

**THERMAL RELAYS**  
**KS-13542, KS-13543, KS-13782, KS-13977, KS-13991**  
**AND KS-14082**  
**REQUIREMENTS AND ADJUSTING PROCEDURES**

1. GENERAL

1.01 This section covers KS-13542, KS-13543, KS-13782, KS-13977, KS-13991 and KS-14082 relays.

1.02 Reference shall be made to Section 020-010-711 covering general requirements and definitions for additional information necessary for the proper application of the requirements listed herein.

2. REQUIREMENTS

2.01 Timing Requirements

(a) The relay (Fig. 1) shall operate and release within the time limits and under the circuit conditions specified on the circuit requirement table. Use the KS-3008 stop watch or equivalent.

Caution: The relay shall be tested in the position in which it is mounted in the circuit as the mounting position affects the characteristics of the relay.

(b) On applications where no requirements are given on the circuit requirement table the relay shall be considered satisfactory if the circuit functions as described in the circuit description.

3. ADJUSTING PROCEDURES

3.001 List of Gauges

| <u>Code or Spec. No.</u> | <u>Description</u> |
|--------------------------|--------------------|
| KS-3008 or equivalent    | Stop Watch         |

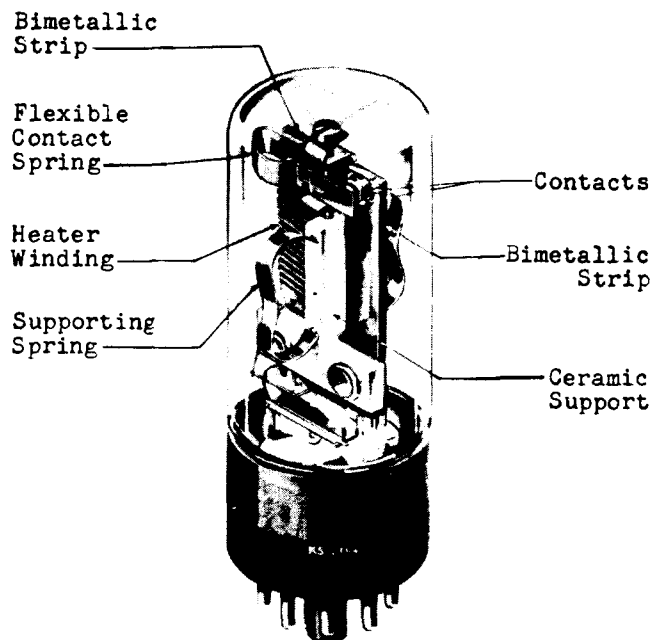


Fig. 1 - Thermal Relay

3.01 Timing Requirements (Rq. 2.01)

(1) If the relay fails to meet its timing requirements or if the circuit fails to function as described in the circuit description, it is an indication that the relay has been damaged in handling or shipment or is otherwise unsatisfactory for service. Since no provision is made for adjusting the relay, replace it.