

# 60-21580 GunJet® Spray Gun

## USER GUIDE



**Spraying Systems Co.®**  
Experts in Spray Technology

MI-60-21580  
[spray.com](http://spray.com)

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## INTRODUCTION

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The Model 60-21580 GunJet® Spray Gun is a heavy-duty, impact resistant spray gun with a sturdy nylon handle and trigger guard. The Model 60-21580 GunJet is a high-pressure spray gun which remains responsive and easy to operate even at maximum flow and capacity conditions. The light trigger pull provides positive control. The heat resistant handle remains comfortable even at high temperatures. A special trigger lock feature locks in the "off" position to prevent accidental discharge and retracts flush into the handle when the gun is in use. The Model 60-21580 GunJet will accommodate standard Spraying Systems Co. accessories for the inlet connection, within the accessories' pressure and temperature limitations.

### Features of the Model 60-21580 GunJet Spray Guns:

- Adjustable spray pattern... from a fine mist to full cone and solid stream sprays by pulling back on trigger
- Operating pressure range - up to 250 psi (17 bar)
- Flow capacities to 16 GPM (61 l/min) in solid stream position
- Maximum recommended temperature - 300° F (150° C)
- Single piece forged Brass inlet body - 3/8" NPT(F) or 3/8" BSPT(F) inlet connection
- Bronze-filled PTFE valve seat
- Viton® stem seal
- Short hand grip (handle to trigger)
- Rubber bumper protects spray tip from damage



# WARNINGS & PRECAUTIONS

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## **IMPORTANT: READ ALL INSTRUCTIONS BEFORE USING SPRAY GUN**

**THIS IS A HIGH-PRESSURE DEVICE WHICH SHOULD ONLY BE USED IN A PROPERLY ENGINEERED SYSTEM. THIS SPRAY GUN SHOULD BE OPERATED ONLY BY TRAINED OPERATORS AND KEPT OUT OF REACH OF CHILDREN. PLEASE READ THE FOLLOWING INSTRUCTION SHEETS BEFORE ATTEMPTING TO OPERATE THE 60-21580 HIGH PRESSURE GUNJET SPRAY GUN.**

**SPRAYING SYSTEMS CO. STRONGLY RECOMMENDS THE USE OF APPROPRIATE SAFETY EQUIPMENT WHEN WORKING WITH POTENTIALLY HAZARDOUS CHEMICALS. THIS EQUIPMENT INCLUDES, BUT IS NOT LIMITED TO, A PROTECTIVE HAT, SAFETY GLASSES OR FACE SHIELD, CHEMICAL RESISTANT GLOVES, LONG-SLEEVED SHIRT, LONG PANTS, AND A CHEMICAL RESISTANT APRON. REMEMBER TO READ THE CHEMICAL MANUFACTURER'S LABEL AND FOLLOW ALL DIRECTIONS.**

**HEED ALL THESE WARNINGS or serious and permanent injury may result.**

1. **DO NOT** aim gun at any person or any part of the body. Fluids under high pressure can penetrate the human skin and can cause severe injury, possibly resulting in amputation or death. Hot liquids and chemicals can also cause burns or injury. If any part of the body comes in contact with the spray stream, immediately consult a physician.
2. **DO NOT** at any time place hand or any other part of the body in front of a spray nozzle or tip.
3. **DO NOT** alter equipment in any manner; if repairs are necessary, use only genuine factory repair parts supplied by Spraying Systems Co.®
4. **DO NOT** exceed maximum operating pressure of the lowest rated accessory item within the spray system, even though some of the accessories have a higher maximum pressure rating.
5. **DO NOT** leave equipment under pressure unattended at any time. If a pump is used, relieve line pressure by shutting off power to pump, turning off the liquid supply to the pump, and actuating the trigger until all fluid ceases to flow. If gun assembly is equipped with trigger lock ring; then position trigger lock to the "locked" position.
6. **DO NOT** use damaged, perforated, or weakened fluid hose.
7. **DO NOT** use a GunJet® with a faulty or damaged Trigger Lock.

8. **DO NOT** operate a spray gun if there are any leaks from the packings, fittings. hoses. etc. Fluids which are under high pressure can penetrate skin, cloth. etc. and cause serious injury.
9. **DO NOT** touch any metal parts of the gun or accessories when spraying hot liquids or severe injury can occur.
10. **DO NOT** handle a spray gun without a tip or nozzle any differently than one with a tip or nozzle. Even with the tip or nozzle removed, the spray gun can discharge a large volume of liquid at a high velocity.

### **SAFETY SHOULD ALWAYS BE OBSERVED:**

1. **DO** use a “two-handed” control of GunJet at all times. Grasp spray gun firmly with both hands.
2. **DO** adopt a secure body stance prior to and during spray operation to safely control the high reactionary force of this unit.
3. **DO** impress on other people in the spraying area the importance of obeying strict safety precautions for everyone’s safety.
4. **DO** develop a habit of shutting off the power to the pump, relieving fluid pressure from gun and hose by actuating trigger until all fluid ceases to flow, and setting the trigger lock in the locked position, before attempting to remove the tip, nozzle, gun or any part of the gun...or when gun is not in use.
5. **DO** check operation of Trigger Lock before each spray period. Trigger Lock must hold the Trigger to its forward position. (Adjust if necessary - see section, Trigger Adjustment Procedure.)
6. **DO** carefully check and tighten threaded connections regularly. Make them secure and leak proof.
7. **DO** flush gun after each spray period, using the same safety precautions as used during spraying operations. Always use the lowest possible pressure of flushing.
8. **DO** keep gun clean and dry to allow for positive grip.
9. **DO** use spray gun in a well ventilated area and make sure spray gun is grounded properly when used in a possibly explosive or inflammable environment. A grounded type hose should be used.

**IMPORTANT: In case of the slightest appearance of skin penetration from spray, CONSULT A PHYSICIAN IMMEDIATELY!!**

# INSTALLATION

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1. Make sure all power is turned off to the pump. Attach GunJet to high-pressure hose with rating to meet or exceed the maximum operating pressure to be used. When spray gun is being used in a possible explosive or flammable environment, a grounded type hose should be used.
2. Follow your pump and component parts manufacturer's recommendations for operation. but in any case, do not exceed the pressure or temperature of the lowest rated component within the system.
3. Make sure all power is turned off to the pump, and there is no pressure in any part of the system. Examine all connections, making sure they are of the proper type and are secure.
4. Before turning on the pump and holding the GunJet in downward vertical position pointed away from body, familiarize yourself with the operation of the Trigger Lock (23).
5. Make sure Trigger Lock (23) is in "locked" position. Do not turn on the pump power or operate spray gun if Trigger Lock is not operating properly.

# MAINTENANCE

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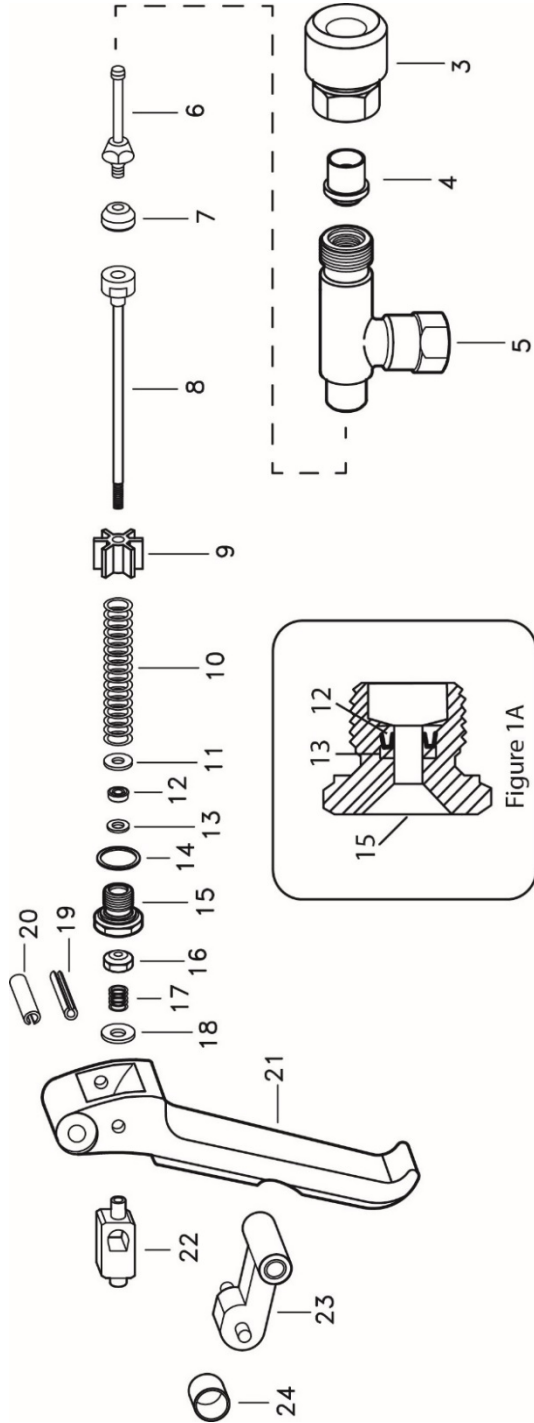
With proper care, your 60-21580 GunJet will give you reliable service. To maintain this performance, parts should be inspected regularly and replaced when necessary with genuine Spraying Systems Co. parts. (Parts kit AB60-21580-Kit).

## **DISASSEMBLY PROCEDURE:** *(See Fig. 1 and Parts List)*

1. If it becomes necessary to disassemble this unit, follow these steps:
2. Make sure all air, electrical and liquid lines to the pump are turned off.
3. Release all the pressure and liquid (from the hose to GunJet by operating Trigger (21) until fluid ceases to flow.
4. Set Trigger lock (23) in locked position.
5. Remove gun from hose.
6. Remove 7 screws (1).
7. Remove Right Hand Housing (2), Trigger Lock (23) and Lock Spring Ring (24).
8. Remove Inlet Body and Trigger as a sub-assembly (3) thru (24) from left Hand Housing (2).
9. Holding Trigger (21) firmly in place, loosen Stem Nut (18) and remove items (3) thru (18) from Trigger Guide (22).
10. Remove Stem Nut (16) from Main Stem/Seat Holder sub-assembly (6, 7, 8).
11. Using the hex on the Body (5) as a back-up wrenching surface, loosen Cap Sub-Assembly (3) and Packing Screw (15).
12. Remove Cap Sub-Assembly (3) and Tip (4).
13. Remove items (6) thru (22).
14. While holding Main Stem/Seat Holder Sub-Assembly (6, 7, 8), remove Pintle (6) and PTFE Seat (7).
15. If required, Trigger Guide (22) may be removed from Trigger (21) by pressing or driving out Roll Pin (19).
16. If required, Roll Pin (20) may be removed from Trigger (21) by pressing or driving out.



FIGURE 1



**ASSEMBLY PROCEDURE:** (See Figure 1 and Parts List)

1. Secure flat side of PTFE Seat (7) into Main Stem/Seat Holder Sub-Assembly (6, 7, 8) with Pintle (6).
2. Install Stem Guide (9) and Spring (10).
3. Install Seat Retainer (11) onto Main Stem/Seat Holder Sub-Assembly (6, 7, 8).
4. Place Seat Plug Gasket (14) onto Packing Screw (15).
5. Packing Cup:
  - 5A. If Packing Cup (12) and Back-up Ring were not previously removed from Packing Screw (15), apply a drop of light oil on Packing Cup (14) and carefully "screw" Packing Screw (15) over threads of the Main Stem/Seat Holder Sub-Assembly (6, 7, 8).
  - 5B. If Packing Cup (12) and Back-up Ring were previously removed from Packing Screw (15), apply a thin coat of light oil on Packing Cup (12) and with flat side of Packing Cup (12) facing Trigger (21), "screw" Packing Cup (12) over threads of the Main Stem/Seat Holder Sub-Assembly (6, 7, 8). Slide Back-up Ring (13) onto Main Stem/Seat Holder Sub-Assembly (6, 7, 8). Slide Seat Plug Gasket (14) & Packing Screw (15) onto Main Stem/Seat Holder Sub-Assembly (6, 7, 8).

***IMPORTANT: Packing Cup (12) must be installed in correct direction, see Fig. 1a.***

6. Using the hex on the Body (5) as a back-up wrenching surface, screw Packing Screw (15) with Gasket (14) while pushing items (6) thru (13) into Body (5). Tighten securely.
7. Thread flat side of Stem Nut (16) onto threaded end of Main Stem/Seat Holder Sub-Assembly (6, 7, 8) until approximately 1/8" of threaded stem projects from Nut (16).
8. Assemble Trigger (21), Trigger Guide (22) and Roll Pins (19) & (20) if previously disassembled. Roll Pin (19) slot should face toward threaded end of Trigger Guide (22). Lubricate area where Roll Pin (19) contacts Trigger Guide (22) with white grease or equivalent.
9. Install #6 Burr (washer) (18), Spring (17), onto Main Stem/Seat Holder Sub-Assembly (6, 7, 8). Do not allow Stem Nut (16) to drift from position on Main Stem/Seat Holder Sub-Assembly (6, 7, 8).





10. Tighten Stem Nut (16) while holding Trigger Guide (22) firmly in place.
11. Place Inlet Body-Trigger Assembly (5) thru (22), in left Hand Housing (2) making sure Roll Pin (20) is engaged in hole in left Hand Housing (2).
12. Install lock Spring Ring (24) in left Hand Housing (2).
13. Place Trigger lock (23) in left Hand Housing (2).
14. Adjust Trigger (21) as required. See "Trigger Adjustment Procedure" below.
15. Install Right Hand Housing (2) and 7 Screws (1).  
***CAUTION: Do not over tighten screws.***
16. Replace Tip (4), Cap Sub-Assembly (3) onto Body (6).
17. Be sure Trigger lock (23) is in locked position before attaching to pump. Refer to "Warnings and Safety Precautions" and "Installation Instructions" (Pg. 4).

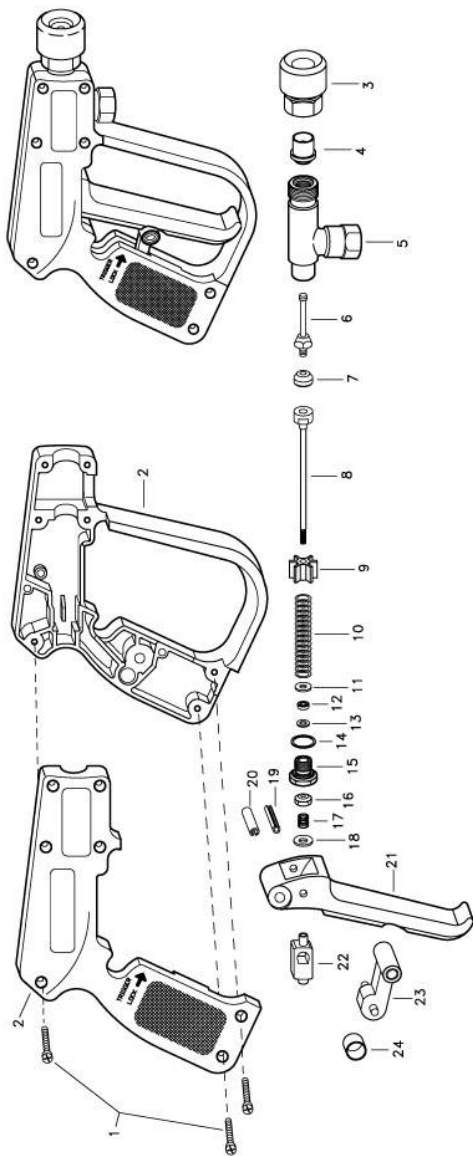
## **REPLACEMENT OF PACKING CUP (12):**

With the stroke adjusting tool (24) in place from step 5 above, Steps 1 thru 12 of "Disassembly Procedure", Pg. 5 and step 6 thru 18 of "Assembly Procedure", Pg. 8.

## **TRIGGER ADJUSTMENT PROCEDURE:**

When correctly adjusted there should be no Main Stem/Seat Holder Sub-Assembly (6,7,8) travel when Trigger lock (23) is in the "locked" position and trigger operation is attempted. A visual check can be made by detecting no Stem Nut (16) movement. Adjust Main Stem/Seat Holder Sub-Assembly (6, 7, 8) to engage Trigger Guide (22) approximately 3/16" which should result in 1/8" to 5/32" of Stem travel when mounted in plastic housing (See steps 8, 10 & 11 of "Assembly Procedure", Pg. 8-9).

# PART LIST



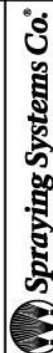
ITEM	PART NO.	DESCRIPTION
19	CP17720-420SS	Roll Pin, Type 420 Stainless Steel
20	CP17889-420SS	Roll Pin, Type 420 Stainless Steel
21	CP17703-NY	Trigger, Nylon (Yellow)
22	CP19810	Trigger Guide, Brass
23	CP17704-NY	Trigger Lock, Nylon (Yellow)
24	CP17719-1-CE	Lock Spring Ring, Celcon
	50221	Sub-Assembly (Includes Items 6 thru 18 & 22)
	No. AM60-21580, GunJet®	Spray Gun With Variable Spray Pattern

AB80-21580-Kit - Spare Parts Kit (Includes all items marked with \*)

ITEM	PART NO.	DESCRIPTION
1	CP17103-11/16-302SS	Screw, Type 302 Stainless Steel (7 Req'd)
2	CP19683-3-NYB	Right and Left Hand Housing Set, Nylon (Black)
3	39690	Cap Sub-Assembly, Brass Cap with Buna-N Bumper
4	21579	Tip, Brass
5	CP21577	Inlet Body, Brass
6	CP21585	Pinite, Brass
7	CP21584-BTEF	Seat, Teflon, Bronze Filled
8	CP21583-60-BR302S	Main Stem & Seat Holder Sub-Assembly, Type 302 Stainless Steel
9	CP21576	Stem Guide, Brass
10	CP16053-2-302SS	Spring, Type 302 Stainless Steel
11	CP21575	Seat Retainer, Brass
12	CP14255-1-VI	Cup Packing, Viton
13	CP17712-TEF	Back-Up Ring, Teflon
14	CP21574-CU	Seat Plug Gasket, Copper
15	CP21573	Packing Screw, Brass
16	CP7484-SS	Stem Nut, Stainless Steel
17	CP7489-302SS	Trigger Stop Spring, Type 302 Stainless Steel
18	CP7622-302SS	#6 Burr, Type 302 Stainless Steel

## DESCRIPTION:

NO. AM60-21580  
GUMJET® SPRAY GUN WITH  
VARIABLE SPRAY PATTERN



**Spraying Systems Co.®**  
Spray Nozzles and Accessories  
P.O. Box 7900 - Wheaton, IL 60187-7901

Rev. No. 3  
Parts List No.  
**PL 80-21580**  
OF  
SHEET







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