

## TL MICROWAVE RADIO GENERAL INFORMATION CABINET EQUIPMENT — MISCELLANEOUS ITEMS

### 1. GENERAL

1.01 This section describes the maintenance and attention required by miscellaneous items of the TL microwave radio outdoor equipment. This includes air filter replacement, air vent control, doorstop operation, and lightning arrester replacement.

### 2. VENTILATION

2.01 Two openings are provided in the TL microwave radio cabinet for ventilation purposes. Air enters through one opening, located in the bottom of the cabinet, and is drawn by means of two fans out through the second vent located at the upper rear of the cabinet. The upper vent is shown in Photograph A. A KS-19116, List 1 filter is provided in the bottom vent to prevent dust from entering. *This filter should be replaced as often as required to ensure its effectiveness in passing air and preventing dust from reaching the equipment.* The copper screen in the lower vent should be cleaned as often as necessary to prevent blocking the passage of air. The upper vent may be manually opened or closed as required by changes in environmental temperature. It is recommended that the vent be opened during that part of the year when the normal maximum ambient temperature is above 60 F, and be closed when the normal minimum ambient temperature is below 20 F.

### 3. FAN MAINTENANCE

3.01 No maintenance is required for the two fans in the cabinet. If a fan becomes inoperative, it should be replaced. However, since during winter months the fans will have been idle, it is recommended that during the beginning of each spring season the thermostat, which controls their operation, be checked as follows:

Hold a heated soldering iron on the thermostat Photograph A, and observe that the fans operate. Do not hold the soldering iron on the thermostat after the fans operate. If the fans do not operate, replace the thermostat.

### 4. DOORSTOP OPERATION

4.01 There is a doorstop provided at the top of each door which may be arranged to permit the doors to open as shown in either Fig. 1(A) or (B). The stop is normally set to permit the doors to open as shown in Fig. 1(A). To open the doors wider as in Fig. 1(B), remove the pin on the doorstop shown in Fig. 1(C). After the doors are opened, they should be locked in place by pressing the locking lever down (see Photograph A). Photographs B and C show the doorstop with the pin in place and with the pin removed.

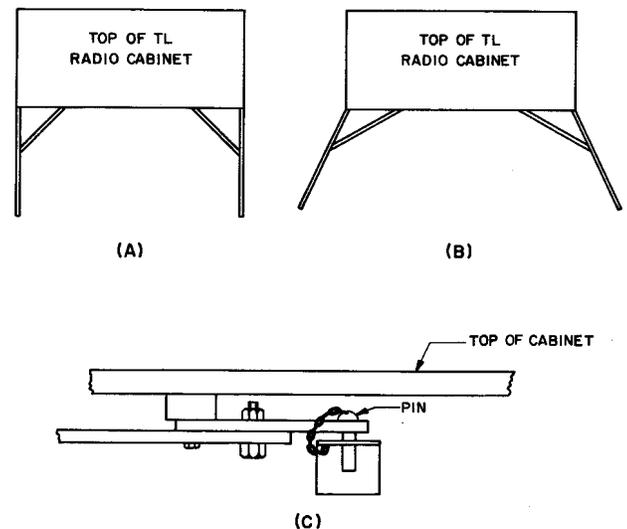


Fig. 1 — Doorstop Operation

**5. LIGHTNING ARRESTER REPLACEMENT**

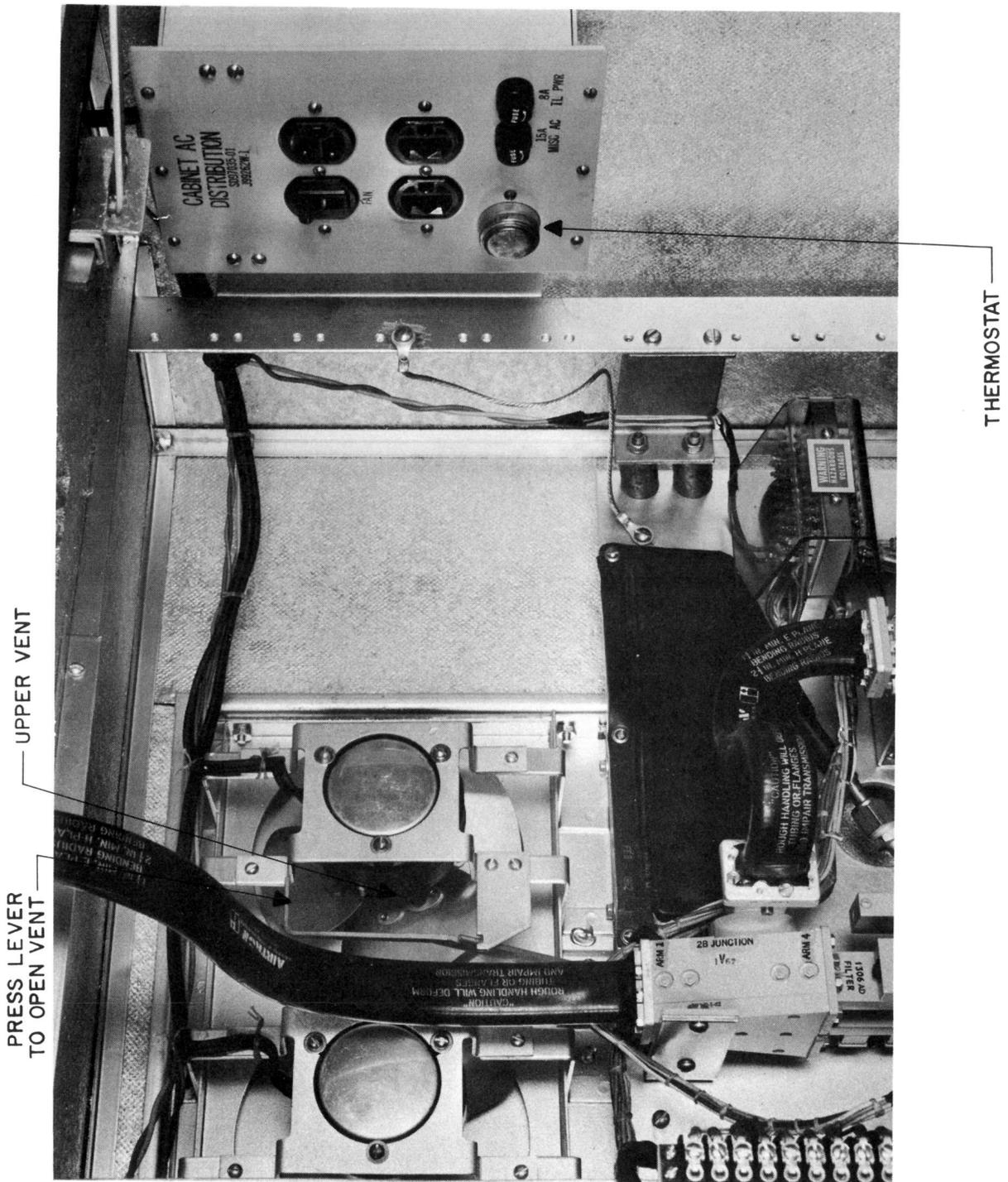
**5.01** When the lightning protection circuit is used, fuses are provided to protect the radio circuits from damage due to lightning. If these fuses open, an alarm will be initiated at the control center. When the fuses are replaced, the varistor unit and the protection block in the lightning protection circuit should be visually examined, and if defective, be replaced.

**6. PHOTOGRAPH LIST**

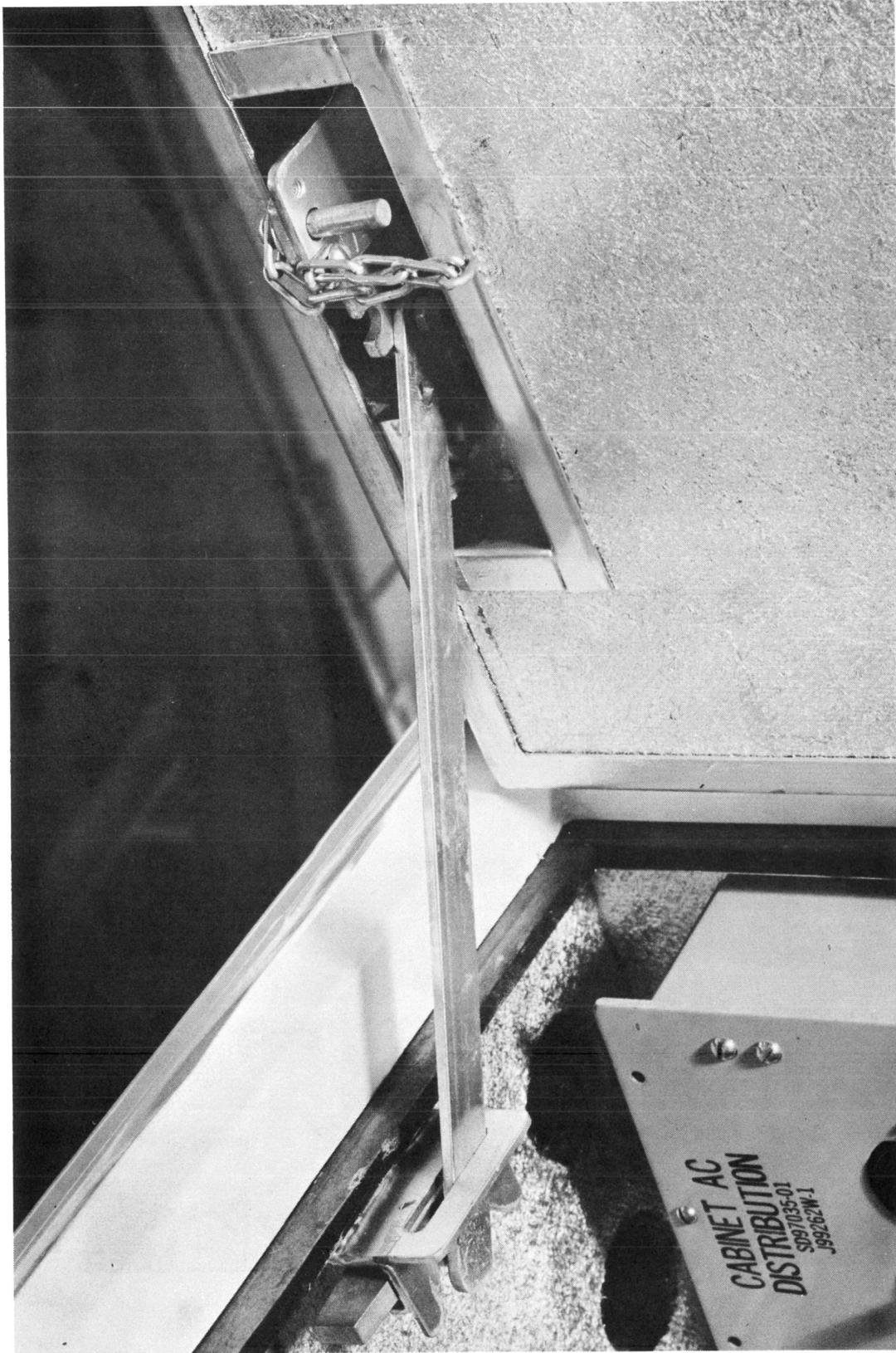
**A. Photographs**

**6.01** The following photographs are attached.

<b>DESIGNATION</b>	<b>SUBJECT</b>	<b>SUPPLE- MENTARY PAGE</b>
A	Cabinet Ventilation	101
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Cabinet Ventilation



Doorstop with Pin in Place



Doorstop with Pin Removed