



Current Tools

FOR THE PROFESSIONAL ELECTRICIAN

Current Tools™ PVC Heating Blankets *for heating schedule 20 through schedule 80 PVC conduit*

Model 441 – ½" to 1½" PVC Conduit

Model 442 – 2" to 3" PVC Conduit

Model 443 – 3½" to 4" PVC Conduit



Operating and Safety Manual

11/15



Read and understand this material before using this PVC Heating Blanket. Failure to understand how to safely use this unit may result in serious injury or death.

This manual is free of charge. All personnel who use this PVC Heating Blanket should have a copy of this manual and read and understand its contents. To obtain a copy, call, write to the address below, or visit our website.

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SAFETY ALERTS



Safety Alert Symbol

THIS SAFETY SYMBOL is used to call your attention to instructions that concern your personal safety. It means: ATTENTION! BE AWARE! THIS IS AN IMPORTANT SAFETY INSTRUCTION!

Read, understand and follow these safety instructions. Failure to follow these safety instructions may result in injury or death.



DANGER

Immediate hazards which, if not avoided, WILL result in serious personal injury or death.



WARNING

Hazards or unsafe practices which, if not avoided, COULD result in serious personal injury or death.



CAUTION

Hazards or unsafe practices which, if not avoided, COULD result in minor personal injury or property damage.

RETAIN SAFETY INFORMATION



This manual should be read and understood by all personnel who use this PVC Heating Blanket. Failure to understand how to safely use this unit could result in injury or death. This unit should only be used by qualified personnel.



IMPORTANT SAFETY INFORMATION

Follow ALL safety information provided by the manufacturer.

⚠ DANGER

DO NOT use in wet conditions or immerse blanket in liquids.

⚠ DANGER

ALWAYS wear hand protection when operating this blanket and when bending PVC conduit.

⚠ DANGER

DO NOT use near flammable materials.

⚠ DANGER

Keep sharp metal objects away from blanket.

⚠ CAUTION

ALWAYS inspect blanket prior to use. DO NOT use blanket if it is worn, torn or cut.

⚠ CAUTION

Blanket has no serviceable parts. DO NOT attempt to repair.

⚠ CAUTION

DO NOT leave blanket unattended. Unplug when not in use.

⚠ CAUTION

Use for heating PVC conduit only. DO NOT use for any other purpose.

⚠ CAUTION

ONLY use the blanket for the specific sizes noted in this manual. Heating PVC conduit in the blanket that is smaller than the size specified will damage the blanket and void the warranty.

⚠ CAUTION

ONLY operate when the full length of the blanket is wrapped around the PVC conduit.

SPECIFICATIONS

Model No.	441	442	443
Overall Dimensions	8½" x 18"	13½" x 30"	16½" x 38"
Capacity – minimum	½"	2"	3½"
– maximum	1½"	3"	4"
Watts	300	800	1300
Volts	120	120	120
Amps	2.5	6.7	10.8

OPERATING INSTRUCTIONS

1. Check PVC Heating Blanket for cuts, tears, burns, exposed wires, frayed edges or frayed cords. DO NOT use if any of these conditions exist. Blanket has no serviceable parts.

2. Place the blanket under the PVC conduit where the bend is to be made. (See Figure 4a).

3. Begin to wrap the PVC Heating Blanket around the conduit. (See Figure 4b). Continue to wrap the blanket snugly around the PVC conduit and secure the blanket in place with the velcro straps. The blanket should overlap the thermostat housing. (See Figure 4c).

4. Next, with the blanket secure around the PVC conduit, support the PVC conduit as shown in Figure 4c. Two 4"x4" pieces of wood are recommended. This is to prevent damage to the heating blanket during the heating process.

5. Plug in the PVC Heating Blanket. As the PVC conduit heats, you can check for softness by pressing on the sides of the blanket. The PVC conduit is ready to bend when it becomes very flexible. UNPLUG THE PVC HEATING BLANKET and unstrap the velcro straps.

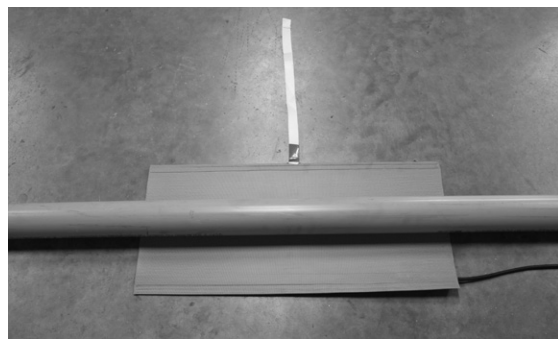


Figure 4a



Figure 4b



Figure 4c

OPERATING INSTRUCTIONS — CONTINUED

6. To bend the flexible PVC conduit, remove it from the PVC Heating Blanket and place on a clean, flat surface and hand bend to the desired angle. The bend can be set by allowing the PVC conduit to cool, or you can decrease this time by rubbing the bend with a sponge or rag soaked in cool water. (See Figure 5a). Remember to keep all liquids away from the PVC Heating Blanket.



Figure 5a

NOTE: To help prevent flattening and crimping of the PVC conduit during the bending process, Current Tools Plug Sets are recommended for 2" and larger PVC conduit.

NOTE: For large numbers of repeat bends, a jig made of wood is recommended.

EXTENSION CORD INFORMATION

We do not recommend using an extension cord over 100' in length. See chart below for proper extension cord size.

Model #	Extension cord wire size
441	18 AWG
442	18 AWG
443	16 AWG

HEATING TIMES – Estimated

Model #	PVC Conduit Size	Approximate heating time (min) Schedule 40	Approximate heating time (min) Schedule 80
441	1/2"	3	4½
441	3/4"	4	6
441	1"	5 ½	6
441	1¼"	6	7
441	1½"	6 ½"	8
442	2"	8	8½
442	2½"	9	11
442	3"	11	12½
443	3½"	9	13
443	4"	10	13

NOTE: Heating time will vary based on many factors including, but not limited to: wind conditions, surrounding temperature, temperature of unheated PVC conduit, line voltage, etc.