



Sharps Terminator® User Guide

Please read carefully and follow all instructions.

Device Description Overview

The Sharps Terminator® is designed to safely destroy 18-27 gauge needles up to 2 inches (approx. 5 cm) in length attached to syringes 3 – 20 cc. The needle is destroyed by inserting it vertically into the center of the opening on top of the Sharps Terminator®. Rotate or twist the needle while pressing downward until it can go no further. Hold the syringe firmly until the tip cutting motor ceases and UV indicator light illuminates. The debris (swarf) left from the needle destruction is collected in the swarf collection tube and is emptied after 30 device cycles. The Sharps Terminator® operates from an internal rechargeable NiMH battery pack. The battery pack can be recharged using the Sharps Terminator® power supply that comes with the unit. The Sharps Terminator® can be used while plugged into the charger or used remotely until the battery is discharged. The device is able to burn 40 to over 200 needles per charge, depending on needle gauge and length burned.

Indications for Use

The Sharps Terminator® product is a stationary or portable needle destruction device that is intended for use by individuals and healthcare professionals to safely destroy 18-27 gauge needles up to 2 inches (approx. 5 cm). The device is for use in treatment settings such as treatment rooms, emergency/trauma rooms, wards, and medication rooms of Hospitals and Outpatient Clinics/Medical Offices, Dental Offices, and Clinical Laboratories.

Warnings

DO NOT INSERT NEEDLES THAT CONTAIN FLAMMABLE LIQUIDS SUCH AS ALCOHOL OR RADIOACTIVE MATERIALS.
DO NOT USE IN EXPLOSIVE ATMOSPHERES SUCH AS HIGH OXYGEN OR THE PRESENCE OF FLAMMABLE VAPORS.
MINOR SPARKING OR SMOKING MAY OCCUR FROM NEEDLE SEAT. DO NOT OPERATE UNIT WITH NEEDLE RING AND SEAT REMOVED.

DO NOT HANDLE CONTENTS OF THE SWARF TUBE AS THEY MAY BE HOT OR CONTAMINATED
IN THE EVENT THE UNIT FAILS TO OPERATE OR DESTROY A NEEDLE, DISPOSE OF SHARPS IN A SHARPS CONTAINER

Additional Precautions

Use only one hand to operate the device. It is designed for simple one-handed use to avoid your other hand becoming a target for a needle stick.

DO NOT immerse or subject the device to high moisture.

DO NOT use other charger types than the one included with your device.

DO NOT empty liquid contents of the syringe into the device.

DO NOT insert metal or glass syringes into the device.

DO NOT insert metal picks or screwdrivers into the device. Use the cleaning pick supplied.

DO NOT discharge any excess fluid into the device – discharge any excess fluid prior to use outside the device.

Directions for Use:

Important! There is no substitute for CAUTION when handling needles (sharps). This product does not eliminate the need to follow existing regulations and best practices regarding the handling of needles. Improper use or

carelessness could result in a needle stick. Place this unit on a flat surface in close proximity to a sharps container, and remember to follow all OSHA regulations and good practices for safety.

PRIOR TO USING YOUR Sharps Terminator® FOR THE FIRST TIME

Important! It is required that the user become familiar with the device by reading this user guide then test burning several sterile needles of different sizes until the user becomes familiar with operation of the device and satisfactory results are achieved. See Page 8.

Remove the device from the box. Be sure the black swarf tube is installed into the bottom of the device and locked by turning it 1/8 of a turn clockwise after full insertion. (NOTE: The device will charge, but will **not** burn needles if the swarf collection tube is missing.) **Fully charge the unit prior to first use.** You will know the device is fully charged when the green light is illuminated while plugged into the charger. **ONLY** use the charger provided with the device to charge the device.

INCLUDED WITH YOUR Sharps Terminator®

1 Sharps Terminator® device

1 Wall charger

1 Swarf collection tube, color black (located underneath the device)

2 Electrode clearing tools, color red (1 in the upper packaging, the other in the receptacle underneath the device)

1 User guide with warranty information

1 Quick start guide with light codes on laminated card

Do not throw away the packaging for the device.

Charging your Sharps Terminator®

Only use the charger supplied with your unit. Insert the 2.1mm charger plug into the charging receptacle located at the lower rear of the unit. Then plug the charger into the wall socket. Depending on usage, the unit will charge in about 2.5 hours. Allow the device to charge fully before the first use. It is also acceptable to leave the device plugged into the charger.

Charging from a discharged state: The battery indicator LED will remain red for 5 minutes. After 5 minutes, the battery LED will then turn yellow indicating it is OK to burn a needle while the device is charging. When the unit is fully charged, the battery LED will turn green indicating the battery is charged. The unit operates on a non-user serviceable 4.8VDC Battery NIMH rechargeable battery pack.

Operator Instructions:

- Make certain the unit is stable and on a flat surface; make sure the syringe does not contain excess fluid – any excess fluid must be discharged outside the device.
- Turn the Sharps Terminator® on by pressing the On button once. The device will run a diagnostic sequence: turn on all LEDs, test the cutting mechanism, electrodes, swarf tube, and the UV light to assure device is fully functional. The solid blue LED light on the top of the device will illuminate when the unit is finished running this sequence and is ready to burn a needle.
- The device is designed to start burning the needle automatically when it is inserted. After the needle is consumed, the cutting blade will cut the burned needle tip. The cut and burned needle tip will then fall into the swarf collection tube. The white UV LED will illuminate for 1.5 minutes. During this time an additional needle may be burned after 7 seconds (See Test Burning below). The blue LED will remain on for 3 minutes after the last needle burned waiting for another needle. Then it will automatically shut off to conserve battery life.
- Using one hand, insert the needle straight into the opening on top of the device. Insert the needle downward with light to medium pressure while rotating or twisting the syringe. Heavy gauge needles will require a little more pressure than light gauge needles. Allow the device to consume the needle without forcing the needle into the device. Lighter gauge needles are more easily bent, and require much less downward pressure
Note: *The needle must be inserted straight into the device. The twisting or rotating action will allow more of the needle to be consumed closer to the needle hub, especially for lighter gauge needles.*
- After the needle is destroyed and the cutter severs the burned tip, remove the plastic syringe and immediately dispose of it in compliance with all regulations and guidelines in your area. Always follow all universal safety precautions when handling needles.
- The device has a feature to notify the user that the swarf tube is almost full. The device will hold 30 burned needle tips. On the 25th through the 30th needle cycle, the blue LED will flash 5 times after a burn cycle then return to solid blue indicating the swarf tube needs to be emptied soon. On the 30th needle, the device will no longer allow burning and the swarf tube must be emptied.
- **Test Burning:** When test burning needles to become familiar with the device, do not burn 18-20 gauge needles back-to-back. Wait at least 2 minutes between cycles. When burning 21 to 27 gauge needles, wait at least 1 minute between cycles. Use a stop watch for this if necessary.
- **Miss Burns:** While learning to operate the device, you may encounter a partially burned needle. If this happens, simply re-insert the needle after 7 seconds and finish burning it. If there is metal still present on the syringe, discard the syringe and remaining needle nub into a sharps container.
- A small amount of smoke or a small spark may escape the needle seat. This is normal and should not be cause for alarm. This is a byproduct of the burning process.

Operational LED Light Sequences:

Normal Operation:

- **Blue Top LED solid:** Device awake. Ready to burn needle for 3 minutes.
- **White UV LED solid:** UV light sequence active. OK to burn ONE more needle after 7 seconds.
- **Green Batt LED solid:** Device battery condition good and/or charger plugged in.
- **Yellow Batt LED solid:** Charge battery soon or device charging if plugged in.

Error Conditions OR User Action Required:

- **Blue Top LED flashing:** Swarf collection tube full or missing. Burning not allowed.
- **White UV LED flashing:** UV bulb not illuminating. Check UV bulb. Burning not allowed.
- **Red Batt LED flashing:** Battery discharged. Fully charge device. Burning not allowed for 5 minutes.
- **White/Red LED Flashing:** Motor malfunction/cutter jammed. See troubleshooting guide.
- **White / Yellow LED flashing:** Electrode jam. See troubleshooting guide.
- **White /Red /Blue LED flashing:** Over current protection. Allow device to cool for 15 minutes.
- **Yellow/Green/Red in succession:** Wrong charger plugged into the device.

Removing Needle Waste from the Sharps Terminator[®]

Caution! Immediately after burning a needle, the contents in the collection tube are extremely HOT! Do not empty the contents while the UV guard LED is illuminated to allow for cooling. Ignoring this mandate can result in serious burns and/or fire! Use of gloves is recommended when disposing of swarf.

The swarf collection tube waste is removed by picking up the device. DO NOT TURN THE DEVICE UPSIDE DOWN! The swarf tube is removed by turning counter clockwise 1/8 turn to the open position. Remove the swarf tube from the bottom of the device. Waste contents may occasionally have needle fragments, and may not be sterile. Dispose of waste contents in a puncture resistant bag or container and place with biohazard waste. Re-insert the swarf tube and turn 1/8 turn clockwise to the closed position. NOTE: The device will not operate without the swarf tube in place. The swarf tube should be emptied each time the unit is charged, or when the blue LED light flashes constantly indicating the swarf collection tube is full. See Page 9.

Cleaning the Outside of the Sharps Terminator[®] and Swarf Tube

- Always UNPLUG the unit before cleaning. Wear protective gloves and glasses.
- DO NOT allow cleaning solutions to spill into the unit.
- DO NOT use flammable or harsh cleaning solvents as the plastic exterior of the device may be damaged.
- As needed for cleaning, remove the Swarf Tube and Needle Ring and Seat.
- For most surfaces, use a damp cloth or gauze moistened with an enzymatic cleaning detergent to clean the outside of the unit for approximately two minutes.
- Make sure the Swarf tube is empty before cleaning. Spray the inside and outside of the swarf tube with enzymatic cleaning detergent and wipe for 2 minutes with gauze until clean.
- If desired a Low Level Disinfectant such as alcohol, peroxide, or hypochlorite solution may be used as a final wipe down.
- DO NOT USE extremely concentrated or aggressive chemicals which may damage electrodes and machine surfaces. DO NOT spray liquids into the machine.
- **Clean / Disinfect the outside of the device after every use.**

Troubleshooting Instructions:

The Sharps Terminator® has self-diagnosing software that will give specific LED light outputs to let the user know there is action required or a malfunction has occurred. Please review the following common LED output codes and the resolution to each. When troubleshooting the device, be sure it is unplugged from the charger.

Blue LED flashing	The swarf tube is missing or it is full. Remove swarf tube, empty, and re-insert.
Red LED flashing	The battery is discharged. Plug charger in to start a charging cycle.
White LED flashing	The UV light is not working. Remove the swarf tube and check bulb for proper insertion. The rubber boot must be fully seated into the gasket material. If it has fallen out, carefully plug the back into the socket. If it still does not work, contact the service center's number located on the rear of the device to obtain a replacement bulb. See Page 10.
Red/White flashing	The motor is jammed or a foreign object has been inserted into the device. This error is normally caused by a user inserting a metal foreign object into the device and the cutting blade locks onto the object. Clear the code by turning the device on. NOTE: <i>This code is permanently recorded in the devices memory and will void the standard warranty if damage results from this practice. Always use the included plastic cleaning pick when cleaning or clearing the electrodes.</i> See Page 10.
Yellow/White flashing	The electrodes are blocked. Remove the needle ring and use the red clearing tool located under the device. NOTE: <i>Use safety glasses and protective gloves.</i> Clear the electrodes by inserting the curved flat end of the clearing tool between the electrodes. You should hear the needle debris fall into the swarf tube. The tool can also be used to routinely clean the electrodes for optimum operation. Turn the device on in order to reset the trouble code. Electrode blocks are logged on the device. See Page 10.
White/Red/Blue flashing	The over current protection device has been activated. Allow the device to cool for 15 minutes. If another needle is inserted into the device while it is cooling, the error code will illuminate again. Burning is not allowed if the O.C.P. is activated. Pushing the ON button after 15 minutes will clear the error condition. NOTE: <i>As a safety feature the cutter may activate if an additional needle is inserted into the device once. This is to assure a syringe will not become lodged in the device after a partial burn. O.C.P. errors are permanently logged on the device.</i>
Red/Yellow/Green in succession	Wrong charger plugged in. Use proper charger.

Device Reset: If the device operation becomes erratic, push and hold the ON button for 5 seconds. This will reset the device and put it to sleep. After, the device will resume normal operation.

Routine Maintenance

Always wear safety glasses and protective gloves while cleaning or maintaining the device.

Once a week: Remove the swarf tube and clean the interior of the collection tube.

Once a month: Remove the needle ring, and clean the electrodes by inserting the clearing/cleaning pick between the electrodes. This action will both clean and clear any small debris that has accumulated in the electrode area. Remove the needle ring by turning the cap ¼ turn counter-clockwise and lifting up on the cap. Re-install in the opposite direction. Be sure the spring sets into the round recess above the knives when re-attaching the needle ring. See Page 10.

Once every 2 months: Remove the UV bulb and clean it with a dry cloth to remove soot. See Page 10.

Failure to follow routine maintenance guidelines will result in diminished device performance and/or device malfunction.

De-Commissioning the Sharps Terminator®

Do not deposit the device in the trash. Return your decommissioned Sharps Terminator® to the Service and Warranty Center located on the rear of the device. The battery is not removable by the user.

Clinical Study Results with the Sharps Terminator®

A. Pivotal Clinical Study Design

The clinical study that formed the basis for the data analysis finding that the Sharps Terminator® is safe and effective for its intended use was a prospective, non-randomized, non-interventional, non-significant risk, open label, consecutive series study.

Major study design characteristics:

- The study was undertaken at 6 medical facilities which included 2 facility groups
 - 3 hospitals where the device was evaluated in the following areas: ER exam room, Lab, Medical/Surgical Unit, Patient Rooms, Medication Room, Labor & Delivery Room
 - 3 outpatient clinics/Medical Offices
- A total of 720 assorted combinations of needles from 18g 1" to 28g 0.5" and syringes from 3cc to 20cc's (Sharps) were kitted.
 - Each syringe was filled with a non-infectious or sterile inert solution prior to destruction
 - The study did not involve treatment of any type and no patients were involved
 - No humans or animals were injected with kitted study materials.
- The study involved 19 different medical professionals(5 male/14 Female) who
 - routinely handled hypodermics in the course of their workday,
 - had training in Blood-borne pathogens
 - and were qualified by training or license to use/dispose of Sharps
 - each site enrolled a maximum of 12 subjects and at least one subject in each Facility type was left handed.
- The duration of the study was 2 months from the start of enrollment to the last subject, last visit.

Clinical Endpoints:

The primary safety endpoint was assessment of adverse events.

The primary efficacy endpoint was: Destruction of the needle body to a blunt "stub" of 1/16 inch or less (Rating 2 or 3 on a needle Destruction Scale) for 95% of all tested needles in no more than 2 attempts.

There were no secondary endpoints, but informational data on subject demographics as including occupation, type of certification, education, height, weight and handedness were collected. The location of the device, the height in relationship to the participant, and the power source for the device used was also collected for each location of the device and for each participant.

Success/Failure criteria:

The success of the Sharps Terminator was based upon the following clinical criteria being met at the completion of the study:

1. Destruction of the needle body to a blunt "stub" of 1/16 inch or less in length (Rating 1 or 3 on the needle Destruction Scale) for 95% of all tested needles.
2. No complications or adverse event rates are observed that appear to be associated with inferior performance of the investigational device as demonstrated by device related SAE's or UADE's.

A total of 720 needle/syringe combinations were evaluated using up to 3 Sharps Terminator® Investigative devices per site at two Healthcare Facility Groups and six investigational centers in the United States. Sites were grouped by Facility type with 3 sites in each group (e.g. Hospitals, Outpatient Clinics/Medical Offices). Two Facility groups of 3 investigational sites were enrolled, and each group was provided 360 kitted combinations or 120 needle/syringes per site.

The Procedure Schedule for the trial was as follows:

- Screening/Consent/Enrollment
- Training
- Device Installation/Inventory/Location Form
- Completion of Demographic Data
- Assignment of Sharps Kit
- Sharps Destruction/ Completion of Sharps Destruction Log
- Photography of Location and destroyed Sharps
- Completion of User Satisfaction Questionnaire
- AE assessment
- Release from Study

All procedures were completed over the course of a single day at each center.

B. Accountability of PMA Cohort

At the time of the database lock, 19 subjects enrolled in the PMA study, 100% (19/19) were available for analysis at the completion of the study. This cohort destroyed 706/717 sharps and all data was available for evaluation.

C. Study Population Demographics and Baseline Parameter

A summary of the subject demographics of the study are as follows:

Table 1 Demographic Data Summary

Site Number	# of Subjects	Occupation							Education					Credential			Average Age	Gender		Avg. Hgt. Inches	Avg. Wt. lbs	Dominant Hand	
		LVN	Phlebotomist	RN	Pharm Tech	Med Tech	Para-Medic	CRC	HS	AS	BS	TECH/DIPLOMA	MS	License	Certified	Registered		Years	M			F	Left
1	4	2	0	1	0	0	1	0	1	1	0	1	0	2	0	1	44	0	4	66	168	1	3
2	3	0	0	3	0	0	0	0	0	1	1	1	0	1	0	2	45	0	3	66	178	0	3
3	3	0	0	3	0	1	0	0	0	2	1	0	0	2	0	1	56	2	1	67	156	0	3
4	3	0	1	1	1	0	0	0	2	1	0	0	0	1	1	0	40	1	2	65	148	0	3
5	3	0	0	1	0	0	0	1	1	0	2	0	0	0	1	3	43	1	2	67	185	1	2
6	3	0	0	2	0	1	0	0	0	0	2	0	1	1	0	1	45	1	2	66	163	1	2

Race was not considered relevant to the use of the device and therefore that information was not collected.

D. Adverse Events

There were no adverse events reported in this study.

E. Safety and Effectiveness Result

Safety: The primary safety end point was the assessment of adverse events. Success was defined as observance of no SAEs and UADEs such as generation of heat by the device, generation of noise, formation of sparks, and interference with other medical devices. No adverse events were observed during the clinical study.

Efficacy: The primary efficacy end point was destruction of the needle body to a blunt “stub” of 1/16 inch or less in length (Rating 2 or 3 on Destruction Scale) for 95% of all tested needles. The ability of the Sharps

Terminator Device to destroy hypodermic needles exceeded the target point estimate for successful destruction percent; and the lower bound target of the 95% confidence interval was higher than the target as well. Accordingly, findings of this study show that the device exceeded the success threshold on both measures. The difference in proportion of success for extreme sizes was compared to all other needle sizes using the Newcomb Hybrid Method with continuity correction (based upon score confidence intervals). Results are presented below in Table 3. For each of the three extreme sizes (extreme by gauge or length), the confidence interval for the difference between proportions includes zero, indicating no evidence of difference from the remaining needles. (A 27 gauge needle was the smallest in the study whereas the original protocol stipulated a 30 gauge needle which became unavailable). These results are consistent with a priori hypotheses. The point estimate and exact 95% confidence intervals for destruction across all needle sizes are shown in Table 2.

Table 2. Success and Failure of Sharps Destruction

Success (Count)	Failure (Count)	Target Point Estimate (%)	Actual Point Estimate (%)	Target Lower Bound (95%)	Obtained 95% CL (Upper/Lower Bound)
704	10	95%	98.4%	93%	97.27%/99.23%

Table 3 Confidence Intervals Between Proportions Comparing Extreme Sizes to All Other Sizes

Needle Width (Gauge)	Needle Length (Inches)	Success	Failure	Success (All Other Sizes)	Failure (All Other Sizes)	95% Confidence Interval for the Difference ¹
18	1"	95	1	610	11	-4.78 to 2.50%
21	2"	98	2	608	9	-6.33 to 1.62%
27	0.5"	99	2	607	9	-6.25 to 1.63%

¹ Newcombe, R. Interval estimation for the difference between independent proportions: comparison of eleven methods. *Statistics in medicine*, 1998, 17, 873-890.

Overall Conclusions from Clinical Data:

The Sharps Terminator®, performed well above the criteria established for success. The ten non-destruction events that occurred during the study did not subject the operator to danger and appeared to be related to the operator learning curve for the device. The ability of the device to destroy sharps and to remove this hazard from a health care environment safely was demonstrated across the range of needle sizes stipulated in the device indication for use.

Warranty

This device is under warranty by the manufacturer for a period of one year from purchase by the end user. The device is covered for parts and labor for defects or mechanical failure not related to abuse by the customer. If the safety seal is broken or missing warranty is void. For all warranty claims in North America, please call Sharps Terminator Service center at 251-947-2265, the telephone number located on the rear of the device, or e mail TerminatorService@sharpsterminator.com.

"Except as provided herein, there are no warranties expressed or implied or by statute including but not limited to merchantability, fitness for a particular purpose. Manufacturer's warranty and liability shall be limited to the limited warranty expressed herein, but in no event shall the liability exceed the retail value of the unit. Manufacturer's liability for injuries or death suffered as a result of the use of the unit is hereby waived and released by the purchaser."

Manufactured by:
 Sharps Terminator LLC
 6502 Slide Rd Suite 402
 Lubbock, Texas 79424

No user serviceable parts, the device is sealed for your protection. Tampering with or breaking the factory seals will void the device warranty.

The Sharps Terminator® is a Class 3 Medical Device in the US regulated by the FDA, and the charger bears the UL marking for the U.L.

The Sharps Terminator® and charger bears the CE Marking for the EU.

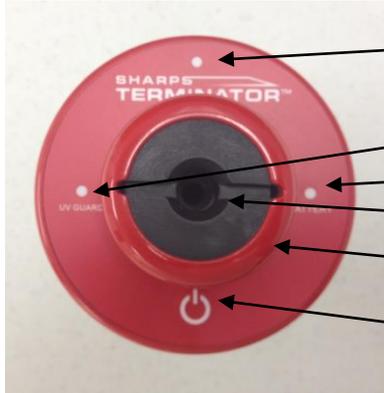
The Sharps Terminator® and its logos are registered trademarks.

Worldwide Patents Pending.



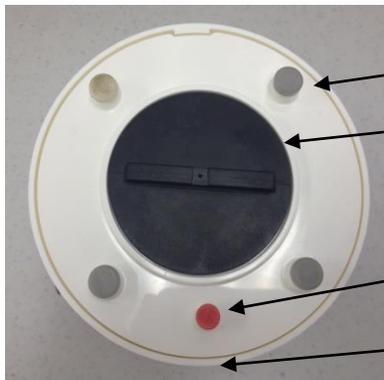
Do not use Glass syringes in this device.

User Guide Visual References:



Top view of device

- Blue LED:** On/Swarf indicator
- UV LED:** Active UV cycle
- Battery LED:** Battery level indicator red/yel./green
- Needle Seat:** Needle insertion point
- Needle Ring:** Houses needle seat/spark guard
- On Button:** Push once



Bottom view of device

- Rubber Feet**
- Swarf Collection Tube:** Collects needle remains. Clockwise locks the swarf collection tube. Counterclockwise unlocks the swarf collection tube.
- Electrode Clearing Tool:** Clears electrode blocks and is used to clean the electrodes.
- Front of Device**



Rear of device

- Warning Label:** Please read and understand.
- Rear Charging Port:** Only use charger supplied with the device.



Front of device

- Electrode area:** Insert cleaning/clearing tool between electrodes. DO NOT insert metal objects! Wear safety glasses and protective gloves.
- Cover Guard:** Safety cover/spring locator
- Cutting Mechanism:** DO NOT operate device with needle ring/seat removed!
- Needle Ring and Seat:** Removed for clearing/cleaning electrodes

User Guide Visual References:

Operation: Quick Start Guide

1



Turn device on. Allow self-check sequence to operate. Solid blue LED will illuminate when the device is ready.

Plug device into wall charger.

If an error occurs, see troubleshooting guide.

2



Insert empty syringe into device with a twisting or rotating motion. Use enough pressure to burn, but not bend needle.

NOTE: Light gauge needles are more prone to bending. Adjust downward pressure accordingly.

DO NOT expel liquids into the device. It is not designed to accept liquids.

Test burn several needles to be sure satisfactory results are achieved before burning contaminated syringe needles. Short cuts and miss cuts are common with first time users.

Do not exceed duty rating of the device:

18-20 gauge needles: 2 minutes between burns

21-27 gauge needles: 1 minute between burns

Caution: Use only with plastic syringes

Needle Range: 18-27gauge up to 2" length

Discard excess fluid BEFORE inserting needle into The device.

3



Hold on to the syringe until cutter stops.

Pull up and remove syringe.



Ideal terminated syringe: dispose in red bag waste.



Short cut syringe: not fully inserted 1/16 inch or less. Dispose of Syringe in a Sharps Container



Miss cut syringe: 1/16 inch or more. Re-insert into device after 7 seconds to fully terminate syringe.

User Guide Visual References:

Emptying Swarf Collection Tube:

1



Pick up device with one hand.

With the other hand, grasp the handle on the swarf collection tube and turn 1/8 turn counter-clockwise.

DO NOT turn device upside down while removing swarf collection tube. Contents may empty into the device.

Swarf Tube may be warm to touch.



Swarf Tube Removed

2



Discard contents into a puncture resistant container

Caution: Do not touch needle remains as they may be hot or contaminated.

3



Re-insert swarf collection tube into the device. Align tabs and turn clockwise 1/8 turn to lock it back into the device. Set device back down and resume normal operation.

Attention: Clean/Disinfect Device after every use.

If you need additional picks please contact your Sharps Terminator® distributor or the service center.

User Guide Visual References:

Maintenance:

Electrode Cleaning



1. Put on safety glasses and protective gloves.
2. Remove needle ring and swarf tube by turning each turn counter-clockwise to unlock and clockwise to lock. Set aside as shown.
3. Be sure device is unplugged from charger.



4. Remove cleaning pick from the bottom of the device by pulling it out of the receptacle.
5. Insert the pick into the electrode area at the angle as shown.
6. Slide the pick across the electrodes at the same angle. This action will clear/clean the electrodes.
7. The angled flat surface will slip between the electrodes.
8. Reinstall pick into the bottom of the device
9. Reinstall needle ring and swarf tube back into the device turning clockwise to lock each.
10. Test the device by turning it on and test burning 2 to 3 needles.
11. **DO NOT** insert metal picks or screw drivers into the device. This will damage the electrodes and void your warranty. Use the plastic picks supplied.

UV Bulb Removal/Installation



1. Put on safety glasses and gloves.
2. Remove swarf collection tube.
3. Remove needle ring and set device on a soft cloth so it does not scratch the top of the device. Be sure device is unplugged from the charger.
4. Remove the UV bulb by pulling up on it.



5. Carefully wipe bulb off with a dry cloth. Do not wipe off grease on the plugs.



6. Reinsert bulb back into the socket, being careful not to bend the leads on the bulb. Be sure bulb is fully inserted into socket.

7. Reinstall swarf tube, needle ring and seat turning clockwise to lock after insertion.

8. Test the device by turning it on, and test by burning 2-3 needles.

User Guide Visual References:

Light Sequences: Quick Reference Guide

Normal Operation: SOLID LED LIGHT

-  Device ready to burn needle
-  Battery charged/plugged into charger
-  Battery needs charging soon/charging if plugged into charger
-  UV light cycle active
-  Charging cycle active from discharge
Burning not allowed for 5 minutes

User Action Required: BLINKING LED LIGHT

-  Swarf collection tube removed or full
-  Battery discharged. Plug into charger
-  UV light not working
-  Motor/Cutter malfunction
-  Electrode block
-  Over current protection
-  IN SUCCESSION: WRONG CHARGER