

## STATION SYSTEMS - POWER SUPPLY

### INSTALLATION AND MAINTENANCE

#### 1.000 INTRODUCTION

- This addendum supplements Section C70.026. It is issued to add voltage requirement information when associating 1A KTS with a 555 PBX. It also covers general information and some restrictions for equipment installed in the city of San Francisco.

- This addendum shall be retained with subsequent issues of the section unless reissued or cancelled.

#### 2.000 GENERAL

2.001 Add the following paragraphs to the section:

- Whenever additional voltage is required to operate 1A key telephone systems (50 type KTU, 1A KTU but not 1B KTU) associated with 555 PBX equipment, arrangements as shown in Fig. 1A (Dwg. H3075) may be used.
- In areas where the commercial power supply is considered satisfactory, an occasional interruption should not cause serious complaint as partial service can be provided through night connections. If the power supply is not reasonably dependable, the use of a power unit without batteries would not be feasible. At hospitals, police departments and similar vital services, any service interruption should be avoided; therefore, battery reserve should be provided.

CAUTION: THE 101-J POWER PLANT, WHEN MOUNTED CLOSER THAN 8 INCHES TO 6A KEY EQUIPMENT (222A KTU), WILL INDUCE "AC" HUM INTO THE "TB1" RELAY OF 222A KTU CAUSING NOISE ON COMMUNICATING LINE.

#### 3.000 SPECIAL CONSIDERATIONS

3.001 Add the following special considerations to the section:

- In locations where local regulations specify mounting arrangements and methods for connection to the 115 volt A-C service outlet for the various type power supply units for customer equipment (including 101-G power plants, stepdown transformers, and Rectox rectifiers), the installation procedure should conform to requirements outlined in local electrical codes. As an example:

The city of San Francisco will permit the use of a cord and plug arrangement for connecting the various customer equipment power units to the 115 volt A-C service outlet without location restriction, provided that the case or frame of the unit is grounded and the service cord does not exceed 24 inches in length.

- In compliance with the local Electrical Code covering the city of San Francisco, the case and frames of the various power supply units for customer equipment, shall be grounded. This may be

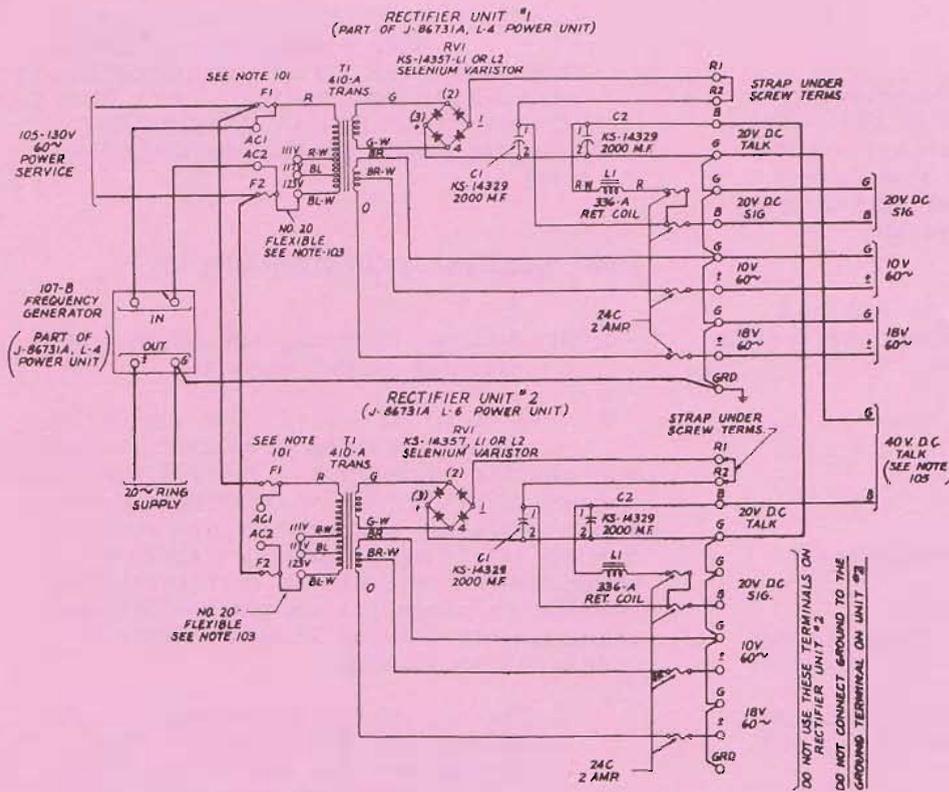
accomplished either by extending No. 14 ground wire from the frame of the power unit to a water pipe or to the conduit housing the A-C service outlet receptacle, whichever is the most convenient.

- Terminal punchings per P52955 soldered to the No. 14 gauge ground wire provide a suitable method for connecting the ground wire to the frame of the power unit, using any convenient existing

screw. To connect the ground wire to the conduit ground, place the terminal punching on the opposite end of the ground lead under one of the flush plate screws on the receptacle. The terminal punching may be ordered as follows:

Quantity - P52955 Terminal Punching.

- It is assumed that the conduit system is grounded as required by the National Electrical Code.



CIRCUIT NOTES:

- 101 FUSES (F1) AND (F2) SHOULD BE MDL 2 FUSETRONS
- 102 LEADS NOT FURNISHED WITH APPARATUS SHOULD BE 20 AWG SOLID.
- 103 THE TAP ON THE PRIMARY OF THE POWER TRANSFORMER SHOULD BE CONNECTED TO A TERMINAL WHICH WILL LIMIT THE TALKING BATTERY OUTPUT TO A MAXIMUM OF 50 VOLTS.
- 104 REPLACE THE K2 LAMPS WITH 2Y LAMPS WHEN THIS RECTIFIER ARRANGEMENT IS USED.
- 105 WHEN THIS ARRANGEMENT IS USED WITH ONE POSITION OF 555 PBX, REPLACE THE 2 AMP 24C FUSES IN THE 20V TALK CIRCUITS WITH 1 1/2 AMP 24G FUSES. WHEN USED WITH TWO POSITIONS OF 555 PBX, LEAVE THE 2 AMP FUSES IN PLACE IN THE RECTIFIER, BUT FUSE THE BATTERY SUPPLY LEADS TO EACH POSITION WITH 1 1/2 AMP FUSES.

Fig. 1A