

RELAYS
L, N AND S TYPES
REQUIREMENTS
(CONDENSED SECTION FOR 040-514-701)

1. REQUIREMENTS (Also See Section 020-012-711)

1.01 Clearance Between Contact Spring and Retractable Spring: Fig. 1(A) — Contact spring and its support shall not touch sides of slot in retractile spring in operated or unoperated position of armature.

- (1) Min 0.006 inch between bracket and spoolhead.
- (2) 1/64 inch between top of spreader and cover, or insulate cover above spreader with single layer of scotch cellulose tape, if cover is not already so insulated.

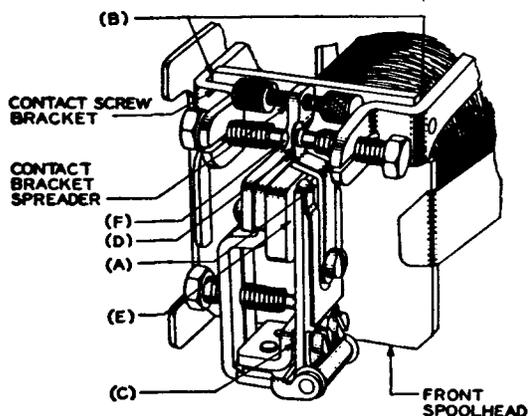


Fig. 1 — Relay Equipped With Contact Bracket Spreader

1.02 Armature Movement: Free in bearings— (does not apply to reed-type relays).

1.03 Contact Screw Bracket Pressure: 285 grams against spoolhead or nuts of contact bracket spreader. No. 62B gauge.

1.04 Contact Screw Bracket Position

- (a) All relays:
 - (1) Studs on brackets fall within slots in spoolhead.
- (b) Relays with contact bracket spreader, Fig. 1(B):

1.05 Base Gap (Readjust Only): Fig. 1(C) — Min 0.009 inch, Max 0.011 inch. No. 74D gauge.

1.06 Contact Spring Pressure

Relays with Flexible Contact Springs

- (a) Fig. 1(D): Min 3, Max 7 grams against spring support. No. 70F gauge. For "test" the requirement is met if contact spring rests on support at least within 1/16 inch of extreme end of support.

Relays With Solid Contact Springs

- (b) 400 grams against top edge of retractile spring or armature. No. 62B gauge with armature removed. For "test" the requirement is met if:

- (1) Contact spring rests on top edge of retractile spring or armature.
- (2) If contact spring rests on retractile spring, the top edge of retractile spring underneath contact spring shall rest on armature.

1.07 Armature Travel: Fig. 1(E) — Min 0.009 inch, Max 0.011 inch. No. 74D gauge.

1.08 Contact Separation: Fig. 1(F) — Min 0.003 inch, Max 0.005 inch. No. 74D gauge.

1.09 Electrical Requirements: For relays with covers, meet requirements with cover on, cover cap on or off.