

**NUMBER NETWORK AND IDENTIFIER FRAME
AUTOMATIC NUMBER IDENTIFICATION—TYPE C
NO. 1, 350A, 355A, AND 35E97 OFFICES
EQUIPMENT DESIGN REQUIREMENTS
STEP-BY-STEP SYSTEMS**

1. GENERAL

1.001 This addendum supplements Section 814-203-150, Issue 2.

1.002 This addendum is issued:

- (a) To clarify the engineering requirements on frames to agree with No. 355A offices.
- (b) To change 1.08, 1.10, 1.11, 1.14, 1.16, and 1.18.
- (c) To change Fig. 2, 3, and 4.
- (d) To change Fig. 5 to read 5A and Fig. 6 to read 6A.
- (e) To add Fig. 5B and 6B.
- (f) To include additional drawing reference information under **3. DRAWINGS**.
- (g) To change list 1 and add lists 3 and 4 of J38941A.
- (h) To change list 2 and add Note C of J38941A.
- (i) To change list 1 and add lists 3 and 4 of J38941B.
- (j) To change list 2 of J38941B.
- (k) To change list 1 of J38941C to reflect the change from unit local cable to surface wiring.
- (l) To change lists 2 and 3 and to add list 4 of J38941C.
- (m) To add list 3 of J38941D.

(n) To change Note A of J38941D.

(o) To change list 1 and add list 4 of J38941F.

(p) To rate list 2 of J38941F Mfr Disc.

The above changes are in accordance with SD-32374-01, Issue 7D.

The following changes apply to Part 1 of the section:

Change: 1.07

To Read:

1.07 All frames are arranged for 23-inch mounting plates, and are of the single-bay, bulb-angle type, 2-feet 5/8-inch wide, either 11 feet 6 inches high with 10-inch guardrails or 9 feet 0 inch high with 10- or 12-inch guardrails. Frames, 9 feet 0 inch high with 12-inch guardrails and their own section of 5-inch cable rack, should be used in No. 355A or other types of offices using the same type of framework.

Change: 1.08

To Read:

1.08 The number network and identifier frames (NN-ID) shown in Fig. 2 and 3 provide a mounting and interconnecting arrangement for either 10 or 13 200-number network units. Also mounted on the NN-ID frame are the resistor matrix and party discrimination unit, identifier unit, one-way originating line unit, and two trays for the automatic message accounting recording system (AMARS) feature.

Change: Fig. 2 and 3

Change: 1.10

To Read:

1.10 The isolation networks (IN-) consist of printed circuit cards which carry printed paths to complete the tens and units circuits and provide a mounting for a diode matrix array. The diodes isolate and divide the number treatment (NT) terminal outputs to provide thousands, hundreds, and service mark information. When AMARS is required, discard the above-mentioned isolation network cards and add new printed circuit cards which provide the same equipment, with additional diodes and chips for AMARS.

Change: 1.11

To Read:

1.11 The resistor matrix and party discrimination unit is a single 2- by 23-inch unit arranged for 11 wired-in component assemblies together with conventional relay circuitry. Ten of the wired-in component assemblies make up the resistor matrix portion of the unit and serve to convert the decimal output from the number networks to a 2-out-of-5 code for use in the identifier. The remaining (11th) component assembly provides for party discrimination control for AMARS. The relay circuitry provides the party discrimination feature. The unit is located immediately above the last (uppermost) number network unit position on each NN-ID frame and is employed as a terminating point for the central frame local cable from the number network units.

Change: 1.14

To Read:

1.14 Solderless-wrapped connections are used on all wiring terminals on the NN-ID frame. The various types of connections made are shown in Fig. 4, 5A, 6A, and 6B.

Change: 1.16

To Read:

1.16 The C and D terminals of the number networks are prestrapped in the shops to

the tens and units buses. Insulated straps placed at the time of number assignment provide the desired number treatment information. (See Fig. 5A.) The color for NT terminal wiring is specified in Table A.

Change: Fig. 4

Change: Fig. 5

To Read: Fig. 5A

Add: Fig. 5B

Change: Fig. 6

To Read: Fig. 6A

Add: Fig. 6B

Change: 1.18

To Read:

1.18 Fig. 6A and 6B depict the front of the unit terminal strip with strapping installed to designate the 100-number assemblies.◀

3. DRAWINGS

The following changes apply to Part 3 of the section:

Under Equipment

Add:

ED-91710-76—Frame Assemblies 9 Feet 0 Inch High—Angle Type
ED-91837-71—Relay Rack Assembly—Angle Type
ED-91839-70—Junction Details—Angle Type Relay Rack

4. EQUIPMENT

The following changes apply to Part 4 of the section:

◀ **Under J38941A**

Change: List 1

To Read:

List 1—Framework, assembly, and common equipment for one 9-foot 0-inch number network and identifier frame arranged and wired but not equipped for a maximum of ten 200-number network units. (See Notes B and C.)

	WIRE	EQUIP	NOTES
Number Network and Identifier Ckt, SD-32374-01:			
Fig. 1, Option Y	200	0	
Fig. 2 and 8	10	0	
Fig. 3, 4, and 10	1	0	♦

Change: List 2

To Read:

List 2—Supplementary local cable required in addition to list 1 to accommodate an identifier unit. (See Note A.)

	WIRE	EQUIP	NOTES
Number Network and Identifier Ckt, SD-32374-01:			
Fig. 5	33	0	

♦Add:

List 3—Equipment and wiring required in addition to list 1 per SD-32374-01, Fig. 10 and X option, when the automatic message accounting recording system (AMARS) feature is required in an office. (Omit Y option.)

List 4—Equipment and wiring required in addition to lists 1 and 3 on the first number network and identifier frame only per SD-32374-01, Fig. 11 and 12, when the automatic message accounting recording system (AMARS) feature is required in an office.♦

Add: Note C

C. List 1 provides framework per ED-91710-76, G1. When used in No. 355A or other types

of offices using the same type of framework, provide ED-91837-71, G11.

♦Under J38941B

Change: List 1

To Read:

List 1—Framework, assembly, and common equipment for one 11-foot 6-inch number network and identifier frame arranged and wired but not equipped for a maximum of 13 200-number network units. (See Note B.)

	WIRE	EQUIP	NOTES
Number Network and Identifier Ckt, SD-32374-01:			
Fig. 1, Option Y	200	0	
Fig. 2 and 8	13	0	
Fig. 3, 4, and 10	1	0	♦

Change: List 2

To Read:

List 2—Supplementary local cable required in addition to list 1 for the first NN-ID frame to accommodate an identifier unit. (See Note A.)

	WIRE	EQUIP	NOTES
Number Network and Identifier Ckt, SD-32374-01:			
Fig. 5	33	0	

♦Add:

List 3—Equipment and wiring required in addition to list 1 per SD-32374-01, Fig. 10 and X option, when the automatic message accounting recording system (AMARS) feature is required in an office. (Omit Y option.)

List 4—Equipment and wiring required in addition to lists 1 and 3 on the first number network and identifier frame only per SD-32374-01, Fig. 11 and 12, when the automatic message accounting recording

system (AMARS) feature is required in an office.¶

Under J38941C

Change: List 1

To Read:

List 1—Assembly and common equipment per SD-32374-01, Fig. 2, for one 200-number network unit arranged but not equipped with two 100-number network assemblies.

¶**Change:** List 2

To Read:

List 2—Equipment and wiring required in addition to list 1 for the left 100-number network assembly per SD-32374-01, ten Fig. 1 with Y option.

Change: List 3

To Read:

List 3—Equipment and wiring required in addition to list 1 for the right 100-number network assembly per SD-32374-01, ten Fig. 1 with Y option.

Add:

List 4—Wiring and equipment per SD-32374-01, Fig. 8 and option X, required in addition to list 1 when the automatic message accounting recording system (AMARS) feature is required. (Omit Fig. 2 and option Y.)

Under J38941D

Add:

List 3—Equipment and wiring per SD-32374-01, option X, required in addition to list 1 when the automatic message accounting recording system (AMARS) feature is required. (Omit option Y.)¶

Change: Note A

To Read:

A. Quantities shall be ordered in accordance with detector functions requirements as shown in Table B.

TABLE B

DETECTOR FUNCTIONS	ALWAYS REQD	MAX REQD
Thousands	5	5
Hundreds	5	5
Tens	5	5
Units	5	5
Ring	—	1
Tip	—	1
Multiparty	—	1
Service Marks	—	9

¶ **Under J38941F**

Change: List 1

To Read:

List 1—Assembly and wiring required to provide 1-out-of-10 to 2-out-of-5 output information to the identifier unit, and party discrimination and checking features per SD-32374-01, Fig. 3 and 4 and option Y.¶

Rate: List 2 Mfr Disc.

¶**Add:**

List 4—Equipment and wiring per SD-32374-01, Fig. 9 and option X, required in addition to list 1 when the automatic message accounting recording system (AMARS) feature is provided. (Omit option Y.)¶

5. GENERAL NOTES

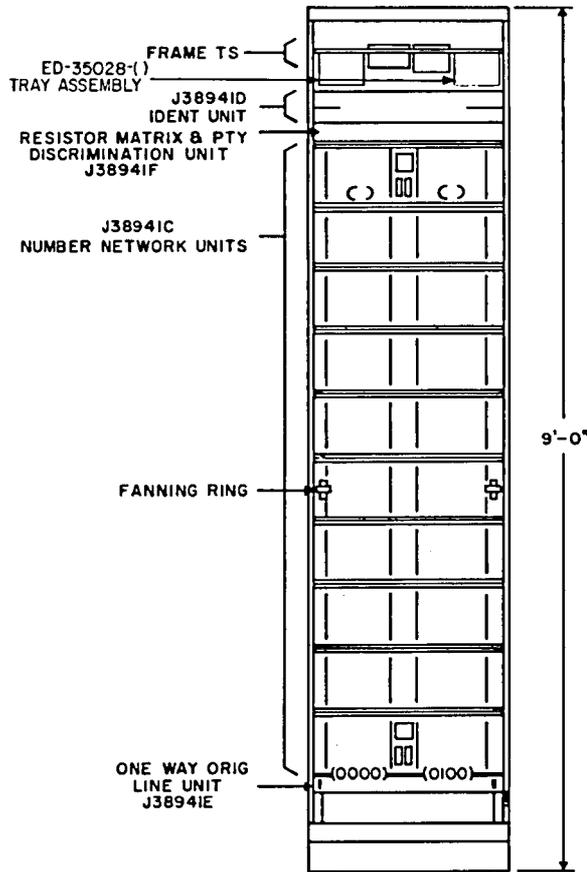
The following change applies to Part 5 of the section:

Add:

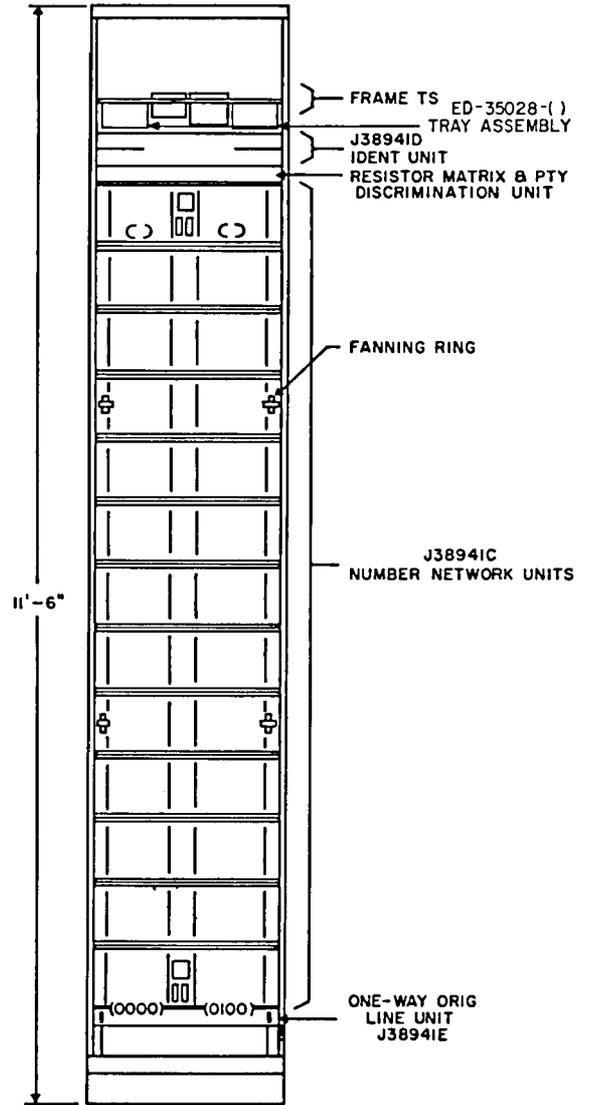
List of A&M Only and Mfr Disc. Equipment

EQUIPMENT	RATING	DETAILS LAST SHOWN IN ISSUE	REPLACING EQUIPMENT
J38941F,L2	Mfr Disc.	2	—

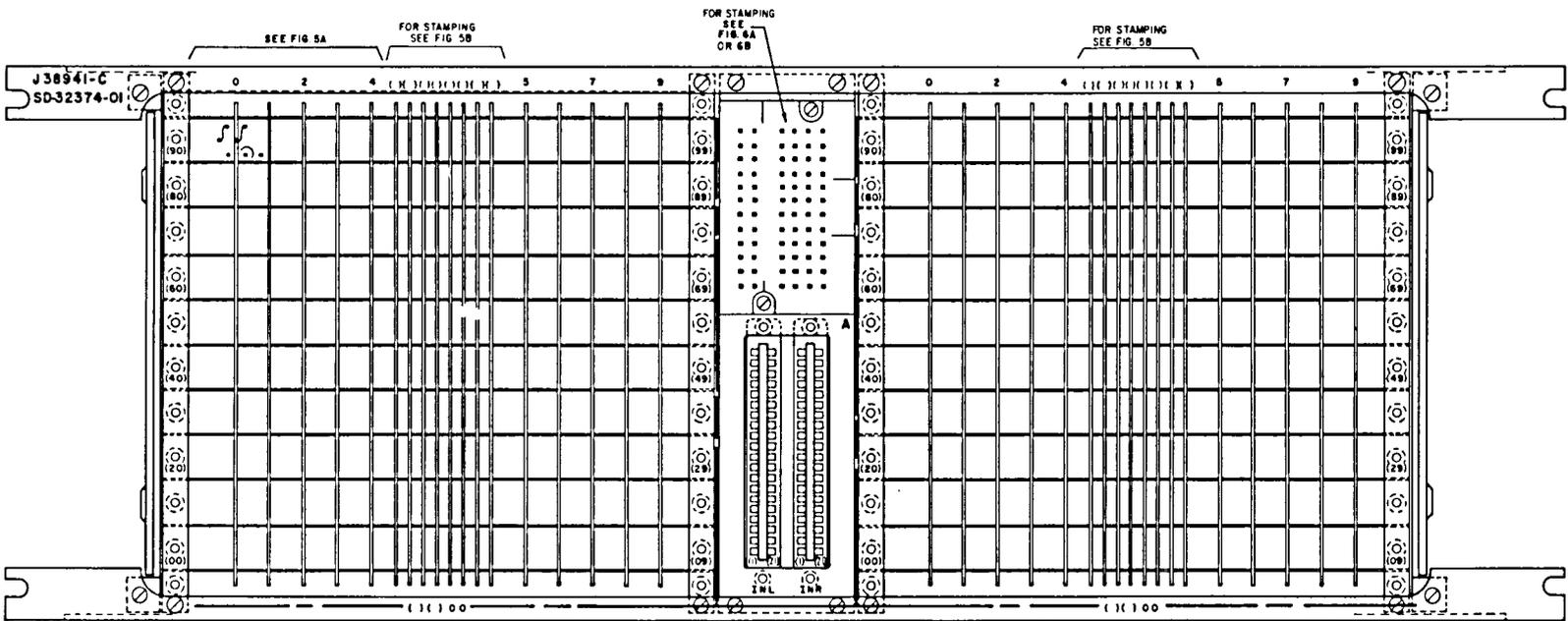
The above equipment has been replaced as indicated. Where A&M Only items appear, the issue numbers shown are those of the issue in which the rating was first applied.



◆ Fig. 2—ANI-C Number Network and Identifier Frame (9 Feet 0 Inch High)◆



◆ Fig. 3—ANI-C Number Network and Identifier Frame (11 Feet 6 Inches High)◆



◆ Fig. 4—Step-by-Step Systems — Automatic Number Identification — Type C — 200-Number Network Unit ◆

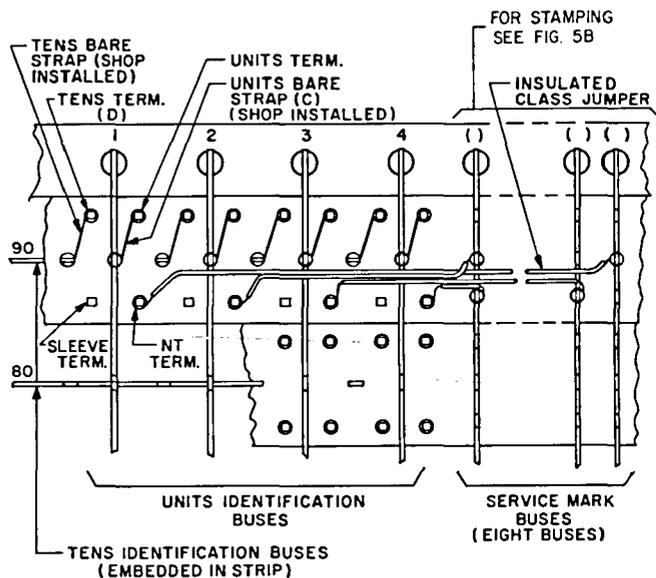


Fig. 5A—C, D, and NT Terminal Strapping

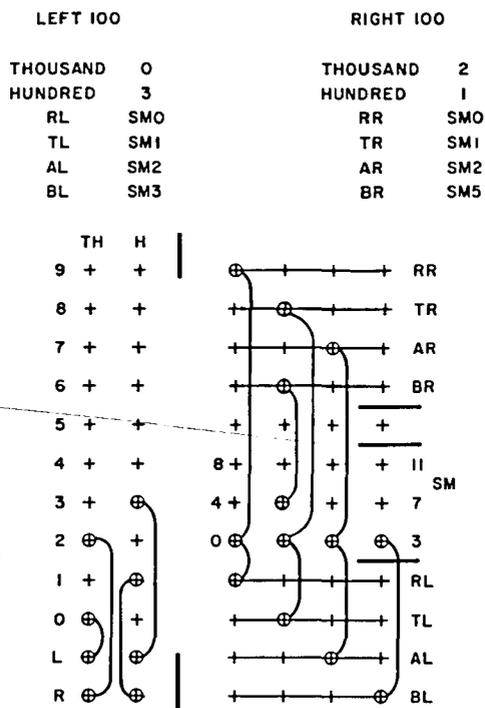


Fig. 6A—200-Number Network Unit Terminal Strip Cross-Connect Details

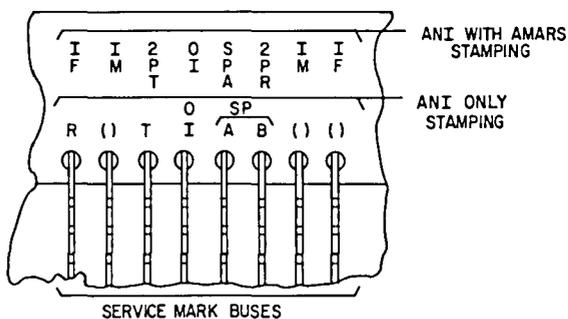


Fig. 5B—Stamping of Service Mark Buses

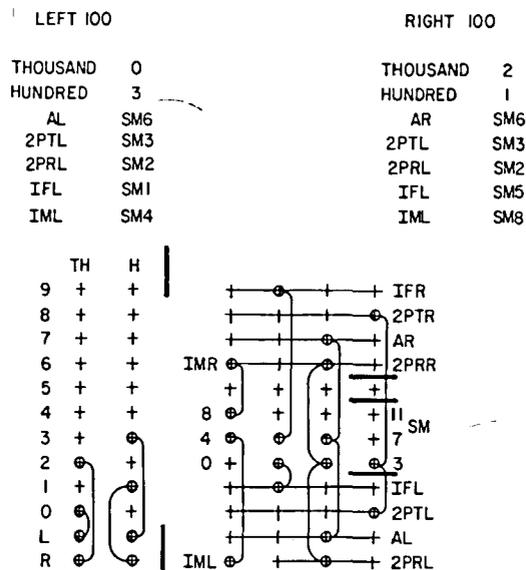


Fig. 6B—200-Number Network Unit Terminal Strip Cross-Connect Details (ANI With AMARS)

Bell Telephone Laboratories, Incorporated

Dept 5245