

30A and 30AW GunJet® Spray Gun

USER GUIDE



Spraying Systems Co.®
Experts in Spray Technology

MI-30A & 30AW
spray.com



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INTRODUCTION

The Model 30A GunJet® is a heavy-duty, impact resistant spray gun with a sturdy nylon handle and trigger guard. The Model 30A 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 30AW incorporates a continuous “weep” feature to minimize the chance of freezing and, except for the valve seat subassembly, the 30A and 30AW GunJet spray guns are identical and require the same installation and operating procedures. The Model 30A and 30AW GunJet spray guns will accommodate standard Spraying Systems Co. accessories for both the inlet and the outlet connections with the accessories’ pressure and temperature limitations.

Features of the Model 30-GunJet spray guns:

- Operating pressure range up to 1500 psi (105 bar).
- Flow capacities to 5 gpm (19 l/min) with 80 psi (5.5 bar) pressure drop.
- Maximum recommended temperature 200°F (93° C).
- Single piece, forged brass inlet body.
- Stainless steel inlet body.
- Stainless steel shut-off needle.
- Bronze-filled PTFE valve seat.
- Buna-N stem seal.
- Short hand grip (handle to trigger).



WARNINGS & PRECAUTIONS

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 MODEL 60 HIGH PRESSURE GUNJET SPRAY GUN.

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

GENERAL WARNING FOR HIGH PRESSURE SPRAY GUNS: IF THE OPERATING PRESSURE IS BETWEEN 100 PSIG (0.69 MPA) AND 3200 PSIG (22.06 MPA), THEN AN EXTENSION OR WAND SHOULD BE USED THAT SEPARATES THE DISCHARGE NOZZLE A MINIMUM OF 29.5 INCHES (750 MM) FROM THE TRIGGER MECHANISM. DO NOT ASSEMBLE DISCHARGE NOZZLE DIRECTLY INTO THE SPRAY GUN.

IF THE OPERATING PRESSURE IS BETWEEN 3200 PSIG (22.06 MPA) AND 5000 PSIG (34.48 MPA), THEN AN EXTENSION OR WAND SHOULD BE USED THAT SEPARATES THE DISCHARGE NOZZLE A MINIMUM OF 4.0 FEET (1.22 M) FROM THE TRIGGER MECHANISM. DO NOT ASSEMBLE DISCHARGE NOZZLE DIRECTLY INTO THE SPRAY GUN.

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 hands or any other part of the body in front of 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. Relieve pressure by shutting off power to pump, turning off the liquid supply to the pump, and actuating Trigger until all fluid ceases to flow; 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 that 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 Model 60 GunJet at all times. Grasp spray gun firmly with both hands. If an extension is used, grasp the extension. (Insulated extension if spraying hot liquids.)
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 for flushing.
8. **DO** keep gun clean and dry to allow for positive grip.
9. **DO** use GunJet 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

1. Before installing GunJet® to hose, select WashJet® tip or, if desired, an appropriate extension and WashJet nozzle for your application. Install on gun with nozzle positioned for your particular spraying needs and tighten.
2. 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.
3. 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.
4. Make sure all power to the pump is turned off 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.
5. 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 (21).
6. Make sure Trigger Lock (21) is in locked position. Do not turn on the pump power or operate spray gun if Trigger Lock is not operating properly.



MAINTENANCE

With proper care, your Model 30 series 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.

DISASSEMBLY PROCEDURE

(See Figure 1 and parts list PL 30A & 30W)

If it becomes necessary to disassemble this unit, follow these steps:

1. Make sure all air, electrical, and liquid lines to the pump are turned off.
2. Release all the pressure and liquid (from the hose to GunJet) by operating Trigger until fluid ceases to flow.
3. Set Trigger Lock (21) in locked position.
4. Remove gun from hose.
5. Remove 7 Screws (1).
6. Remove Right Hand Housing (2), Trigger Lock (21) and Lock Spring Ring (20).
7. Remove Body and Trigger as a subassembly (3) thru (19) from Left Hand Housing (2).
8. Remove Trigger (18) and Trigger Guide (19).
9. Remove #6 Burr (15), Spring (14), Stem Nut (13).
10. Using the hex on the Body (5) as a back-up wrenching surface, loosen Cap (3) and Packing Screw (12).
11. Remove Cap (3) and Valve Seat (4).
12. Holding Packing Screw (12) unscrew Body (5) from Stem Assembly (6) thru (12).
13. Remove Gasket (11) from Packing Screw (12).
14. Remove Packing Screw (12), Cup Packing (9), Washer (8), and Main Spring (7).
15. If required, Trigger Guide (19) may be removed from Trigger (18) by pressing or driving out Roll Pin (16).
16. If required, Roll Pin (17) may be removed from Trigger (18) by pressing or driving out.

FIGURE 1

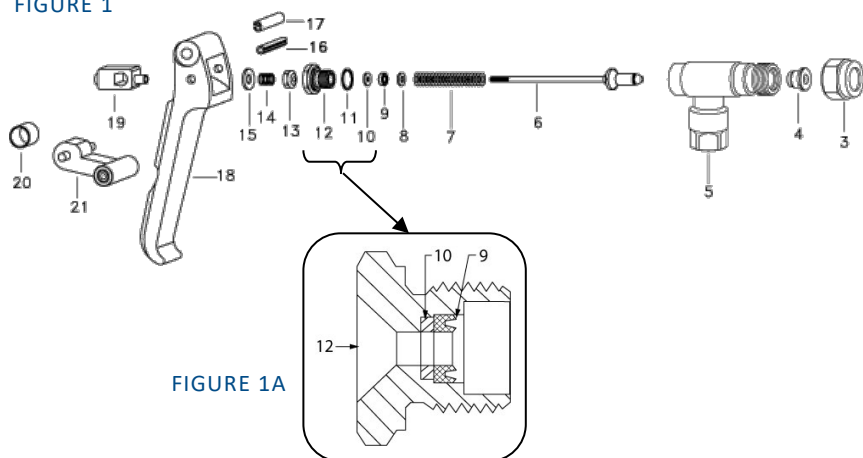


FIGURE 1A

ASSEMBLY PROCEDURE

(See Figure 1 and parts list PL 30A & 30W)

1. Install Main Spring (7) over Main Stem (6).
2. Install Washer (8) onto Main Stem (6).
3. If Cup Packing (9) and Back-up Ring (10) were not previously removed from Packing Screw (12) apply a drop of light oil on Cup Packing and carefully thread Packing Screw (12) over threads of Main Stem (6).
4. If Cup Packing (9) and Back-up Ring (10) were previously removed from Packing Screw (12) slide Packing Screw (12) and Back-up Ring (10) onto Main Stem (6). Apply a thin coat of light oil on Cup Packing (9) and with flat side of Cup Packing (9) facing Trigger (18) carefully screw Cup Packing over threads of Main Stem (6). **Important: Cup Packing (9) must be installed in correct direction (see Figure 1a).**
5. Install Valve Seat (4) and Cap (3) loosely onto Body (5).
6. Insert stem assembly into Inlet Body (5); begin to thread Packing Screw (12) into Inlet Body (5).
7. Tighten Cap (3) and Packing Screw (12).
8. Assemble Trigger (18), Trigger Guide (19) and Roll Pin (16) and (17) if previously disassembled. Roll Pin (16) slot should face toward threaded end of Trigger Guide (19). Lubricate area where Roll Pin (16) contacts Trigger Guide (19) with white grease or equivalent.

9. Thread flat side of hex Stem Nut (13) onto threaded end of Main Stem (6) until approximately 3/16" of threaded stem projects from recessed surface of Stem Nut (13).
10. Install #6 Burr (washer) (15), Spring (14), and end of Main Stem (6) which has hex Stem Nut (13) onto Trigger Guide (19). Do not allow hex Stem Nut (13) to drift from preset position on Main Stem (6).
11. Tighten hex Stem Nut (13) using a back-up wrench on the flats of Trigger Guide (19).
12. Place Body Trigger Assembly (3) thru (19) in Left Hand Housing (2) making sure Roll Pin (17) is engaged in hole in Left Hand Housing (2).
13. Install Lock Spring Ring (20) in Left Hand Housing (2).
14. Place Trigger Lock (21) in Left Hand Housing (2).
15. Install Right Hand Housing (2) and 7 Screws (1).
Caution: Do not over tighten screws.
16. Be sure Trigger Lock (21) is in locked position before attaching to pump.

REPLACEMENT OF PACKING CUP (9)

Steps 1 through 14 of Disassembly Procedure and steps 1 through 16 of Assembly Procedure.

TRIGGER ADJUSTMENT PROCEDURE

When correctly adjusted there should be no Stem (6) travel when Trigger Lock (21) is in the locked position and trigger operation is attempted. A visual check can be made by detecting no Stem Nut (13) movement. Adjust Main Stem (6) to engage Trigger Guide (19) approximately 3/16" which should result in 1/8" to 5/32" of stem travel when mounted in plastic housing. (See steps 9, 10, and 11 of Assembly Procedure.)

Parts List

ITEM	PART NO.	DESCRIPTION
1	CP17103-11/16-302SS	Screw, Type 302 Stainless Steel (7 Req'd)
2	CP19684-NYB	Right and Left Hand Housing Set, Nylon (Black)
3	CP7890-NIP	Cap, Steel, Nickel Plated
4	CP19813-BR81EF	Valve Seat Sub-Asy., 60% Bronze Filled Teflon and Brass (for #30A-1/4)
5	CP19807-BR30ZS	Valve Seat Sub-Asy., 60% Bronze Filled Teflon and Brass (for #30AW-1/4)
6	CP16053-1-SS	Spring, Stainless Steel, Type 302
7	CP10886-SS	Washer, Stainless Steel, Type 302
8	CP14255-1-BU	Cup Packing, Buna-N
9	CP50737	Inlet Body, Brass
10	CP7484-SS	Stem Nut, Stainless Steel
11	CP7489-302SS	Trigger Stop Spring, Type 302 Stainless Steel
12	CP7622-302SS	#6 Burr, Type 302 Stainless Steel
13	CP17720-420SS	Roll Pin, Type 420 Stainless Steel
14	CP19820-420SS	Roll Pin, Type 420 Stainless Steel
15	CP17703-NY	Trigger, Nylon (Gray)
16	CP19810	Trigger Guide, Brass

ITEM	PART NO.	DESCRIPTION
17	CP19806-NY	Trigger Lock, Nylon (Gray)
18	CP19805-CE	Lock Spring Ring, Celcon
No. AA30A-1/4, GunJet® Spray Gun		
No. AA30AW-1/4, GunJet® Spray Gun - With "Weep" Feature		
AS30A-KIT - Spare Parts Kit (includes all items marked with *)		
AS30AW-KIT - Spare Parts Kit (includes all items marked with *)		

DESCRIPTION:

NO. AA30A-1/4 AND AA30AW-1/4
GunJet® Spray Gun

Spraying Systems Co.
Spray Nozzles and Accessories
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