

## 96A1 ELECTRONIC LOOP REPEATER

### SUMMARY OF TESTS

#### 1. GENERAL

1.01 This section provides a summary of the circuit order and periodic tests and adjustments required for the 96A1 electronic loop repeater.

1.02 This section is reissued to include information pertaining to the use of KS-21703 hybrid integrated networks (HINs) in place of the 396A electron tubes. Revision arrows are used to emphasize the more significant changes.

1.03 The 96A1 electronic loop repeater tests and adjustments covered in this section, including electron tube tests, are to be performed on any 165B1 test set. Testing of the 262-type switches requires a 165B1, list 6 test set. Testing of the KS-21703 HINs requires a KS-21697 HIN Tester. These tests require dismounting the repeater from the bay or removal of the electron tubes, 262-type switches, or KS-21703 HINs from the repeater. It is assumed that a spare repeater, known to be operating properly, will be available for substitution purposes when it is necessary to perform tests and/or adjustments on a repeater assigned to a working circuit.

1.04 Procedures for operation tests and adjustments such as transmission tests, loop pad adjustments, repeater substitutions, etc, are covered in BSPs pertaining to the serviceboard or testboard involved.

1.05 All tests and adjustments covered in this section, together with test periods and references, are summarized in Table A.

#### 2. CIRCUIT ORDER TESTS AND ADJUSTMENTS

2.01 The tests and adjustments listed in the Table A column headed CIRCUIT ORDER are to

be made in connection with circuit order work which *initially* places a repeater in service.

#### 3. PERIODIC TESTS AND ADJUSTMENTS

##### A. Turn Down (TD)

3.01 The tests and adjustments listed in the Table A column headed PERIODIC TESTS/TD are to be made before a repeater is returned to service after having been turned down due to operating irregularities.

##### B. Tube Replacement (TR)

3.02 The tests and adjustments listed in the Table A column headed PERIODIC TESTS/TR are to be made on repeaters following the replacement of any electron tube, 262-type switch, or KS-21703 HIN.

##### C. As Required (AR)

3.03 The tests and adjustments listed in the Table A column headed PERIODIC TESTS/AR are to be made as required when investigating any operating irregularity.

##### D. 12-Month Interval (12M)

3.04 The tests and adjustments listed in the Table A column headed PERIODIC TESTS/12M are to be made on any repeater when such tests and/or adjustments have not been performed for any other purpose (ie, TD, TR, or AR) during a 12-month interval.

#### NOTICE

Not for use or disclosure outside the  
Bell System except under written agreement

TABLE A

**96A1 ELECTRONIC LOOP REPEATER  
SUMMARY OF CIRCUIT ORDER AND PERIODIC TESTS**

TESTS OR ADJUSTMENTS	CIRCUIT ORDER (SEE PART 2)	PERIODIC TESTS (SEE PART 3)				REFERENCES
		TD	TR	AR	12M	
Electron Tube and 262-Type Switch Tests	X	X		X	X	312-405-500 96A1 Electronic Loop Repeater 103-824-501 165B1 Test Set
KS-21703 HIN Tests	X	X		X	X	312-405-500 96A1 Electronic Loop Repeater
Neutral Loop Current	X	X	X	X	X	312-405-500 96A1 Electronic Loop Repeater 103-824-501 165B1 Test Set
RL Lead Current	X	X	X	X	X	312-405-500 96A1 Electronic Loop Repeater 103-824-501 165B1 Test Set
Duplex Control Circuit	X	X	X	X	X	312-405-500 96A1 Electronic Loop Repeater 103-824-501 165B1 Test Set
Bias Adjustment	X	X	X	X	X	312-405-500 96A1 Electronic Loop Repeater 103-824-501 165B1 Test Set
Trouble Tests				X		312-405-500 96A1 Electronic Loop Repeater