

PRIMUS-SIEVERT SIEVERMATIC-S UNIVERSAL TORCH SYSTEM

1. GENERAL

- 1.001 This section is a cover sheet for the SIEVERMATIC-S UNIVERSAL TORCH SYSTEM manufactured by PRIMUS-SIEVERT. This section is reproduced with permission of PRIMUS-SIEVERT and Tom White Supply Company.
- 1.002 Whenever this section is reissued the reason (s) for reissue will be listed in this paragraph.
- 1.003 The SIEVERMATIC-S UNIVERSAL TORCH is designed and built with automatic ignition and safety trigger on/trigger off handle.
- 1.004 If corrections are required in the attached document, use Form E-3973 as described in Section 000-010-015.
- 1.005 If equipment design and/or manufacturing problems should occur, refer to Section SW 010-522-906 for procedures on filing an Engineering Complaint.

2. ORDERING PROCEDURE

- 2.001 The SIEVERMATIC-S UNIVERSAL TORCH SYSTEM may be ordered via the Southwestern Inventory Management System (SWIMS).
- 2.002 Paragraph 8 describes the SIEVERMATIC-S UNIVERSAL TORCH SYSTEM parts and part numbers for easy ordering.
- 2.003 To order additional copies of this practice, use TWSC 081-330-801SW as the section number.

Attachment: Primus-Sievert and Tom White Supply Company, Primus-Sievert Sievermatic-S Universal Torch System.

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PRIMUS-SIEVERT SIEVERMATIC-S UNIVERSAL TORCH SYSTEM

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1. GENERAL

1.01 The Primus-Sievert Sievermatic-S torch system (Fig. A) consists of the universal handle, the regulator to connect the system to a fuel supply, a hose between the regulator and the handle, and a burner to match the type of work to be performed.

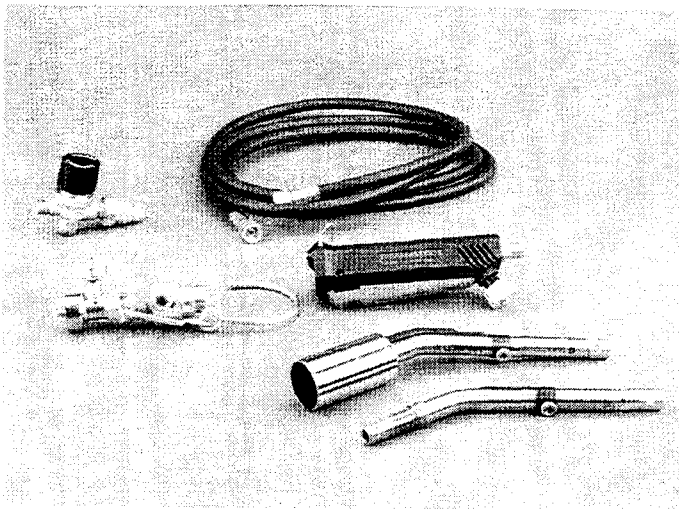


Fig. A: Components of Sievermatic S torch system

1.02 The system will operate on either bottled propane fuel or on MAPP gas; and depending on which regulator is used, it will work with either disposable bottles or refillable bottles (Fig. B).



Fig. B: Propane and MAPP gas tanks

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2. TORCH HANDLE

- 2.01 The heart of the Sievermatic-S torch system is the universal handle (Fig. C), which features automatic ignition, trigger-on/trigger-off of the burner, a pressure easer, swivel hose connection, ergonomic grip, and bayonet fitting for the ease in changing burners. The piezo igniter is guaranteed for 30,000 ignitions. The handle will ignite without any problem even if it has been soaked in water.

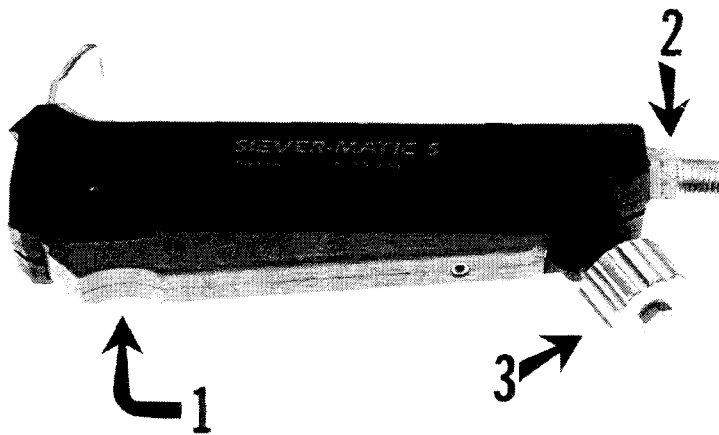


Fig. C: Sievermatic-S universal handle

- 2.02 The safety features of the universal handle include automatic shutoff when the trigger (Fig. C, #1) is released so that if the torch is set aside, the flame automatically extinguishes.

- 2.03 A safety valve cuts off fuel if the burner has been removed for any reason, even if the trigger is operated.
- 2.04 The swivel hose connection (Fig. C, #2) allows ease of use without getting the hose tangled.
- 2.05 The piezo electric igniter does not require an external source of ignition such as matches or a friction lighter.
- 2.06 The trigger requires only a light pressure during use because the spring is off-loaded after ignition so it is less tiring to use. This is called the "pressure easer."
- 2.07 There is a brass adjustment knob on the handle (Fig. C, #3) that allows complete adjustment of the flame.

BURNERS

- 3.01 The burners are bent at a 30° angle to give maximum access in confined spaces.
- 3.02 The burners have a bayonet fitting (Fig. D, #1) for quick connection, allowing ease in changing burners for performing different jobs. The burners give a stable flame, even in wind.

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intended for precision jobs.

- 3.06 The 3333 has a maximum capacity of 2400 BTU/hour.

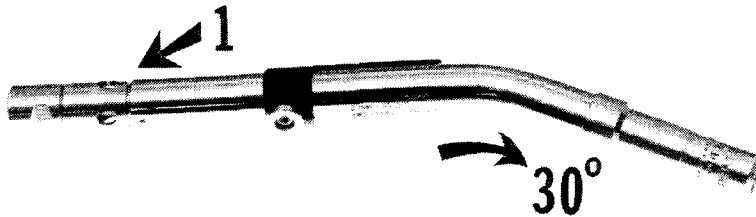


Fig. D: Typical Burner

- 3.03 The 3341-90 soft flame burner has been developed for heatshrink sleeves and cable work. It gives a soft, sweeping flame with a yellow tip clearly visible in bright daylight. It is highly wind resistant.

- 3.04 The 3341-90 (Fig. E) yields up to 40,000 BTU and is designed for thick-wall sleeves up to 6" in diameter.



Fig. F: Small burner

4. REGULATORS

- 4.01 The 3065-33 regulator (Fig. G) is designed for connection to disposable propane tanks and is preset at 28 psi. It comes with a shutoff valve and suspension hook.

- 4.02 The 3060-03 variable pressure regulator (Fig. H) is designed to attach to refillable bottles. It is adjustable from 28 psi to 57 psi.

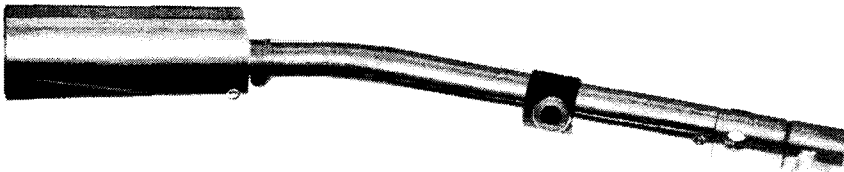


Fig. E: Large burner

- 3.05 The 3333 pinpoint burner (Fig. F) has a flame that is suitable for soft soldering and lead applications. It is

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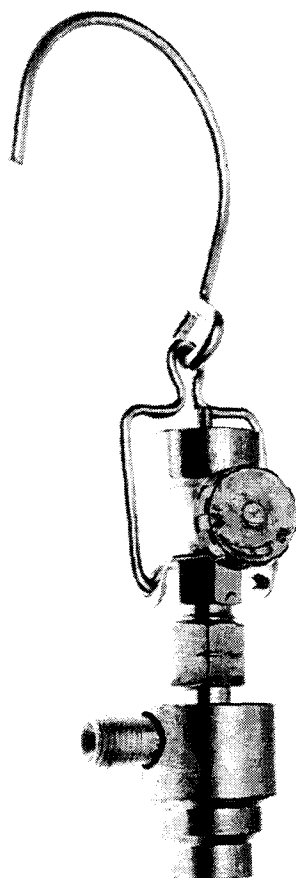


Fig. G: Preset regulator

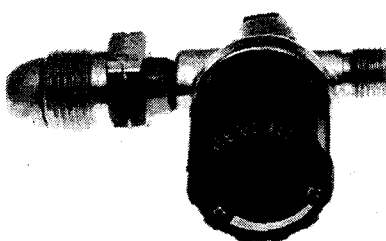


Fig. H: Variable pressure regulator

5. PRECAUTIONS

- 5.01 The following precautions should be observed in using and storing torches:
- 5.02 The Sievermatic-S torch system should be used only with bottled propane fuel or MAPP gas. **Do not use these torches with acetylene gas.**
- 5.03 Always keep the tank upright.
- 5.04 Do not use the torch for underground work, in central office cable vaults, in splicing pits at main frames, in a CEV (controlled environmental vault), or in other locations where open flames are forbidden.
- 5.05 Ventilate aerial tents while the torch is in operation. Secure the tent flaps so that they will not blow onto or near the splicing work.
- 5.06 Wear eye protection at all times when using the torch.
- 5.07 Do not direct the flame of the torch against the strand as this may weaken the strand and cause it to break. When working on the far side of a cable, be careful not to direct the flame toward the body.
- 5.08 Do not allow the torch to contact flammable material such as conductors, muslin, paraffin, etc.

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- 5.09 Never store the tank in man-holes.
- 5.10 Keep the tank away from fire and heat. Protect the tank in storage against extremes of temperature, from accumulations of ice and snow, from damage which might be caused by passing or falling objects, and from direct rays of the sun.
- 5.11 If the tank valve should become so difficult to turn, due to water freezing at the valve, that it cannot be opened with normal hand pressure, the tank should be brought into a warm room to thaw.
- 5.12 Frequently inspect the pressure hose for cracks. DO NOT attempt to patch cracks and holes in a hose by taping. Replace damaged hose immediately.

6. INSPECTION

- 6.01 Test the apparatus before it is first used and weekly while in use. Inspect the tanks for defects when received and thereafter while they are in use.
- 6.02 Large leaks may be detected by the odor of the escaping gas. The apparatus should be tested for leaks as follows:
 - (a) Connect the torch to the

tank and turn off the flame control valve in the handle of the torch.

- (b) Open the tank valve and/or the regulator control valve.
- (c) Paint all connections with a soap solution and check for leaks.
- (d) Immerse the hose in water to test for leaks.

- 6.03 If the hose leaks or appears to be worn or cracked, it must be replaced.
- 6.04 No attempt should be made to repair a leak in the torch other than to tighten the connections (see paragraph 7.01 for tightening hose connections).
- 6.05 If there is evidence of a defect such as a leak or a dent in the tank more than 1/4" deep, the tank should be returned in accordance with local procedures to the supplier. If there is a leak in the tank, follow approved local procedures for disposal.

7. OPERATION OF THE TORCH

- 7.01 Attach the hose to the outlet end of the regulator (Fig. I) and to the torch handle (Fig. J). Tighten the nuts finger tight counterclockwise. Then tighten securely with a wrench

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(Fig. K).

WARNING: Excessive tightening of the hose connection can cause damage to the threaded portion of the hose.



Fig. I: Attach hose to regulator

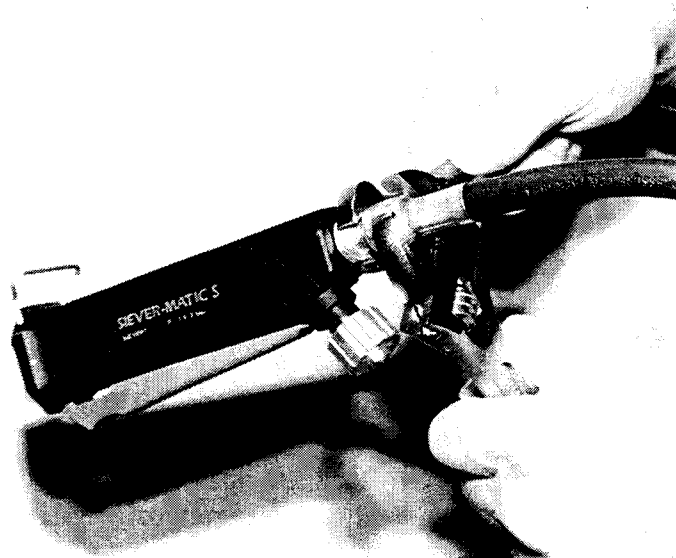


Fig. J: Attach hose to torch handle

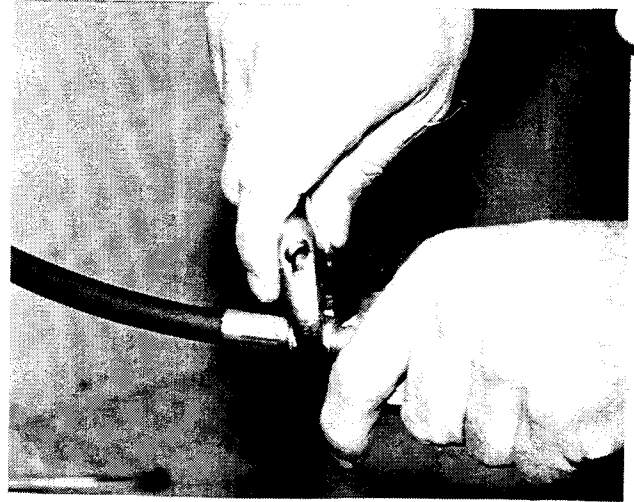


Fig. K: Tighten all connections



Fig. L: Attach tank to regulator

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- 7.02 When attaching the 3065-33 preset regulator to a disposable tank, hold the regulator with one hand and the tank with the other hand. Attach the tank to the regulator, turning the tank clockwise (Fig. L).

- 7.03 Tighten the tank to the regulator until it is hand-tight (Fig. M). The regulator valve can now be opened.



Fig. M: Hand tighten only

- 7.04 Holding the universal handle in one hand, insert the bayonet end of the burner into the handle with the angle of the burner facing the side of the handle so that the brass button on the burner is inserted into the notch on the side of the handle (Fig. N).

- 7.05 Turn the burner ¼ turn

counterclockwise (Fig. O). This locks the burner into place and opens the gas valve, allowing gas to flow to the burner when the trigger is depressed.

- 7.06 Select the burner to be used.

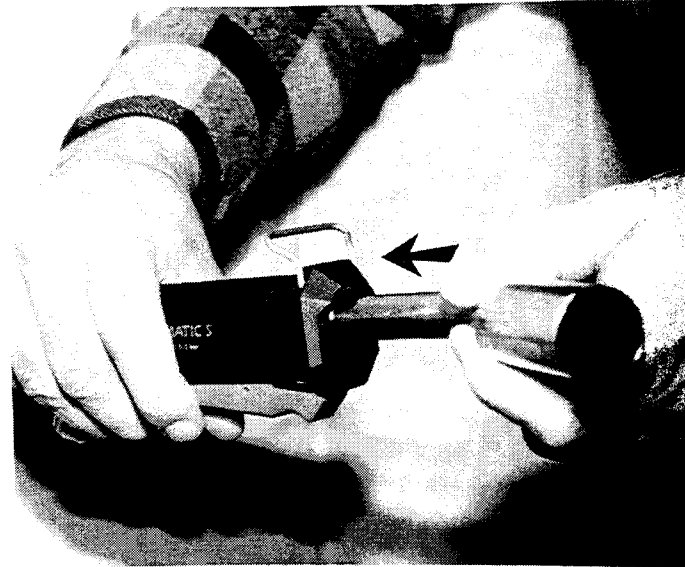


Fig. N: Insert burner into handle

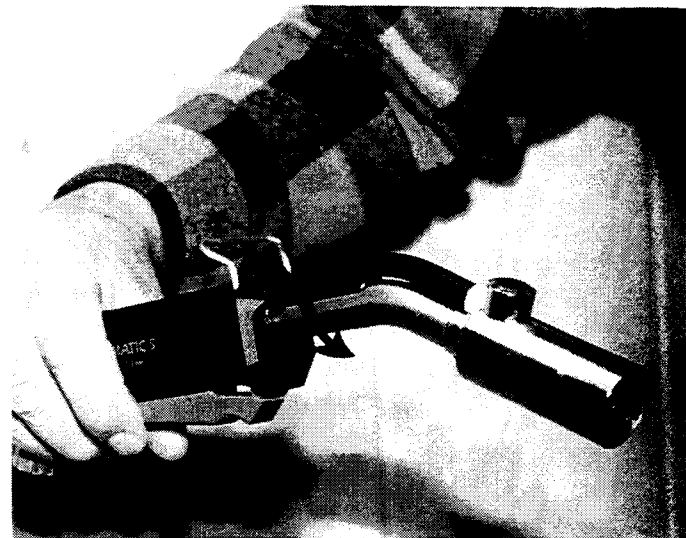


Fig. O: Handle and burner locked together

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- 7.07 Turn the brass control valve on the handle counterclockwise to open the gas supply from the hose to the burner (Fig. P).



Fig. P: Open gas valve on handle

- 7.08 Depress the trigger approximately halfway until the gas starts to flow. Then completely depress the trigger. This will ignite the gas.
- 7.09 Releasing the trigger will extinguish the flame.
- 7.10 With the burner ignited, adjust the brass control knob on the universal handle to achieve the desired burner temperature.
- 7.11 After completion of the work, extinguish the flame by closing the valve on the tank and/or regulator, allowing the gas to burn from the hose and

regulator. Then close the valve on the torch handle.

- 7.12 To connect the 3060-03 variable pressure regulator to a

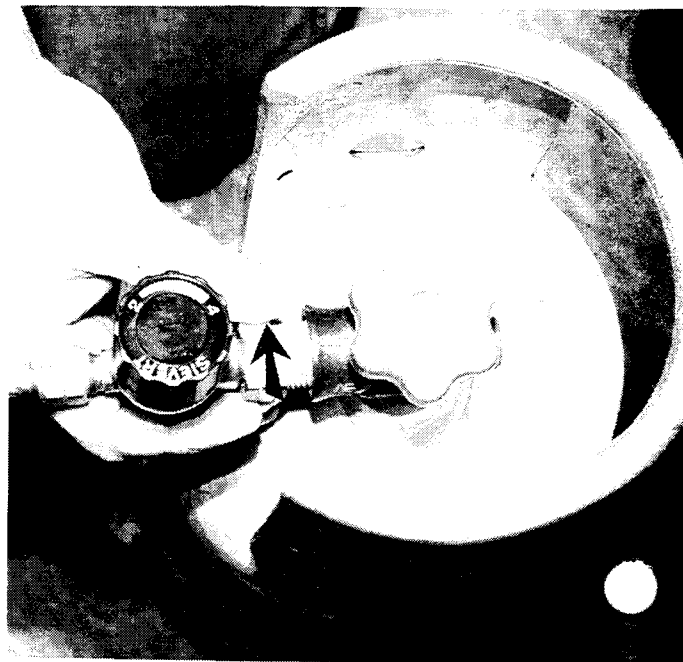


Fig. Q: Attach regulator to tank

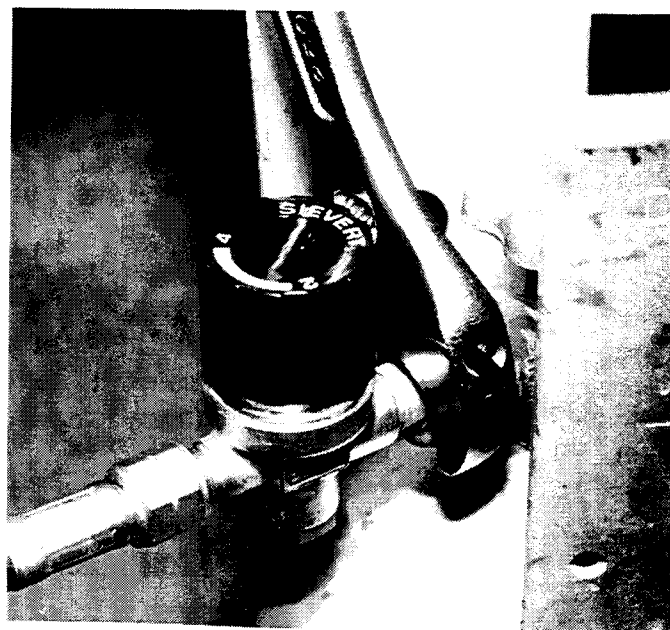


Fig. R: Tighten with wrench

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refillable tank, insert the regulator fitting in the tank valve. Turn the fitting counterclockwise until it is finger tight (Fig. Q). Then tighten it securely with a wrench (Fig. R).

- 7.13 Open the tank valve to allow gas to flow through the regulator to the burner (Fig. S).



Fig. S: Open valve on tank

- 7.14 Select the burner to be used.
- 7.15 Holding the universal handle in one hand, insert the bayonet end of the burner into the handle with the angle of the burner facing the side of the handle so that the brass button on the burner is inserted into the notch on the side of the handle (Fig. N).

- 7.16 Turn the burner $\frac{1}{4}$ turn counterclockwise (Fig. O). This locks the burner into place and opens the gas valve, allowing gas to flow to the burner when the trigger is depressed.

- 7.17 Turn the brass control valve on the handle counterclockwise to open the gas supply from the hose to the burner (Fig. P).

- 7.18 Depress the trigger approximately halfway until the gas starts to flow. Then completely depress the trigger. This will ignite the gas (Fig. T)



Fig. T: Torch operating with MAPP gas

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- 7.19 Releasing the trigger will extinguish the flame.
- 7.20 With the burner ignited, adjust the brass control knob on the universal handle to achieve the desired burner temperature.
- 7.21 After completion of the work, extinguish the flame by closing the valve on the tank and/or regulator, allowing the gas to burn from the hose and regulator. Then close the valve on the torch handle.

8. ORDERING INFORMATION

<u>Part No.</u>	<u>Description</u>	<u>SWBT PID No.</u>
3366-97	Torch handle	701 219 784
3065-33	Preset regulator	701 219 826
3060-03	Adjustable regulator	701 219 818
3333-90	Pinpoint burner	701 219 792
3341-90	Large burner	701 219 800
1510IS	Hose, 10 ft.	701 221 376

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