AA27H GunJet® Spray Gun

USER GUIDE

Spraying Systems Co.®
Experts in Spray Technology

MI-AA27H
spray.com

CONTENTS

INTRODUCTION

The Model AA27H-- GunJet® Spray Gun is a high-pressure spray gun which features a heat resistant aluminum alloy handle that remains comfortable even while spraying high temperature liquids. The comfortable trigger grip remains responsive and easy to operate even at maximum flow and capacity conditions. As a safety feature, a Trigger Guard and special Safety Lock, which locks the trigger in the "off" position, help to prevent accidental discharges. The Model AA27H-- GunJet will accommodate standard Spraying Systems Co. accessories for both the inlet and the outlet connections, within the accessories pressure and temperature limitations. For additional information, see our Industrial Catalog or your nearest Spraying Systems Co. representative.

Features of the Model 27H GunJet Spray Guns:

- Operating pressure range - up to 1000 psi (69 bar)
- Flow capacities to 5 GPM (19 l/min)
- Maximum recommended temperature – 200° F (93° C)
- Inlet body - single piece, forged brass-nickel plated (for AA27H)
  - stainless steel (for AA27H-SS)
- Shut-off needle assembly - stainless steel and brass (for AA27H--)
  - stainless steel (for AAM27H-SS)
- Valve seat - brass and carbon-filled PTFE (for AA27H--)
  stainless steel and carbon-filled PTFE (for AA27H-SS)
  bronze-filled PTFE valve seat
- Buna-N stem seal
- Safety lock ... secures trigger in "Off" position

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 AA27-- 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** exceeds 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** leaves 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 a GunJet® with a faulty or damaged Safety Lock.
7. **DO NOT** use damaged, perforated, or weakened fluid hose.

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 AA27H-- 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 Safety Lock before each spray period. Safety Trigger Lock must hold the Trigger to its forward position. (Adjust if necessary - see section, "Safety Lock Adjustment" on page 7.)
6. **DO** keep gun clean and dry to allow for positive grip.
7. **DO** carefully check and tighten threaded connections regularly. Make them secure and leak proof.
8. **DO** flush fun after each spray period, using the same safety precautions as used during spraying operations. Always use the lowest possible pressure of flushing.
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

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 tip or 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 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.
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 Safety Lock (14).
6. Make sure Safety Lock (14) is in "locked" position. Do not turn on the pump power or operate spray gun if Safety Lock is not operating properly.

MAINTENANCE

With proper care, your AA27H-- 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 #AB27H-Kit-Spare (for 27H) and # AB27H-SS-Kit-Spare (for 27H-SS)).

DISASSEMBLY PROCEDURE: (See Fig. 1 and Parts List PL27H)

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

1. Make sure all air, electrical and liquid lines 10 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 Safety Lock (14) in locked position.
4. Remove gun from hose.
5. Unlock trigger and pull back slightly. Remove Cap (1), Spray Tip (2) and Valve Seat (3).
6. Remove Locknut (18) and Washer (19).
7. Carefully pull Inlet Body Sub-assembly (4 thru 10) out of Body (17). Do not lose Key (6). To disconnect Trigger Guide (10) from Trigger Rivet (22), tilt Inlet Body Subassembly slightly.
8. Remove Collar (11) from Body (17).
9. Using flats on Inlet Body (5), place Inlet Body Sub-assembly (4 thru 10) in vise.
10. With a wrench on Stem Nut (9) and Trigger Guide (10), remove Trigger Guide. Remove Stem Nut (9).
11. To remove Main Stem Assembly (4), push threaded end of Main Stem Assembly (4) forward. Gently pull Main Stem Assembly out of Inlet Body (5) being careful not to damage Cup Packing (7).
12. Remove Packing Screw (8) and Cup Packing (7) from Inlet Body (5).

To remove item 12 thru 16:

13. Remove Trigger Guard (21).
14. Loosen, but do not remove, Set Screw (15).
15. Pull Trigger (20) forward and remove Safety Lock Screw (13) with Spring Stud (12) and Safety Lock Cam (14). Remove Spring (16).

ASSEMBLY PROCEDURE: (See Figure 1 and Parts List PL27H)

If item 12 thru 16 were removed:

1. Pull Trigger (20) forward and install Spring (16) into Body (17). Install Safety Lock Screw (13) with Spring Stud (12) and Safety Lock Cam (14).
2. Tighten Set Screw (15).
3. Install Trigger Guard (21).
4. See "Safety Lock Adjustment" on page 7 after gun is fully assembled.

FIGURE 1

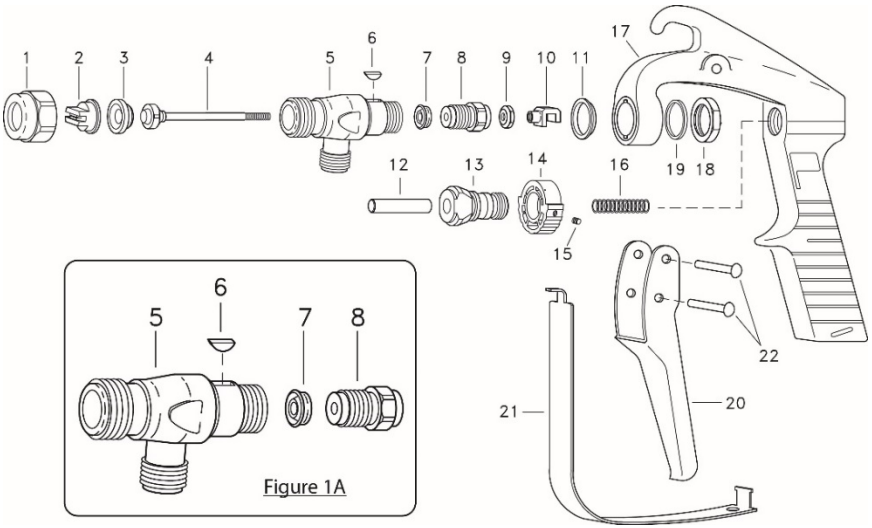


Figure 1A

MAIN ASSEMBLY:

1. Insert Main Stem Assembly (4) through Inlet Body (5).
2. Apply a thin coat of light oil on Cup Packing (7). Carefully "screw" Cup Packing over threads of Main Stem Assembly (4) and slide onto stem.

   IMPORTANT: *Cup Packing* (7) *must be installed in correct direction* (see *Fig. 1a).*

3. Thread Packing Screw (8) into Inlet Body (5). Hold Inlet Body in vise and tighten Packing Screw (8) with wrench. Remove from vise.
4. Thread Stem Nut (9) all the way onto Main Stem Assembly (4). Be sure to install Stem Nut with recess facing away from Inlet Body.
5. Screw Trigger Guide (10) onto Main Stem Assembly (4) until Stem thread is flush with end of Trigger Guide. While holding Trigger Guide (10) with wrench, tighten Stem Nut (9) against Trigger Guide. Rotate Stem Assembly so that opening Trigger Guide faces down. Pull Stem out until stop.
6. Install Collar (11) into Body (17).
7. Install Key (6) onto Inlet Body Sub-assembly (4 thru 10).
8. While holding Washer (19) and Locknut (18) in place at Body (17), insert Inlet Body Sub-assembly (4 thru 10) thru hole in Body (17), Washer (19) and Locknut (18). Tilt Inlet Body Sub-assembly slightly and engage Trigger Guide (10) over Trigger Rivet (22). Finish inserting Inlet Body Sub-assembly into Body (17).
9. Install Washer (19) over Inlet Body. Attach and tighten Locknut (18).
10. With Safety Lock (14) in "open" position, pull back on Trigger (20). Install Valve Seat (3), Spry Tip (2) and Cap (1). Release Trigger.
11. Rotate Safety Lock (14) into "locked" position. There should be no stem movement. If stem movement occurs, re-adjust Safety Lock: See "Safety Lock Adjustment".

REPLACEMENT OF CUP PACKING (7):

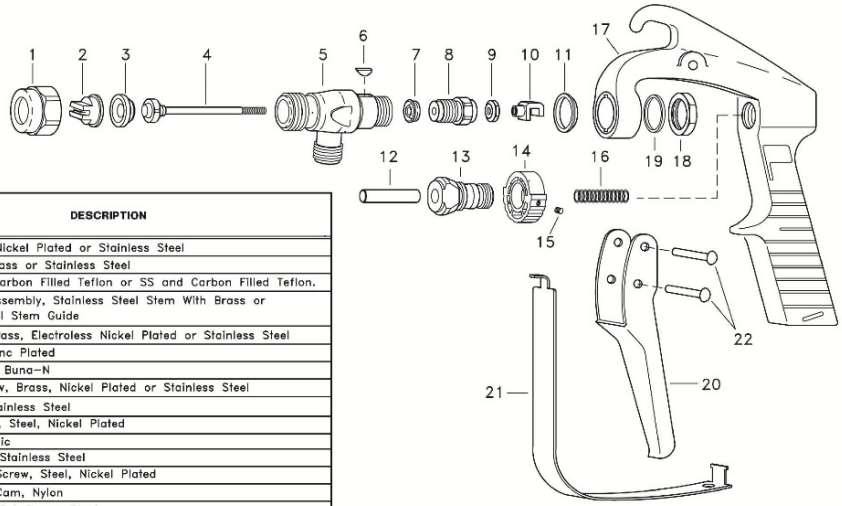
Steps 1 thru 12 of Disassembly procedure and steps 1 thru 11 of Assembly Procedure.

SAFETY LOCK ADJUSTMENT:

The operation of the safety lock should be checked before each spray period or after a disassembly/reassembly procedure has been performed. Under no circumstances should this spray gun be operated with an incorrectly adjusted safety lock.

The Safety Lock (14) is correctly adjusted when there is no stem travel with Safety Lock is in the "locked" position and trigger operation is attempted. A visual check can be made by detecting no Stem Nut (9) movement while pulling Trigger. If movement occurs, follow steps below:

1. Loosen Set Screw (15) in Safety Lock Cam (14).
2. Take a half turn on Safety Lock Screw (13) in a clockwise direction so that the flat sides are parallel to the sides of the Trigger (20).
3. Rotate Safety Lock Cam (14) counter-clockwise (in the "open" position) as far as it will go. Tighten Set Screw (15).
4. Rotate Safety Lock clockwise (to the "locked" position) and test Trigger (20). If no movement occurs, Safety Lock is properly adjusted. If Trigger moves, repeat steps 1, 2 and 3 above.



	ITEM	PART NO. AA27H	PART NO. AA27H-SS	DESCRIPTION
	1	CP7890–NP	CP7890–SS	Cap, Brass, Nickel Plated or Stainless Steel
	2	TP**	TP**–SS	Spray Tip, Brass or Stainless Steel
*	3	CP7490–CTEF	CP7490–SSCTEF	Valve Seat, Carbon Filled Teflon or SS and Carbon Filled Teflon.
*	4	CP7482–1–BR302S	CP7482–1–SS302S	Main Stem Assembly, Stainless Steel Stem With Brass or Stainless Steel Stem Guide
	5	CP16072–ENP	CP16060–SS	Inlet Body, Brass, Electroless Nickel Plated or Stainless Steel
	6	CP7892–IZP	CP7892–IZP	Key, Steel, Zinc Plated
*	7	CP14255–1–BU	CP14255–1–BU	Cup Packing, Buna–N
	8	CP16071–NP	CP16071–SS	Packing Screw, Brass, Nickel Plated or Stainless Steel
	9	CP7484–SS	CP7484–SS	Stem Nut, Stainless Steel
	10	CP7481–INP	CP7481–INP	Trigger Guide, Steel, Nickel Plated
*	11	CP13328–PHE	CP13328–PHE	Collar, Phenolic
	12	CP7491–SS	CP7491–SS	Spring Stud, Stainless Steel
	13	CP9421–INP	CP9421–INP	Safety Lock Screw, Steel, Nickel Plated
	14	CP39698–NY	CP39698–NY	Safety Lock Cam, Nylon
	15	CP9423–I	CP9423–I	Socket Head Set Screw, Steel
*	16	CP16053–2–302SS	CP16053–2–302SS	Main Spring, Type 302 Stainless Steel
	17	CP16054–1–AL	CP16054–1–AL	Body, Aluminum
	18	CP13329–IZP	CP13329–SS	Lock Nut, Steel, Zinc Plated or Stainless Steel
*	19	CP13327–PHE	CP13327–PHE	Washer, Phenolic
	20	CP14252–INP	CP14252–INP	Trigger, Steel, Nickel Plated
	21	CP9539–INP	CP9539–INP	Trigger Guard, Steel, Nickel Plated
	22	CP8038–SS	CP8038–SS	Rivet, Stainless Steel (2 Req'd)
		AA27H, GunJet® Spray Gun, For Pressures up to 1000 PSI		
		AA27H–SS, GunJet® Spray Gun, For Pressures up to 1000 PSI		

AB27H–Kit–Spare Parts Kit (For 27H) Includes all items marked with *
AB27H–SS–Kit–Spare Parts Kit (For 27H–SS) Includes all items marked with *
**Specify Spray Tip Size Required

DESCRIPTION:
NO. AA27H AND AA27H-SS GUNJET® SPRAY GUNS

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

Rev. No. 3
Ref.

Parts List No.
PL 27H AND 27HSS
SHEET OF

RECORDS / NOTES

DATE:	DESCRIPTIONS

Spraying Systems Co.®
Experts in Spray Technology

North Avenue and Schmale Road, P.O. Box 7900,
Wheaton, IL 60187-7901

Tel: 1.800.95.SPRAY
Fax: 1.888.95.SPRAY

Intl. Tel: 1.630.665.5000
Intl. Fax: 1.630.260.0842

www.spray.com

ISO 9001:2015 14001:2015 CERTIFIED

MI-AA27