.

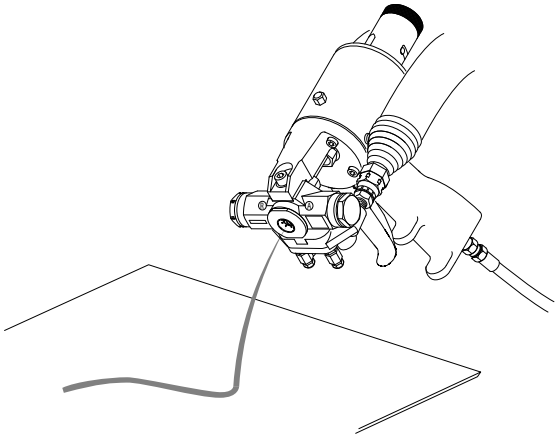


**FIG. 12: Trigger Gun**

4. Release gun trigger, CLOSE safety stop, and close manual valves.

If fluid in hose and proportioner is still under pressure, follow Pressure Relief Procedure in proportioner manual

To relieve pressure in hose after gun is removed, place fluid manifold over containers, facing away from you. Very carefully open fluid valves (FIG. 13). Under high pressure, fluid will spray sideways from fluid ports.

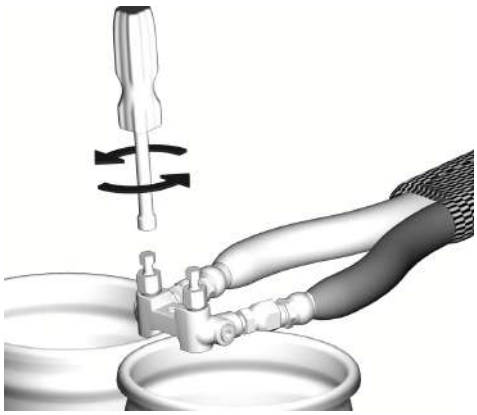


**FIG. 13: Open Manual Valves**

# Maintenance

## Gun Service Kits

Use either 1-Quart Gun Service Kit (296980) or 3-Gallon Gun Service Kit (296981) to perform daily flushing of spray gun without disassembly.

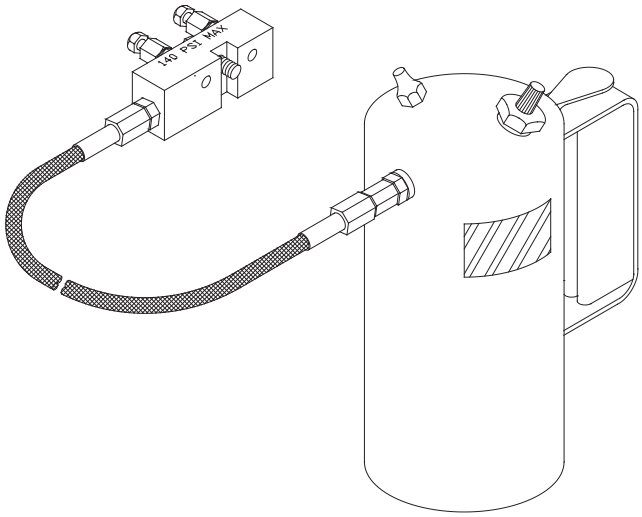



**FIG. 14: 1-Quart Gun Service Kit**

For more information about 1-Quart Gun Service Kit, see Manual 311340.

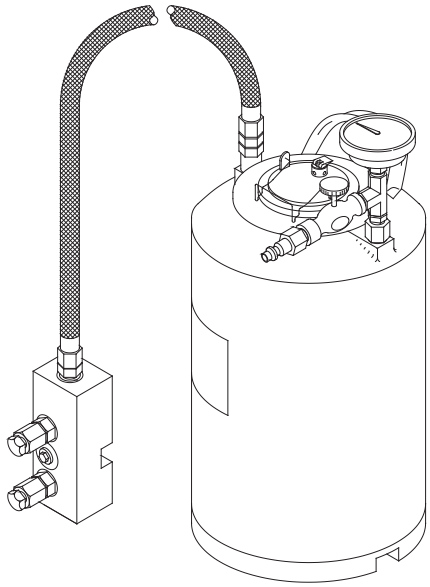


**FIG. 15: 3-Gallon Gun Service Kit**

For more information about 3-Gallon Gun Service Kit, see Manual 311341.

# Clean Spray Gun Procedure

To avoid static sparking that may result in fire or explosion, ensure all equipment in cleaning procedure is grounded. Do not clean on or near foamed or coated surfaces or any other flammable surfaces or objects.

Thoroughly flush gun block with gun cleaner before removing valving rod or mixing components from gun block. Also allow chemicals in spray gun to cool before cleaning.

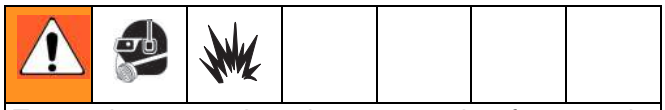
This procedure makes use of the 1-Quart or 3-Gallon Gun Service Kit.

1. CLOSE safety stop.
2. Close both manual valves.
3. Remove gun from coupling block.
4. Attach service block of gun service kit to spray gun, and then tighten using 5/16 in. nut driver.
5. Pressurize service kit container up to 100 psi. DO NOT EXCEED 100 psi (0.7 MPa, 7 bar).
6. Clean gun:
   a. Set safety stop to OPEN.
   b. Open either manual valve on service block.
   c. Trigger gun and gun service kit simultaneously with gun aimed into waste container.
   d. Release both triggers and close manual valves on service block.
   e. Repeat procedure for other side of gun.
   f. After initial cleaning, remove air cap, PCD retainer, and PCD. Flush a second time to ensure thorough cleaning.
7. CLOSE safety stop.
8. Disconnect air supply from gun.
9. Remove service block of gun service kit from gun.
10. Clean screens, check valves and screen screw (see **Service Screen Screw**, page 20.

**NOTE:** Inspect air cap, PCD, mixing module, and gun block for build up of material and clean as required.

Do not use metal cleaning devices to clean plastic components.

# Flush Gun



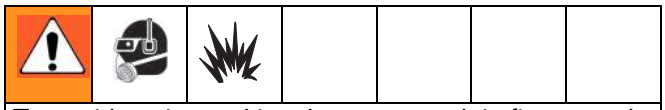
To avoid static sparking that may result in fire or explosion, ensure all equipment in flushing procedure is grounded. Do not flush on or near foamed or coated surfaces.

1. CLOSE safety stop.
2. Close both manual valves.
3. Loosen B-Screen screw and then remove by hand.
4. Use flush can to thoroughly flush screen screw and screen screw cavity.
5. Loosen A-Screen screw and then remove by hand.
6. Use flush can to thoroughly flush screen screw and screen screw cavity.
7. Service gun, see **Maintenance** procedures, page 18.

# Repair

Shutdown proportioner and allow chemicals to cool before servicing gun.

## Service Screen Screw



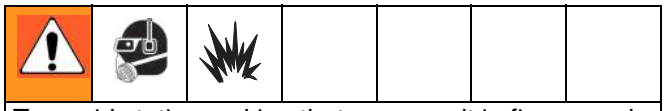
To avoid static sparking that may result in fire or explosion, ensure all equipment in flushing procedure is grounded. Do not flush on or near foamed or coated surfaces.

1. Flush gun see **Clean Spray Gun Procedure**, page 19.
2. Unthread screen screw from gun block.
3. Remove screen screw retainer before removing screen.
4. Remove screen from screen screw. Soak in gun cleaner or replace if clogged or dirty.
5. Clean screen screw cavity. If **any** particles are visible, clean with clean out drills and flush with gun cleaner.

**NOTE:** Any material left in cavity on downstream side of screen will clog mixing module.

6. Inspect screen screw seal for damage. Replace if necessary.
7. Reinstall screen screw in gun block. Ensure it is tight.
8. Flush gun with mixing module removed.

## Remove Check Valve



To avoid static sparking that may result in fire or explosion, ensure all equipment in flushing procedure is grounded. Do not flush on or near foamed or coated surfaces.

Check valves are located in cavities of gun block under each coupling block gasket. Check valves are triangular pieces with a spring inserted in one end. The isocyanate valve is notched for easy identification.

To remove check valve:

1. Clean gun (see **Clean Spray Gun Procedure**, page 19).
2. Use check valve seal removal/cleaning tool to remove gaskets from recesses in coupling block. Inspect gaskets for damage and replace if necessary.
3. Remove check valves. If valve does not come out easily, insert machined end of removal/cleaning tool over valve and rotate it while extracting valve.
4. Clean valves and springs with gun cleaner. Inspect for damage and replace if necessary.
5. Inspect each check valve cavity. Use cleaning tool to remove any visible particles. Use gun cleaner to flush thoroughly.
6. Insert each check valve into its cavity spring end first. Ensure check valve is oriented correctly. Isocyanate valve is notched for easy identification.
7. Install coupling block gaskets.

# Remove Centerline Components

Refer to page 8 for diagrams of centerline components for all gun models.

1. Flush gun (see **Clean Spray Gun Procedure**, page 19).
2. Remove air cap (loosen by hand).
3. Use 10 in. adjustable wrench to remove PCD.
4. Connect air supply to gun.
5. Lift PCD off nose of gun block and remove.

**NOTE:** To remove PCD that is stuck, set safety stop to OPEN, depress and release gun trigger to unseat it. CLOSE safety stop.

6. Remove mixing module retainer.
7. OPEN safety stop. Depress and release gun trigger to unseat it. Remove mixing module off end of valving rod. CLOSE safety stop.

| NOTICE |
| --- |
| Do not use sharp objects or metal tools to remove mixing module. |

8. Disconnect air supply from gun.
9. Use 5/16 in. wrench to loosen packing nut 3 or 4 turns.
10. Remove gun block:
    a. Use 5/16 in. nut driver to remove gun block retaining screw.
    b. Slide gun block away from valving rod and air cylinder. If dried chemical is built up on gun block, remove dried chemicals to make removal easier.
11. Remove and clean check valves (see **Remove Check Valve**, page 20).
12. Remove valving rod:
    a. Use 3/8 in. wrench on hex-shaped valving rod shank and a 1/2 in. wrench on jam nut to loosen it and back it away from valving rod shank by 3 or 4 full turns.
    b. Unthread valving rod from piston shaft and remove.
13. Clean all components thoroughly before reassembly.
14. Inspect gun block to ensure proper operation of spray gun.

# Install Centerline Components

Before installation, ensure all gun components are clean and dry. Lubricate all moving parts and threads.

1. To install valving rod, thread jam nut as far back on piston shaft as possible. Screw shank end of valving rod onto threaded end of piston rod.
2. Install rear seal and packing nut if removed. Thread packing nut into gun block by hand, but do not tighten.
3. To install gun block, carefully slide gun block onto valving rod towards air cylinder. Use 5/16 in. nut driver to install gun block onto gun block mounting bracket.
4. Connect air supply to gun.
5. OPEN safety stop.
6. To install mixing module, hold down gun trigger and slide module over end of valving rod. Make sure to align keypin with slot in gun block. Keep gun trigger depressed and proceed to step 7.
7. To install PCD, hold gun trigger in and place PCD over mixing module. If installing a fan tip, position PCD according to which spray direction is needed (vertical or horizontal). Keep gun trigger depressed and proceed to step 8.

**NOTE:** Parts must align properly or chemical flow from gun block ports will not enter mixing module when gun is triggered.

8. Install PCD retainer:

   a. With gun trigger depressed, thread PCD retainer in place by hand.

   b. Use 10 in. adjustable wrench to carefully tighten PCD retainer until it is snug enough to ensure no leak will occur.

   c. Release gun trigger.

**NOTICE**

To avoid damage to module and gun block, do not over-tighten mixing module retainer.

9. Install air cap and tighten by hand.

10. Adjust valving rod (see **Valving Rod Adjustment**, page 14).

# Replace End Cap and Air Piston Assembly

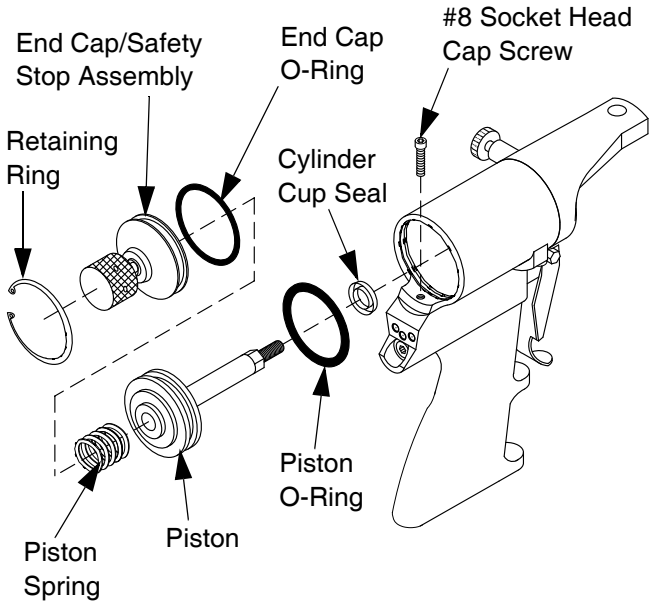



**FIG. 16: End Cap and Air Piston Assembly**

1. Clean gun (see **Clean Spray Gun Procedure** on page 19).

2. Disconnect air supply from gun.

3. Use 5/16 in. wrench to loosen packing nut 3 or 4 turns (remove nut completely if rear seal needs to be replaced).

4. Remove gun block:

   a. Use 5/16 in. nut driver to remove gun block mounting screw.

   b. Carefully slide gun block away from valving rod and air cylinder. If dried chemical has built up on gun block, remove dried chemical to make removal easier.

   c. Remove valving rod and jam nut (see **Remove Check Valve**, page 20):

   d. Use 3/8 in. wrench on hex-shaped valving rod shank and 1/2 in. wrench on jam nut.

   e. Loosen jam nut and back it away from valving rod shank by 3 or 4 full turns.

   f. Unthread valving rod and jam nut from piston shaft.

5. OPEN safety stop.
6. Use 9/64 in. ball point hex key to remove socket head cap screw that holds air cylinder to handle (FIG. 16).
7. Use retaining ring 45° pliers to remove retaining ring that holds end cap in place inside air cylinder.
8. Remove end cap/safety stop assembly and piston spring:
   a. Pull safety stop and attached end cap out of air cylinder.
   b. Remove piston spring located inside cylinder. Be sure to retain spring for re-installation.

**NOTE:** Force will be required to remove end cap because ring is tightly compressed.

9. Inspect end cap ring. Replace if damaged. Apply light coating of Lubriplate grease and install new end cap ring.

**NOTE:** Skip steps 11-13 and go to step 14 if only end cap ring and cup seal need to be replaced.

   a. Remove piston/rod assembly:
   Use gun block mounting screw (screw that holds gun block to bracket) to aid in removal of piston.
   b. Look into rear of air cylinder and thread mounting screw into center hole of piston at least 4 full turns.
   c. Use 6 in. pliers to grab mounting screw and pull piston rod assembly out of air cylinder.
   d. Inspect ring and replace if damaged. Apply light coat of Lubriplate grease and install new ring.

10. Inspect air cylinder cup seal. If air escapes around piston rod during operation, remove and replace cup seal located in front of air cylinder. Lubricate new cup seal with Lubriplate grease and install it. Make sure cup faces toward rear of cylinder.
11. Insert piston and rod assembly into air cylinder. Be careful not to damage cup seal in front face of air cylinder as rod passed though. Remove gun block mounting screw from piston.
12. Disassemble safety stop mechanism:
   a. Use 5/64 in. hex key to remove two set screws from knob.
   b. Slide knob off stop pin and retain stop pin spring.
   c. Pull shaft out of end cap (FIG. 17).
13. Remove cup seal from end cap and inspect for damage. Remove if damaged. Apply light coat of Lubriplate grease and install new end cap ring.

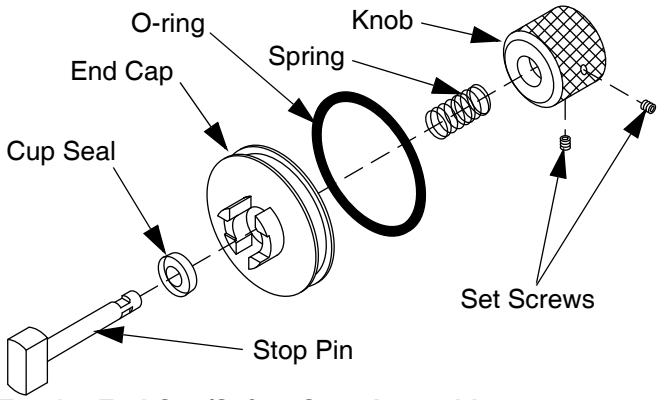



**FIG. 17: End Cap/Safety Stop Assembly**

14. Reassemble safety stop mechanism:
   a. Insert stop pin into end cap hole.
   b. Slide spring and knob onto stop pin.
   c. Use 5/64 in. hex key to reinstall two set screws into knob. Ensure knob is secure.
15. Reinstall end cap/safety assembly and piston spring:
   a. Insert piston spring and align over raised center of piston.
   b. Line up raised center of end cap with spring and insert end cap into air cylinder.
   c. Press end cap until it moves past retaining ring groove in cylinder.
   d. Maintain pressure on end cap. Ensure groove remains visible.
16. Use retaining ring 45° pliers to reinstall retaining ring into groove.

Retaining ring must seat completely into groove to secure end cap in place when air cylinder is pressurized. Keep clear of cap when air pressure is applied or gun is triggered after reassembly.

17. Use 9/64 in. ball-point hex key to install and tighten socket head cap screw, which holds air cylinder to handle.

18. Reinstall valving rod and jam nut:

    a. Thread jam nut as far as it will go onto threaded end of piston shaft.

    b. Ensure hex end of nut faces rear.

    c. Thread valving rod as far onto threaded portion of piston rod as possible.

19. Thread packing nut into gun block by hand but do not tighten.

20. Install gun block:

    a. Ensure ring is in place in top of gun block.

    b. Carefully slide gun block onto valving rod toward air cylinder.

    c. Use 5/16 in. nut driver to install gun block onto gun block mounting bracket.

21. Adjust valving rod (see **Valving Rod Adjustment** on page 14).

# Replace Trigger Valve O-Rings

1. Clean gun (see **Clean Spray Gun Procedure**, page 19).

2. Perform **Pressure Relief Procedure**, page 17.

3. Disconnect air supply from gun.
   Refer to **Parts**, page 27.

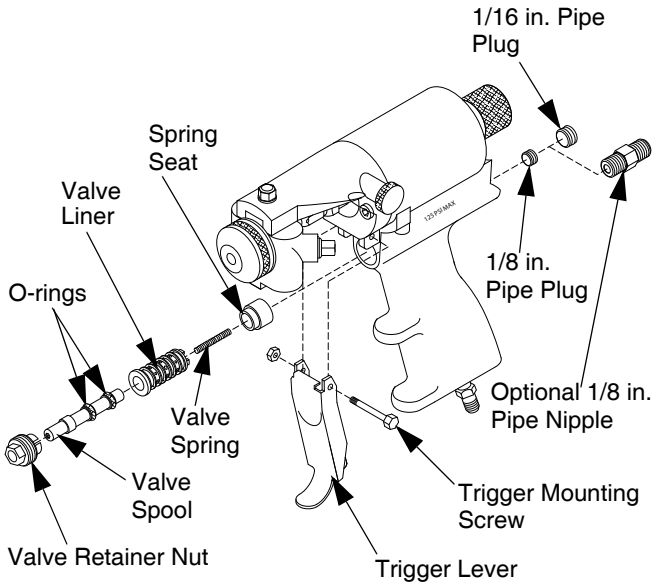



**FIG. 18: Replace Trigger Valve O-Ring**

4. Use 6 in. adjustable wrench and 6 in. pliers to remove screw and locknut that hold trigger lever in place. Remove trigger lever.

5. Use 3/8 in. wrench to loosen and remove valve retainer nut.

6. Remove valve spool and spring:

    a. Grab end of spool and pull out. Spring will come out with spool. **Do not** lose spring--it belongs in hole at end of spool.

    b. Remove old rings.

    c. Apply thin coat of Lubriplate grease to new rings and reinstall.

**NOTE:** Follow steps 7-14 to replace rings on valve liner. If rings do not need to be replaced, proceed to step 15.

7. Use 3/16 in. hex key to remove 1/8 in. rear internal plug. This plug seals another airflow path in gun handle.

**NOTE:** For guns configured with air inlet at rear of gun handle, pipe nipple replaces pipe plug. Remove pipe nipple.

8. Use 5/32 in. hex key to remove rear internal pipe plug (under pipe plug).

9. Use pin punch and hammer to gently tap spring seat until it and valve liner push out opposite end of hole.

10. Remove rings on liner. Apply thin coat of Lubriplate grease to new rings and install.

11. Clean valve hole. Remove any dirt and debris. Apply thin coat of Lubriplate grease to inside of valve hole.

12. Slide spring seat into gun handle air valve hole, tapered end first, until it bottoms out.

13. Push valve liner in as far as it will go. Install valve retainer nut, it will align valve liner and spool to their proper depth.

14. Use 5/32 in. hex key to screw 1/16 in. pipe plug back into place. Apply think coat of pipe thread sealant to threads prior to insertion to help prevent air leaks.

15. Apply small amount of pipe thread sealant to 1/8 in. plug threads. Screw pipe plug in place.

16. Insert valve spool into valve liner with valve spool spring still in place. Screw in valve retainer nut; tighten until snug.

17. Use screw and locknut to reinstall trigger lever.

# Clean Mixing Module

1. Flush gun (see **Clean Spray Gun Procedure**, page 19).

2. Connect air supply to gun. OPEN safety stop.

3. Remove air cap by hand.

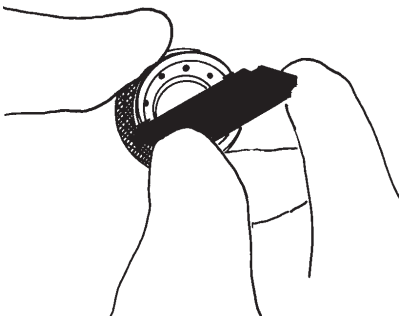


**FIG. 19: Unthread Cap from PCD Body**

4. Trigger gun and hold it to relieve pressure on PCD retainer.

5. Turn PCD retainer counterclockwise and remove.

6. Remove PCD from mixing module retainer.

**NOTE:** To remove PCD that is stuck, set safety stop to OPEN, depress and release gun trigger to unseat it. CLOSE safety stop.

7. Remove mixing module retainer.

8. OPEN safety stop. Depress and release gun trigger to unseat it. Remove mixing module from end of valving rod. CLOSE safety stop.

9. Inspect valving rod for damage and replace as required. Use cloth soaked in gun cleaner or steel wool to clean and remove buildup of mixed material from rod.

**NOTE:** If valving rod is replaced, reset forward stop.

10. Clean mixing module.

**NOTE:** Ensure cleanout tool size matches module size used.Insert cleanout tool into pin vise.

d. Use cleanout tool to clean module ports. Make sure not to insert tool too far, it will damage inside bore of module. Use cotton swab soaked in gun cleaner to clean bore of module.

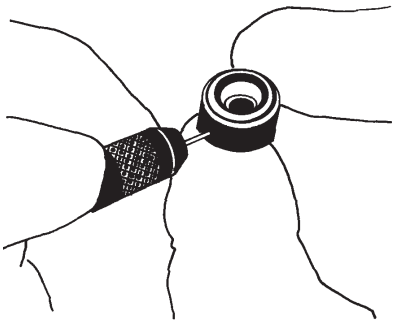


**FIG. 20: Clean Module Ports**

# Troubleshooting

Follow **Pressure Relief Procedure**, page 17, before checking or repairing gun.

**NOTICE**

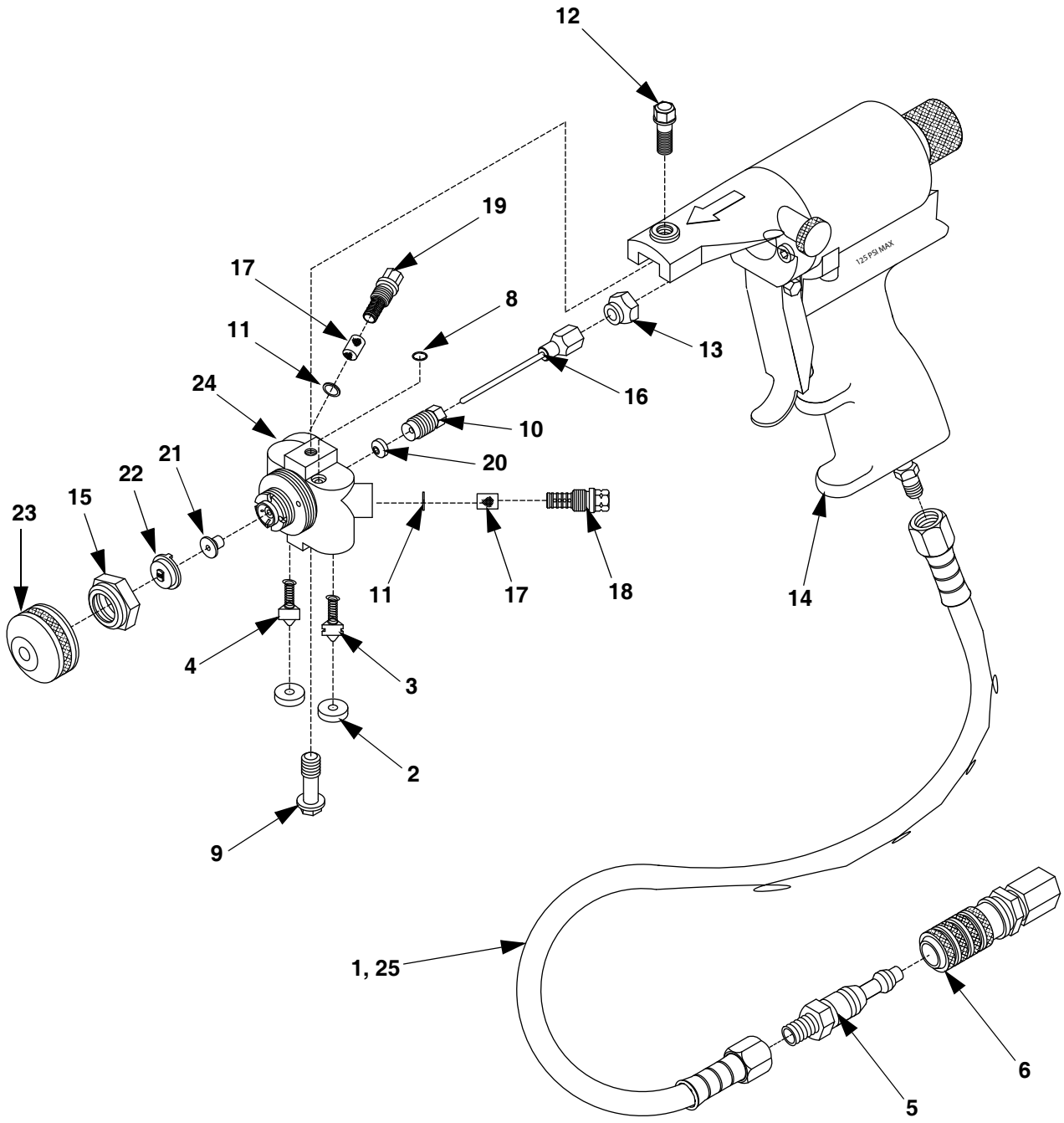
To prevent cross-contamination of the equipment's wetted parts, **never** interchange component A (isocyanate) and component B (resin) parts. The gun is shipped with the A side on the left. The gun block and the screen screw are marked.

Use the following table to check all possible problems and causes before disassembling gun. See **Maintenance** on page 18 for referenced procedures.

| Problem | Cause | Solution |
|---|---|---|
| Gun does not fully actuate | Safety lock engaged | Disengage piston safety lock |
| | Air not vented on open/close ports | Vent open air port when closing, vent close air port when opening |
| | Loss of air | Check air source |
| Fluid does not pour when gun is fully actuated | Closed manual valves | Open valves |
| | Plugged orifice ports | Clean orifice ports |
| | Plugged check valves | Clean check valves |
| | Safety lock engaged | Disengage piston safety lock |
| Gun actuates slowly | Loss of air pressure | Check air source |
| | Damaged piston o-rings | Replace air piston o-rings |
| Gun delays, then actuates abruptly | Cured material around the purge rod | Inspect purge rod, mix module, and orifices. Replace if necessary |
| Gun does not actuate | Air supply to gun is shut off | Open air supply |
| | Foam build-up around front tip | Clean off front tip. |
| Pressure imbalance | Plugged orifice ports | Clean orifice ports |
| | Plugged check valves | Clean check valves |
| | Plugged fluid screens | Clean screens |
| Fluid does not shut off when fluid valves are closed | Damaged fluid valves | Replace |
| Leak between air cylinder and fluid housing | Damaged o-ring | Replace |
| Material leaking out weep ports in fluid housing near air cylinder | Mix module and rear seal worn | Inspect and replace mix module and rear seal, clean fluid housing |

# Parts

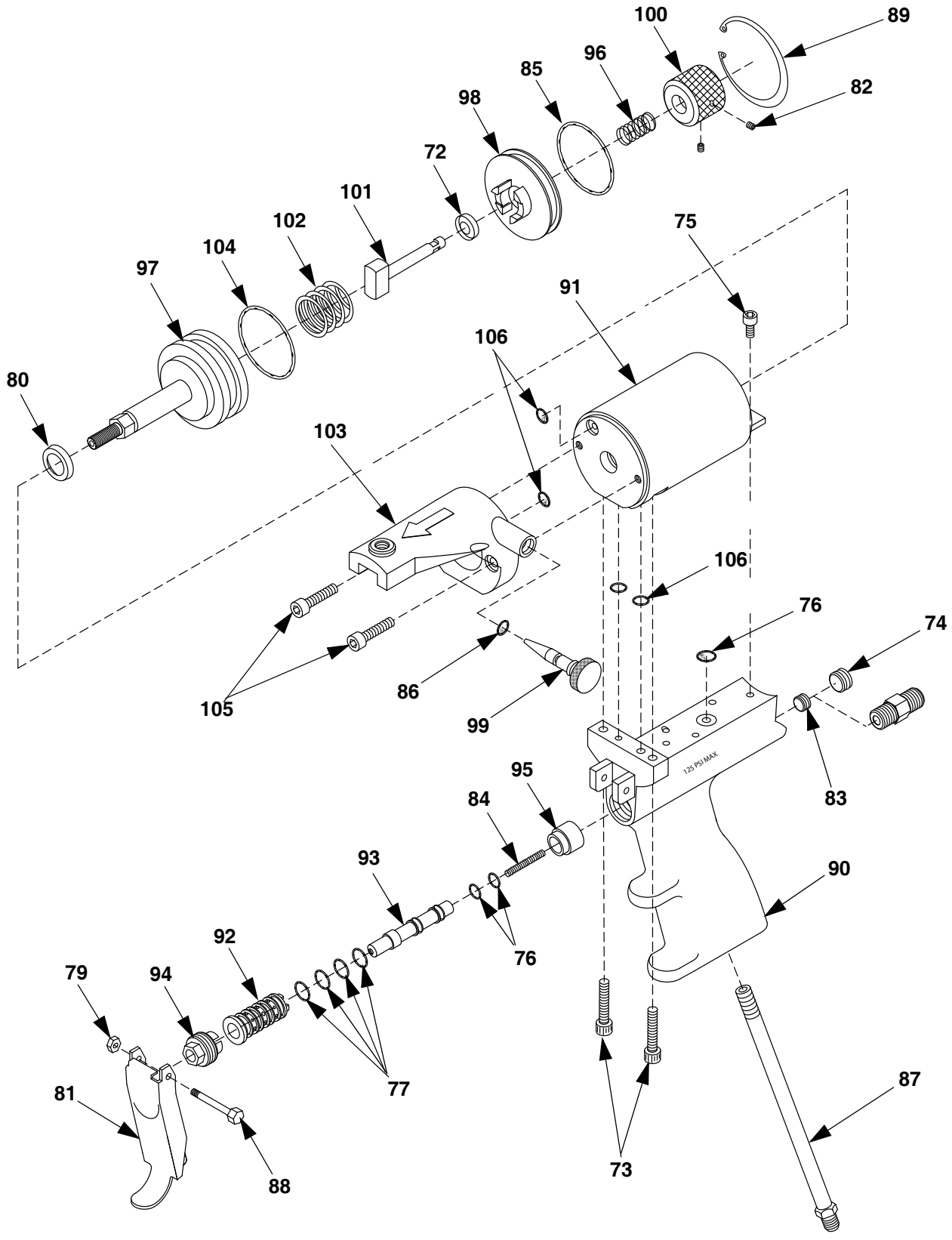
## GX-8 Gun Final Assembly (297898)



## GX-8 Gun Final Assembly (297898)

| Ref. | Part | Description | Qty. |
|---|---|---|---|
| 1 | 15B772 | HOSE, air, 1/4 in. x 23 in. (F x F) | 1 |
| 2 | 296128 | GASKET, block, gasket | 2 |
| 3 | 295623 | VALVE, check, A | 1 |
| 4 | 295624 | VALVE, check, B | 1 |
| 5 | 295596 | PLUG, coupler | 1 |
| 6 | 208536 | Coupler, line, air | 1 |
| 8 | 106560 | PACKING, O-ring | 1 |
| 9 | 295433 | SCREW, mounting, block, coupling | 1 |
| 10 | 297680 | NUT, seal, rear | 1 |
| 11 | 297681 | RETAINER, screen | 2 |
| 12 | 297682 | SCREW, mounting, block, gun | 1 |
| 13 | 297683 | NUT, jam | 1 |
| 14 | 297702 | HANDLE, assembly | 1 |
| 15 | 297684 | RETAINER, PCD | 1 |
| 16 | 295341 | ROD, valving | 1 |
| 17 | 297193 | SCREEN, gun block, 100 mesh | 2 |
| 18 | 297686 | SCREW, screen, iso | 1 |
| 19 | 297687 | SCREW, screen, res | 1 |
| 20 | 295437 | PACKING, seal, rear | 1 |
| 21 | 295338 | MODULE, fan | 1 |
| 22 | 297192 | TIP, fan | 1 |
| 23 | 297705 | CAP, air | 1 |
| 24 | 297901 | BLOCK, gun | 1 |
| 25 | 100030 | Fitting | 1 |

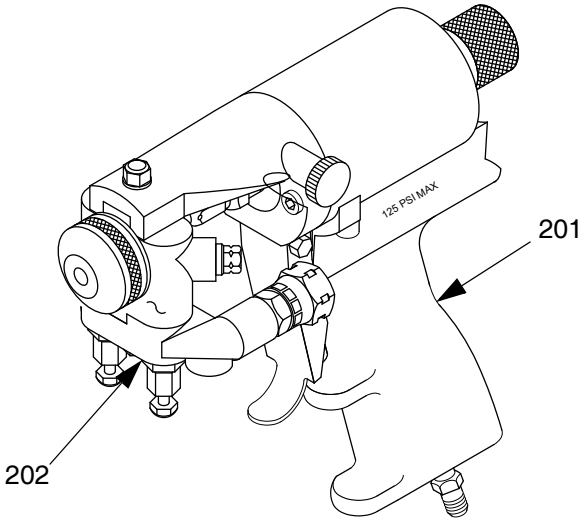
# GX-8 Handle Assembly (297702)



## GX-8 Handle Assembly (297702)

| Ref. | Part | Description | Qty. |
|---|---|---|---|
| 72 | 295435 | SEAL, u-cup | 1 |
| 73 | 295709 | SCREW, cap, socket head | 2 |
| 74 | 295662 | PLUG, pipe | 1 |
| 75 | 295732 | SCREW, cap, sh, 8-32 x 1/4 LG | 1 |
| 76 | 103337 | PACKING, ring | 3 |
| 77 | 106555 | PACKING, ring | 4 |
| 79 | C02032 | NUT | 1 |
| 80 | 296627 | SEAL, u-cup | 1 |
| 81 | 295692 | TRIGGER, gun, spray | 1 |
| 82 | 116624 | SCREW, set, socket head | 2 |
| 83 | 295693 | PLUG, pipe | 1 |
| 84 | 296971 | SPRING | 1 |
| 85 | 108103 | PACKING, ring | 1 |
| 86 | 168518 | PACKING, ring | 1 |
| 87 | 295665 | FITTING, nipple, pipe | 1 |
| 88 | 295671 | SCREW, mounting, trigger | 1 |
| 89 | 296538 | RING, retaining | 1 |
| 90 | 297689 | HANDLE, gun | 1 |
| 91 | 16T691 | CYLINDER, air | 1 |
| 92 | 295686 | LINER, valve | 1 |
| 93 | 295687 | SPOOL, valve | 1 |
| 94 | 295688 | NUT, retainer, valve | 1 |
| 95 | 295689 | SEAT, spring | 1 |
| 96 | 295436 | SPRING | 1 |
| 97 | 297691 | PISTON, assembly | 1 |
| 98 | 296529 | CAP, end | 1 |
| 99 | 297693 | NEEDLE, adjust, air | 1 |
| 100 | 296530 | KNOB, gap | 1 |
| 101 | 296526 | PIN, stop | 1 |
| 102 | 295416 | SPRING, piston | 1 |
| 103 | 297694 | BRACKET, assembly | 1 |
| 104 | 114054 | PACKING, ring | 1 |
| 105 | C20004 | SCREW, cap | 2 |
| 106 | 295685 | RING | 4 |

## GX-8 Gun Kit (297832)




| Ref. | Part | Description | Qty. |
|---|---|---|---|
| 201 | 297898 | GUN | 1 |
| 202 | 295383 | BLOCK, coupling | 1 |
| 203★ | 296980 | KIT, service; includes 203a-203k | 1 |
| 203a | | SPRAYER, solvent, flush | 1 |
| 203b | | VALVE, service, air | 1 |
| 203c | | SCREW, mounting, block, coupling | 1 |
| 203d | | VALVE, manual | 2 |
| 203e | | NIPPLE, JIC | 1 |
| 203f | | SCREW, block, coupling | 1 |
| 203g | | BLOCK, service | 1 |
| 203h | | FITTING; 3/8 in. x 7/16 in. | 1 |
| 203k | | HOSE; 3/16 ID x 3 ft | 1 |
| 204★ | 297911 | KIT, starter; includes 204a-204g | 1 |
| 204a | | PIN, vise | 1 |
| 204b | | MODULE, fan, 013 | 1 |
| 204c | | TIP, round, 020 | 1 |
| 204d | | MODULE, round, 020 | 1 |
| 204e | | TIP, round, 024 | 1 |
| 204f | | TIP, fan, 201 | 1 |
| 204g | | TIP, fan, 202 | 1 |

★ *Not shown.*

# GX-8P Spray Gun Final Assembly (297860)

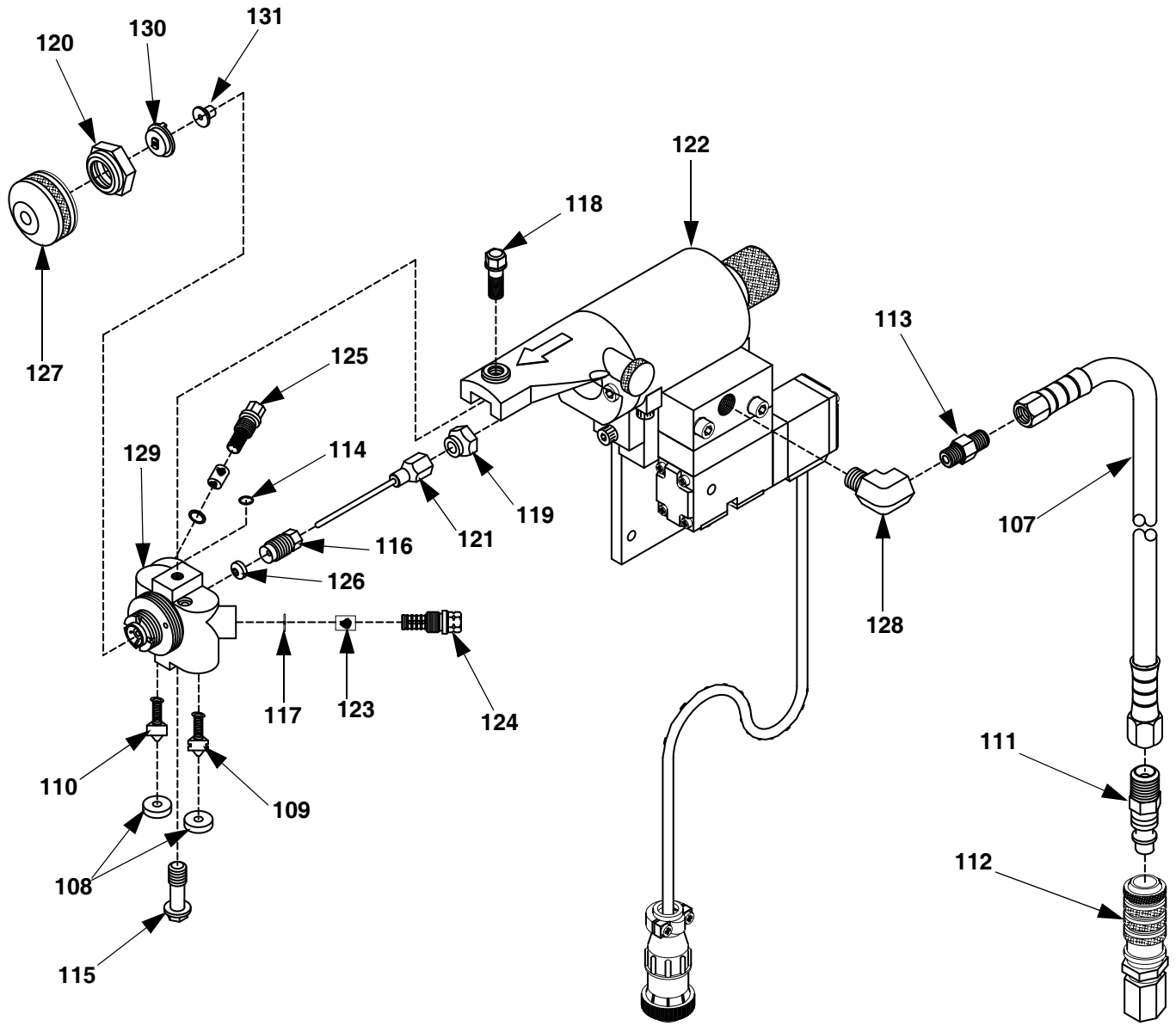



**FIG. 21: GX-8P Spray Gun Final Assembly**

## GX-8P Spray Gun Final Assembly (297860)

| Ref. | Part | Description | Qty. |
|---|---|---|---|
| 107 | 15B772 | HOSE, air, 1/4 X 23 in. (F X F) | 1 |
| 108 | 296128 | GASKET, block, gasket | 2 |
| 109 | 295623 | VALVE, check, A | 1 |
| 110 | 295624 | VALVE, check, B | 1 |
| 111 | 295596 | PLUG, coupler | 1 |
| 112 | 208536 | COUPLER, line, air | 1 |
| 113 | 191872 | FITTING, pipe, hex | 1 |
| 114 | 106560 | PACKING, o-ring | 1 |
| 115 | 295433 | SCREW, mounting, block, coupling | 1 |
| 116 | 297680 | NUT, seal, rear | 1 |
| 117 | 297681 | RETAINER, screen | 2 |
| 118 | 297682 | SCREW, mounting, block, gun | 1 |
| 119 | 297683 | NUT, jam | 1 |
| 120 | 297684 | RETAINER, pod | 1 |
| 121 | 295341 | ROD, valving | 1 |
| 122 | 297861 | CYLINDER, GX-8P, auto | 1 |
| 123 | 297193 | SCREEN, gun block, 100 mesh | 2 |
| 124 | 297686 | SCREW, screen, iso | 1 |
| 125 | 297687 | SCREW, screen, res | 1 |
| 126 | 295437 | PACKING, seal, rear | 1 |
| 127 | 297705 | AIR, cap | 1 |
| 128 | 112307 | ELBOW, street | 1 |
| 129 | 297901 | BLOCK, gun | 1 |
| 130 | 297192 | TIP, fan | 1 |
| 131 | 295338 | MODULE, fan | 1 |

# GX-8P Auto Cylinder Assembly (297861)

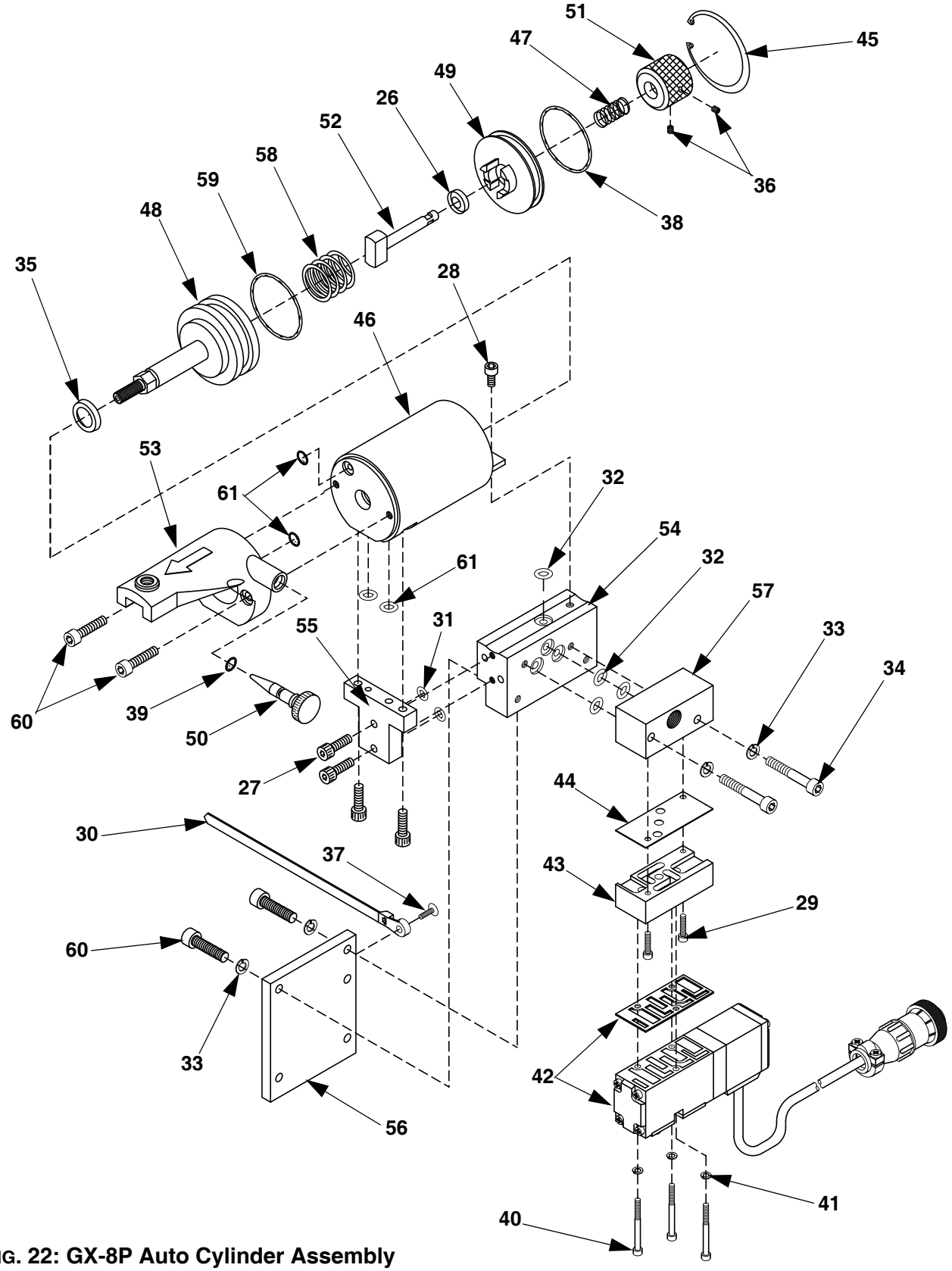
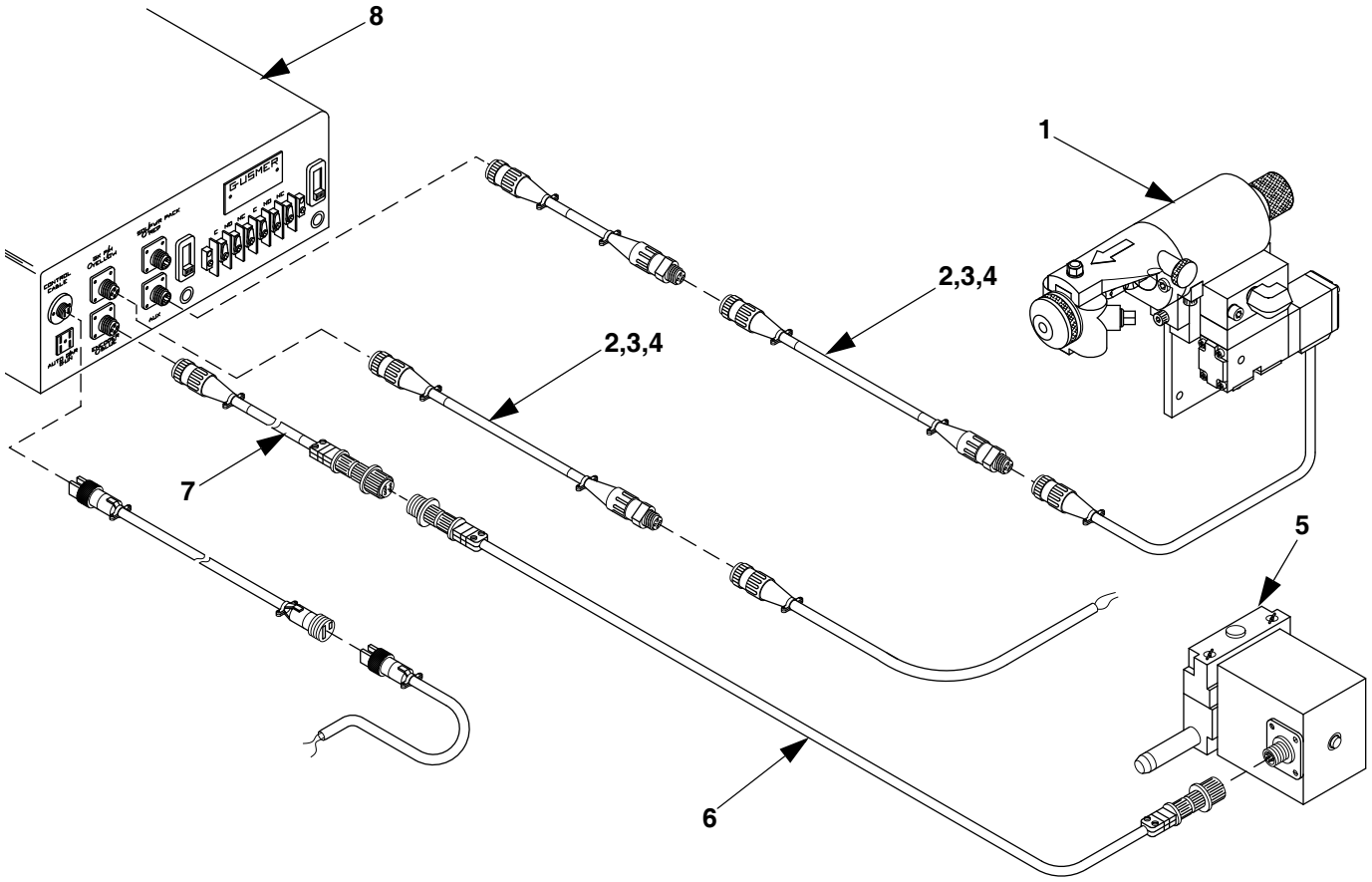



**FIG. 22: GX-8P Auto Cylinder Assembly**

## GX-8P Auto Cylinder (297861)

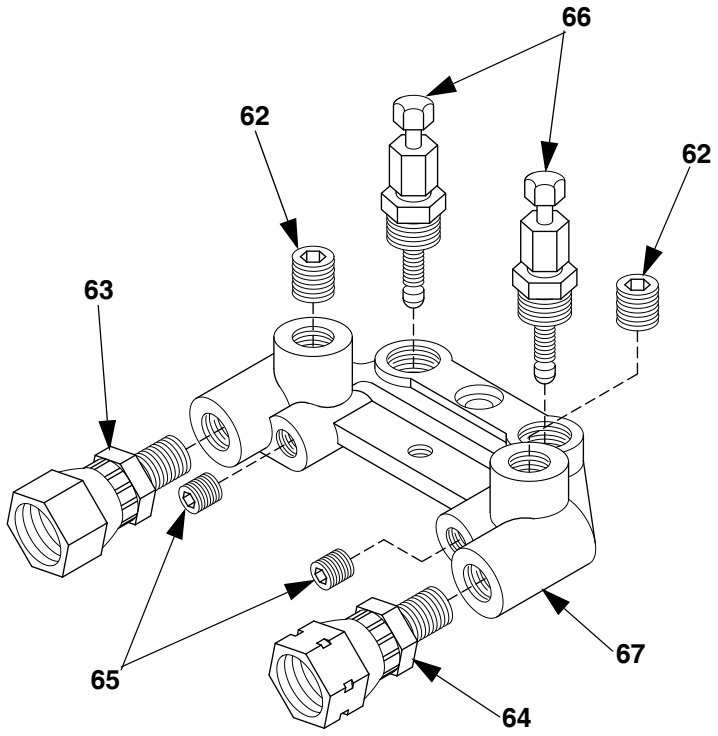
| Ref. | Part | Description | Qty. |
|---|---|---|---|
| 26 | 295435 | SEAL, u-cup | 1 |
| 27 | 295709 | SCREW, cap, socket head | 4 |
| 28 | 295732 | SCREW, cap, sh, 8-32 X 1/4 LG | 1 |
| 29 | 104376 | SCREW, cap, sch | 2 |
| 30 | 297743 | TIE, cable, #6 | 1 |
| 31 | C20988 | PACKING, o-ring | 2 |
| 32 | 103337 | PACKING, o-ring | 4 |
| 33 | 297253 | WASHER, helical, .188 in. diameter | 4 |
| 34 | 104705 | SCREW, cap, sch | 2 |
| 35 | 296627 | SEAL, u-cup | 1 |
| 36 | 116624 | SCREW, set, socket head | 2 |
| 37 | 297862 | SCREW, cap, flat head | 1 |
| 38 | 108103 | PACKING, o-ring | 1 |
| 39 | 168518 | PACKING, o-ring | 1 |
| 40 | 297863 | SCREW, cap, socket head | 3 |
| 41 | 297975 | WASHER, lock | 3 |
| 42 | 297881 | VALVE, control | 1 |
| 43 | 297882 | MANIFOLD, air valve | 1 |
| 44 | 297883 | GASKET | 1 |
| 45 | 296538 | RING, retaining | 1 |
| 46 | 297690 | CYLINDER, air | 1 |
| 47 | 295436 | SPRING | 1 |
| 48 | 297691 | PISTON, assembly | 1 |
| 49 | 296529 | CAP, end | 1 |
| 50 | 297884 | NEEDLE, air adjust | 1 |
| 51 | 296530 | KNOB, gap | 1 |
| 52 | 296526 | PIN, stop | 1 |
| 53 | 297885 | BRACKET | 1 |
| 54 | 297886 | BLOCK, valve mount | 1 |
| 55 | 297887 | BLOCK, cylinder mount | 1 |
| 56 | 297888 | PLATE, mounting, gun | 1 |
| 57 | 297889 | PLATE, cover, manifold | 1 |
| 58 | 295416 | SPRING, piston | 1 |
| 59 | 114054 | PACKING, o-ring | 1 |
| 60 | C20004 | SCREW, cap | 4 |
| 61 | 295685 | O-RING | 4 |

# Auto GX-8P Optional Parts



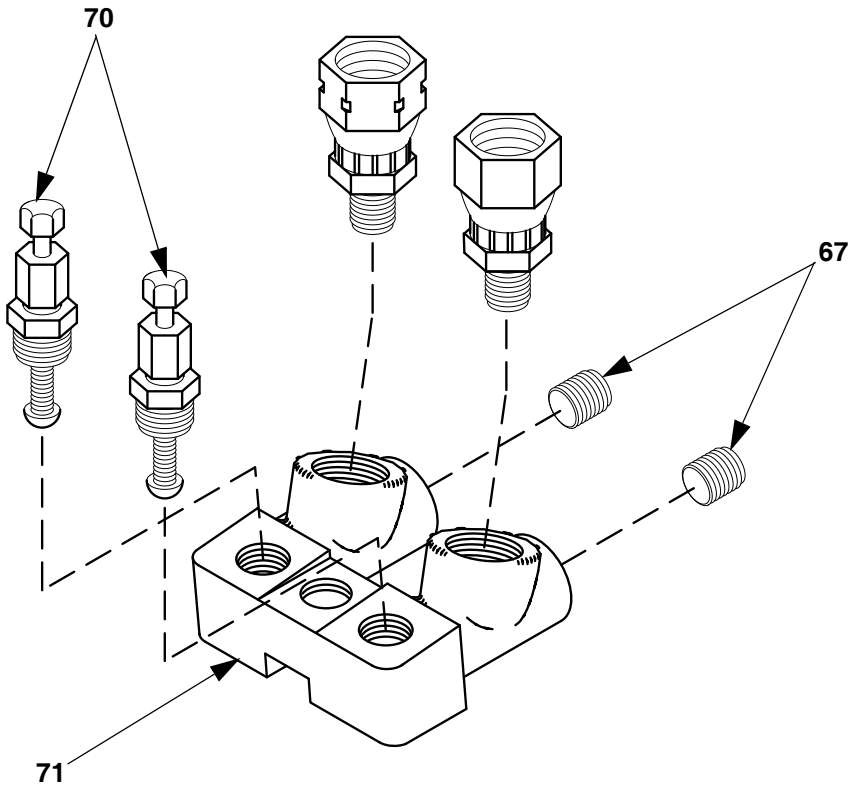

| Ref. | Part | Description | Qty. |
|---|---|---|---|
| 1 | 297899 | KIT, auto, GX-8 Gun | 1 |
| 2 | 298752 | WIRE, 10 ft, extension harness | 1 |
| 3 | 298753 | WIRE, 25 ft, extension harness | 1 |
| 4 | 298754 | WIRE, 50 ft, extension harness | 1 |
| 5 | 298611 | ENCODER, assembly | 1 |
| 6 | 299083 | CABLE, VMU, extension 25 ft | 1 |
| 7 | 297730 | CABLE, encoder, assembly | 1 |
| 8 | 297741 | CONTROL BOX, TX50 processor | 1 |

# Coupling Block Assembly (295383)



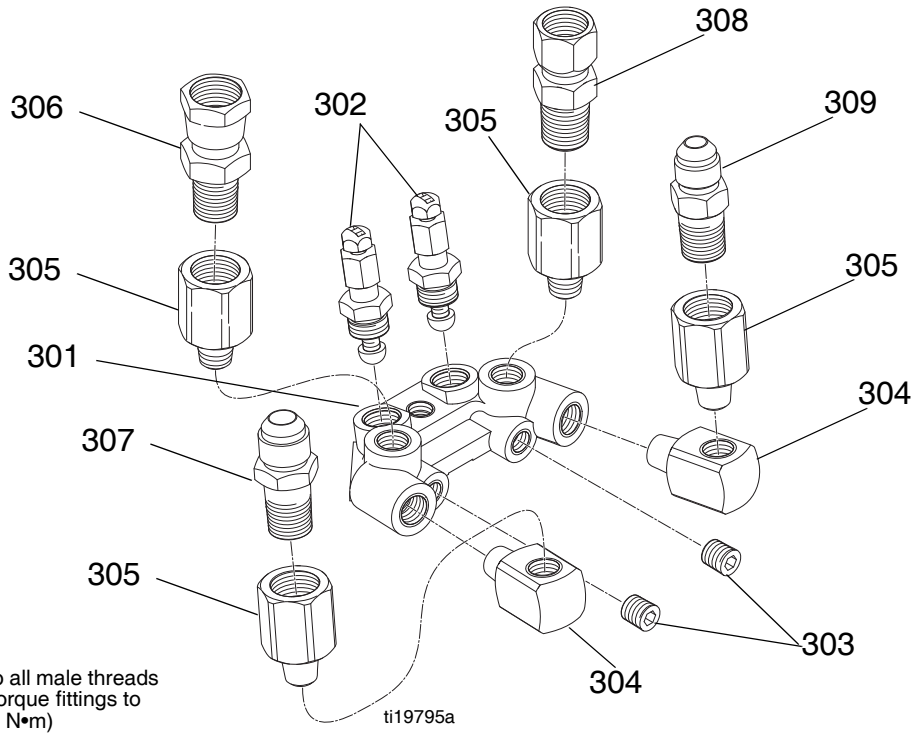

| Ref. | Part | Description | Qty. |
|---|---|---|---|
| 62 | 295662 | Pipe plug, flush seal, 1/8 in. | 2 |
| 63 | 117634 | B-swivel fitting | 1 |
| 64 | 117635 | A-swivel fitting | 1 |
| 65 | 295693 | Pipe plug, flush seal, 1/16 in. | 2 |
| 66 | 296970 | Manual valve assembly | 2 |
| 67 | 296215 | Coupling block | 1 |

# Coupling Block (297902)




| Ref. | Part | Description | Qty. |
|---|---|---|---|
| 67 | 295662 | PLUG, pipe | 2 |
| 70 | 296626 | VALVE, assembly, manual | 2 |
| 71 | 260810 | Block, coupling | 1 |

# Coupling Block Assembly (24N996)




Apply pipe sealant to all male threads prior to assembly. Torque fittings to 120-130 in-lb (14-15 N•m)

| Ref. | Part | Description | Qty. |
|---|---|---|---|
| 301 | 296215 | BLOCK, coupling, ss | 1 |
| 302 | 296970 | VALVE, manual | 2 |
| 303 | 104071 | PLUG, pipe | 2 |
| 304 | 112307 | FITTING, street elbow | 2 |
| 305 | C20895 | FITTING, bushing, 1/4 x 1/8 | 4 |
| 306 | 117506 | FITTING, swivel, 1/4 npt x #6 jic | 1 |
| 307 | 122722 | ADAPTER, jic06x1/4npt, mm, ms, 6k | 1 |
| 308 | 122963 | ADAPTER, swvl, jic05x1/4npt, fm, ms, 6 | 1 |
| 309 | 117455 | FITTING, nipple, 1/4 npt x #5 jic | 1 |

# Set-up Chart for GX-8P Modules

| Pressure (psi) | Output (lbs/min) | Pattern ✖Dia. (inches) | Module Part No. | Resin Port Size | No. Orifices | Iso Port Size | No. Orifices | Tip |
|---|---|---|---|---|---|---|---|---|
| **Round Spray Pattern** | | | | | | | | |
| 2500 | 1.0 | 4.0 | 295377 | .013 | 1 | .013 | 1 | 295339 (020) |
| 2500 | 1.4 | 5.0 | 295377 | .013 | 1 | .013 | 1 | 295428 (024) |
| **Fan Spray Pattern** | | | | | | | | |
| 2500 | 1.0 | 6 | 295338 | .013 | 1 | .013 | 1 | 297192 (201) |
| 2500 | 1.4 | 7 | 295338 | .013 | 1 | .013 | 1 | 297841 (202) |

✖ At 18-24 in. above substrate

# GX-8P Model Specifications

| Module/Tip Data for Chemical Sprayed at 2500 PSI | | | | |
|---|---|---|---|---|
| **✖Module Kit** | **Cleanout Drill** | **Tip** | **❄Pattern** | **❄Output (lbs/min)** |
| **Fan Spray Pattern** | | | | |
| 295338 (.098 diameter) | 297914 (.013 diameter) | 297192 (201) | 6 in. wide | 1.0 |
| | | 297841 (202) | 7 in. wide | 1.4 |
| **Round Spray Pattern** | | | | |
| 295377 (.098 diameter) | 297914 (.018 diameter) | 295339 (020) | 4 in. diameter | 1.0 |
| | | 295428 (024) | 5 in. diameter | 1.4 |

❄ *Actual results may vary due to chemical system characteristics, temperature, pressure, and ratio.*

✖ *Includes appropriate cleanout drills.*

# Tool Kits

297966 GX-8P Tool Kit

# Technical Data

| Category | Data |
|---|---|
| Air Supply | 100-125 psi (7-9 bars) |
| Maximum Operating Pressure | 3500 psi (24 MPa, 240 bar) |
| Maximum Output ❄ | 0.4 gallons/min. (1.52 liters/min.) |
| Minimum Output ❄ | 0.1 gallons/min. (0.38 liters/min.) |
| Maximum sound pressure*† | 78.7 db(A) 100 psi (0.7 MPa, 7 bar) |
| Maximum sound power**† | 85.7 db(A) 100 psi (0.7 MPa, 7 bar) |
| Height | 7 in. (17.8 cm) |
| Length | 7.5 in. (19 cm) |
| Width | 2.5 in. (6.25 cm) |
| Weight | 3.5 lbs. (1.59 kg) |
| Mixing | Internal impingement, airless atomization, solvent-free, mechanically self cleaning |
| Wetted Parts | Stainless Steel, Carbon Steel, HDPE, Acetal |

*❄ Theoretical: actual results will vary with operating conditions.*

*† Measured at typical operating conditions (clean-off valve on gun is a half turn open).*

** Sound pressure measured 3 feet (1 meter) from equipment.*

*** Sound power measured per ISO-9416-2.*

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