P1 CARRIER TELEPHONE SYSTEM

ALTERNATE SYSTEM LINE-UP

PREPARATION

1.00 GENERAL

1.01 Install all central office terminals per section entitled P1 Carrier Telephone System, Central Office Terminal, Installation.

1.02 Verify, by dc continuity test or use of tone, that carrier pair is good between P1 carrier terminals and protectors on the distributing frame.

1.03 Connect carrier pair to terminal equipped with 800A line network. Cross connect each derived voice-frequency circuit to central office subscriber line circuit.

1.04 Disconnect derived voice-frequency circuits of this system by disconnecting wires from screw terminals 11 and 26 on board A or by placing 258C plugs in DER VF jacks of all channels.

2.00 CHECK CENTRAL OFFICE TERMINAL VOLTAGE

2.01 On KS-14510 meter, turn selector to DC VOLTS, 60 position.

2.02 Read voltage across screw terminals 14 and 15 on board A of first terminal, positive lead to 14.

Requirement: 21.5 to 23.5 volts dc

Repeat 2.02 on all terminals. If requirement is not met, refer to drawing T-95231-30 to correct.

3.00 CHECK TEST SET BATTERIES

3.01 Ground 7F test set with 1W13B cord or equivalent.

3.02 Operate BAT switch to ON position.

3.03 Turn BATTERY TEST switch to positions A1, A2, A3, A4, and B1, and observe that DECIBEL meter needle is to the right of BAT mark for each position.

3.04 Turn BATTERY TEST switch to B2 position. Remove cord from REC jack and turn DET SENS-db switch to +10 position.

3.05 Turn ADJ B2 potentiometer until DECIBEL meter needle points to BAT mark.

Note: Recheck these requirements at periodic intervals during the time test set is turned on. Receive cord must be removed from test set for these checks. If requirements in 3.03 and 3.05 are not met, replace test set batteries and repeat 3.03, 3.04, and 3.05.

3.06 Return BATTERY TEST switch to NORM position.

3.07 Turn NOISE FLT switch to OUT position.

4.00 CHECK CENTRAL OFFICE TERMINAL OUTPUT POWER

4.01 Turn DET SENS-db switch to +10 position.

4.02 Turn REC switch to DET HI-IMP.

4.03 Connect receive cord from REC jack on test set to CARR and yellow dot test points on board A in terminal employing 800A line board: red to CARR, black to yellow dot.

4.04 On all but this terminal, place a W1Y cord (shorting strap) across MOD test points on the B board.

4.05 DECIBEL meter should read between —2 and —6 (+8 to +4 dbm) if no output pad is installed in terminal. If an output pad is installed in terminal, DECIBEL meter should read —2 to —6 minus the output pad value. For example, if a 4-db output pad is installed in terminal, DECIBEL meter should read —6 to —10 (+4 to 0 dbm).

4.06 Move W1Y cord from second terminal to MOD test points on board B of first terminal.

4.07 Repeat 4.05 and 4.06 on each succeeding terminal of the system.

Note: If no signal is present, check multiple wiring between terminals. If a reading is not within the requirement, remove terminal (on which the MOD jacks are not shorted) from line and perform the transmitting portion of terminal adjustment. If readings indicate too much power, check carrier line.

4.08 Remove W1Y cords (shorting straps) and test set leads from all terminals.

4.09 For the remainder of system line-up, the carrier pair must be prepared for carrier operation. All line networks must be properly connected including autotransformers, blocking networks, carrier line termination, etc. It is also very important to ensure that all bridged taps not equipped with networks are removed from carrier line.