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X-10SW Hand-held Sprayer
(Accessory To X-10 OC Chemical Delivery Systems)

Operating and Maintenance Instructions

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Introduction

This manual will prepare site personnel to operate the X-10SW Handheld Sprayer. An orientation and training video can be used in conjunction with this manual. If you feel that additional instruction or procedures are necessary, please contact the factory regarding a training class.

The X-10SW provides the ability to utilize the X-10C chemical cylinder with a handheld sprayer. The X-10SW sprayer has a pressure washer gun-grip handle with replaceable nozzle spray tip. The gun grip handle is furnished with a one-piece high pressure hose and fittings to match the X-10C chemical cylinder. High pressure swivel fittings allow easy wand movement and either right- or left-hand operation. All X-10C safety features are retained. There is only one releasable connector that attaches to the X-10C chemical cylinder. The X-10SW includes a safety chain to retain the high pressure hose should the connector become disconnected under pressure. The X-10C chemical cylinder can be conveniently carried in a washable backpack carrier. The X-10C is easily removed from the carrier for refilling.

Warnings

The X-10SW Hand Held Sprayer must not be used by any officer until that officer has received training in X-10SW operation and the officer has also test fired the X-10SW.

IMPORTANT - The X-10SW is a high pressure gas less-lethal weapon. Careful handling and proper training is required. The X-10SW high pressure hose contains Oleoresin Capsicum (pepper spray) under high pressure when the X-10C valve is opened. The pressure **MUST BE RELEASED BEFORE** the hose is disconnected. When the X-10SW hose is disconnected from the X-10C chemical cylinder, be careful that no pepper spray chemical residue drips from the high pressure hose connector.

Features

- Easy connection to your existing X-10C chemical cylinder
- Can be used with either 1-liter or 2-liter X-10C chemical cylinder
- Quick-disconnect high pressure swivel connectors
- Heavy-duty spray wand and hose assembly
- Pistol-grip handle with safety and interchangeable spray tips
- Choice of replaceable spray tips
- 5-foot “soft-flex” high pressure hose and safety chain
- Washable backpack carrier with adjustable straps and carrying handle

Optional Accessories

5-inch straight bore tip

5-inch “Salinas” wide-angle spray tip

Wide-angle fog tip

26-inch flexible hose tip

Operating Specifications

Spray force: 15 ft. lbs. at 3 feet, using straight bore nozzle
Note: For ballistic test results, contact the factory.

Recommended minimum shooting distance: 5 feet

Do not shoot at head area within 8 feet for “Salinas” tip.

Do not shoot at head area within 12 feet for straight bore tip.

Average shots: 1-liter chemical bottle – 21-1/4-second bursts
2-liter chemical bottle – 47-1/4-second bursts

Continuous spray: 1-liter chemical bottle – 5.6 seconds
2-liter chemical bottle – 12.5 seconds

Shooting distance: 32 feet – straight bore tip, 6-inch, level shooting
43 feet – straight bore tip, 6 inch, +10-degree up shooting
20 feet – “Salinas” wide-spray tip, 6-inch
24 feet – 26-inch flexible hose with 4-inch straight bore tip

Angle of spray: 20 degrees – straight bore tip, 6-inch, level shooting
50 degrees – “Salinas” wide-spray tip, 6-inch
90 degrees – wide-angle fog tip

Connection to X-10C Chemical Cylinder

Verify that the X-10C chemical cylinder valve is closed before attempting to attach the X-10SW hose. Carefully attach the X-10SW hose and verify that the connector is properly seated. Attach the X-10SW safety chain to the hole in the X-10C pressure gauge shroud. Verify that the safety on the spray wand pistol grip has been set before proceeding. **DO NOT** open the X-10C chemical cylinder valve until you are preparing to use the X-10SW sprayer. Pressurize the sprayer by carefully opening the X-10C chemical cylinder valve while observing the built-in pressure gauge. **CAUTION:** ALWAYS point the X-10SW/X-10C connector away from you and in a safe direction before opening the X-10C valve. The X-10C at full pressure should be between 550 psi and 700 psi. An X-10C bottle used with the X-10SW handheld sprayer with 250 psi showing on the gauge can still have up to five remaining shots before refilling.

Preoperational Use

1. Try to talk inmate out of the cell.
2. Evaluate the barricade and the attitude of the inmate.
3. Decide the best location for probe insertion.
4. Assemble officers who will operate X-10SW. Position each for best results depending on the amount of room available on the floor or tier.
5. Inform inmate that you will be using the X-10SW and allow the inmate to come out voluntarily.

Operation of X-10SW Handheld Sprayer

The X-10SW must be used in strict conformation with the Department Operational Procedures.

1. Place the X-10C chemical cylinder in the fabric carrier.
2. Fasten the Velcro flap and hose straps so the bottle cannot slip out of the fabric carrier.
3. Place the carrier on your back in the same manner that you would any backpack.
4. Fasten the chest strap and arrange the hose for either right-hand or left-hand operation as desired.
5. Verify that the spray wand pistol grip safety lever is in the safe position before proceeding. Examine the spray wand tip to be sure that it is properly seated in the quick release connector. If not properly seated, the tip can be shot off the pistol grip with the first chemical shot.
6. If you are using a “Salinas” or wide-angle fog tip, verify that the tip is properly oriented to provide the desired spray pattern.

NOTE: The spray tips can rotate during repeated use or close contact, so check tip orientation before each use.

After Using or When Refilling the X-10SW with X-10C chemical cylinder Attached

After using the X-10SW, immediately close the X-10C chemical cylinder valve to stop further chemical flow to the wand. After closing the X-10C valve, the handheld wand must be sprayed in a

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safe direction to release the remaining hose pressure. The pepper spray residue in the hose may drip if not contained.

Whenever refilling the X-10C chemical cylinder, be sure to follow the procedures contained in the X-10OC Extension Device, Operating and Filling Instructions.

IMPORTANT - The X-10SW is a high pressure gas less-lethal weapon. Careful handling and proper training is required. The X-10SW high pressure hose contains Oleoresin Capsicum (pepper spray) under high pressure when the X-10C valve is opened. The pressure **MUST BE RELEASED BEFORE** the hose is disconnected. When the X-10SW hose is disconnected from the X-10C Chemical Cylinder, be careful that no pepper spray chemical residue drips from the high pressure hose connector.

! WARNING !

ALUMINUM HIGH PRESSURE GAS CYLINDER CONTAINING OLEORESIN CAPSICUM (PEPPER SPRAY)

This device must be operated only by law enforcement personnel trained in its use.

Explosion Hazard: Improper use, filling, storage or disposal may result in personal injury, death or property damage.

Do not alter or modify this cylinder or the valve in any way.

Never fill this cylinder unless it has been hydrostatically tested within 5 years of test or re-test date stamped on the cylinder shoulder.

Never pressurize over the service pressure stamped on the shoulder of the cylinder. Stop filling this cylinder if it leaks. This unit must be filled by properly trained personnel only.

Always secure unit in a cool dry area, out of the reach of children.

Do not expose filled unit to any heat source, flame or condition where the temperature may exceed 130°F. Units exposed to fire or heat in excess of 350°F must be condemned. Units refinished or subjected to elevated temperatures must be hydrostatically tested prior to refilling.

Do not remove, alter or obscure this warning label.

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Limited Warranty

Priax Corporation makes no warranty, expressly or by implication, except as set forth below.

Priax Corporation warrants that the products delivered hereunder will be in substantial conformity with applicable specifications and will be free from defects in material and workmanship. Priax Corporation's obligation under this warranty shall be limited to (at its option) repairing, replacing, or granting a credit at the prices invoiced at the time of shipment for any of said products which shall, within 90 days after shipment, be returned to the factory of origin, transportation charges prepaid, and which are, after examination, disclosed to Priax Corporation's satisfaction to be thus defective. This warranty shall not apply to any of such products which shall have been repaired or altered, except by Priax Corporation, or which shall have been subjected to physical or electrical abuse or misuse.

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Technical Support

Technical support is provided by Priax Corporation at no charge starting from the date of purchase. Priax Corporation will respond to all service calls made during the normal work week within a 24-hour period during normal business hours of 8:00 AM to 5:00 PM (Pacific Standard Time).

Replacement Parts

Replacement Components

Part No.	Description
X-10SW-210	Pistol-grip handle assembly
X-10SW-211	Quick-release connector, female for Tip, 1/4 inch
X-10SW-212	Straight swivel
X-10SW-213	Hose, 5-foot with male fittings
X-10SW-214	Rotary joint, 90-degree swivel
X-10SW-215	90-degree street ell, 3/8"
X-10SW-216	Connector, male, mate to bottle, 3/8"

Replacement Tips

Part No.	Description
X-10SW-250	Nozzle tip, straight bore, 6-inch, stainless steel
X-10SW-255	Nozzle tip, "Salinas" wide-spray, 6-inch, stainless steel
X-10SW-256	Nozzle tip, wide-angle fog, stubby brass
X-10SW-257	Nozzle tip, 26-inch flexible hose, 4-inch straight bore tip, stainless steel

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