



HEATH COMPANY
BENTON HARBOR, MICHIGAN 49022

IMPORTANT INFORMATION regarding the resistors in your kit.

Carbon film resistors have been supplied with your kit in place of many of the carbon composition resistors previously used. Although carbon composition resistors may still be illustrated in your Manual, the values, color codes and installation of these components remain the same.

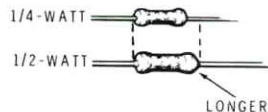
However, there are three important facts you should remember:

1. **All carbon film resistors supplied with your kit have a tolerance of 5%.** You can use them in any assembly step which calls for 5% or 10% tolerance resistors.
2. Carbon film resistors have a greater heat dissipating ability for their physical size than carbon composition resistors.
3. **1/2-watt carbon film resistors may nearly be the same physical size as 1/4-watt carbon film resistors.** However, side-by-side comparison will identify the larger wattage resistor as having the slightly longer body length.

composition



film



Thank you,

HEATH COMPANY



GENERAL
591-2361



IMPORTANT NOTICE

Please make the following changes in your Model GD-1183 Freezer Alarm Manual before you start to assemble the kit.

Page 5 — Cut out the new portion of Page 5 supplied with this Notice and tape it over the corresponding part of Page 5 in your Manual.

KEY No.	HEATH Part No.	QTY.	DESCRIPTION	CIRCUIT Comp. No.
RESISTORS, 1/4-Watt				
A1	6-220-12	1	22 Ω (red-red-black)	R6
A1	6-332-12	3	3300 Ω (orange-orange-red)	R3, R5, R8
A1	6-683-12	2	68 kΩ (blue-gray-orange)	R4, R7
A1	6-105-12	3	1 MΩ (brown-black-green)	R1, R2, R9
CAPACITORS				
A2	21-99	2	.2 μF ceramic	C3, C5
A3	25-880	2	10 μF electrolytic	C1, C6
A4	27-74	2	.01 μF Mylar*	C2, C4
*DuPont Registered Trademark				

Page 6 — Under "Miscellaneous."

Change:	E4	73-92	2	Double-stick foam tape
To:	E4	73-92	2	Double-stick foam tape, <u>large</u>
Add:	E4	<u>73-141</u>	<u>2</u>	<u>Double-stick foam tape, small</u>
Add:		<u>85-2621</u>	<u>2</u>	<u>Rain sensor circuit board</u>

Page 10 — Cut the new Page 10 from this Notice and tape it over the Page 10 in your Manual.

Page 11 — Refer to Pictorial 4 and locate the wire that connects between hole F and SW1 lug 2. Change the length of this wire from 1" to 1-1/4".

Pages 14, 15, and 16 — Cut out the new Pages 14, 15, and 16 from this Notice and tape them over the corresponding pages in your Manual.

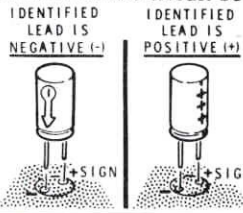
Page 24A — This page tells you how to prepare and install the rain sensor circuit board that is supplied with the kit. Insert Page 24A after Page 24 in your Manual and tape Figure C in your Illustration Booklet.

Thank you,

HEATH COMPANY

START ↘

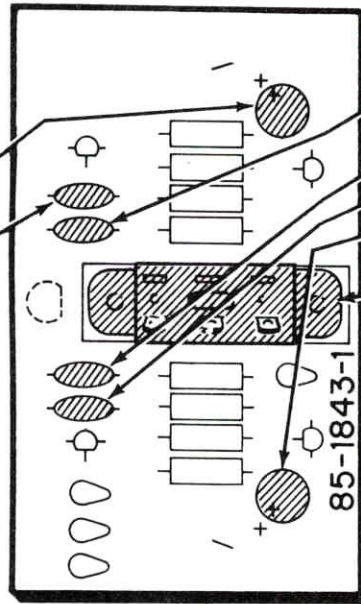
NOTE: When you install electrolytic capacitors, **ALWAYS** position the plus (+) mark on the capacitor toward the plus (+) mark on the circuit board. If the capacitor has only a minus (-) mark on it, position this **away** from the plus mark on the circuit board.



() C1: 10 μ F electrolytic.

() C2: .01 μ F Mylar.

NOTE: When you install ceramic capacitors, do not push the insulated portions of the leads into the circuit board holes. This could make it difficult to solder the leads to the foil. Solder the leads to the foil and cut off the excess lead lengths.



PICTORIAL 3

CONTINUE ↘

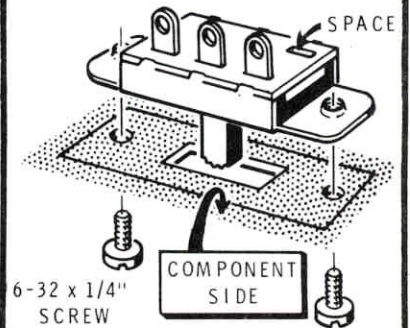
() C3: .2 μ F ceramic.

() C5: .2 μ F ceramic.

() C4: .01 μ F Mylar.

() C6: 10 μ F electrolytic.

() SW1: Install the 2-position slide switch with two 6-32 \times 1/4" screws as shown.



ALARM UNIT TEST

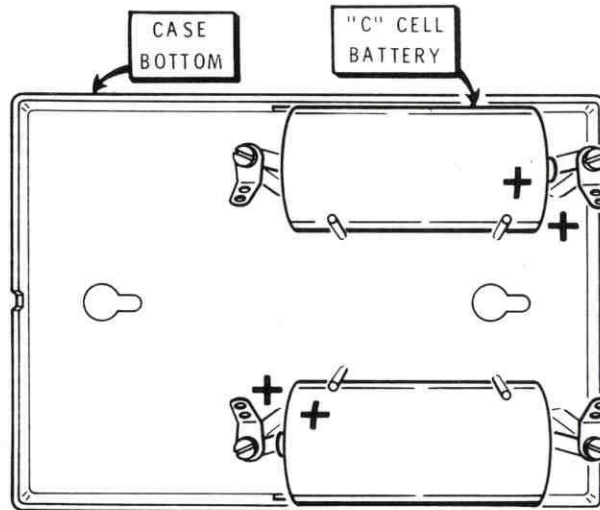
- () Refer to Pictorial 6 and install the batteries. Make sure you position the positive (+) ends as shown.

Refer to Pictorial 7 for the following steps.

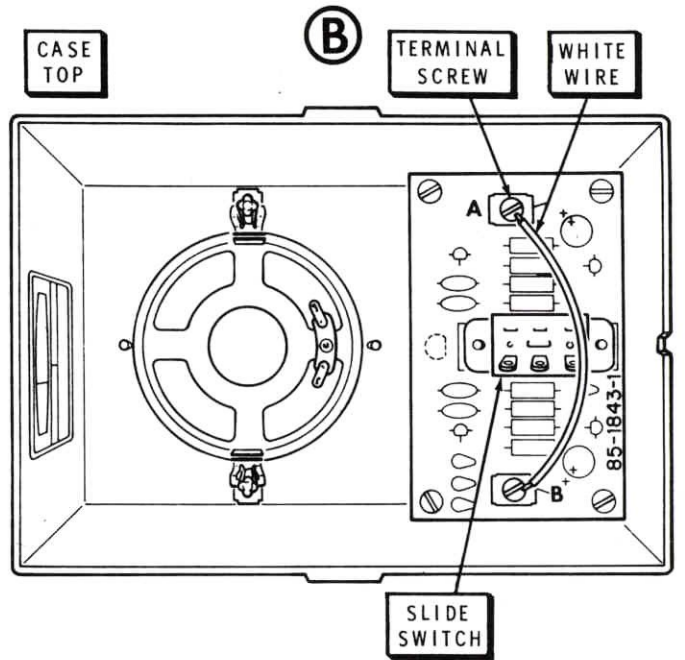
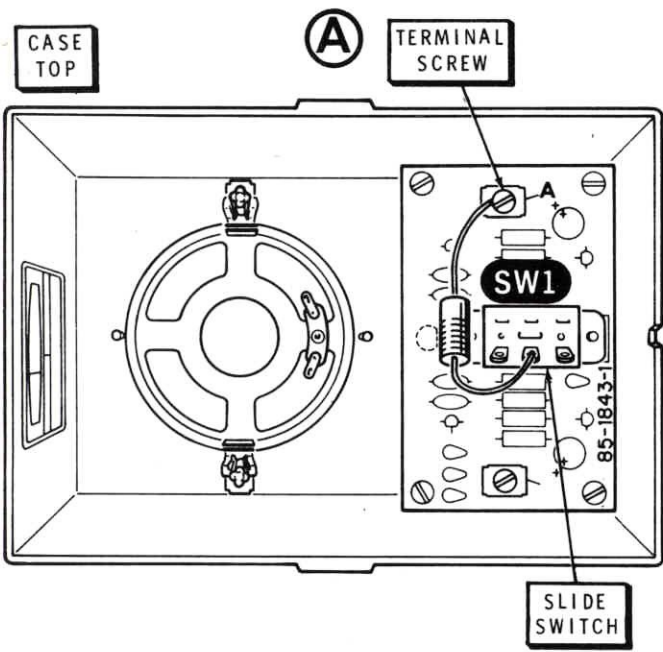
NOTE: If the proper results are not obtained in the following steps, refer to the "In Case of Difficulty" section of the Manual.

- () Locate the 1 M Ω (brown-black-green) resistor previously set aside.
- () Place the slide switch to the ON position. See the top of the case for the correct position.
- () Refer to Part A of Pictorial 7 and grasp the resistor by the body and touch the leads to screw terminal A and lug 2 of switch SW1. The alarm should beep and the LED should flash.
- () Set the resistor aside for use in the "Freezer Cable Assembly."
- () Prepare the remaining white wire.
- () Refer to Part B of Pictorial 7 and simultaneously touch the ends of the wire to the screw terminals. The alarm should beep and the LED should flash at a faster rate than before.
- () Place the slide switch to the OFF position.

This completes the Alarm Unit Test. Set it aside temporarily.



PICTORIAL 6



PICTORIAL 7

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591-3570

RAIN ALARM

One or more rain sensors can be placed on window sills or patio door jambs where rain is likely to enter. Determine the best location for your sensor(s) and provide enough 2-wire cable to run from the sensor to the alarm unit. Then perform the following steps.

- () Prepare one end of the 2-wire cable as shown in Figure A. First separate the cable wires for a distance of 1". Then remove 1/4" of insulation from the end of each wire. Twist the end of each wire and apply a thin film of solder to hold the fine wire strands together.
- () Connect and solder the two cable wires to the two holes in the rain sensor circuit board as shown in Figure B. Cut off any excess wire ends from the foil side of the circuit board.
- () Remove the paper backing from one side of a small double-stick foam tape. Then press the tape onto the plain side of the rain sensor circuit board. The foils must be fully exposed.
- () Refer the Figure C to install the rain sensor on a window sill or patio door jamb. Remove the paper backing from the foam tape and press the sensor in place at the location you chose.
- () Route the cable from the sensor to the alarm unit, and connect the wires to the terminals on the alarm unit.

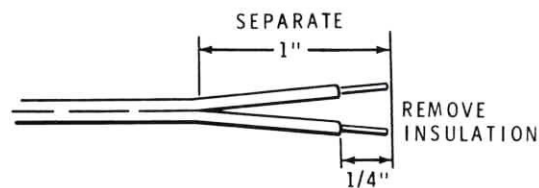


Figure A

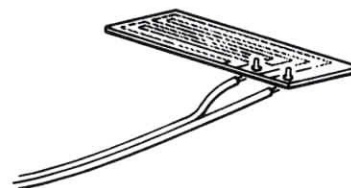


Figure B

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591-3570

Cut

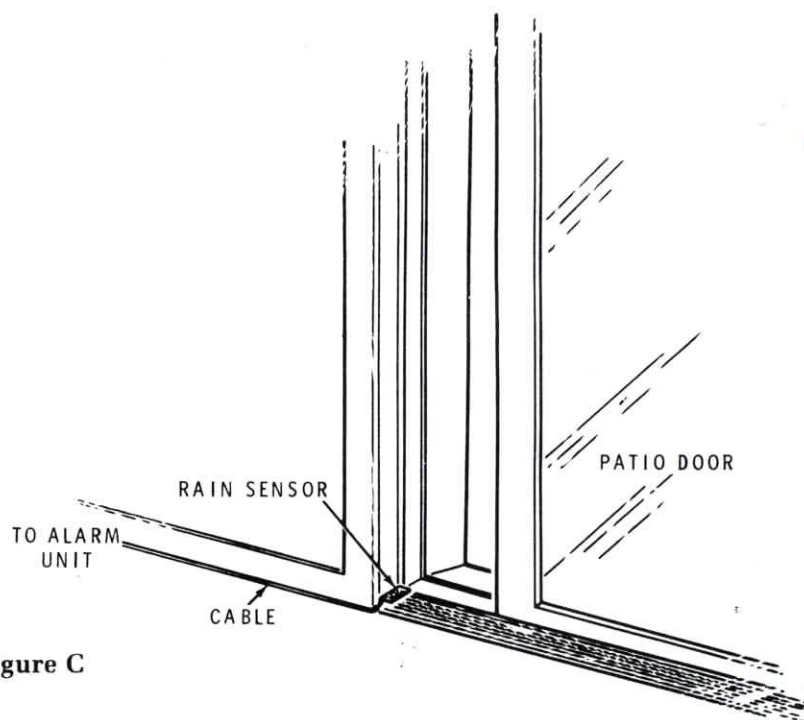
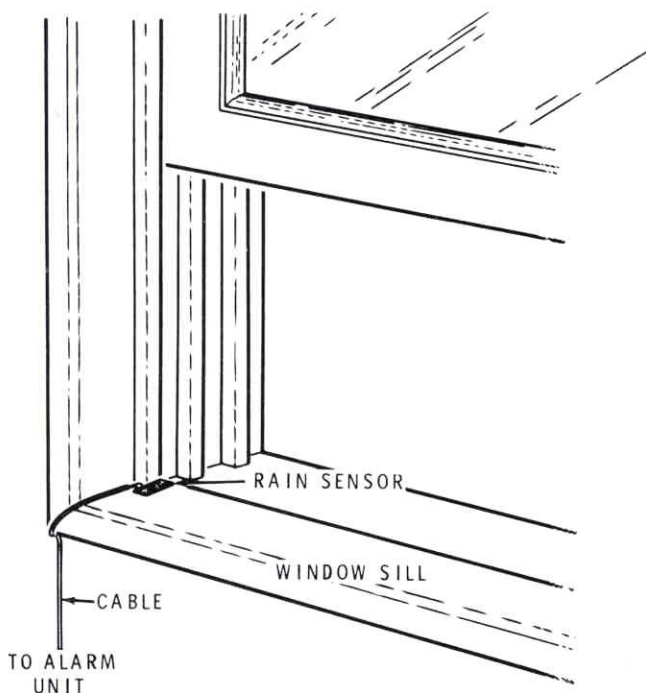


Figure C

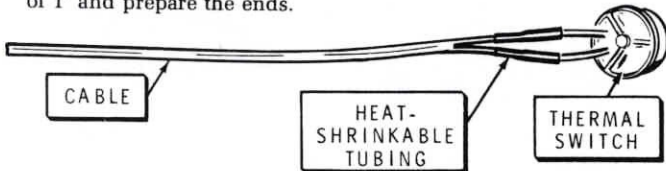
FREEZER CABLE ASSEMBLY

NOTE: Determine the amount of cable you will need to reach from the thermal switch to the place you will install the alarm unit. 25' of cable is supplied with your kit; but you can, if necessary, use longer cables.

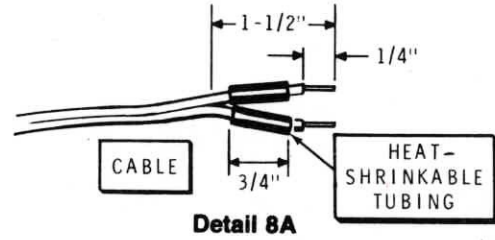
Thermal Switch

Refer to Pictorial 8 for the following steps.

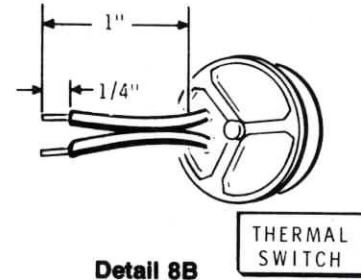
- () Separate the wires on the cable for a distance of 1-1/2" and prepare the ends as shown in Detail 8A.
- () Cut two 3/4" lengths of heat-shrinkable tubing and slide one over each of the leads.
- () Refer to Detail 8B and cut the leads on the thermal switch to a length of 1" and prepare the ends.



PICTORIAL 8



Detail 8A



Detail 8B

