

412A KEY TELEPHONE UNIT

IDENTIFICATION, CONNECTIONS, AND MAINTENANCE

1. IDENTIFICATION

(a) *Purpose*

- Auxiliary (slave) relays for control of visual signals, buzzers, ringers, etc, or as required by field.

(b) *Design Features* (Fig. 1)

- Equipped with 21-pin plug designed to plug into the same receptacle (KS-8586, L32 connector) as KS-15900, L1 interrupter.
- Four mercury relays each equipped with two make contacts.
- Relay windings and contacts have protection networks for dc loads.
- Relays can be used individually or grouped as desired.
- Five-millisecond release time makes this unit desirable for extending lamp functions (lamp flash — lamp wink) from a master interrupter.
- Each contact rated at 2 amps or the equivalent of 50 lamps (51A).
- Current drain at 20 volts dc minimum voltage is 9 ma per relay.

(c) *Application*

- (1) With 584B and modified 584A panels: (Fig. 2)

- Synchronizes lamp functions (lamp flash — lamp wink) in centralized 1A2 key system arrangements having up to 200 panels.
- Installed in succeeding panels under control of an interrupter in master panel.

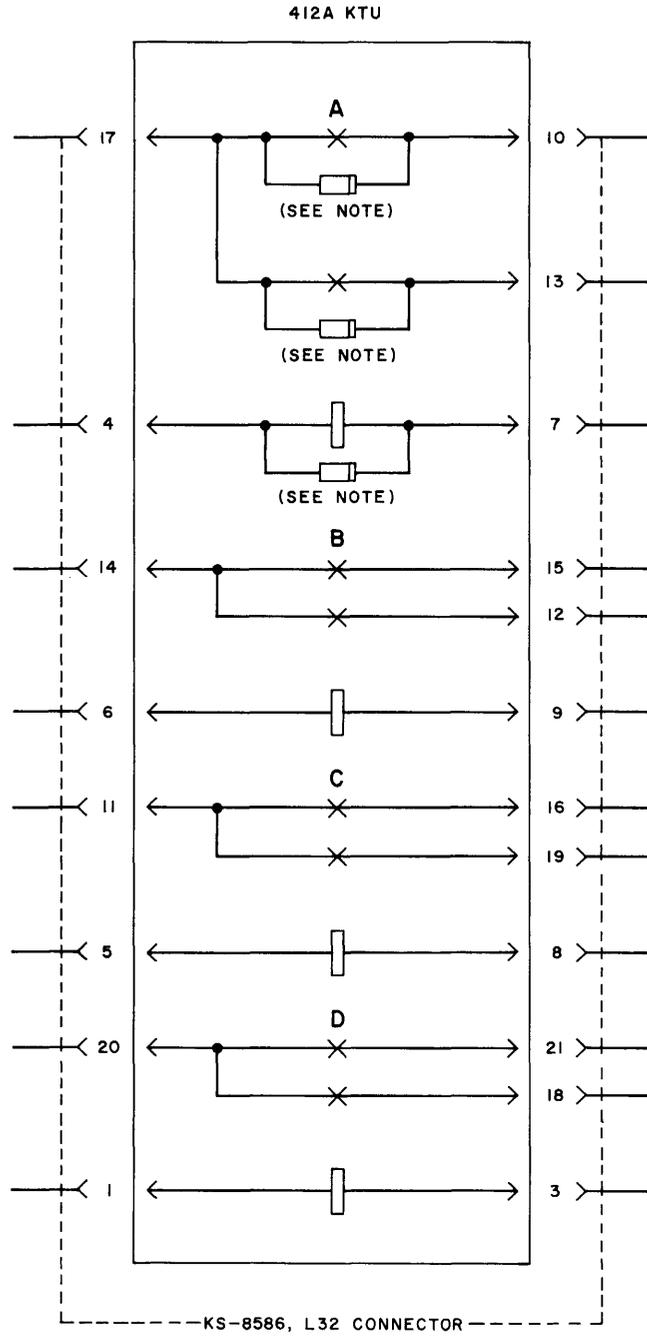
2. CONNECTIONS

- 2.01 For use with 584A and B panels, see Section 518-270-401.

3. MAINTENANCE

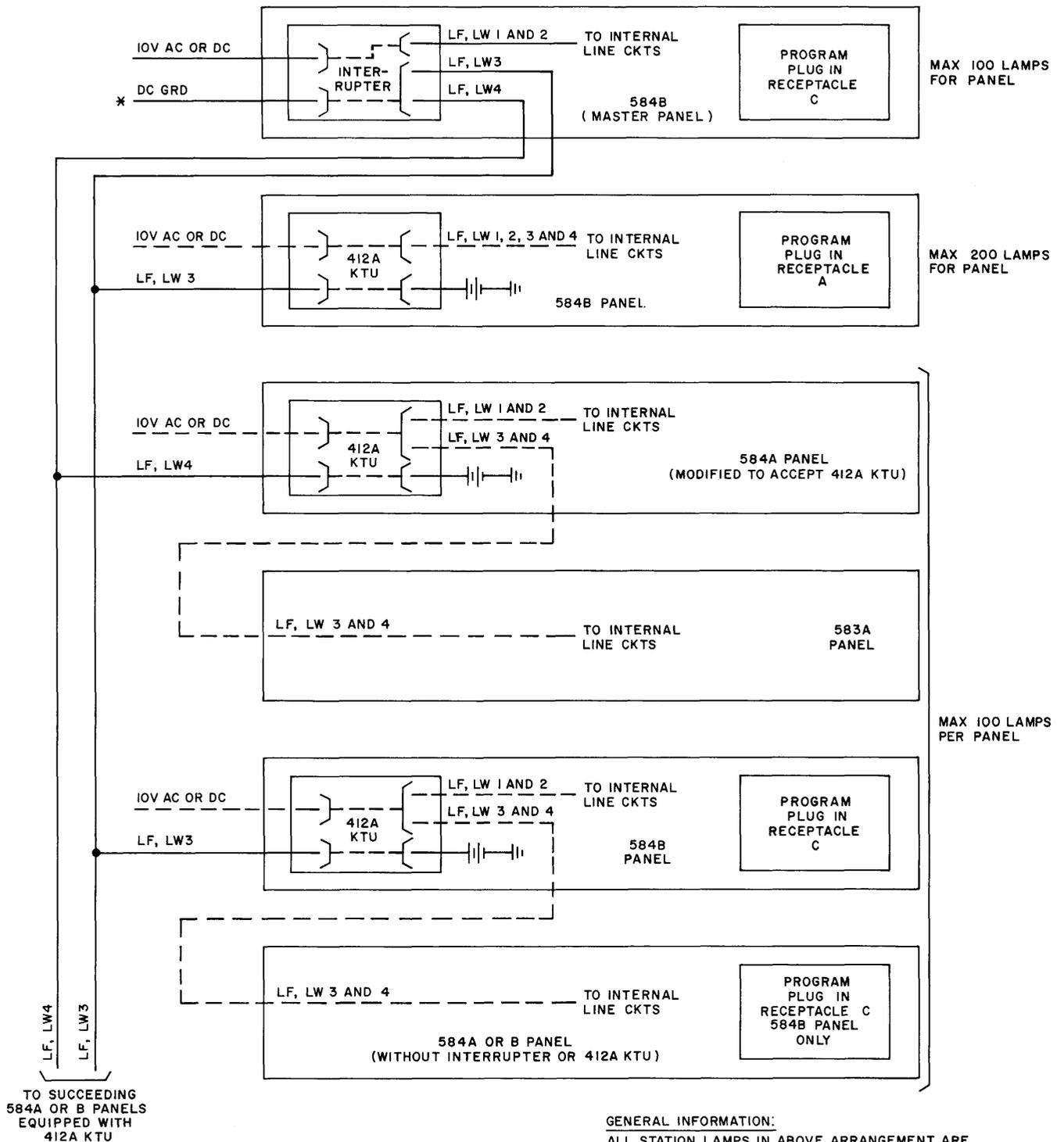
- 3.01 No field adjustment should be attempted on this unit. If it is determined the trouble is in the KTU it should be replaced by one known to be good.

Caution: Care must be taken when removing or installing unit in 584A or B panels. Relays may be in the operate state depending on the condition of the master interrupter.



NOTE:
EACH RELAY EQUIPPED WITH
PROTECTION NETWORKS.

Fig. 1 — Schematic Drawing of 412A KTU



GENERAL INFORMATION:

ALL STATION LAMPS IN ABOVE ARRANGEMENT ARE IN SYNCHRONISM. WITH THIS ARRANGEMENT, ANY LINE CIRCUIT EITHER IN THE FIRST OR THE LAST PANEL CAN BE ASSIGNED TO THE SAME TELEPHONE SET.

* WHEN MORE THAN ONE POWER PLANT IS USED FOR A SYSTEM, ALL GROUNDS MUST BE COMMON.

Fig. 2 — Use of 412A KTU with 584B and Modified 584A Panels