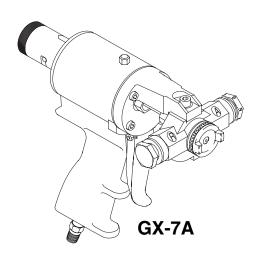


# GX-7A, GX-7 DI, and GX-7 400 Spray Guns 311321 rev.C

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

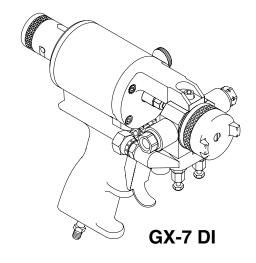
See page 3 for model information.

3500 psi (24 MPa, 240 bar) Maximum Working Pressure











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# **Models**

|          |                 | Includes:    |              |
|----------|-----------------|--------------|--------------|
| Part No. | Description     | Mix Module   | Tip          |
| 295540   | GX-7 400        | 296859 (451) | 296853 (212) |
| 295541   | GX-7 DI - 4/213 | 296901 (4)   | 296706 (213) |
| 295542   | GX-7A - 1/90    | 296909 (1)   | 296712 (90)  |
| 295543   | GX-7A - 10/210  | 296906 (10)  | 296704 (210) |
| 295544   | GX-7A - 3/70    | 296226 (3)   | 296710 (70)  |
| 295545   | GX-7A - 5/70    | 296923 (5)   | 296710 (70)  |

## **Warnings**

The following general warnings are for the setup, use, grounding, maintenance, and repair of this equipment. Additional, more specific warnings may be found throughout the body of this manual where applicable. Symbols appearing in the body of the manual refer to these general warnings. When these symbols appear throughout the manual, refer back to these pages for a description of the specific hazard.

### **MARNING**



#### PERSONAL PROTECTIVE EQUIPMENT

You must wear appropriate protective equipment when operating, servicing, or when in the operating area of the equipment to help protect you from serious injury, including eye injury, inhalation of toxic fumes, burns, and hearing loss. This equipment includes but is not limited to:

- Protective eyewear
- · Clothing and respirator as recommended by the fluid and solvent manufacturer
- Gloves
- 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 MSDS's to know the specific hazards of the fluids you are using.
- Store hazardous fluid in approved containers, and dispose of it according to applicable quidelines.



#### 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.
- Do not spray without tip guard and trigger guard installed.
- Engage trigger lock when not spraying.
- Follow **Pressure Relief Procedure** in this manual, when you stop spraying and before cleaning, checking, or servicing equipment.

### **MARNING**



#### 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 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 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.

## **MARNING**



#### 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.

## **Overall View**

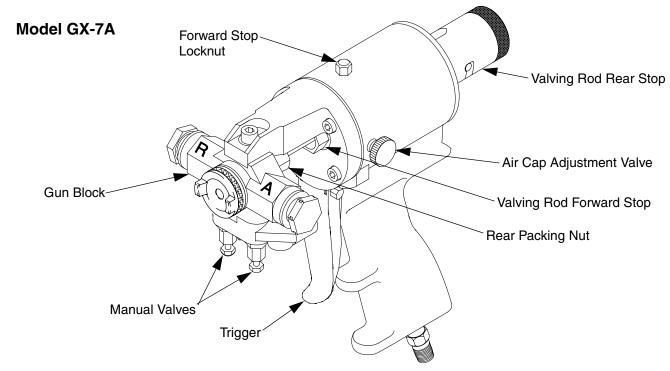


Fig. 1: GX-7A Overall View

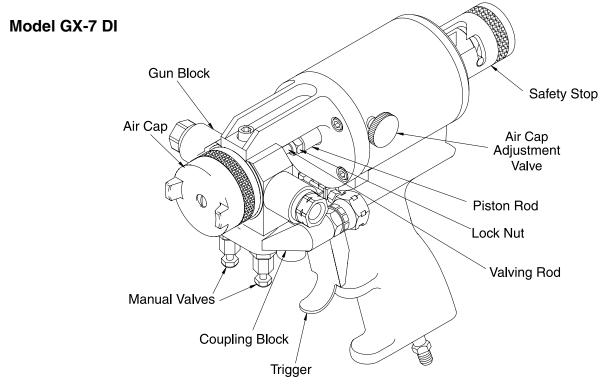


FIG. 2: GX-7 DI Overall View

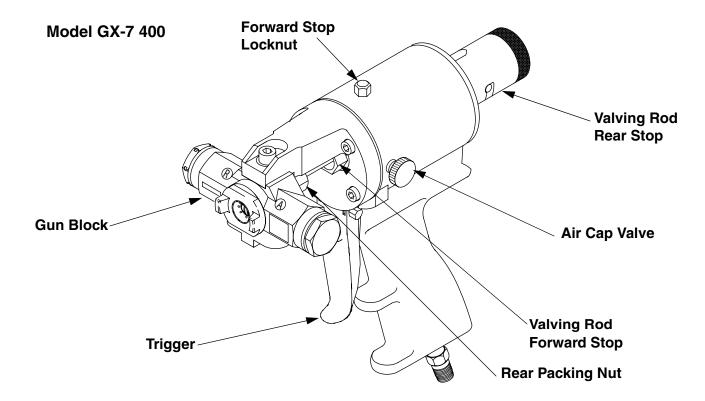


Fig. 3: GX-7 400 Overall View

## **Centerline Components**

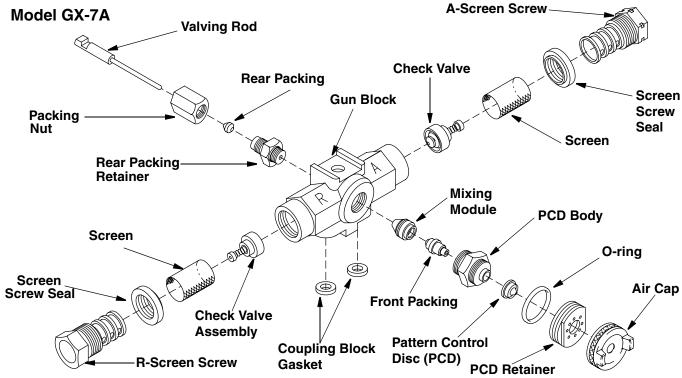
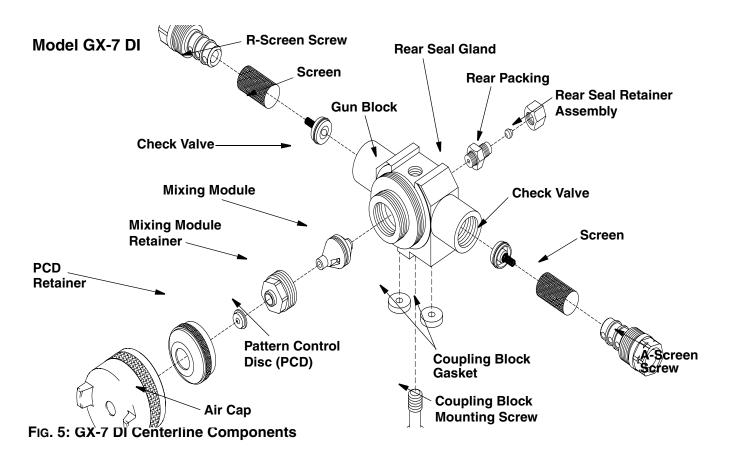
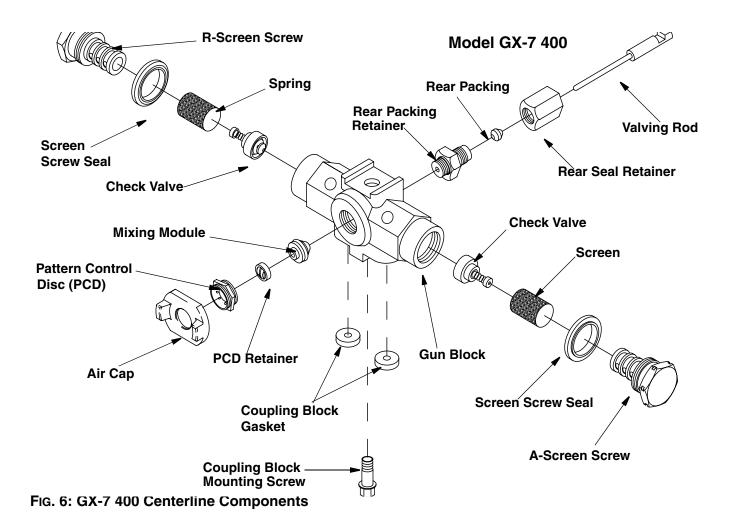


Fig. 4: GX-7A Centerline Components





## **Mixing Module**

All gun models employ the concept of impingement mixing through the use of a single-part MIXING MODULE. This system is cleaned by a mechanical self-cleaning process, eliminating the need for solvent or air purging between dispenses.

The gun can be assembled with two styles of mixing components; their selection is dependent upon the type of system sprayed. Several of the more common sets of these configurations are listed in **Notes**, page 45.

The Mixing Module, in combination with a Pattern Control Disc (PCD), produce a thoroughly mixed chemical and reliable spray patterns. The module can be set up to spray at its maximum rated output. Additionally, by changing to a smaller PCD the module can spray at the low outputs and pressures that are required for detail work.

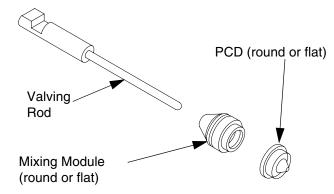


Fig. 7: GX-7A Mixing Module

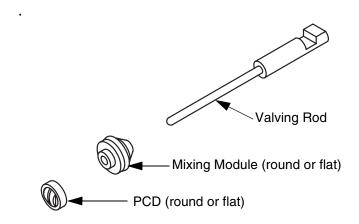


Fig. 8: GX-7 400 Mixing Module

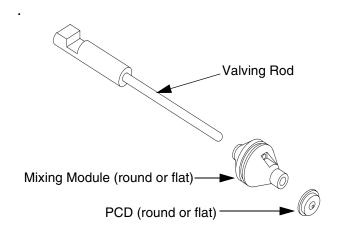


Fig. 9: GX-7 DI Mixing Module

## **Operation Basics**









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

## **Isocyanate Hazard**







Read Material Safety Data Sheet (MSDS) to know the specific hazards of isocyanates. Use equipment in a well-ventilated area. Wear respirator, gloves, and protective clothing when using isocyanates.

# **Keep A and B Components Separate**

#### CAUTION

To prevent cross-contamination of the gun's wetted parts, do not interchange A component (isocyanate) and B component (resin) parts. The gun is shipped with the A side on the left.

# Spraying, so

## **Safety Position**

The guns have a two-position valving rod rear stop. The SERVICE position allows for minimal rearward travel of valving rod but will not allow chemical to discharge. The OPEN position allows full rearward travel of valving rod and permits gun to dispense. Whenever gun is not spraying, set to SERVICE position.

#### **Engage Safety Stop**

To engage safety stop, push in and turn safety stop clockwise to place gun in CLOSED (SER-VICE) position.

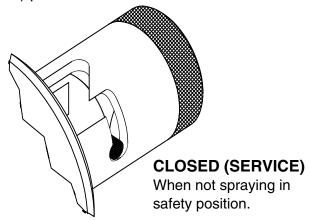


Fig. 10: Safety Stop - Closed

### Grounding







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

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

#### **Disengage Safety Stop**

To disengage safety stop, push in and turn safety stop counterclockwise to place gun in OPEN position (red band is exposed).

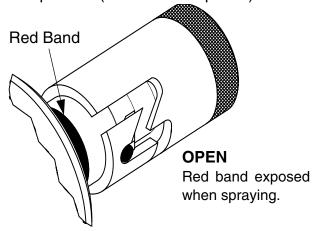


Fig. 11: Safety Stop - Open

#### **Close Manual Valves**

Closing manual valves prevents chemicals in heated hoses from entering gun. For your own safety, close manuals valves before servicing gun.

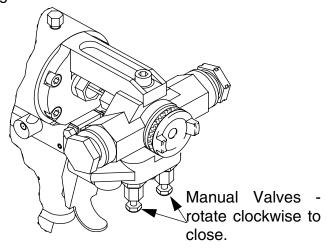


Fig. 12: Close Manual Valves

#### **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.

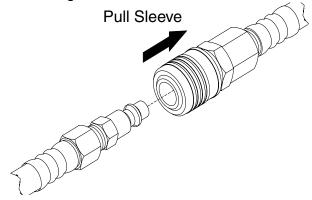


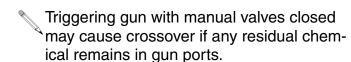
Fig. 13: Disconnect Air Hose

## **Coupling Block**

Chemical hoses are joined to gun block by 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.

#### **Open Manual Valves**

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

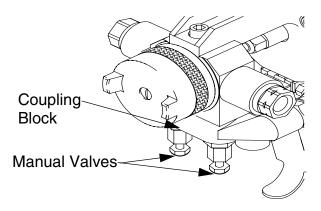


Fig. 14: Open Manual Valves

#### **Close Manual Valves**

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

#### **CAUTION**

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

#### **Installation and Removal**





coupling block.







To prevent release of pressurized chemicals, close both manual valves before removing

#### **Install Coupling Block**

- 1. Replace nicked, damaged, or worn coupling block gaskets.
- 2. With gaskets in place, fit coupling block to gun block.

Insert coupling block mounting screw and use 5/16 in. nut driver to tighten to gun block.

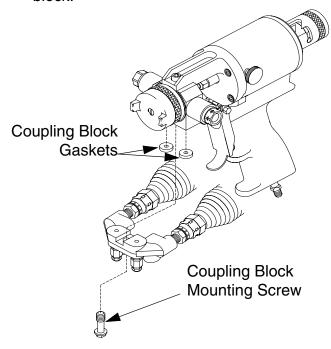


Fig. 15: Install Coupling Block

#### **Remove Coupling Block**

- 1. Set safety stop to CLOSED (SERVICE).
- 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 chemical.
- 7. Cover exposed openings with grease.

#### **Optional Configuration**

Refer to page 44. If bottom-mount hose connection is desired, alternate swivel fitting (2 and 3) with pipe plugs (1). Use pipe thread sealant. Do not cross-over which side each fitting is on.

## **Air Inlet Configuration**

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

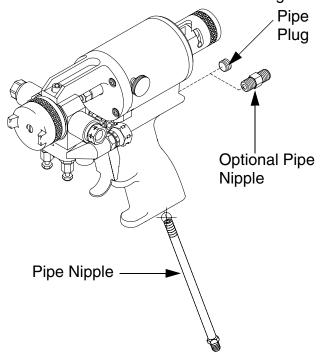


Fig. 16: Air Inlet Configuration

To change to alternate configuration,

- 1. Remove pipe nipple.
- 2. Remove pipe plug from rear of gun.
- Install pipe plug in location previously occupied by pipe nipple.
- 4. Install pipe nipple in location previously occupied by pipe plug.

# Mixing Module and PCD Installation

- 1. 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 hole in gun block and push in firmly (GX-7 DI model only).
  - f. Install front packing into module retainer (GX-7 model only).
  - g. Install module retainer, hand tight. Release trigger.
  - h. Use wrench to strongly tighten module retainer (250 in.-lbs.).
     GX-7 DI model only: use wrench to tighten module retainer (150 in.-lbs.).
     DO NOT OVERTIGHTEN.

#### 2. Install PCD:

- a. Disconnect air supply from gun.
- b. Loosen forward stop screw (GX-7 model only).
- Turn forward stop nut clockwise (as viewed from front of gun) 1-2 turns (GX-7 model only).

- d. Slightly loosen rear seal retainer assembly.
- e. Remove safety stop.
- f. Use wrench to loosen piston locknut.
   Turn valving rod rearward as far as it will turn.
- g. Place and orient PCD over mixing module retainer.
- h. Install PCD retainer and hand tighten (GX-7 DI model only).
- i. Install PCD retainer and wrench tighten (GX-7 model only).
- Adjust valving rod. See procedure for appropriate gun model.
- 4. Set safety stop to OPEN position.
- 5. Check adjustment of valving rod:
  - With air supply connected, hold down gun trigger and loosen PCD retainer.
     Release trigger.
  - b. Hand tighten PCD retainer.
  - While maintaining tightening torque, trigger gun. Retainer should rotate approximately 1/10 of turn.
  - d. Release trigger.

## **Valving Rod Adjustment**

#### GX-7A and GX-7 400 Models Only

- 1. Push in rear stop to SERVICE position.
- 2. If attached, turn both manual valves fully clockwise to close (see **Manual Valves**, page 14).
- Connect air line from gun to air source to pressurize air cylinder forward to CLOSED position.
- 4. Loosen forward stop locknut.

- 5. Completely loosen (full CCW) forward stop. Then slowly tighten (CW) forward stop until a snug resistance is felt. From this point, reverse and loosen approximately 1/16 of a turn.
- 6. Tighten forward stop locknut. Do not overtighten. If locknut bottoms out before resistance is felt, replace friction plug.
- As a reference point, movement of one wrench flat corresponds to 1/6 turn.

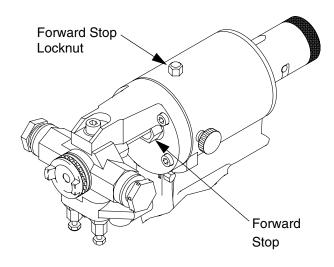


Fig. 17: Forward Stop



Fig. 18: One Wrench Flat

## **Valving Rod Adjustment**

#### **GX-7 DI Model Only**

Valving rod requires adjustment in only the following instances:

- disassembly and service of air cylinder
- changing valving rod
- changing mixing module
- 1. Clean gun according to Clean Spray Gun Procedure, page 22.
- 2. Connect air supply to gun.

- 3. Loosen rear seal retainer assembly one or two turns.
- 4. Loosen locknut from valving rod three or four turns.
- 5. Set safety stop to OPEN.
- 6. Use 5/16 in. nut driver through rear of gun to thread valving rod forward to engage PCD. When valving rod contacts PCD tighten another 1/10 turn.
- 7. Carefully maintain position of valving rod and tighten locknut against piston rod.
- 8. Retighten rear seal retainer assembly.

### **Initial Set Up**



- Install female quick disconnect fitting to air supply hose bundled with chemical supply hoses.
- Connect coupling block to hose bundle.
   Connect A-Isocyanate hose (red-tape) to notched fitting on coupling block. Connect R-Resin hose (blue-tape) to fitting without notches on coupling block.
- 3. Close both manual valves.
- 4. Pressurize A and R chemical hoses. Check for leaks. See Proportioner manual.
- 5. Bleed air from chemical hoses.

- Use separate waste containers for A-ISO and R-Resin.
- b. Hold coupling block with exit ports pointed into waste container.
- c. Open one manual valve at a time to dispense into waste container.
- d. Bleed each side until chemical leaving hoses is free of air.
- e. Close both manual valves.
- 6. Use cloth soaked in gun cleaner to clean coupling block and mating surfaces.
- Set safety stop to CLOSED (SERVICE).
- 8. Install coupling block to gun.
- Proceed with daily start-up and shutdown procedures.

## **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 counterclockwise to open valve and clockwise to close valve
- 3. Adjust rear seal retainer.
- 4. Open both manual valves. See **Coupling Block** section, page 14.
- 5. Set safety stop to OPEN.
- 6. Test spray on disposable surface.

### **Daily Shutdown**













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 22.

- 1. Set safety stop to OPEN.
- 2. Close both manual valves.
- 3. Disconnect air supply from gun.
- 4. Shutdown proportioning unit as required. See Proportioner manual.
- 5. Clean as required. See Clean Spray Gun Procedure, page 22.

Do not disassemble gun daily for cleaning if it is 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.

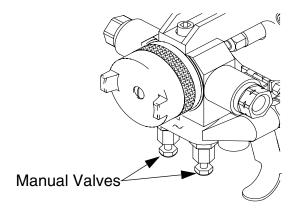


Fig. 19: Close Manual Valves

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

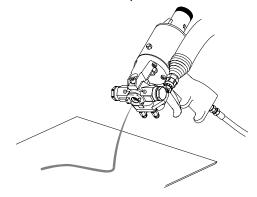


Fig. 20: Trigger Gun

4. Release gun trigger, set safety stop to CLOSED, 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. Under high pressure, fluid will spray sideways from fluid ports. See Fig. 21.



Fig. 21: Open Manual Valves

## **Maintenance**

#### **Gun Service Kits**

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

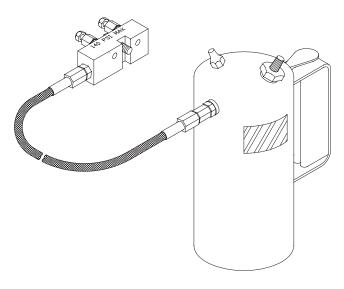


Fig. 22: 1-Quart Gun Service Kit For more information about the 1-Quart Gun Service Kit, see Manual 311340.

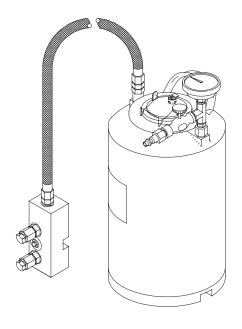


Fig. 23: 3-Gallon Gun Service Kit For more information about the 3-Gallon Gun Service Kit, see Manual 311341.

## **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 procedures makes use of the 1-Quart or 3-Gallon Gun Service Kit.

1. Set safety stop to CLOSED (SERVICE).

- 2. Close both manual valves.
- 3. Remove gun from coupling block.
- Attach service block of gun service kit to spray gun, and then tighten using 5/16 in. nut driver.
- Pressurize Service Kit container up to 100 psi. DO NOT EXCEED 100 psi (0.7 MPa, 7 bar).
- 6. Open one manual valve on service block.
- 7. Connect air to gun. Set safety stop to OPEN.
- 8. Hold gun against grounded waste container.
- Trigger gun and 1-Quart Gun Service Kit. Spray into waste container until there is a fine, unobstructed mist of gun cleaner.
- 10. Release both triggers and close manual valve on service block.
- 11. Repeat steps 5-7 for other side of gun.
- 12. After initial cleaning, remove air cap, PCD retainer, and PCD. Flush a second time to ensure thorough cleaning.
- 13. Remove service block of gun service kit from spray gun.
- 14. Set safety to CLOSED (SERVICE).
- 15. Disconnect air supply.

- 16. Clean screens, check valves and screen screw as required. See **Service Screen Screw**, page 24.
- 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. Set safety stop to CLOSED (SERVICE).
- Close both manual valves.
- Loosen R-Screen screw and then remove by hand.
- 4. Use flush can to thoroughly flush screen screw and screen screw cavity.
- Loosen A-Screen screw and then remove by hand.
- 6. Use flush can to thoroughly flush screen screw and screen screw cavity.
- Service gun by following Maintenance procedures, page 22.

## Repair











Shutdown proportioner and allow chemicals to cool before servicing gun.

Clean A and R components in separate containers to avoid cross contamination.

#### Service Screen Screw

- 1. Flush gun according to Clean Spray Gun Procedure, page 22.
- 2. Unthread screen screw from gun block.
- Remove check valve from screen screw.
   Clean valve with gun cleaner and inspect for damage. Replace if necessary.
- 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.

#### **CAUTION**

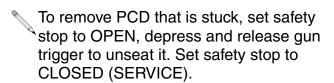
Any material left in cavity on downstream side of screen will clog mixing module.

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

# Remove Centerline Components

Refer to Fig. 4 through Fig. 6 for diagrams of centerline components for all gun models.

- 1. Flush gun according to Clean Spray Gun Procedure, page 22.
- 2. Connect air supply to gun. Set safety stop to OPEN.
- 3. Remove air cap.
- 4. Trigger gun and hold it to relieve pressure on PCD retainer.
- 5. Remove PCD retainer by turning it counterclockwise.
- 6. Remove PCD from mixing module retainer.



- 7. Remove mixing module retainer.
- 8. Set safety stop to OPEN. Depress and release gun trigger to unseat it. Remove mixing module off end of valving rod. Set safety stop to CLOSED (SERVICE).

#### **CAUTION**

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

- 9. Loosen rear packing nut 1-2 turns.
- 10. Push safety stop partially forward, rotate it counterclockwise, and slide off air cylinder.

#### 11. Remove valving rod.

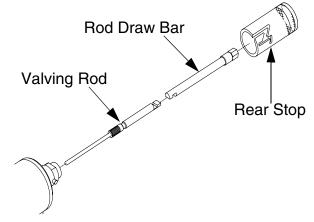


Fig. 24: Remove Valving Rod

- a. Depress trigger lever and hold.
   GX-7 DI model only: loosen piston stop locknut until it disengages from thread on valving rod.
- Use 5/16 in. nut driver to unthread rod draw bar and valving rod from rear of gun.
- c. When threads disengage remove assembly by hand.

- 12. Inspect valving rod for damage and replace as required. Clean and remove any buildup of mixed material from rod using cloth soaked in gun cleaner or fine steel wool.
- If valving rod is replaced, it is recommended to reset forward stop.
- 13. Disconnect air supply.
- 14. Remove gun block retaining screw. Carefully slide gun block away from air cylinder. If dried chemical is built up on gun block, remove dried chemical before you remove gun block.
- 15. Clean all components thoroughly. Use brushes and clean-out tools to remove residual chemical from metal components. Use cotton swabs soaked in gun cleaner to clean plastic components.
- 16. Coat threads and mating surfaces of gun block and gun block bracket with Lubriplate grease, and reassemble.
- 17. Inspect gun block for damage.

# Install Centerline Components

#### **GX-7 DI Model Only**

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

- Install rear packing gland with packing wrench. Tighten onto gun block.
- 2. Install rear packing retainer loosely.
- 3. Install valving rod.
  - a. Connect valving rod to rod draw bar and insert into air cylinder.
  - b. Use 5/16 in. nut driver to thread assembly tight into end cap.
     GX-7 DI model only: thread rod until approximately 3/16 in. to 1/4 in.of thread protrudes from end of piston rod.
- 4. Thread locknut onto valving rod by hand.
- Carefully slide gun block onto valving rod toward air cylinder. Install gun block onto gun block mounting bracket.
- 6. Install safety stop; leave in OPEN position.
- 7. Connect air supply to gun.

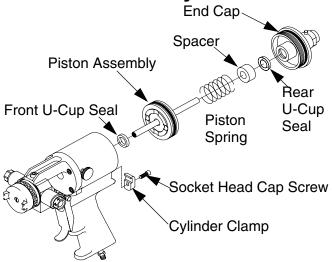
- Depress gun trigger and slide mixing module over end of valving rod.
   GX-7 DI model only: ensure valving rod alignment pin enters alignment slot in gun block.
   Keep gun trigger depressed.
- With gun trigger depressed, thread mixing module retainer or PCD body with packing installed, by hand, and then wrench tighten.

#### **CAUTION**

To avoid damage to module and gun block, do not overtighten mixing module retainer.

- 10. Release gun trigger.
- 11. Install PCD over end of mixing module retainer.
- 12. Thread PCD retainer onto gun block. Hand tight.
- 13. Rotate flat PCD to adjust orientation as required.
- 14. Adjust valving rod. See **Valving Rod Adjustment**, page 17.
- 15. Thread air cap into place; hand tight.
- 16. Slide safety stop onto rear of air cylinder. Push safety stop partially forward and rotate clockwise to set to OPEN.
- 17. Set safety stop to CLOSED (SERVICE).

# Replace End Cap and Air Piston Assembly



**GX-7 DI Shown** 

Fig. 25: GX-7 DI End Cap and Air Piston Assembly

- 1. Clean gun according to Clean Spray Gun Procedure, page 22.
- 2. Loosen rear packing nut 1-2 turns.
- 3. Push safety stop partially forward, rotate counterclockwise, and slide safety stop off air cylinder.
- 4. Remove valving rod. See **Remove Center-line Components**, page 24.
- 5. Disconnect air supply from gun.
- Remove rear head cap screw and cylinder clamp from handle.
- 7. Remove end cap from air cylinder.

- 8. Inspect end cap o-ring. Replace if damaged. Install new end cap o-ring after lightly coating it with Lubriplate grease.
- Inspect rear U-cup seal or o-ring for damage. Replace if necessary. If removed, ensure "cup" faces front of air cylinder when replacing.
- 10. By hand, pull piston assembly out of air cylinder and inspect o-ring for damage.Replace if necessary. Apply Lubriplate grease prior to installation.
- 11. If air was escaping around piston rod during operation, replace front u-cup seal or o-ring. Apply Lubriplate grease and ensure "cup" faces rear of air cylinder.
- 12. Insert piston and rod assembly into air cylinder. Take care to not damage front cup seal as rod passes through.
- 13. Insert piston spring. (For GX-7 DI models, also insert piston spacer.)
- 14. Reinstall end cap into air cylinder.
- 15. Retighten rear socket head cap screw and cylinder clamp to handle.
- 16. Reinstall valving rod. Connect valving rod to draw bar. Lubricate and thread into end cap.
- 17. Adjust valving rod; see **Valving Rod Adjustment**, page 17.
- 18. Slide safety stop onto rear of air cylinder. Push safety stop partially forward and rotate clockwise to set to OPEN.
- 19. Set safety stop to CLOSED (SERVICE).
- 20. Tighten rear packing nut.

# Replace Trigger Valve O-Rings

- 1. Clean gun according to Clean Spray Gun Procedure, page 22.
- 2. Disconnect air supply from gun.

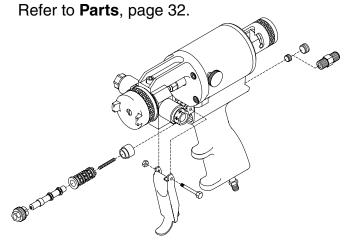


Fig. 26: Replace Trigger Valve O-Ring

- 3. Remove mounting screw and locknut that hold trigger in place. Remove trigger.
- 4. Remove valve retainer nut.
- 5. Pull out valve spool and valve spring. Remove old o-rings.
- Prior to installation, liberally lubricate all o-rings with lubricant provided in Rebuild kit.
- Follow steps 7-15 to replace o-rings on valve liner. If o-rings do not need to be replaced, go to step 16.

- 7. Remove pipe plug from rear of gun handle.
- For guns configured with air inlet at rear of gun handle, pipe nipple replaces pipe plug. Remove pipe nipple.
- 8. Remove rear internal pipe plug (under pipe plug).
- Use pin punch and hammer to gently tap spring seat until it and valve liner push out opposite end of hole.
- 10. Remove 4 o-rings on liner.
- 11. Apply thick coat of Lubriplate grease to new o-rings and install.
- 12. Clean valve hole. Remove any dirt and debris. Apply thick coat of Lubriplate grease to inside of valve hole.
- Slide spring seat into gun handle air valve hole, tapered end first, until it bottoms out.
- 14. Push valve liner in as far as it will go. Temporarily screw in valve retainer nut, which aligns valve liner and valve spool. Remove valve retainer nut.
- 15. With valve spool spring in place, insert valve spool into valve liner. Screw in valve retainer nut. Do not overtighten.
- 16. Apply small amount of pipe thread sealant to 1/16 in. pipe plug threads. Screw pipe plug in place.
- 17. Apply small amount of pipe thread sealant to 1/8 in. pipe plug (or 1/8 in. pipe nipple) and install.
- 18. Reinstall trigger using screw and locknut.

## **Clean Mixing Module**

- 1. Flush gun according to Clean Spray Gun Procedure, page 22.
- 2. Connect air supply to gun. Set safety stop to OPEN.
- 3. Remove air cap by hand.
  - GX-7A and GX-7 400 Models Only
    Air cap and PCD retainer may be difficult to separate during disassembly due to overtightening or hardened mixed material. Use retainer wrench to separate. When reinstalling, apply lubricant to threads.



Fig. 27: Unthread Cap from PCD Body

- 4. Trigger gun and hold it to relieve pressure on PCD retainer.
- 5. Remove PCD retainer by turning it counterclockwise.
- 6. Remove PCD from mixing module retainer.
- To remove PCD that is stuck, set safety stop to OPEN, depress and release gun trigger to unseat it. Set safety stop to CLOSED (SERVICE).

- 7. Remove mixing module retainer.
- Set safety stop to OPEN. Depress and release gun trigger to unseat it. Remove mixing module from end of valving rod. Set safety stop to CLOSED (SERVICE).
- 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.
- If the valving rod is replaced, reset forward stop.
- 10. Clean mixing module.
- Ensure cleanout tool size matches module size used. See **Notes**, page 45.
  - a. Insert cleanout tool into pin vise.
  - Use cleanout tool to clean module ports. Take care not to insert tool too far causing damage to inside bore of module. Use cotton swab soaked in gun cleaner to clean bore of module.

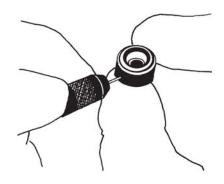


Fig. 28: Clean Module Ports

## **Install Mixing Module**

- 1. Install safety stop; leave in OPEN position.
- 2. Connect air supply to gun.
- 3. Depress gun trigger and slide mixing module over end of valving rod.

  GX-7 DI model only: ensure valving rod alignment pin enters alignment slot in gun block.
  - Keep gun trigger depressed.
- 4. With gun trigger depressed, thread mixing module retainer or PCD body with packing installed, by hand, and then wrench tighten.

#### **CAUTION**

To avoid damage to module and gun block, do not overtighten mixing module retainer.

- 5. Release gun trigger.
- 6. Install PCD over end of mixing module retainer.
- 7. Thread PCD retainer onto gun block. Hand tight.

- 8. Rotate flat PCD to adjust orientation as required.
- Adjust valving rod. See Valving Rod Adjustment, page 17.
- 10. Thread air cap into place; hand tight.
- 11. Slide safety stop onto rear of air cylinder. Push safety stop partially forward and rotate clockwise to set to OPEN.

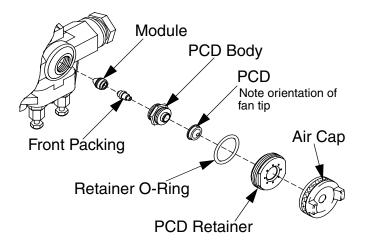
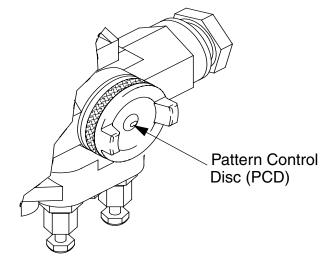


Fig. 29: Install Mixing Module

### **Clean Pattern Control Disc**

- 1. Set safety stop to CLOSED (SERVICE).
- 2. Close both manual valves.
- 3. Turn off air to air cap.
- 4. Use cotton swab soaked in gun cleaner to clean external surface of material build up. Light scrubbing with impinger cleanout brush may also be required.
  - a. Trigger gun to SERVICE position and clean orifice area.
  - It is not always possible to clean all material build-up from PCD while assembled to gun. In this case, remove PCD and clean inside radius of disc.



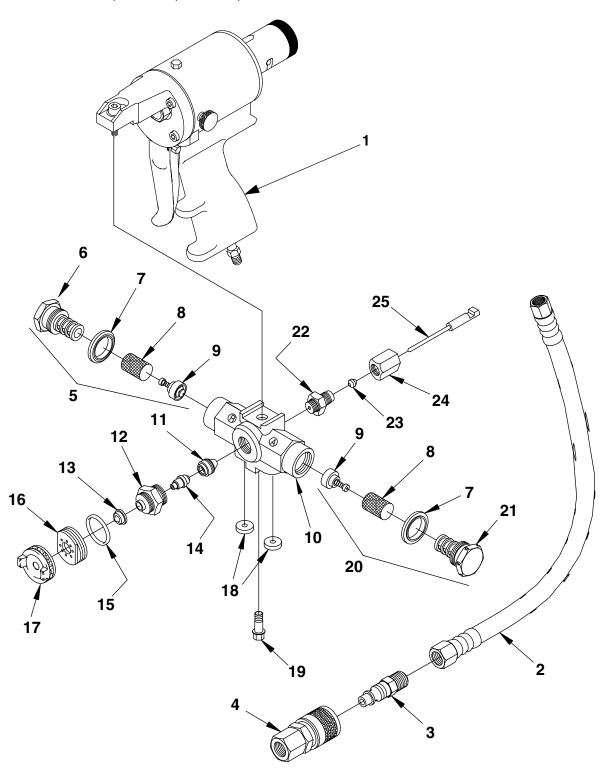
**GX-7A Model Shown** 

Fig. 30: Pattern Control Disc (PCD)

# **Parts**

## **GX-7A Model Final Assembly**

Part Numbers 295542, 295543, 295544, 29545

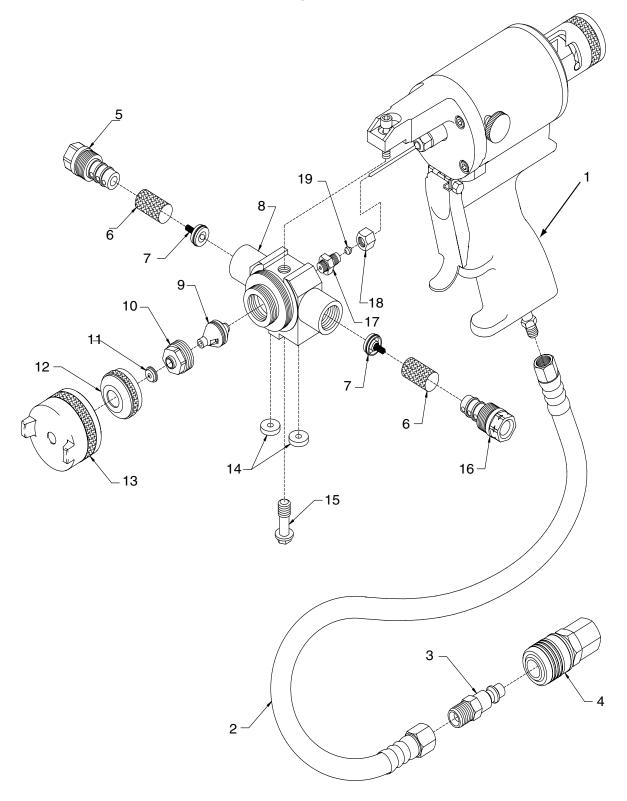


## **GX-7A Model Final Assembly**

Part Numbers 295542, 295543, 295544, 295545

| Ref | 1      |                                    |      | Ref. |            |                                 |      |
|-----|--------|------------------------------------|------|------|------------|---------------------------------|------|
|     |        | Description                        | Otre | No.  | Part No.   | Description                     | Qty. |
| NO. |        | Description                        | Qty. | 15   | 295868     | O-ring                          | 1    |
| 1   | 295810 | Spray gun handle                   | 1    | 16   | 296832     | PCD retainer                    | 1    |
| 2   | 295184 | Air hose                           | 1    | 17   | 296831     | Air cap                         | 1    |
| 3   | 295596 | Coupler plug                       | 1    | 18   | 296128     | Coupling block gasket (pkg 2)   | 1    |
| 4   | 295597 | Coupler                            | 1    | 19   | 296979     | Coupling block mounting         | 1    |
| 5   | 296834 | R-gun block screen screw           | 1    | _    |            | screw (pkg 2)                   |      |
|     |        | assembly (includes 6, 7, 8, 9)     |      | 20   | 296833     | A-gun block screen screw        | 1    |
| 6   |        | R-gun block screen screw           | 1    |      |            | assembly (includes 6, 8, 9, 21) | -    |
| 7   | 296693 | Screen screw seal                  | -    | 21   |            | A-gun block screen screw        | 1    |
|     |        | (pack of 2)                        |      | 22   | 296828     | Rear packing retainer           | 1    |
| 8†  |        | Screen, 80 mesh                    | -    | 23   | 296829     | Rear seal packing               | -    |
|     |        |                                    |      | _0   |            | (pack of 5)                     |      |
| 9   | 296722 | Check valve assembly               | -    | 24   | 296830     | Rear seal retainer              | 1    |
|     |        | (pack of 10)                       |      | 25   | 296692     | Valving rod                     | 1    |
| 10  | 295384 | Gun block                          | 1    | 20   | 200002     | valving rod                     | •    |
| 11  |        | Module; see GX-7A Mix Mod-         | 1    | t S  | creen Kit  | 80 mesh; 296792 (pack of 10) a  | nd   |
|     |        | ule Kit, page 46                   |      | -    | 296724 (pa |                                 | ,,,  |
| 12  | 296976 | PCD body                           | 1    |      | .50724 (pc | ion 01 30).                     |      |
| 13  |        | Tip; see <b>Tip Kits</b> , page 51 | 1    |      |            |                                 |      |
| 14  | 296978 | Front packing                      | 1    |      |            |                                 |      |

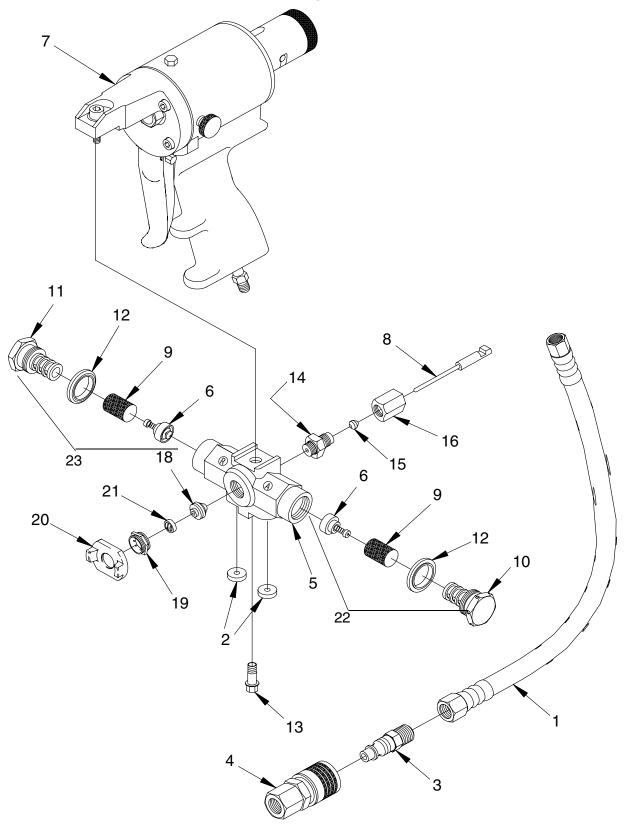
# **GX-7 DI Model Final Assembly (295541)**



## **GX-7 DI Model Final Assembly (295541)**

| Ref<br>No. | Part No. | Description   | Qty. | Ref.<br>No. Part |         | Description                               | Qty. |
|------------|----------|---|------|------------------|---------|---|------|
| 1          | 295809   | Spray gun handle assembly   | 1    | 14 2961          | 128     | Coupling block gasket (pack of 2)         | -    |
| 2          | 295184   | Air hose, 1/4 in. x 23 in. (FXF)                                  | 1    | 15♦              |         | Coupling block mounting screw             | 1    |
| 3          | 295596   | Coupler plug  | 1    | 16 2958          | 334     | A-screen screw                            | 1    |
| 4          | 295597   | Coupler   | 1    | 17 2958          |         | Rear seal gland                           | 1    |
| 5          | 295835   | R-screen screw  | 1    | 18 2968          |         | Rear seal retainer assembly               | 1    |
| 6†<br>7    | 296713   | Screen, 80 mesh<br>Check valve assembly                           | 2    | 19 2968          |         | Rear seal packing (pack of 5)             | -    |
| 8          | 295860   | (pack of 2)<br>Gun block  | 1    | 20 2953          | 383     | Coupling block (not shown)                | 1    |
| 9          | 295837   | Module; see GX-7 DI Model Specifications, page 50 Module retainer | 1    |                  |         | mesh; 296792 (pack of 10) ar<br>c of 50). | าd   |
| 11<br>12   | 296865   | Tip; see <b>Tip Kits</b> , page 51<br>Tip retainer                | 1    | •                | ng Bloc | k Screw Kit 296979 (includes p            | oack |
| 13         | 295838   | Air cap   | 1    | of 2).           |         |   |      |

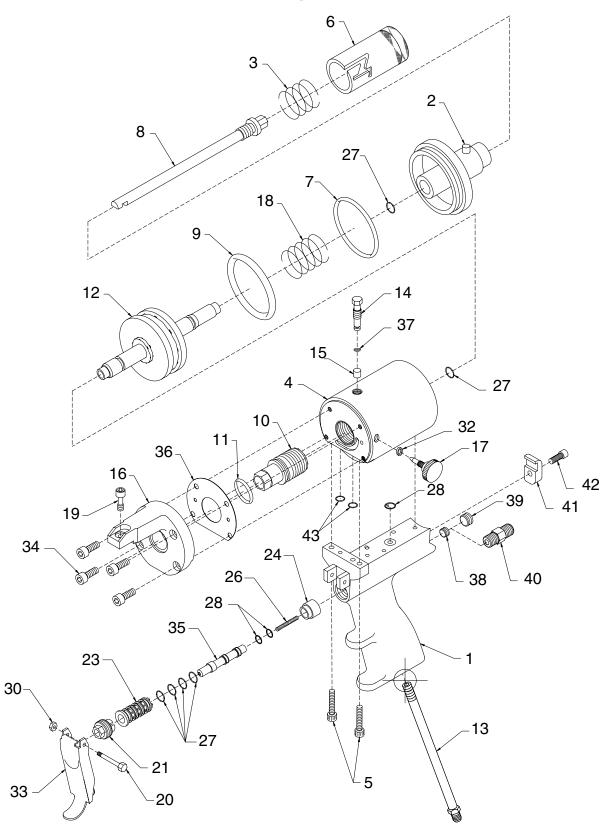
# GX-7 400 Model Final Assembly (295540)



#### GX-7 400 Model Final Assembly (295540)

| Ref      |                  |                                       |        | Ref      |                             |  |      |
|----------|------------------|---------------------------------------|--------|----------|-----------------------------|--|------|
|          | Part No.         | Description                           | Qty.   |          | Part No.                    | -  | Qty. |
| 1        | 295184           | Air hose                              | 1      | 18       |                             | Module; see <b>GX-7 400 Mix Module Kit</b> , page 48 | 1    |
| 2        | 296128           | Coupling block gasket (pack of 2)     | -      | 19       | 296836                      | Retainer   | 1    |
| 3        | 295596           | Coupler plug                          | 1      | 20<br>21 | 296837                      | Air cap<br>Tip; see <b>Tip Kits</b> , page 51        | 1    |
| 4<br>5   | 295597<br>295384 | Coupler Gun block (includes 13)       | 1      | 22       | 296833                      | A-gun block screen screw assembly                    | -    |
| 6        | 296722           | Check valve assembly (pack of 10)     | -      | 23       | 296834                      | (includes 6, 9, 10, 12)<br>R-gun block screen screw  | _    |
| 7<br>8   | 295799<br>296692 | Spray gun handle assembly Valving rod | 1<br>2 | 20       | 230004                      | assembly   |      |
| 9†<br>10 |                  | Screen-80, mesh<br>A-Screen screw     | 2<br>1 |          |                             | (includes 6, 9, 10, 12)                              |      |
| 11<br>12 | 296693           | R-Screen screw<br>Screen screw seal   | 1      | -        | creen Kit, 8<br>296724 (pad | 0 mesh; 296792 (pack of 10) and<br>ck of 50.         | d    |
| 12       | 290093           | (pack of 2)                           | -      |          |                             | ck Screw Kit 296979 (includes p                      | ack  |
| 13◆      | 295433           | Coupling block mounting screw         | 1      |          | of 2).                      |  |      |
| 14       | 296828           | Rear packing retainer                 | 1      |          |                             |  |      |
| 15       | 296829           | Rear seal packing (pack of 5)         | 1      |          |                             |  |      |
| 16       | 296830           | Rear seal retainer                    | 1      |          |                             |  |      |

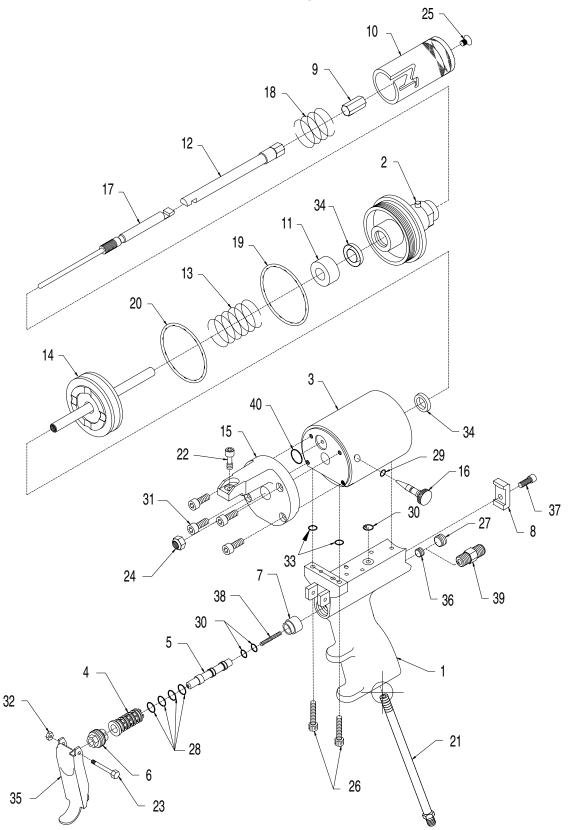
# **GX-7A Model Handle Assembly (295810)**



#### **GX-7 Model Handle Assembly (295810)**

| Ref.            | Part No.                   | Description  | Qty.        | Ref.<br>No. |             | Description   | Qty. |
|-----------------|----------------------------|--|-------------|-------------|-------------|---|------|
| 1               | 296862                     | Spray gun handle   | 1           | 30          | 295438      | Locknut, elastic stop nut, 5-40                     | 1    |
| 2               | 295678                     | Cylinder end cap assembly                                | 1           | 32†         | 295405      | Needle valve packing                                | 1    |
| 3               | 295676                     | Spring   | <br>        | 33          | 295692      | Spray gun trigger                                   | 1    |
| 4<br>5          | 295675<br>295709           | Air cylinder<br>Socket head cap screw,<br>8-32 x 3/4 in. | 2           | 34          | 295684      | Socket head cap screw,<br>10-32 x 1/2               | 4    |
| 6               | 295680                     | Two position stop  | - 1         | 35          | 295687      | Spool valve   | 1    |
| 7†              | 295681                     | O-ring   | 1           | 36†         | 295674      | Gasket  | 1    |
| 8               | 295682                     | Rod draw bar   | 1           | 37†         | 295706      | O-ring, Neoprene                                    | 1    |
| 9†              | 295683                     | O-ring   | 1           | 38          | 295693      | Pipe plug, flush seal, 1/6<br>NPT                   | 1    |
| 10<br>11†       | 295663<br>514279           | Cylinder front stop O-ring                               | 1<br>1      | 39          | 295662      | Pipe plug, flush seal, 1/8                          | 1    |
| 12 <sup>.</sup> | 295664                     | Air piston assembly                                      | 1           |             |             | NPT   |      |
| 13              | 295665                     | Pipe nipple  | 1           | 40          | 103656      | Hex nipple, 1/8 NPT                                 | 1    |
| 14              | 295666                     | Stop clamp screw   | 1           |             |             | (optional)  |      |
| 15†             | 295667                     | Nylon pellet   | 1           | 41          | 295690      | Cylinder clamp                                      | 1    |
| 16              | 295673                     | Gun block mount  | 1           | 42          | C20003      | Socket head cap screw,                              | 1    |
| 17              | 295677                     | Air needle valve   | 1           |             |             | 10-32 x 1/2   |      |
| 18              | 295668                     | Spring   | 1           | 43†         | 295685      | O-ring  | 2    |
| 19              | 295669                     | Socket head cap screw, 1/4-28 x 5/8                      | 1           |             |             |   |      |
| 20<br>21<br>23  | 295671<br>295688<br>295686 | Trigger mounting screw Valve nut Spool valve liner       | 1<br>1<br>2 | •           |             | ed in Handle Seal Rebuild Kit<br>chase separately). |      |
| 24              | 295689                     | Spring seat  | 1           |             |             | ed in Trigger valve rebuild kit                     |      |
|                 | 295442                     | Air valve spring   | 1           | 2           | 96897 (purd | chase separately).                                  |      |
| 27†*            | <b></b> 106555             | O-ring,  | 6           |             |             | ,   |      |
| 28†             | *C20988                    | O-ring, fluoroelastomer                                  | 3           |             |             |   |      |

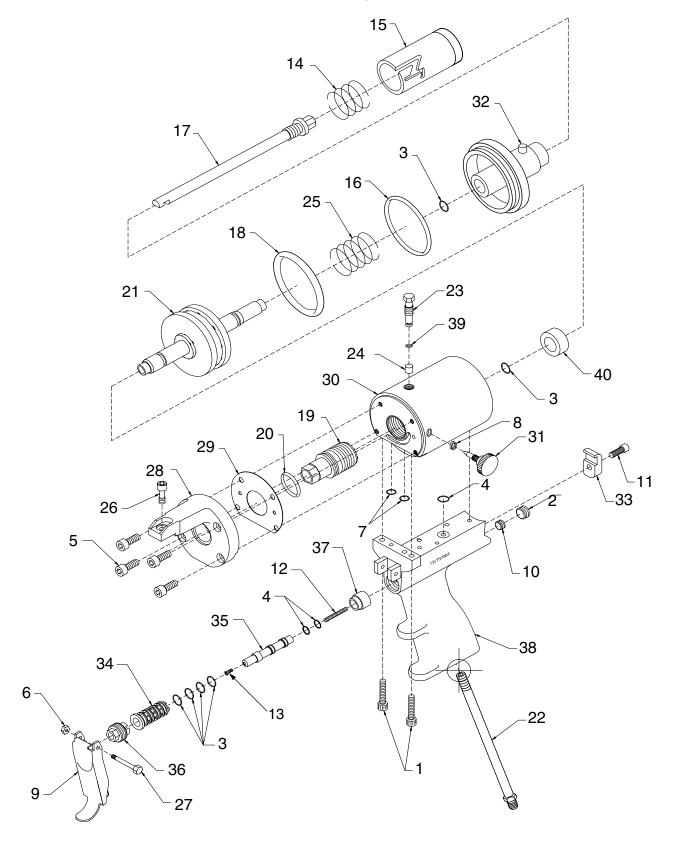
## **GX-7 DI Model Handle Assembly (295809)**



#### **GX-7 DI Model Handle Assembly (295809)**

| Dof         |          |                           |        | Ret.       |                |                                |          |
|-------------|----------|---------------------------|--------|------------|----------------|--------------------------------|----------|
| Ref.<br>No. | Part No. | Description               | Qty.   | No.        | Part No.       | Description                    | Qty.     |
|             |          | •                         | Grey.  | 26         | 295709         | Socket head cap screw,         | 2        |
| 1           | 296862   | Gun handle                | <br>   |            |                | 8-32 x 3/4 in.                 |          |
| 2           | 295714   | Cylinder end cap assembly | 1      | 27         | 295662         | Pipe plug, flush seal, 1/8 in. | 1        |
| 3           | 295715   | Air cylinder              | 1      | 28*        | 106555         | O-ring, fluoroelastomer        | 4        |
| 4           | 295686   | Valve liner               | 1      |            | C20988         | O-ring, fluoroelastomer        | 1        |
| 5           | 295687   | Valve spool               | 1      |            | <b></b> 103337 | O-ring, fluoroelastomer        | 3        |
| 6           | 295688   | Valve retainer nut        | 1      | 31         | 295684         | Socket head cap screw,         | 4        |
| 7           | 295689   | Spring seat               | 1      | _          |                | 10-32 x 5/8 in.                |          |
| 8           | 295690   | Cylinder clamp            | 1      | 32         | 295438         | Stop nut, elastic              | 1        |
| 9           | 295716   | Stop, stroke, long        | 1      | 33†        | 295685         | O-ring                         | 2        |
| 10          | 295717   | Two position stop body    | 1      | 34†        |                | U-cup                          | 2        |
| 11          | 295718   | Stroke spacer             | 1      | 35         | 295692         | Trigger                        | 1        |
| 12          | 295719   | Valving rod holder        | 1      | 36         | 295693         | Pipe plug, flush seal, 1/16    | 1        |
| 13          | 295720   | Piston spring             | 1      |            |                | in.                            | -        |
| 14          | 295712   | Piston assembly           | 1      | 37         | C20003         | Socket head cap screw,         | 1        |
| 15          | 295721   | Gun block mount           | l<br>4 | 0.         | 02000          | 10-32 x 1/2                    | •        |
| 16          | 295713   | Air needle valve          | l<br>4 | 38*        | 295442         | Spring                         | 1        |
| 17          | 296863   | Valving rod, 125 SS       | 1      | 39         | 103656         | Hex nipple (optional), 1/8     | <u> </u> |
| 18          | 295676   | Spring                    | 1      | 00         | 100000         | MPT                            | '        |
| 19†         | 295681   | O-ring                    | 1      | 40†        | 103338         | O-ring, fluoroelastomer        | - 1      |
| 20†         | 295683   | O-ring                    | 1      | 401        | 103336         | O-mg, huoroelastomer           | '        |
| 21          | 295665   | Pipe nipple               | 1      | † P        | Parte includa  | d in Air Cylinder Rebuild Kit  |          |
| 22          | 295669   | Socket head cap screw,    | 1      |            |                |                                |          |
|             |          | 1/4-28 x 5/8              |        | 2          | 96895 (purc    | hase separately).              |          |
| 23          | 295671   | Trigger mounting screw    | 1      | <b>※</b> P | arts include   | d in Trigger Valve Rebuild Kit |          |
| 24          | 295431   | Locknut                   | 1      |            |                | chase separately).             |          |
| 25          | 295722   | Flat head cap screw,      | 1      | _          | ccc. (pare     |                                |          |
|             |          | 10-32 x 1/4 in.           |        |            |                |                                |          |

### GX-7 400 Model Handle Assembly (295799)

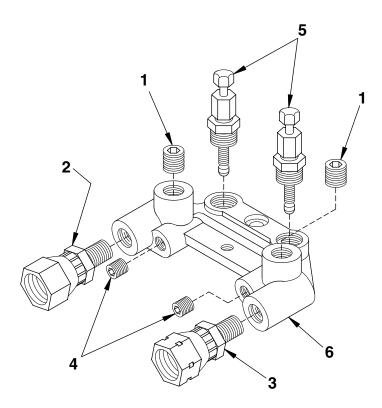


#### GX-7 400 Model Handle Assembly (295799)

| Daf         |          |                         |      | Rei.              |                |                                |      |
|-------------|----------|-------------------------|------|-------------------|----------------|--------------------------------|------|
| Ref.        | Part No. | Description             | Qty. | No.               | Part No.       | Description                    | Qty. |
| 110.        |          | -                       | _    | 25                | 295668         | Spring                         | 1    |
| 1           | 106245   | Cap screw, SCH          | 2    | 26                | 295669         | Socket head cap screw,         | 1    |
| 2           | 295662   | Pipe plug               | 1    |                   |                | modified                       |      |
| 3†*         |          | Packing o-ring          | 6    | 27                | 295671         | Trigger mounting screw         | 1    |
| <b>4†</b> ₩ | 103337   | Packing o-ring          | 3    | 28                | 295673         | Gun block base                 | 1    |
| 5           | 295684   | Socket head cap screw   | 4    | 29†               | 295674         | Gasket                         | 1    |
| 6           | 295438   | Stop nut, elastic, 5-40 | 1    | 30                | 295675         | Air cylinder                   | 1    |
| <b>7</b> †₩ |          | O-ring                  | 2    | 31                | 295677         | Air needle valve               | 1    |
| 8†          | 295405   | Needle valve, packing   | 1    | 32                | 295678         | Cylinder end cap               | 1    |
| 9           | 295692   | Spray gun trigger       | 1    | 33                | 295690         | Cylinder clamp                 | 1    |
| 10          | 295693   | Pipe plug               | 1    | 34                | 295686         | Valve liner                    | 1    |
| 11          | C20003   | Socket head cap screw   | 1    | 35                | 295687         | Valve spool                    | 1    |
|             | 295442   | Spring                  | 1    | 36                | 295688         | Retainer valve nut             | 1    |
| 13          | 295695   | Button head cap screw   | 1    | 37                | 295689         | Spring seat                    | 1    |
| 14          | 295676   | Spring                  | 1    | 38                | 296862         | Gun handle                     | 1    |
| 15          | 295771   | Two-position stop       | 1    | 39†               | 295706         | O-ring                         | 1    |
| 16†         | 295681   | O-ring                  | 1    | 40                | 295708         | Spacer                         | i    |
| 17          | 295682   | Draw rod bar            | 1    | .0                | 200700         | <b>Орассі</b>                  |      |
| 18†         | 295683   | O-ring                  | 1    | + P               | Parts included | d in Air Cylinder Rebuild Kit  |      |
| 19          | 295663   | Front cylinder stop     | 1    | -                 |                | hase separately).              |      |
| 20†         | 514279   | O-ring                  | 1    |                   | Jooss (parei   | iase separately).              |      |
| 21          | 295664   | Air piston              | 1    | <b>₩</b> <i>F</i> | Parts included | d in Trigger Valve Rebuild Kit |      |
| 22          | 295665   | Pipe nipple fitting     | 1    | 2                 | 96897(purch    | ase separately).               |      |
| 23          | 295666   | Stop clamp screw        | 1    |                   | ••             | • • • •                        |      |
| 24†         | 295667   | Pellet                  | 1    |                   |                |                                |      |
|             |          |                         |      |                   |                |                                |      |

# **Coupling Block Assembly (295383)**

All models



| Ref. |          |                                | Qty |
|------|----------|--------------------------------|-----|
| No.  | Part No. | Description                    |     |
| 1    | 295662   | Pipe plug, flush seal, 1/8 in. | 2   |
| 2    | 117634   | R-swivel fitting               | 1   |
| 3    | 117635   | A-swivel fitting               | 1   |
| 4    | 295693   | Pipe plug, flush seal,         | 2   |
|      |          | 1/16 in.                       |     |
| 5    | 296970   | Manual valve assembly          | 2   |
| 6    | 296215   | Coupling block                 | 1   |

### **Notes**

# **Specifications**

#### **GX-7A Mix Module Kit**

| Modu     | le Kit†≉   |                          | Clean               | out Tool                   |                  |
|----------|------------|--------------------------|---------------------|----------------------------|------------------|
| Part No. | Size Ref.  | (A) Iso Port<br>Part No. | Diameter<br>in/(mm) | (R) Resin Port<br>Part No. | Diameter in/(mm) |
| 296909   | #1 Round   | 296262                   | .0320 (.81)         | 296262                     | .032 (.81)       |
| 296916   | #2 Round   | 296253                   | .018 (.45)          | 296253                     | .018 (.45)       |
| 296919   | #3 Round   | 296256                   | .0225 (.57)         | 296253                     | .018 (.45)       |
| 296921   | #4 Round   | 296264                   | .035 (.89)          | 296262                     | .032 (.81)       |
| 296923   | #5 Round   | 296256                   | .0225 (.57)         | 296620                     | .028 (.71)       |
| 296925   | #7 Flat    | 296260                   | .028 (.71)          | 296620                     | .028 (.71)       |
| 296906   | #10 Flat   | 296283                   | .036 (.91)          | 296283                     | .036 (.91)       |
| 296910   | #12 Flat   | 296255                   | .021 (.53)          | 296255                     | .021 (.53)       |
| 296915   | #16 Round  | 296260                   | .028 (.71)          | 296260                     | .028 (.71)       |
| 296917   | #22 Round  | 296256                   | .0225 (.57)         | 296256                     | .0225 (.57)      |
| 296924   | #53 Round  | 296257                   | .024 (.61)          | 296255                     | .021 (.53)       |
| 296926   | MA Round   | 296265                   | .037 (.94)          | 296265                     | .037 (.94)       |
| 296875   | A2 Pour    | 296253                   | .018 (.45)          | 296253                     | .018 (.45)       |
| 296876   | A3 Pour    | 296267                   | .039 (.99)          | 296267                     | .039 (.99)       |
| 296868   | A5 Pour    | 296262                   | .032 (.81)          | 296262                     | .032 (.81)       |
| 296870   | A5-FS Pour | 296262                   | .032 (.81)          | 296262                     | .032 (.81)       |

Each module has a specially sized cleanout tool. To avoid damage to module, use correct cleanout tool.

<sup>\*</sup> Some Module Kits also available in packs. See following table.

|          | Mix Module Kit |                    |  |  |  |  |  |  |
|----------|----------------|--------------------|--|--|--|--|--|--|
| Part No. | Size Ref.      | Qty./Pack          |  |  |  |  |  |  |
| 296908   | #1 Round       | 12 (with 2 drills) |  |  |  |  |  |  |
| 296869   | A5 Pour        | 12                 |  |  |  |  |  |  |
| 296871   | A5-FS Pour     | 12                 |  |  |  |  |  |  |
| 296872   | A10 Pour       | 12                 |  |  |  |  |  |  |
| 296873   | A20 Pour       | 12                 |  |  |  |  |  |  |
| 296874   | A2 Pour        | 12 (with 2 drills) |  |  |  |  |  |  |
| 296911   | STD Blank      | 5                  |  |  |  |  |  |  |
| 296912   | STD Blank      | 100                |  |  |  |  |  |  |
| 296913   | PEEK Blank     | 5                  |  |  |  |  |  |  |

<sup>†</sup> Module Kits include one mix module and both cleanout tools. See following table.

# **Set-Up Chart for GX-7A Model**

| Pres-<br>sure<br>(psi) | Output<br>(lbs/min) | Pattern<br>Dia.<br>(inches) | Module Part<br>No. | Polyol<br>Port<br>Size | No.<br>Orifices | Iso Port<br>Size | No.<br>Orifices | Tip    |
|------------------------|---------------------|-----------------------------|--------------------|------------------------|-----------------|------------------|-----------------|--------|
|                        |                     |                             | Rou                | nd Spray F             | Pattern         |                  |                 |        |
| 1000                   | 22                  | *22                         | 296909 (#1)        | .0320                  | 4               | .0320            | 4               | 296712 |
| 1000                   | 12                  | <b>*12</b>                  | 296919 (#3)        | .0180                  | 4               | .0225            | 4               | 296710 |
| 1600                   | 16                  | *14                         | 296923 (#5)        | .0280                  | 4               | .0225            | 4               | 296710 |
| 2000                   | 30                  | <b>*24</b>                  | 296909 (#1)        | .0320                  | 4               | .0320            | 4               | 296694 |
| 3000                   | 40                  | <b>*24</b>                  | 296921 (#4)        | .0320                  | 4               | .0350            | 4               | 296695 |
|                        |                     |                             |                    | Pour Patte             | rn              |                  |                 |        |
| 600                    | 3.5                 | N/A                         | 296875 (A2)        | .0180                  | 1               | .0180            | 1               | 296697 |
| 600                    | 12                  | N/A                         | 296876 (A3)        | .0390                  | 1               | .0390            | 1               | 296697 |
|                        |                     |                             | Fai                | n Spray Pa             | ittern          |                  |                 |        |
| 1000                   | 12                  | <b>❖</b> 16 x 4             | 296925 (#7)        | .0280                  | 2               | .0280            | 2               | 296704 |
| 1500                   | 24                  | <b>❖</b> 22 x 4             | 296312<br>(#10)    | .0360                  | 2               | .0360            | 2               | 296703 |
| 1500                   | 5                   | <b>♦</b> 16 x 3             | 296910<br>(#12)    | .0210                  | 2               | .0210            | 2               | 296705 |

<sup>\*</sup> At 24 in. above substrate

<sup>❖</sup> At 18 in. above substrate

#### **GX-7 400 Mix Module Kit**

|                  | Module Kits |          | Cleanout Drill       |                  |                         |                  |  |
|------------------|-------------|----------|----------------------|------------------|-------------------------|------------------|--|
| Part No.         | Size Ref.   | Quantity | Iso Port<br>Part No. | Diameter in/(mm) | Polyol Port<br>Part No. | Diameter in/(mm) |  |
| 296885<br>296884 | 402 Round   | 1<br>12  | 296253               | .018 (.45)       | 296253                  | .018 (.45)       |  |
| 296859<br>296860 | 451 Fan     | 1<br>12  | 296253               | .018 (.45)       | 296253                  | .018 (.45)       |  |
| 296888<br>296887 | 452 Fan     | 1<br>12  | 296254               | .020 (.51)       | 296254                  | .020 (.51)       |  |
| 296891<br>296890 | 453 Fan     | 1<br>12  | 296258               | .025 (.64)       | 296256                  | .0225 (.57)      |  |

#### **CAUTION**

Each module kit includes cleanout drills. To avoid damage to module, use correct cleanout drill.

# **Set-up Chart for GX-7 400 Model**

| Pres-<br>sure<br>(psi) | Output<br>(lbs/min) | Pattern<br>Dia.<br>(inches) | Module Part<br>No. | Polyol<br>Port<br>Size | No.<br>Orifices | Iso Port<br>Size | No.<br>Orifices | Tip    |
|------------------------|---------------------|-----------------------------|--------------------|------------------------|-----------------|------------------|-----------------|--------|
|                        |                     |                             | Roun               | d Spray P              | attern          |                  |                 |        |
| 1500                   | 3.5                 | <b>*</b> 8                  | 296885 (402)       | .0180                  | 1               | .0180            | 1               | 296858 |
|                        |                     |                             | Fan                | Spray Pat              | ttern           |                  |                 |        |
| 1500                   | 3.5                 | <b>♦</b> 16 x 3             | 296859 (451)       | .0180                  | 1               | .0180            | 1               | 296853 |
| 1500                   | 4.5                 | <b>❖</b> 16 x 3             | 296888 (452)       | .0200                  | 1               | .0200            | 1               | 296853 |
| 1500                   | 8.0                 | <b>❖</b> 16 x 3             | 296891 (453)       | .0250                  | 2               | .0225            | 2               | 296855 |

\* At 24 in. above substrate

❖ At 18 in. above substrate

| Tip Kits (for GX-7 400 Gun) |                   |   |  |  |  |  |  |  |  |
|-----------------------------|-------------------|---|--|--|--|--|--|--|--|
| Part No.                    | Part No. No. Ref. |   |  |  |  |  |  |  |  |
| 296858                      | 40 Round          | 1 |  |  |  |  |  |  |  |
| 296852                      | 210 Fan           | 1 |  |  |  |  |  |  |  |
| 296853                      | 212 Fan           | 1 |  |  |  |  |  |  |  |
| 296854                      | 212 Fan           | 5 |  |  |  |  |  |  |  |
| 296855                      | 213 Fan           | 1 |  |  |  |  |  |  |  |
| 296856                      | 213 Fan           | 5 |  |  |  |  |  |  |  |
| 296857                      | 214 Fan           | 1 |  |  |  |  |  |  |  |
| 296892                      | TOM               | 1 |  |  |  |  |  |  |  |

## **GX-7 DI Model Specifications**

| Module/Tip Data for Chemical Sprayed at 2500 PSI |                 |                   |                 |                      |
|--|-----------------|-------------------|-----------------|----------------------|
| <b>≭</b> Module Kit                              | Cleanout Drill  | Ref. No.          | *Pattern        | *Output<br>(Ibs/min) |
|  |                 | Fan Spray Patter  | n               |                      |
| 296900 (#2)                                      | 296282          | 212               | 12 in. wide     | 12                   |
|  | (.086 diameter) | 206               | 20 in. wide     | 22                   |
|  |                 | 213               | 12 in. wide     | 12                   |
|  |                 | 204               | 20 in. wide     | 21                   |
| 296901 (#4)                                      | 296260          | 212               | 10 in. wide     | 8                    |
|  | (.028 diameter) | 206               | 24 in. wide     | 11                   |
|  |                 | 204               | 18 in. wide     | 10                   |
| 296903 (#5)                                      | 296253          | 212               | 11 in. wide     | 4                    |
|  | (.018 diameter) | 213               | 12 in. wide     | 4                    |
|  |                 | 208               | 8 in. wide      | 4                    |
|  | F               | Round Spray Patte | ern             |                      |
| 296903 (#5)                                      | 296253          | 40                | 4 in. diameter  | 8                    |
|  | (.018 diameter) | 55                | 7 in. diameter  | 9.5                  |
|  | ,               | 70                | 8 in. diameter  | 9.75                 |
|  |                 | 90                | 10 in. diameter | 9.75                 |

<sup>\*</sup> Actual results may vary due to chemical system characteristics, temperature, pressure, and ratio.

**≭** Includes appropriate cleanout drills.

| Mix Module Kit |              |          |  |  |
|----------------|--------------|----------|--|--|
| Part No.       | Size Ref.    | Quantity |  |  |
| 296898         | PEEK 018/018 | 1        |  |  |
| 296899         | PEEK 028/028 | 1        |  |  |

### **Tip Kits**

#### For GX-7A and GX-7 DI Models

| Round Tip Kits |      |          |  |  |
|----------------|------|----------|--|--|
| Part No.       | Size | Quantity |  |  |
| 296708         | 40   | 1        |  |  |
| 296709         | 46   | 1        |  |  |
| 296717         | 55   | 5        |  |  |
| 296710         | 70   | 1        |  |  |
| 296718         | 70   | 5        |  |  |
| 296711         | 80   | 1        |  |  |
| 296719         | 80   | 5        |  |  |
| 296712         | 90   | 1        |  |  |
| 296720         | 90   | 5        |  |  |
| 296694         | 100  | 1        |  |  |
| 296714         | 100  | 5        |  |  |
| 296695         | 110  | 1        |  |  |
| 296696         | 110  | 5        |  |  |
| 296697         | 125  | 1        |  |  |
| 296877         | 140  | 1        |  |  |

| Flat Tip Kits |               |      |
|---------------|---------------|------|
| Part<br>No.   | No.<br>Ref.   | Qty. |
| 296698        | 202           | 1    |
| 296699        | 203           | 1    |
| 296700        | 204           | 1    |
| 296701        | 206           | 1    |
| 296702        | 208           | 1    |
| 296703        | 209           | 1    |
| 296704        | 210           | 1    |
| 296715        | 210           | 5    |
| 296882        | 212.5<br>SPEC | 1    |
| 296705        | 212           | 1    |
| 296716        | 212           | 5    |
| 296706        | 213           | 1    |
| 296883        | 213-<br>SPEC  | 1    |
| 296707        | 215           | 1    |

### **Tool Kits**

GX-7A and GX-7 DI models: 296835

GX-7 400 model: 296184

# **Technical Data**

| Category                   | Data   |
|----------------------------|--|
| Air Supply                 | 100-125 psi (7.9 bars)                         |
| Maximum Operating Pressure | 3500 psi (24 MPa, 240 bar)                     |
| Maximum Output *           | GX-7A Model:                                   |
|                            | 40 lbs/min (18 kg/min)                         |
|                            | GX-7 DI Model:                                 |
|                            | 22 lbs/min (10 kg/min)                         |
|                            | GX-7 400 Model:                                |
|                            | 8 lbs/min (3.6 kg/min)                         |
| Minimum Output <b>*</b>    | GX-7A Model:                                   |
|                            | 4 lbs/min (1.8 kg/min)                         |
|                            | GX-7 DI Model:                                 |
|                            | 4 lbs/min (1.8 kg/min)                         |
|                            | GX-7 400 Model:                                |
|                            | 3.5 lbs/min (1.6 kg/min)                       |
| Height                     | 9 in. (23 cm)                                  |
| Length                     | 9.5 in. (24 cm)                                |
| Width                      | 4.5 in. (11 cm)                                |
| Weight                     | 3.5 lbs. (1.5 kg)                              |
| Mixing                     | GX-7A Model:                                   |
|                            | Internal impingement, airless atomization,     |
|                            | solvent-free, mechanically self cleaning       |
|                            | GX-7 DI Model:                                 |
|                            | Internal direct impingement, airless atomiza-  |
|                            | tion, solvent-free, mechanically self cleaning |
|                            | GX-7 400 Model:                                |
|                            | Internal direct impingement, airless atomiza-  |
|                            | tion, solvent-free, mechanically self cleaning |
|                            |  |

<sup>\*</sup> Theoretical: actual results will vary with operating conditions

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