



**POLYURETHANE  
MACHINERY  
CORPORATION**



# **SOLVENT FLUSH KIT**

*ONE QUART*

**200216**

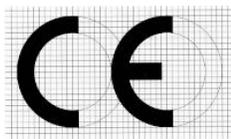
**200217**

**For use with Plural Component  
Spray Guns  
For Professional Use Only  
Not approved for use in explosive  
atmosphere locations**

**Ref. # MN-04023**

**Revision 1.0**

**April 1, 2016**



## **Polyurethane Machinery Corp.**

**Corporate:** 1 Komo Dr, Lakewood, NJ 08701

**Manufacturing:** 2 Komo Dr, Lakewood, NJ 08701

**Phone:** 732-415-4400

**Fax:** 732-364-4025

**URL:** <http://www.polymacusa.com>



**Before using the Solvent Flush Kit, carefully read all the technical and safety documentation included in this manual. Pay special attention to the information in order to know and understand the operation and the conditions of use of the Solvent Flush Kit. All of the information is aimed at improving user safety and avoiding possible breakdowns from the incorrect use of the Solvent Flush Kit.**

---

## **TABLE OF CONTENTS**

<b>WARRANTY .....</b>	<b>1</b>
<b>SAFETY AND HANDLING .....</b>	<b>3</b>
<b>TECHNICAL SPECIFICATIONS .....</b>	<b>5</b>
<b>DESCRIPTION .....</b>	<b>6</b>
<b>FILL PROCEDURE .....</b>	<b>7</b>
<b>OPERATION .....</b>	<b>8</b>
<b>TROUBLESHOOTING .....</b>	<b>9</b>
<b>PART IDENTIFICATION .....</b>	<b>10</b>
Solvent Flush Kit, 1 Quart, AP .....	10
Solvent Flush Kit, 1 Quart, F-AP .....	11
Coupling Block Assembly, Flush Kit, AP .....	12
Coupling Block Assembly, Flush Kit, F-AP .....	13

---

## **WARRANTY**

Polyurethane Machinery Corporation (hereinafter “PMC”) provides this **LIMITED WARRANTY** (hereinafter “Warranty”) to the original purchaser (hereinafter “Customer”) covering this equipment and the original PMC manufactured accessories delivered with the equipment (hereinafter “Product”) against defects in material or workmanship of the Product (hereinafter “Defect” or “Defective”) for a period of one (1) year from the date of first purchase as shown on the original PMC invoice (hereinafter “Warranty Period”).

If during the Warranty Period under normal use, the Product is suspected by Customer to be Defective in material or workmanship, it is Customer’s responsibility to contact PMC and return the Product to PMC as directed by PMC, freight prepaid. If PMC determines that the Product is Defective and that such Defect is covered by this Warranty, PMC will credit Customer for the reasonable freight charges incurred by Customer in returning the Defective Product to PMC, and PMC (or its authorized agent) will, at PMC’s option, repair or replace the Product, subject to the following:

Original Invoice: The original invoice must be kept as proof of the date of first sale and the Product serial number. The Warranty does not cover any Product if the Original Invoice appears to have been modified or altered, or when the serial number on the Product appears to have been altered or defaced.

Product Maintenance: It is the Customer’s responsibility to maintain the Product properly. See your maintenance schedule and owner’s manual for details. The Warranty does not cover an improperly maintained Product.

Non-PMC Components and Accessories: Non-PMC manufactured components and accessories that are used in the operation of the Product are not covered by this Warranty. Such components and accessories shall be subject to the warranty offered to the Customer, if any, by the original manufacturer of such component or accessory.

Other Warranty Exclusions: The Warranty does not cover any Product that PMC determines has been damaged or fails to operate properly due to misuse, negligence, abuse, carelessness, neglect, or accident. By way of example only, this includes:

- Normal wear and tear.
- Improper or unauthorized installation, repair, alteration, adjustment or modification of the product.
- Use of heating devices, pumping equipment, dispensers, or other parts or accessories with the product that have not been approved or manufactured by PMC.
- Failure to follow the operating instructions and recommendations provided by PMC.
- Cosmetic damage.
- Fire, flood, “acts of God,” or other contingencies beyond the control of PMC.

**THE WARRANTY DESCRIBED HEREIN IS THE EXCLUSIVE REMEDY FOR THE CUSTOMER AND IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS, IMPLIED, STATUTORY OR OTHERWISE, AND THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE AND ALL OTHER WARRANTIES ARE HEREBY DISCLAIMED. TO THE FULLEST EXTENT PERMITTED BY LAW, PMC SHALL NOT BE RESPONSIBLE, WHETHER BASED IN CONTRACT, TORT (INCLUDING, WITHOUT LIMITATION, NEGLIGENCE), WARRANTY OR ANY OTHER LEGAL OR EQUITABLE GROUNDS, FOR ANY CONSEQUENTIAL, INDIRECT, INCIDENTAL, LOST PROFITS, SPECIAL, PUNITIVE OR EXEMPLARY DAMAGES, WHETHER TO PERSON OR PROPERTY, ARISING FROM OR RELATING TO THE PRODUCT, EVEN IF PMC HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH LOSSES OR DAMAGES.**

Non-Warranty Service by PMC: If PMC determines that the suspected Defect of the Product is not covered by this Warranty, disposition of the Product will be made pursuant to the terms and conditions of PMC's written estimate on a time and materials basis.

Continuing Warranty for Products Repaired or Replaced under Warranty: Following the repair or replacement of a Product covered by this Warranty, such Product will continue to be subject to the original Warranty for the remainder of original Warranty Period or for three (3) months from the repair or replacement date, whichever is longer.

No Rights Implied: Nothing in the sale, lease or rental of any Product by PMC shall be construed to grant any right, interest or license in or under any patent, trademark, copyright, trade secret or other proprietary right or material owned by anyone; nor does PMC encourage the infringement of same.

Exclusive Warranty: This writing is the final, complete, and exclusive expression of the Warranty covering the Product. Any statements made by PMC, its employees or agents that differ from the terms of this Warranty shall have no effect. It is expressly understood that Customer's acceptance of this Warranty, by performance or otherwise, is upon and subject solely to the terms and conditions hereof, and any additional or different terms and conditions proposed or expressed by Customer or anyone, whether in writing or otherwise, are null and void unless specifically agreed to in writing by an Officer of PMC.

## **SAFETY AND HANDLING**

This chapter contains important information on the safety, handling, and use of your Solvent Flush Kit.



**Before using the Solvent Flush Kit, carefully read all the technical and safety documentation included in this manual. Pay special attention to the information in order to know and understand the operation and the conditions of use of the Solvent Flush kit. All of the information is aimed at improving user safety and avoiding possible breakdowns from the incorrect use of the Solvent Flush Kit.**

***WARNING!*** *Presents information to alert of a situation that might cause serious injuries if the instructions are not followed.*

***CAUTION!*** *Presents information that indicates how to avoid damage to the equipment or how to avoid a situation that could cause minor injuries.*

***NOTE!*** *Is relevant information of a procedure being carried out.*

Careful study of this manual will enable the operator to know the characteristics of the Solvent Flush Kit and the operating procedures. By following the instructions and recommendations contained herein, you will reduce the potential risk of accidents; you will provide a better opportunity for incident-free operation for a longer time, greater output, and the possibility of detecting and resolving problems quickly and simply.

Keep this Operations Manual for future consultation of useful information at all times. If you lose this manual, ask for a new copy from your PMC Distributor or go online and visit our web site at [www.polymacusa.com](http://www.polymacusa.com).

Always use liquids and solvents that are compatible with the unit. If in doubt, consult your PMC Distributor.

When working with the Solvent Flush Kit, it is recommended that the operator wear suitable clothing and elements of personal protection, including, without limitation, gloves, protective goggles, safety footwear, and face masks. Use breathing equipment when working with the Solvent Flush Kit in enclosed spaces or in areas with insufficient ventilation. The introduction and follow-up of safety measures must not be limited to those described in this manual. Before using the Solvent Flush Kit, a comprehensive analysis must be made of the risks derived from the products to be dispensed, the type of application, and the working environment.



***To prevent possible injury caused by incorrect handling of the raw materials and solvents used in the process, carefully read the Material Safety Data Sheet (MSDS) provided by your supplier.***

***Deal with the waste caused according to current regulations.***



***To avoid damage caused by the impact of pressurized fluids, do not open any connection or perform maintenance work on components subject to pressure until the pressure has been completely eliminated.***



***Use suitable protection when operating, maintaining or being present in the area where the equipment is functioning. This includes, but is not limited to, the use of protective goggles, gloves, shoes and safety clothing and breathing equipment.***



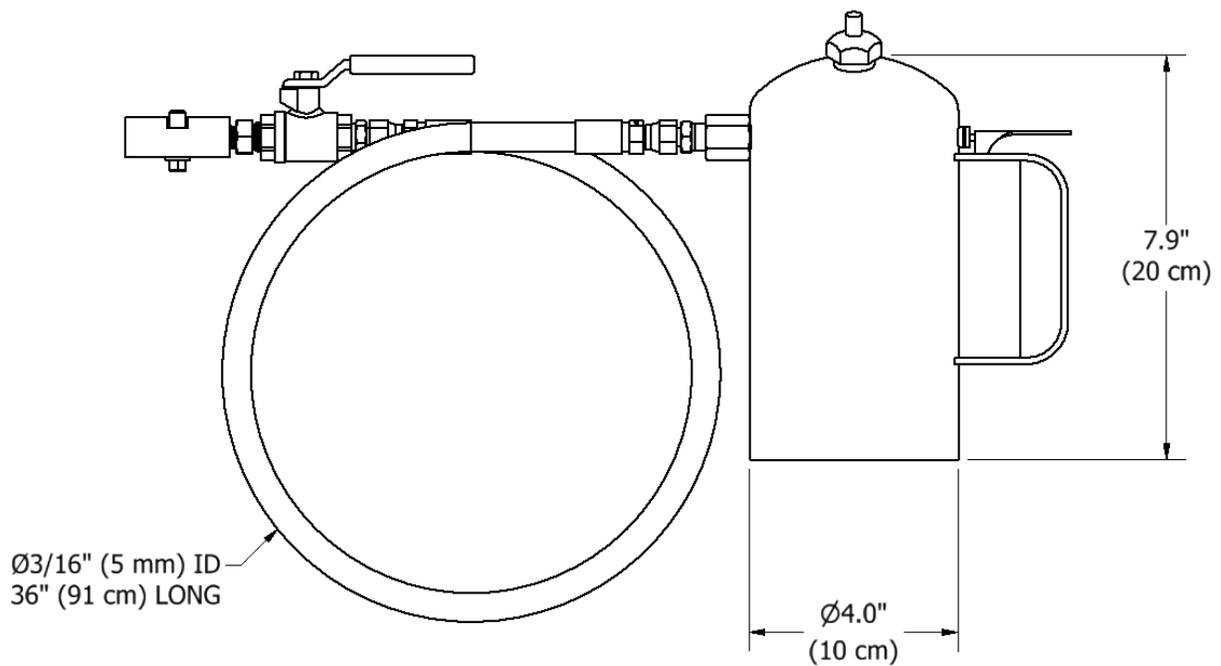
***The equipment includes components that reach high temperatures and can cause burns. Hot parts of the equipment must not be handled or touched until they have cooled completely.***



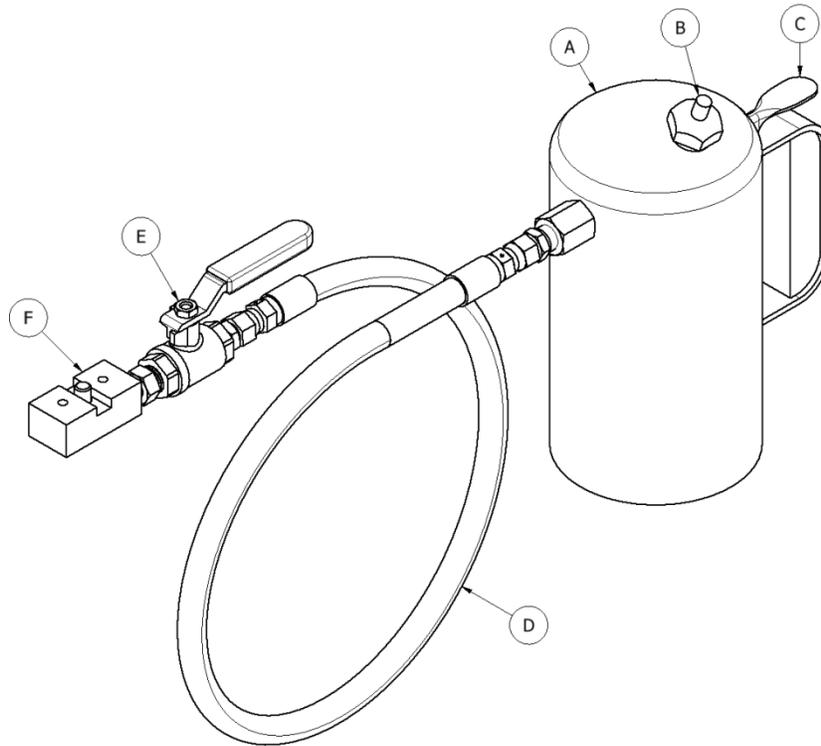
***To prevent serious injury through crushing or amputation, do not work with the equipment without the safety guards installed on the moving parts. Make sure that all the safety guards are correctly reinstalled at the end of the repair or maintenance work of the equipment.***

## TECHNICAL SPECIFICATIONS

Capacity \_\_\_\_\_ 32 fl oz (946 mL)  
Operating Pressure Range \_\_\_\_\_ 80-150 PSI (5.5-10.3 bar)  
Max Air Pressure \_\_\_\_\_ 200 PSI (13.8 bar)  
Air Supply Connection \_\_\_\_\_ Schrader Valve  
Solvent Hose \_\_\_\_\_ SAE 100R7



## **DESCRIPTION**



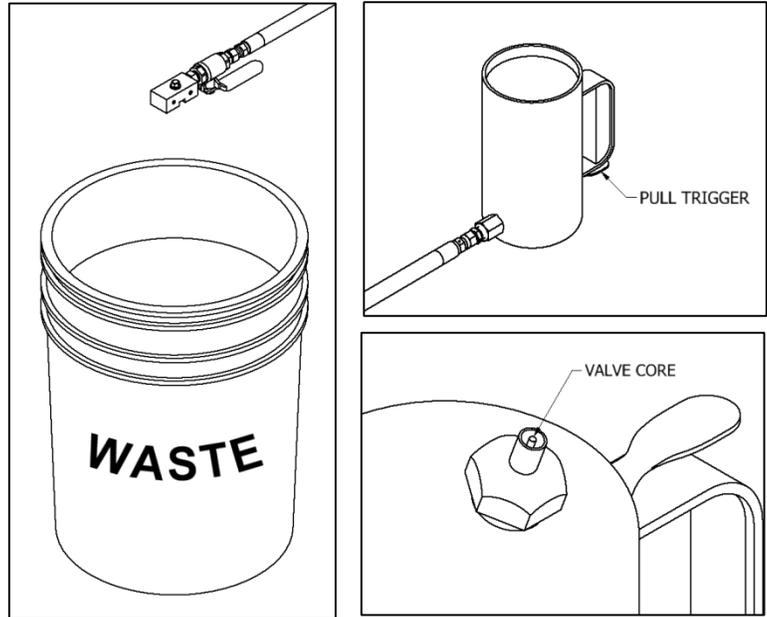
- A. Canister**
- B. Fill Cap/Schrader Valve**
- C. Trigger**
- D. Solvent Hose**
- E. Ball Valve**
- F. Flushing Coupling Block**

## FILL PROCEDURE

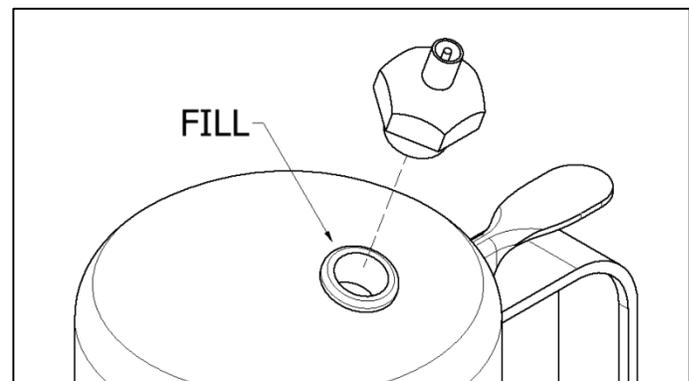
***WARNING!*** Do not remove any parts while the Solvent Flush Kit is pressurized. Always relieve pressure before filling.

1. If necessary, relieve the air pressure from the **Canister**:

- a. Point the **Flushing Coupling Block** into a waste container.
- b. Open the **Ball Valve**.
- c. Hold the **Canister** upside down.
- d. Pull the **Trigger** to purge any remaining fluid.
- e. Place the **Canister** right-side up.
- f. Depress the **Valve Core** to completely relieve air pressure.



2. Remove the **Fill Cap** with a 15/16" wrench.
3. Fill the **Canister** with no more than 32 fl oz (946 mL) of solvent or gun cleaner.
4. Tighten the **Fill Cap**.
5. Check the pressure of your air supply before pressurizing. Pressurize the **Canister** with no less than 80 PSI (5.5 bar) and no more than 150 PSI (10.3 bar).



***WARNING!*** Do not exceed 200 PSI (13.8 bar) of air pressure. Always check the pressure of the air supply before pressurizing.

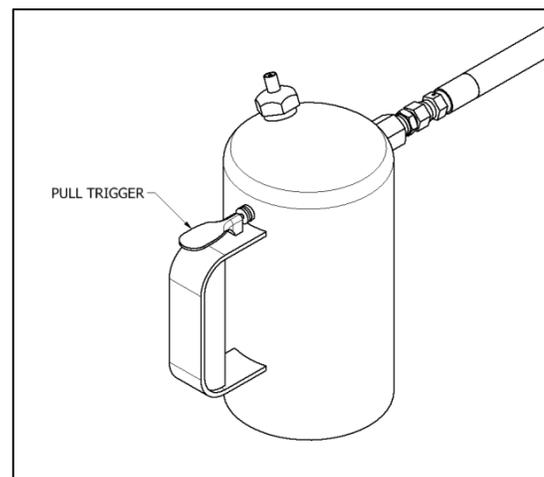
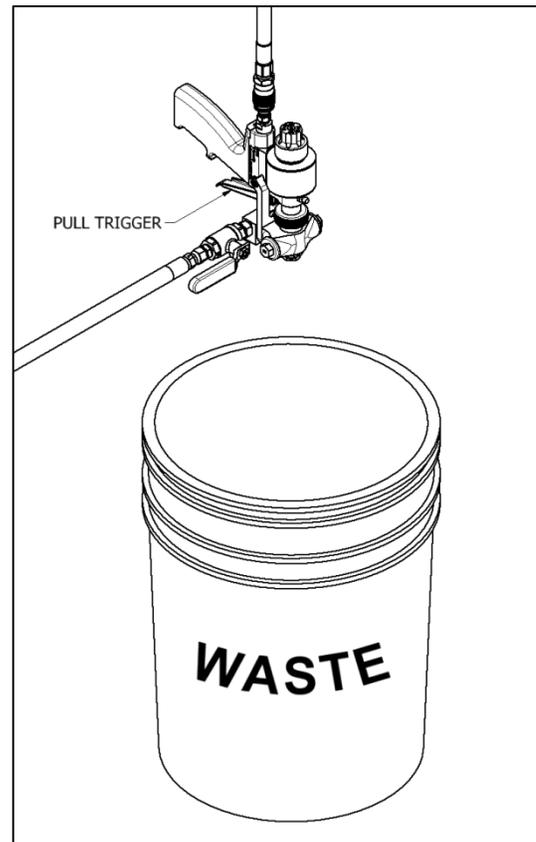
## OPERATION

***WARNING!*** Do not remove any parts while the Solvent Flush Kit is pressurized. Always relieve pressure before operating.

1. Close the Manual Valves on your coupling block.

***CAUTION!*** Excessive force opening or closing Manual Valves may result in damage to the Manual Valves and/or Coupling Block.

2. Remove your coupling block from the **Spray Gun**.
3. Connect the **Flushing Coupling Block** to your **Spray Gun**.
4. Connect the air supply to **Spray Gun** and disengage the lock.
5. Point the **Spray Gun** into a waste container.
6. Open the **Ball Valve**.
7. Simultaneously, pull both the **Trigger** on the **Spray Gun** and **Trigger** on the **Canister** for about 10 seconds.
8. Release the **Trigger** on the **Canister**, but continue pulling the **Trigger** on the **Spray Gun**.
9. When the **Spray Gun** stops spraying pressurized fluid (fluid will continue to drip out but will not spray out), release the **Trigger** on the **Spray Gun**.
10. Close the **Ball Valve** and remove the **Spray Gun** from the **Flushing Coupling Block**.
11. Reattach the **Standard Coupling Block** to the **Spray Gun**.



## TROUBLESHOOTING

***WARNING! Do not remove any parts while the Solvent Flush Kit is pressurized. Always relieve pressure before troubleshooting.***

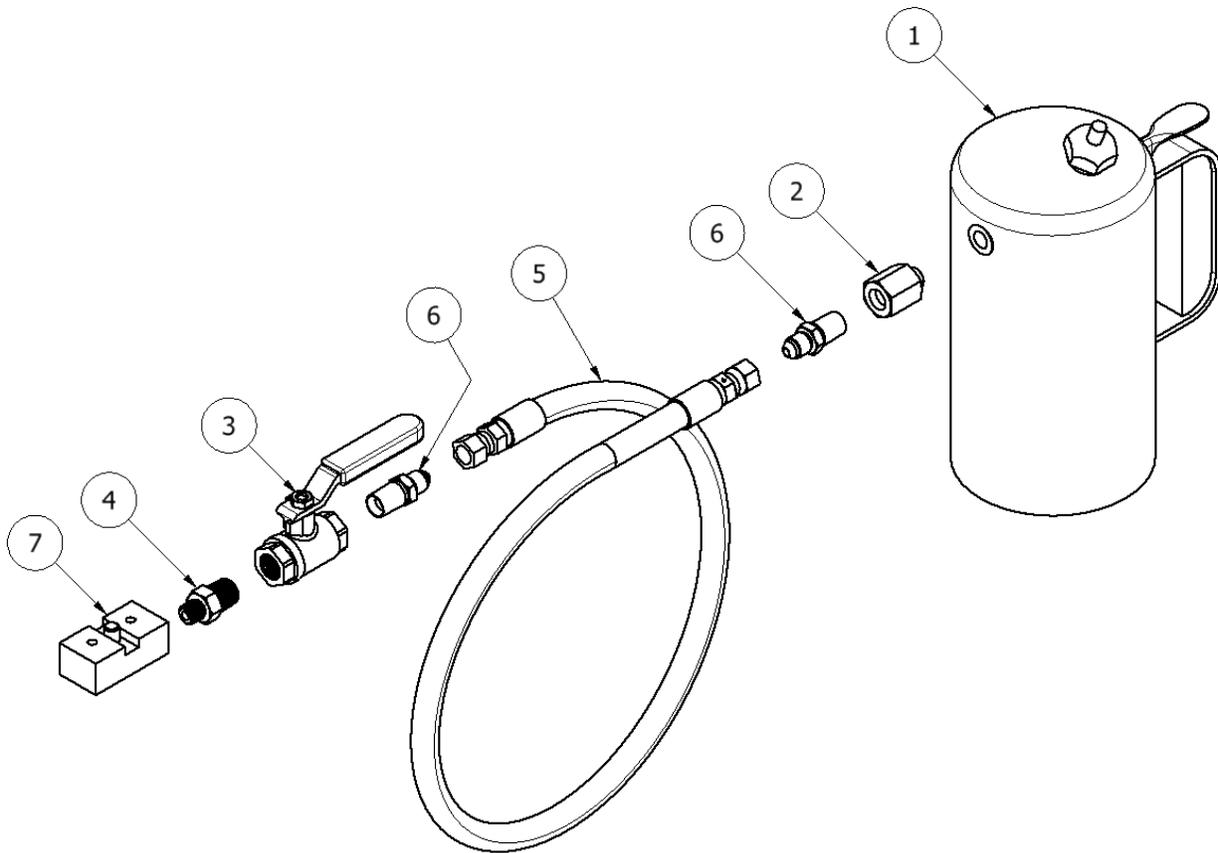
If the Solvent Flush Kit fails to operate, check the following possible causes and solutions:

<b>Troubleshooting Chart</b>	
<b>CAUSE</b>	<b>SOLUTION</b>
Too much fluid in sprayer	Remove contents until no more than 32 fl oz (946 mL) of fluid remains.
Low air pressure	Ensure a minimum of 80 PSI (5.5 bar) of air pressure is supplied.
Restricted or blocked path	Certain parts (screen screws, mixing chamber, coupling block) are more susceptible to material build up and/or clogging. If necessary, clean and/or replace any parts that are causing a restriction or blockage.

## PART IDENTIFICATION

### Solvent Flush Kit, 1 Quart, AP

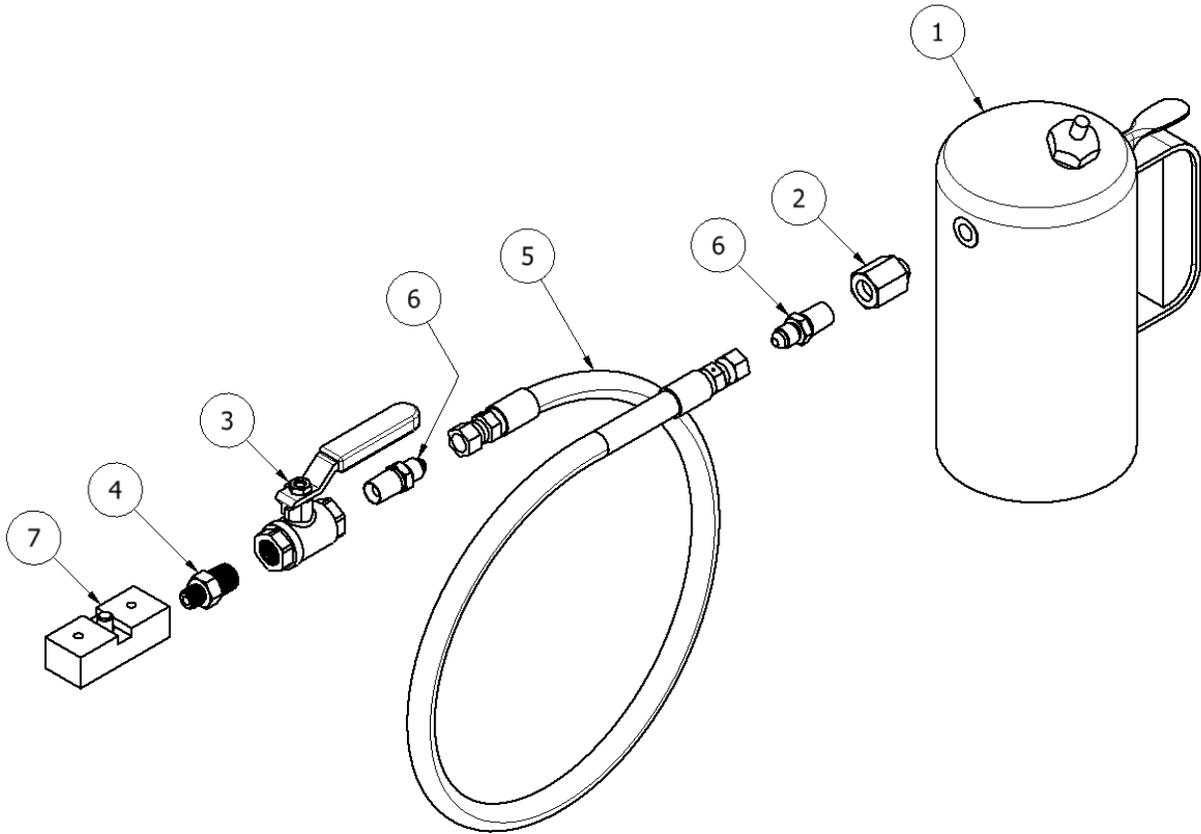
(200216)



<b>PART LIST</b>			
<b>ITEM</b>	<b>QTY</b>	<b>PART NUMBER</b>	<b>DESCRIPTION</b>
1	1	200215	QUART SPRAYER
2	1	200213	FITTING, QT FLUSH POT
3	1	HI-05082	BALL VALVE
4	1	HI-05095	1/4 X 1/8 HEX NIPPLE
5	1	MA-51	HOSE; 36" HIGH PRESSURE
6	2	HI-05064	FITTING 1/4 NPTM X #4 JIC MALE
7	1	HI-05106	COUPLING BLOCK ASSEMBLY, FLUSH KIT, AP

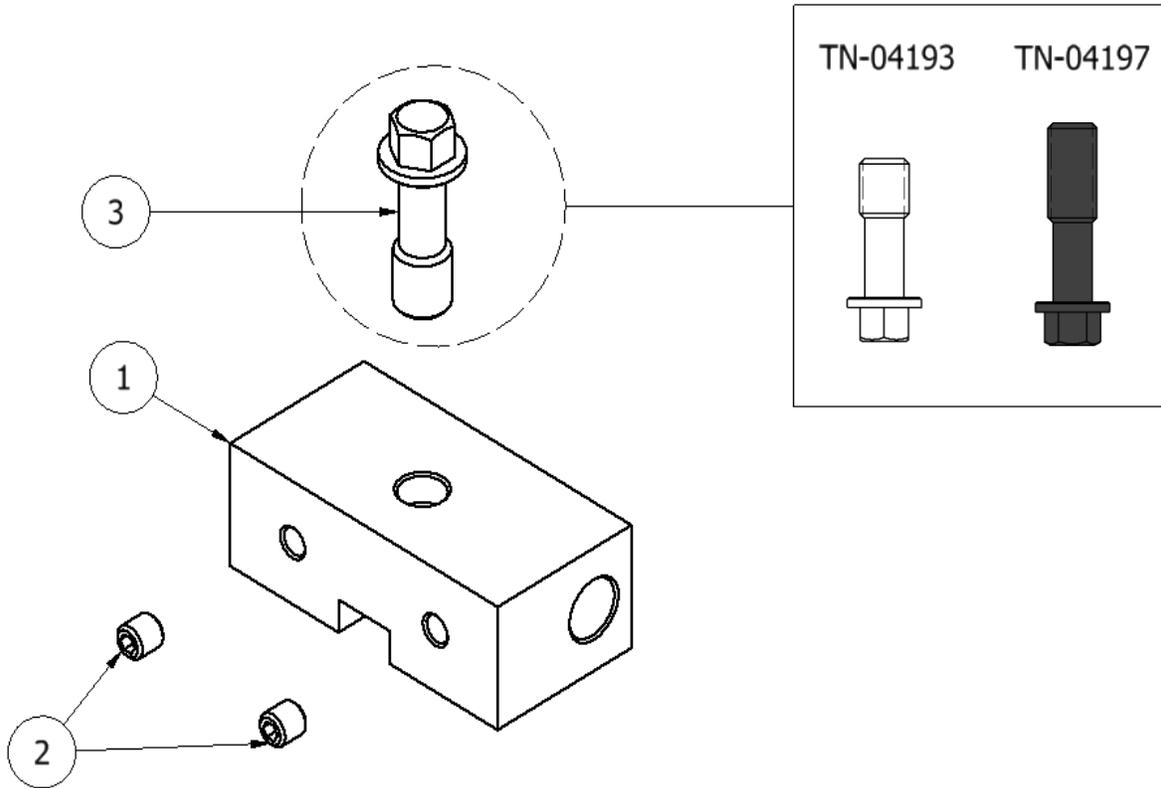
## Solvent Flush Kit, 1 Quart, F-AP

**(200217)**



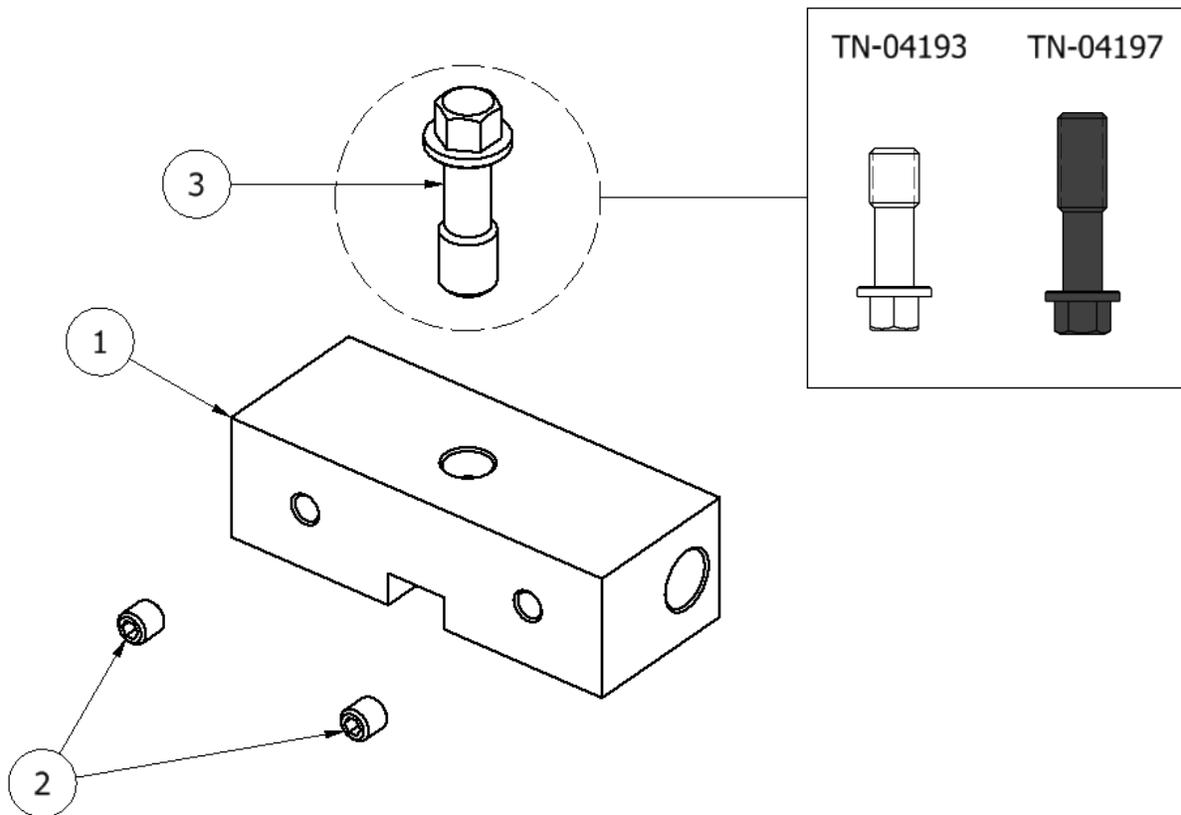
<b>PART LIST</b>			
<b>ITEM</b>	<b>QTY</b>	<b>PART NUMBER</b>	<b>DESCRIPTION</b>
1	1	200215	QUART SPRAYER
2	1	200213	FITTING, QT FLUSH POT
3	1	HI-05082	BALL VALVE
4	1	HI-05095	1/4 X 1/8 HEX NIPPLE
5	1	MA-51	HOSE; 36" HIGH PRESSURE
6	2	HI-05064	FITTING 1/4 NPTM X #4 JIC MALE
7	1	200218	COUPLING BLOCK ASSEMBLY, FLUSH KIT, F-AP

**Coupling Block Assembly, Flush Kit, AP**  
**(HI-05106)**



<b>PART LIST</b>			
<b>ITEM</b>	<b>QTY</b>	<b>PART NUMBER</b>	<b>DESCRIPTION</b>
1	1	RM-05106	COUPLING BLOCK, FLUSH KIT, AP
2	2	TN-04187	SHCS 10-32 X 3/16 PORT PLUG
3	1	TN-04193	COUPLING BLOCK MOUNTING SCREW
	1	TN-04197	COUPLING BLOCK MOUNTING SCREW

**Coupling Block Assembly, Flush Kit, F-AP**  
**(200218)**



PART LIST			
ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	200214	COUPLING BLOCK, FLUSH KIT, F-AP
2	2	TN-04187	SHCS 10-32 X 3/16 PORT PLUG
3	1	TN-04193	COUPLING BLOCK MOUNTING SCREW
	1	TN-04197	COUPLING BLOCK MOUNTING SCREW