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Front Trigger Spray Nozzle

Model: FT18-SR



Installation / Operation / Maintenance Instruction

Instruction No.:

1041 Rev. A

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Approved:

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PRODUCT WARRANTY

ARCHON Industries Inc., warrants its products, as designed and manufactured by ARCHON, to be free of defects in material and workmanship for a period of one year after the date of installation or eighteen months after the date of manufacture, whichever is earliest.

ARCHON will, at its option, replace or repair any products that fail during the warranty period due to defective material or workmanship.

Prior to submitting any claim for warranty service, the owner must submit proof of purchase to ARCHON and obtain written authorization to return the product. Thereafter, the product shall be returned to ARCHON in Suffern, New York, with freight prepaid.

This warranty shall not apply if the product has been disassembled, tampered with, repaired or altered outside of the ARCHON factory, or if it has been subjected to misuse, neglect or abuse.

ARCHON's responsibility hereunder is limited to repairing or replacing the product at its expense. ARCHON shall not be liable for loss, damage, or expenses directly or indirectly related to the installation or use of its products, or from any other cause or for consequential damages. It is expressly understood that ARCHON is not responsible for damage or injury caused to other products, building, property or persons by reason of the installation or use of its products.

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This document and the warranty contained herein may not be modified and no other warranty, expressed or implied, shall be made by or on behalf of ARCHON unless modified or made in writing and signed by the President or a Vice President of ARCHON.

WARNINGS AND SAFETY PRECAUTIONS

IMPORTANT: READ ALL INSTRUCTIONS BEFORE USING SPRAY NOZZLE

- For water use only.
- Before spraying, nozzle must be pointed in direction of arrow shown on side of nozzle.
- If spray nozzle assembly is equipped with trigger lock ring, the ring must be released before spraying operation is finished.
- Proper clothing and eye protection should always be worn by operator and people in spray areas.

- ***DO NOT*** use with steam service.
- ***DO NOT*** point spray nozzle at any person or any part of body. High temperature liquids under spraying pressures can cause serious burns or injury.
- ***DO NOT*** exceed 200° F (93° C) temperature.
- ***DO NOT*** exceed 200 psi.
- ***DO NOT*** drop nozzle on trigger as this may actuate hot spray onto personnel.

INTRODUCTION

The model FT18 spray nozzle is a heavy-duty, impact resistant spray nozzle with a stainless steel body and a replaceable synthetic rubber cover. The Model FT18 spray nozzle provides a variable liquid spray from a hollow cone to a stream spray pattern by trigger control. The light trigger pull provides sensitive spray pattern control. The heat resistant rubber body cover remains comfortable at high liquid temperatures. The Model FT18 spray nozzle inlet connection is 1/2" NPT, and will accommodate inlet swivel connectors with 3/4" garden hose thread (F), 5/8" or 3/4" hose shank inlet connections.

SYSTEM DESCRIPTION

Features of the Model FT18 Spray Nozzles:

- Maximum pressure and temperature: 200 psi at 200° F
- Single piece stainless steel body
- Stainless Steel valve stem
- Viton valve seat and Buna O-ring seals
- Comfortable hand grip
- Easy operation - designed to reduce fatigue
- Replaceable rubber body cover provides temperature insulation and protects spray nozzle from extensive wear
- Easy repair - all components are user serviceable

INSTALLATION

1. Ensure water supply valve is off. Attach FT18 spray nozzle to a hose that has a pressure and temperature rating meeting that of your anticipated maximum supply pressure and temperature.
2. Examine all connections, making sure they are of proper type and are secure and leak-proof.
3. Holding the FT18 spray nozzle in a downward vertical position with arrows pointed away from the body, turn on the water supply valve.
4. After checking that all safety precautions have been taken, begin spraying by slowly squeezing the trigger.

MAINTENANCE

With proper care, your Model FT18 spray nozzle will give you reliable service. To maintain performance, parts should be inspected regularly and replaced when necessary with genuine ARCHON parts.

DISASSEMBLY PROCEDURE

If it becomes necessary to disassemble this unit, please use the following steps as a guide:

1. Ensure water supply valve is off. Release all hose pressure and liquid from the hose to the FT18 spray nozzle by operating trigger unit until water ceases to flow.
2. Disconnect the FT18 spray nozzle from the supply connection.
3. Remove RUBBER COVER (8) by firmly pushing up on the front end of the cover until it clears the BODY (1). Then remove the cover by sliding back until it clears the body.
4. Remove SCREW (15) using 7/64 hex wrench.
5. Remove NOZZLE RING (4) using a 1-1/4" wrench, rotating counter-clockwise to loosen (right hand thread). If deemed necessary, remove O-RING (28), then remove from GUARD (10).
6. Loosen ADAPTER (9) by partially unscrewing from BODY(1). GUARD (10) can now be repositioned out of the way.
7. While gently gripping the exposed STEM (3K) and rotating the ADJUSTMENT KNOB (6) counter-clockwise to remove, gently pull the stem and spring out of the BODY (1).
8. Now that the stem and spring have been removed, carefully remove the cartridge assembly by pushing forward through the rear stem opening in BODY (1), using a narrow rod. Be careful not to damage BUSHING (5).
9. The STEM ASSEMBLY (3K) components have now been removed. Use only original replacement parts purchased directly from ARCHON Industries.
10. If necessary, the ADJUSTMENT KNOB (6), can be removed by first removing the two RETAINING RINGS (29). This knob can now be separated from the LINKAGE (7).
11. The LINKAGE can be further removed by removing SCREW (20) and POST (11).
12. The GRIP (12) can be removed if necessary, by sliding down to separate from BODY (1).

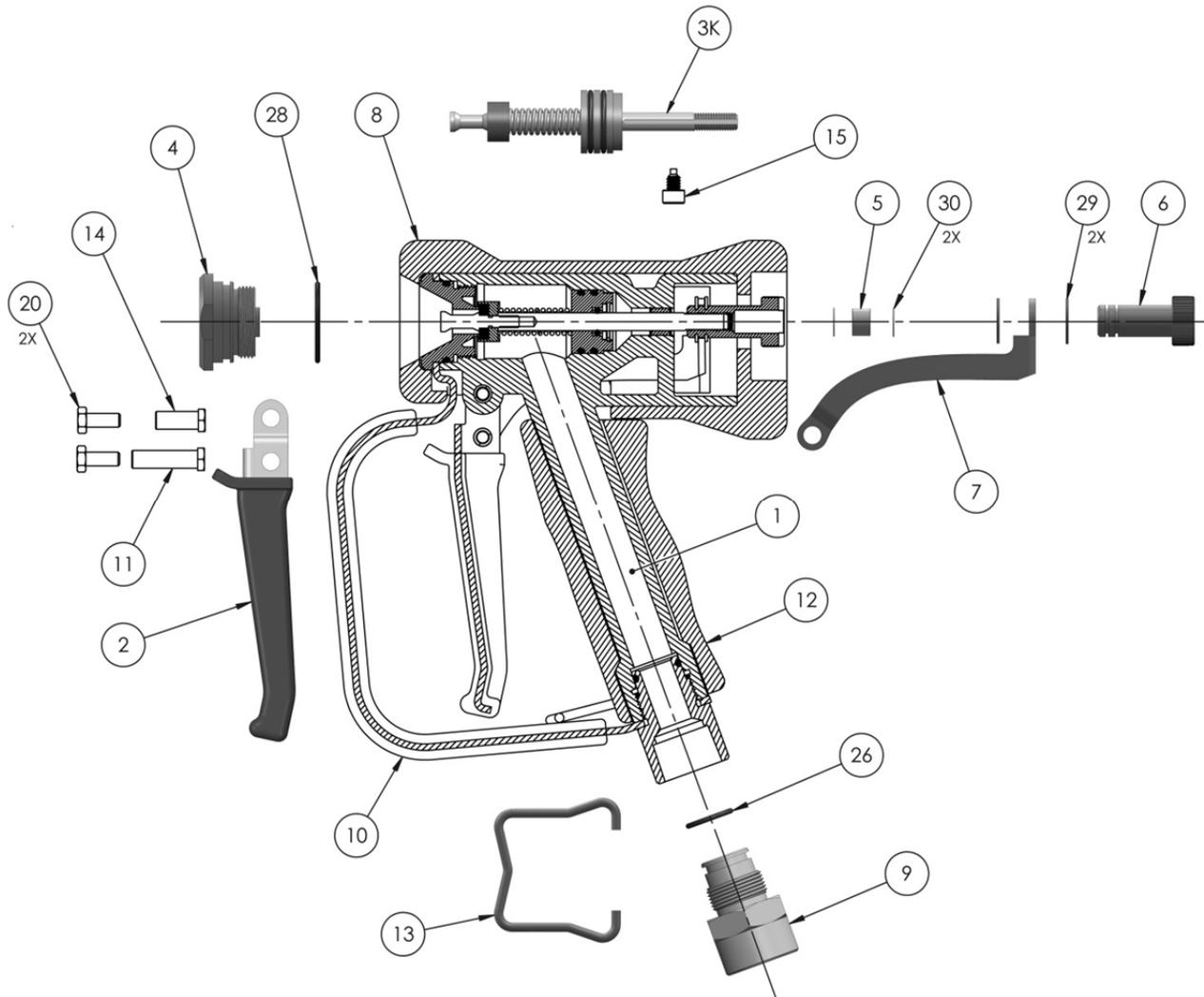
ASSEMBLY PROCEDURE

Before reassembling the FT18 spray nozzle apply a moisture resistant valve lubricant such as Dow Corning MOLYKOTE 111 to all O-rings & seals.

When reassembling the FT18 spray nozzle, apply LOCTITE 243 to SCREWS (20) prior to assembling with POST (11) & POST (14).

Apply an appropriate ant-seize compound to threaded connections not receiving LOCTITE.

1. Check that the BODY (1) is clean and undamaged, especially interior seal surfaces.
2. Prior to assembling STEM ASSEMBLY (3K), apply lubricant to outer cartridge O-rings per the above recommendation.
3. Insert STEM ASSEMBLY (3K) into BODY (1) and push firmly until the cartridge unit is fully seated in BODY (1).
4. While gently rotating the front stem, install SCREW (15) so the front tip of the screw aligns with the slot in the stem. This will keep the stem from rotating. Tighten SCREW (15).
5. Insert the NOZZLE RING (4) through the corresponding hole in GUARD (10).
6. Install O-RING (28) onto NOZZLE RING (4) and apply lubricant to O-ring per above.
7. Applying pressure to compress the spring, screw threads of NOZZLE RING (4) into threads of BODY (1). Hand tighten only.
8. Install a new O-RING (26) on to ADAPTER (9), pass through hole in GUARD (10) and then install ADAPTER (9) into BODY (1). Carefully position GUARD (10) and tighten.
9. Fully tighten NOZZLE RING (4).
10. Install ADJUSTMENT KNOB (6) using RETAINING RINGS (29), and make sure LINKAGE (7) is secure and tight.
11. Install RUBBER COVER (8) by first inserting the cover over the rear portion of BODY (1). Slide cover forward and then firmly push down over the front of BODY (1).
12. Test the assembled spray nozzle to ensure that it operates correctly.



| PARTS LIST | | | | |
|------------|-------------|----------------------------------|------|------------------------------|
| ITEM NO. | PART NO. | DESCRIPTION | QTY. | QTY IN REBUILD KIT (RK-FT18) |
| 1 | FT18-01 | BODY, FT18 SPRAY NOZZLE | 1 | 0 |
| 2 | FT18-003R | HANDLE, 304SS / NBR RED | 1 | 0 |
| 3K | - | STEM ASSEMBLY, FT18 SPRAY NOZZLE | 1 | 1 |
| 4 | FT18-005 | NOZZLE RING | 1 | 0 |
| 5 | FT18-006 | BUSHING, WHITE DELRIN | 1 | 0 |
| 6 | FT18-007 | ADJUSTING BARREL | 1 | 0 |
| 7 | FT18-008 | LINKAGE, HANDLE | 1 | 0 |
| 8 | FT18-009R | COVER, BODY RED NBR | 1 | 0 |
| 9 | FT18-010 | ADAPTER, ½" NPT | 1 | 0 |
| 10 | FT18-011R | GUARD, HANDLE RED | 1 | 0 |
| 11 | FT18-013 | PIVOT, LOWER | 1 | 0 |
| 12 | FT18-014R | GRIP COVER, HANDLE | 1 | 0 |
| 13 | FT18-015 | RETAINER, HANDLE | 1 | 0 |
| 14 | FT18-016 | PIVOT, UPPER | 1 | 0 |
| 15 | FT18-018 | SCREW, ROTATION PIN | 1 | 0 |
| 20 | RT12-22 | HEX SCREW, 10-32 X 15/32 | 2 | 0 |
| 26 | 56015-003 | O-RING, NBR SIZE 015 | 1 | 1 |
| 28 | 56022-003 | O-RING, NBR SIZE 022 | 1 | 1 |
| 29 | MC98408A136 | RETAINING CLIP, E-STYLE | 2 | 0 |
| 30 | MC92479A720 | RETAINING RING, INTERNAL | 2 | 0 |