

REPLACING PAGE ADDENDUM

Filing Instructions:

1. REMOVE FROM THE SECTION THE PAGES NUMBERED THE SAME AS THOSE ATTACHED TO THIS PINK SHEET.
2. INSERT THE ATTACHED PAGES INTO THE SECTION IN THEIR PLACE.
3. PLACE THIS PINK SHEET AHEAD OF PAGE 1 OF THE SECTION.

SENDERS

**OPERATION TESTS USING SENDER, IDENTIFIER, AND TRANSVERTER TEST CIRCUIT
STEP-BY-STEP OFFICES ARRANGED FOR AMA**

1. GENERAL

1.001 This addendum supplements Section 227-239-500, Issue 2. The pages must be inserted in the section in accordance with filing instructions above.

1.002 This addendum is reissued to correct Test X.

4. METHOD

Test X revised.

5. PREPARATION OF TEST CHART

5.03 changed to add except when specified in test.

Attached

Page 15 dated October 1967, reissued
Page 16 dated October 1967, revised
Page 23 dated October 1967, revised

STEP	ACTION	VERIFICATION
14	At switchboard — Answer call.	Answer lamp extinguished.
15	Disconnect, immediately insert plug into monitoring trunk busy jack for about 2 minutes.	Call completed. Sender releases.
16	At test circuit — Operate ST key for approximately 2 seconds, then release it.	Call completed. Sender releases.
17	Set called number switches for route for which MBI is above cutoff point and for which rate switching in identifier is not required.	
18	Operate ST key for approximately 2 seconds, then release it.	At switchboard — Sender monitor answer lamp lights. If test circuit is equipped with delayed out-pulsing feature — ED lamp lights. Note: If monitoring trunk is busy, PB lamp lights.
19d	If monitoring trunk is busy — Operate CA key momentarily.	PB lamp extinguished.
20d	Repeat Step 18 in approximately 30 seconds.	
21	At switchboard — Answer call.	Answer lamp extinguished.
22	Disconnect, immediately insert plug into monitoring trunk busy jack for approximately 2 minutes.	Call completed. Sender releases.
23	Operate ST key for approximately 2 seconds, then release it.	PB lamp lights.
24	Operate CA key momentarily.	PB lamp extinguished.
25	Operate PC key momentarily.	Test circuit advances to next sender.
26	Repeat Steps 11 through 25 for each sender to be tested.	
27e	If transfer key is provided at switchboard — Operate transfer key.	
28e	Repeat Steps 11 through 25 for one sender in each sender group, performing tests at switchboard night position.	
29	Restore ITR, 2TF, MON, SMC, REP, TR keys.	
30	Operate RN key momentarily.	Test circuit returns to normal. All lamps extinguished.

STEP	ACTION	VERIFICATION
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X. Identifier Release Feature

→ 10	Select an identifier by operating any I- key.	
→ 11	Operate SYT, ITR keys.	
12d	If sender is not equipped with delayed outpulsing feature — Set called number switches for route which requires F2N as first digit in sender, using any outpulsing class except MFC1 or MFC2.	
13c	If sender is equipped with delayed outpulsing feature — Set called number switches for route which requires F2N as first digit in sender, using outpulsing class SSC1 or SSC2.	
14	Operate ST key.	When all senders have been tested — EC lamp lights.
→ 15	Restore ST, SYT, ITR, I- keys.	
16	Operate RN key momentarily.	Test circuit returns to normal. All lamps extinguished.

Y. Second Sender Time-Out Interval — Unrestricted Message Billing Index Call

10	Operate TTB key.	
11	Set called number switches for route for which MBI is below cutoff point.	
12	Operate ST key.	IRL lamp lights. In approximately 30 seconds, audible alarm sounds. <i>Note:</i> IRL lamp furnished only when test circuit is equipped to test delayed outpulsing feature of senders.
13	Operate GB key momentarily.	Audible alarm silenced. Sender releases.
14	Operate CA key momentarily.	Test advances to next sender. When all senders have been tested — EC lamp lights.
15	Restore ST, TTB keys.	
16	Operate RN key momentarily.	Test circuit returns to normal. All lamps extinguished.

Z. Third Sender Time-Out Interval — Trunk TP Relay Failure

10	Operate TTC, PTO keys.	
11	Operate ST key.	TC lamp lights. In approximately 20 seconds (see note), TC lamp extinguished. Approximately 10 seconds later, audible alarm sounds, TGB lamp lights. <i>Note:</i> Time will be approximately 30 seconds in senders not equipped with delayed outpulsing feature, if end of dialing occurs more than 10 seconds after TC lamp lights.

STEP	ACTION	VERIFICATION
16	Restore SP2, SP3 keys.	
17	Remove make-busy plug from SP1 jack.	
18	Operate CA key momentarily.	Test advances to next sender. When all senders have been tested — EC lamp lights.
19	Repeat Steps 12 through 18.	
20	Restore ST, TTA, KI keys.	
21	Remove pulse checking equipment from SP jack.	
22	Operate RN key momentarily.	Test circuit returns to normal. All lamps extinguished.

5. PREPARATION OF TEST CHART

5.01 A test chart should be made up locally covering the setting of the keys of the test circuit for the various tests. The information for filling out the chart should be obtained from the office records and from the procedures given in Part 4.

5.02 It is intended that an individual test chart be prepared for each AMA installation, simulating test calls from a particular customer class to a telephone number in a terminating office. The chart should be enclosed in a plastic or similar type protective covering and located at the sender, identifier, and transverter test circuit.

5.03 The test pattern should apply only to senders and no attempt should be made to include tests of all the identifiers or transverters, but rather a random selection of the latter circuits should be made by allowing the I- and TV- keys to → remain normal except when specified in test.

5.04 The chart should be arranged to cover:

AMA Tests

- (a) Arbitrary digits to be outputted preceding the code digits.
- (b) Foreign area code.
- (c) Called office code.
- (d) Called line numerals.

- (e) Fifth numerical.
- (f) Number of code digits to be outputted preceding the called numerals.
- (g) All types of outputting.
- (h) Code information to operate route relay.
- (i) Tip party of 2-party flat-rate lines.
- (j) First digit to be pulsed into sender.
- (k) MBI above cutoff point and below cutoff point.

CZ Tests (CZ key operated)

- (l) Arbitrary digits to be outputted preceding the code digits.
- (m) Called office code.
- (n) Called line numerals.
- (o) Fifth numerical.
- (p) Number of code digits to be outputted preceding the called numerals.
- (q) All types of outputting.
- (r) Code information to operate route relay.
- (s) First digit to be pulsed into sender.
- (t) MBI.

5.05 For AMA tests, calling number and class information is required. See Section 227-221-500 for preparation of this information.