OUTGOING TRUNK FRAMES (ANI-TYPE B AND C AND NON-CAMA) COMMON CONTROL EQUIPMENT DESIGN REQUIREMENTS STEP-BY-STEP SYSTEMS

1. GENERAL

SCOPE

1.01 This specification, together with the supplementary information listed herein, covers the equipment design requirements for the framework, equipment, manufacture, and installation of outgoing trunk frames arranged for use with common control in No. 1, 350A, or 355A step-by-step offices.

1.02 This specification is reissued to:

(a) Change list 1 on J38923C and F.

(b) Remove Note D on J38923G and H.

(c) Rate list 1 Mfr Disc., change lists 2, 3, and 4, and add list 5 on J38923J.

CAPACITY

1.03 The outgoing trunk frames are made available on an 11-foot 6-inch and on a 9-foot 0-inch basis. The 11-foot 6-inch ANI outgoing coin or noncoin trunk frame accommodates 14 trunk units, and the 9-foot 0-inch ANI outgoing coin or noncoin trunk frame accommodates 10 trunk units. The 11-foot 6-inch non-CAMA multifrequency (MF) pulsing outgoing trunk frame accommodates 58 trunk units, and the 9-foot 0-inch non-CAMA multifrequency pulsing outgoing trunk frame accommodates 44 trunk units.

DESCRIPTION

ANI-B or -C Outgoing Noncoin Trunks

1.04 The function of the ANI outgoing noncoin trunk in step-by-step common control offices with controlled outpulsing is to route MF or dial pulsed nonbylink station toll (1+) traffic to CAMA; special toll (0+) traffic to TSP or station toll (1+); or special toll (0+) and/or operator assistance (0) traffic to traffic service position system (TSPS) offices.

1.05 The trunk is reached by means of exit digits under control of the common control equipment. It repeats the delay-dial and start-dial signals to the common control register circuit. If used as a dial pulse (DP) trunk, it repeats the called number digits, or if used as an MF trunk, it presents a suitable transmission path for the called number MF signals to the distant office.

1.06 Ringback and distant office holding are provided for 0+ dedicated or combined trunk operation.

1.07 The trunk may be used for either loop or E and M lead signaling and is so arranged that it may be converted optionally from one signaling method to the other.

1.08 The trunk is arranged primarily for ANI operation, but optional wiring permits temporary non-ANI operation.

1.09 Trunk operation, up until the ANI reversal signal is received, is identical for 1+, 0, or 0+ calls. Upon seizure, the trunk makes a test of the subscriber line to determine whether the tip or ring party is calling. Next, a test is made of the party test relay to ensure that it is in proper adjustment. Before the party test begins, a seizure signal is passed to the distant office.

1.10 The distant office, after seizure, returns a delay-dialing (off-hook) signal that is repeated by the trunk to the common control register circuit.

1.11 When the distant office is ready to receive the called number, a start-dialing (on-hook) signal

is returned to the trunk and repeated to the register. The register then outpulses the called number on either a DP or MF basis.

1.12 When all of the called number digits have been received by the distant office, another off-hook signal is passed to the trunk. This signal is used as follows:

(a) In a non-ANI office where the trunk is used for dedicated or combined traffic, the off-hook signal is placed under control of the distant office. This permits the operator to ring back and control the connection. If used for 1+ dedicated traffic, the off-hook signal is used to set the trunk to recognize called party disconnect. Distant office holding is not required with 1+ dedicated traffic.

(b) In an office equipped with ANI, the off-hook signal causes the trunk, either 1+ or 0+, to bid for an ANI outpulser via the outpulser connector. ANI then identifies the calling line and MF pulses the calling number to the distant office. The off-hook signal will also prime the trunk to operate as described in (a).

1.13 When the ANI outpulser is seized, the trunk transmits party information that the outpulser registers. The outpulser then checks via the trunk to see that the call has not been abandoned. It then signals the trunk to connect identification tone or pulse to the sleeve lead. This tone or pulse is used by the ANI identifier to determine the calling number.

1.14 The identifier passes this number to the outpulser where it is stored.

1.15 After identification, the tone or pulse is removed and the outgoing tip and ring are transferred to the outpulser tip and ring. The calling number is then MF-pulsed to the distant office by the outpulser.

1.16 A ground-removal test is made to ensure against charging a customer falsely due to a trouble ground on the line.

1.17 A distant end make-busy feature is provided to prevent seizure by the subscriber when the distant incoming trunk is under test.

1.18 Test connector relays are provided in each trunk and in the trunk connector unit at the top of the frame, enabling the test frame to seize the trunks for test purposes.

1.19 Other tests can be made with standard test sets, using the test jacks provided on each trunk unit.

ANI-B or -C Outgoing Coin Trunks

1.20 The function of the ANI outgoing coin trunk in step-by-step common control offices with controlled outpulsing is to route MF-pulsed nonbylink station toll (1+), special toll (0+), and operator assistance (0) traffic to a TSPS No. 1 office over a single trunk group.

1.21 The trunk is reached by means of exit digits under control of the common control equipment. It repeats the delay-dial and start-dial signals to the common control register circuit and presents a suitable transmission path for the called number MF signals to the TSPS office.

1.22 Ringback and coin control under control of the TSPS operator and TSPS holding are provided for all traffic.

1.23 The trunk is arranged for E and M lead signaling only.

1.24 The trunk is arranged for ANI operation only.

1.25 Upon seizure, the trunk passes the seizure signal to the TSPS office.

1.26 The TSPS office, after seizure, returns a delay-dialing (off-hook) signal that is repeated by the trunk to the common control register circuit.

1.27 When the TSPS office is ready to receive the called number, a start-dialing (on-hook) signal is returned to the trunk and repeated to the register. The register then outpulses the called number on an MF basis.

1.28 When all of the called number digits have been received by the TSPS office, another off-hook signal is passed to the trunk. This signal causes the trunk to bid for an ANI outpulser via the outpulser connector. ANI then identifies the calling line and MF pulses the calling number to the TSPS office. The off-hook signal will also prime the trunk to place

the call under control of TSPS. This permits the operator to ring back and control coin disposal functions.

1.29 When the ANI outpulser is seized, the trunk transmits a ring party indication to the outpulser. The outpulser then checks via the trunk to see that the call has not been abandoned. It then signals the trunk to connect identification tone to the sleeve lead in ANI-B offices or an identification pulse to the sleeve lead in ANI-C offices.

1.30 The identifier passes this number to the outpulser where it is stored.

1.31 After identification, the outgoing tip and ring are transferred to the outpulser tip and ring. The calling number is then MF-pulsed to the TSPS office by the outpulser.

1.32 A distant end make-busy feature is provided to prevent seizure by the subscriber when the TSPS incoming trunk is under test.

1.33 Test connector relays are provided in each trunk and in the trunk connector unit at the top of the frame, enabling the test frame to seize the trunks for test purposes.

1.34 Other tests can be made with standard test sets, using the test jacks provided on each trunk unit.

Non-CAMA Multifrequency Pulsing Outgoing Trunk

1.35 The non-CAMA multifrequency pulsing outgoing trunk is used for routing extended area service traffic using multifrequency outpulsing from a step-by-step office with common control to connecting tandem or terminating offices. This trunk is arranged for timed disconnect in the event the called customer disconnects prior to the calling customer.

1.36 The trunk, reached by means of exit digits under control of the common control equipment, repeats the delay dial and the start dial signals from the terminating end to the originating register outpulsing controller circuit. The trunk presents a suitable transmission path for the called number multifrequency outpulsing signals to the connecting office.

1.37 The trunk also repeats answer supervision to the originating end to establish the charge condition and to cut through the connection.

1.38 Upon seizure, the trunk closes a loop to indicate a seizure to the connecting office. After seizure, the connecting office returns a delay dialing (off-hook) signal, which is repeated to the originating register outpulsing controller circuit. When the incoming register is ready to receive the called number, a start dialing (on-hook) signal is returned to the trunk and is repeated to the originating register outpulsing controller, which then outpulses the called number on a multifrequency pulsing basis.

1.39 After all of the called number digits have been received by the incoming register, the connection to the called line is made. When the called customer answers, an off-hook signal is received and repeated by the trunk.

1.40 If the calling customer disconnects, the loop to the connecting office is opened and the trunk is restored to normal.

1.41 If the called customer disconnects, a time interval of 13 to 19 seconds is used before the calling end is winked off to restore the trunk to normal.

1.42 Facilities are provided for test access, through the test jack provided, to the trunk for the standard test sets.

EQUIPMENT ARRANGEMENTS

ANI-B or -C Outgoing Noncoin Trunks

1.43 Each trunk is a 4-plate, surface-wired, single-circuit unit with terminal strips for terminating the various connecting circuits.

1.44 As mentioned (see 1.07), the trunk units are arranged to present an easy method of field conversion from loop trunk to E and M trunk or vice versa. The top three mounting plates contain all basic apparatus required in any type of trunk. These are identically surface-wired for either loop or E and M signaling. An additional plate surface-wired for either loop or E and M apparatus is connected to the other plates via the terminal strips on a service option basis.

1.45 To perform a conversion from a loop trunk to an E and M trunk, the mounting plate of loop apparatus is removed from the trunk. Since this plate has no surface wiring to the other plates of the unit, it can easily be discarded and replaced by a new plate of E and M apparatus that is rewired with ser-

vice option straps to the other terminal strips on the basic trunk unit.

1.46 Fig. 1 shows the typical arrangements for the 11-foot 6-inch trunk frame equipped with a maximum complement of 14 trunks, and Fig. 2, that for the 9-foot 0-inch frame that accommodates 10 trunks. Each of these frames is provided with frame local cables that include multiple leads common to all trunks, as well as the battery and ground leads from each of the trunks to the frame fuse panel.

1.47 Multiple wiring between like trunks is also included in the frame local cable and connected as required.

1.48 The trunk connector unit is a 2-plate, surface-wired unit arranged for one trunk subgroup (14 relays for 11-foot 6-inch frames and 10 relays for 9-foot 0-inch frames). The line verification and the permanent signal connectors, when required, will be furnished with the first trunk connector unit.

1.49 The oscillator unit used with ANI-B is a one-plate, surface-wired unit. Two units serve a maximum of three adjacent trunk frames. Oscillator 0 or 1 is normally used by the correspondingly designated identifier 0 or 1. If either oscillator fails, a plug inserted into the MB jack causes the other oscillator to function with either identifier and removes the defective oscillator from service. The output of the oscillators is multipled to all the trunks on the frame and to the immediate adjacent frames. This output is the 5800-Hz tone that the trunk applies to the sleeve lead for identification purposes.

1.50 The pulse generator unit used with ANI-C is a 2-plate unit consisting of a surface-wired unit and printed wiring boards. A single-pulse generator unit serves all ANI-C trunk frames in an installation. The pulse generator output is multipled to all trunks in an installation. This output is a 340-volt dc positive pulse having a duration of approximately 150 μs, which is applied via the trunk and office switch train to the sleeve lead of the calling party for identification purposes.

1.51 The trunk test connector and miscellaneous unit containing the switchman talk jack, test points, jacks, and relays of the miscellaneous circuit is mounted 5 feet from the floor on the second, fifth, eighth, etc, adjacent trunk frames and each isolated trunk frame.

1.52 The fuse panel on the bottom of the frame provides the fuses for the trunks, two oscillators, a trunk connector unit, and the miscellaneous circuit.

1.53 Designation cards are provided on each frame to facilitate the tracing of connecting circuits. These cards are contained in plastic envelopes that mount on a bracket at a convenient height on the frame.

1.54 Battery filters per ED-92171-71, GR6 shall be provided for the 48-volt talk battery on a one-per-four trunk frame basis for either the 11-foot 6-inch or 9-foot 0-inch application.

ANI-B or -C Outgoing Coin Trunks

1.55 Each trunk is a 4-plate, surface-wired, single-circuit unit with terminal strips for terminating the various connecting circuits.

1.56 Fig. 1 shows the typical arrangements for the 11-foot 6-inch trunk frame equipped with a maximum complement of 14 trunks, and Fig. 2, that for the 9-foot 0-inch frame which accommodates 10 trunks. Each of these frames is provided with frame local cables that include multiple leads common to all trunks, as well as the battery and ground leads from each of the trunks to the frame fuse panel.

1.57 Multiple wiring between like trunks is also included in the frame local cable and connected as required.

1.58 The trunk connector unit is a 2-plate, surface-wired unit arranged for one trunk subgroup (14 relays for 11-foot 6-inch frames and 10 relays for 9-foot 0-inch frames). The line verification and the permanent signal connectors, when required, will be furnished with the first trunk connector unit.

1.59 The oscillator unit used with ANI-B is a one-plate, surface-wired unit. Two units serve a maximum of three adjacent trunk frames. Oscillator 0 or 1 is normally used by the correspondingly designated identifier 0 or 1. If either oscillator fails, a plug inserted into the MB jack causes the other oscillator to function with either identifier and removes the defective oscillator from service. The output of the oscillators is multipled to all the trunks on the frame and to the immediate adjacent frames. This output is the 5800-Hz tone that the trunk applies to the sleeve lead for identification purposes.

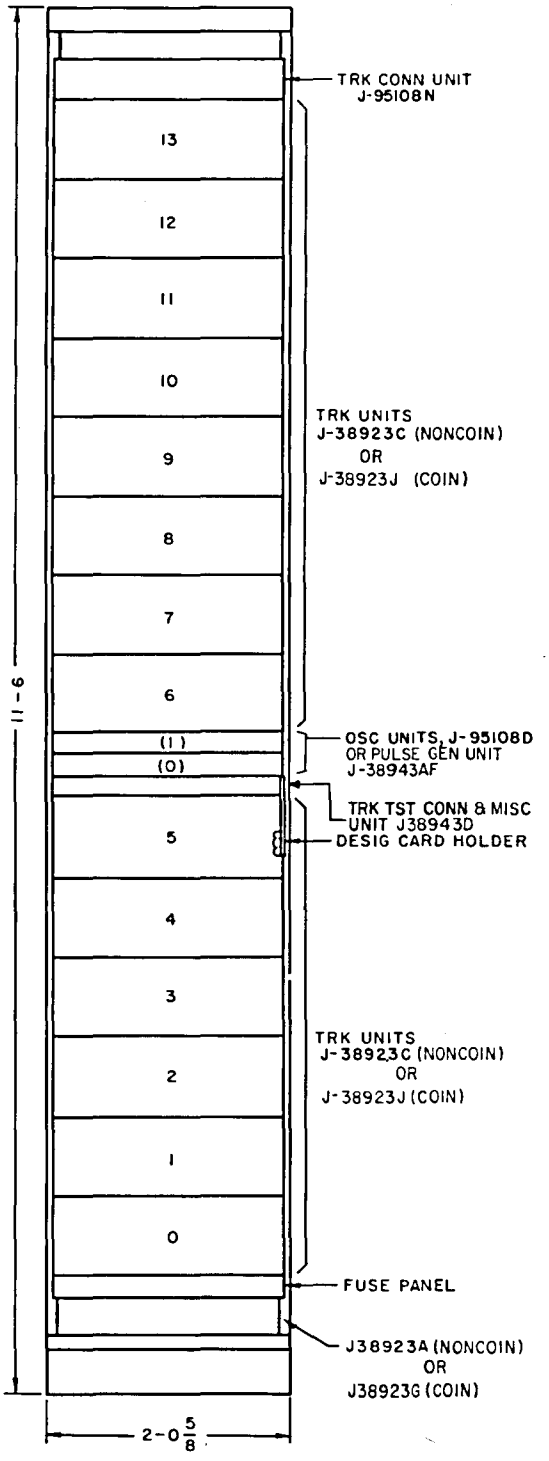

Fig. 1—ANI-B or -C Outgoing Trunk Frame J38923A (Noncoin) or J38923G (Coin)

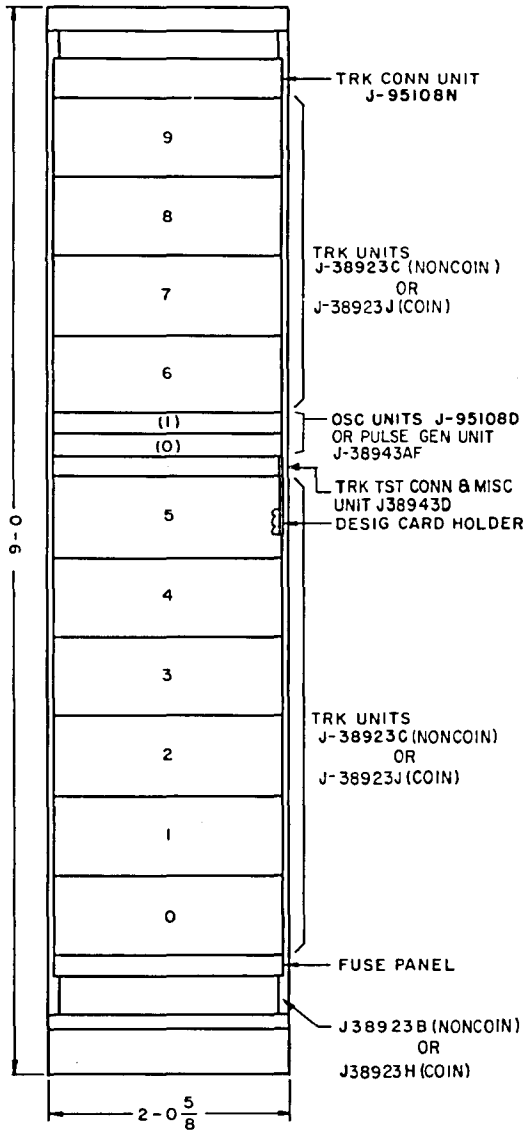

Fig. 2—ANI-B or -C Outgoing Trunk Frame J38923B (Noncoin) or J38923H (Coin)

1.60 The pulse generator unit used with ANI-C is a 2-plate unit consisting of a surface-wired unit and printed wiring boards. A single-pulse generator unit serves all ANI-C trunk frames in an installation.

1.61 The trunk test connector and miscellaneous unit containing the switchman talk jack, test points, jacks, and relays of the miscellaneous circuit is mounted 5 feet from the floor on the second, fifth, eighth, etc, adjacent trunk frames and each isolated trunk frame.

The pulse generator output is multipled to all trunks in an installation. This output is a 340-volt dc pulse having a duration of approximately 150 μ, which is applied via the trunk and office switch train to the sleeve lead of the calling party for identification purposes.

1.62 The fuse panel on the bottom of the frame provides the fuses for the trunks, two oscillators, a trunk connector unit, and the miscellaneous circuit.

1.63 Designation cards are provided on each frame to facilitate the tracing of connecting circuits. These cards are contained in plastic envelopes that mount on a bracket at a convenient height on the frame.

1.64 Battery filters per ED-92171-71, GR6 shall be provided for the 48-volt talk battery on a one-per-four trunk frame basis for either the 11-foot 6-inch or 9-foot 0-inch application.

Non-CAMA Multifrequency Pulsing Outgoing Trunk

1.65 Each non-CAMA multifrequency pulsing outgoing trunk is a single-plate, surface-wired, single-circuit unit with a terminal strip for terminating cables to and from connecting circuits.

1.66 Fig. 3 shows the typical arrangements for the 11-foot 6-inch non-CAMA multifrequency pulsing outgoing trunk frame equipped with a maximum complement of 58 trunks, and Fig. 4, that for the 9-foot 0-inch frame that accommodates 44 trunks. Each of these frames is provided with a frame local cable that includes the battery and ground leads from the trunks to the frame fuse panel.

1.67 The test, talk line, and test set connector unit containing the switchman talk jack, test points, and jacks of the miscellaneous circuit is mounted 5 feet from the floor on the second, fifth, eighth, etc, adjacent frame, and each isolated trunk frame.

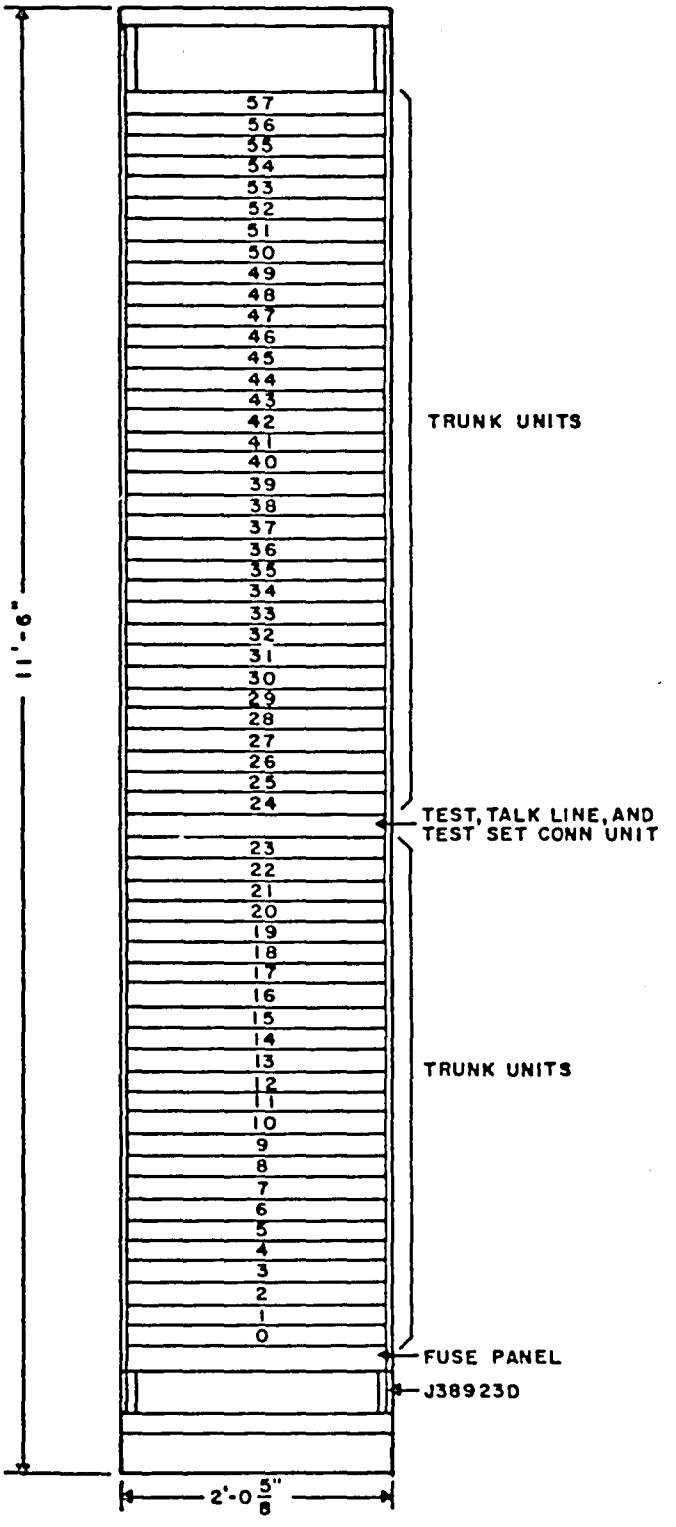

Fig. 3—Non-CAMA Multifrequency Pulsing Outgoing Trunk Frame—11 Feet 6 Inches High

1.68 The fuse panel on the bottom of the frame provides the fuses for the trunks. Each fuse serves two trunks.

1.69 Battery filters per ED-92171-71, GR6, shall be furnished on a one-per-two frame basis.

2. SUPPLEMENTARY INFORMATION

814-000-000—Numerical Index—Step-by-Step Systems
800-600-000—Checking List—General Equipment Requirements
J39225—814-005-152—No. 1, 350A, and 355A Offices With TOUCH-TONE® Calling and Common Control—General—Step-by-Step Systems
Floor Plan Data—Section 5.2, Sheets 60 and 74
Current Drain Data—
SD-31359-02—Step-by-Step Systems, No. 1 Office
SD-31364-02—Step-by-Step Systems, No. 350A Office
SD-31780-02—Step-by-Step Systems, No. 355A Office
SD-32325-02—Step-by-Step Systems, No. 35E97 Office

3. DRAWINGS

WE J drawings should be ordered by referring to the prefix and base number and requesting the current dash (-) number.

Circuits

SD-32248-01—Step-by-Step Systems No. 1, 350A, or 35E97, Miscellaneous Circuit for ANI-Type B and Type C Trunk Frames
SD-32360-01—Step-by-Step Systems No. 1, 350A, or 355A With Common Control, Miscellaneous Circuit for Common Control Frames
SD-32367-01—Step-by-Step Systems No. 1, 350A, or 355A With Common Control ANI Outgoing Trunk Circuit, Nonbylink, Noncoin Loop or E and M Lead Signaling, MF or Dial Pulsing, Special Toll, ANI-Type B or C to CAMA, TSP, or TSPS Office
SD-32369-01—Step-by-Step Systems No. 1, 350A, or 355A With Common Control, Non-CAMA Multifrequency Pulsing Outgoing Trunk Circuit, Reverse Battery Supervision, Arranged for Timed Disconnect
SD-32378-01—ANI-Type C Pulse Generator Unit
SD-32551-01—Step-by-Step Systems No. 1, 350A, or 355A With Common Control, ANI Outgoing Trunk Circuit, Nonbylink Coin, E and M Lead Signaling, MF Signaling, MF Pulsing, Special Toll, Operator Assistance and/or Station Toll, ANI-Type B or C to TSPS No. 1 Office
SD-35052-01—Step-by-Step Systems—Dual Channel Receiver Circuit (700-Hz and 1100-Hz Signals)
SD-95807-01—Common Systems—2100-Cycle Signaling System—Tone Sending and Receiving Circuit
SD-95827-01—Common Systems Oscillator Circuit, Automatic Number Identification—Crossbar No. 1, Panel, or Step-by-Step Office
SD-95890-01—Common Systems, Outpulser Connector Circuit, Automatic Number Identification Type B and Type C, Crossbar No. 1, Panel, or Step-by-Step No. 1, 350A, 355A, or 35E97 Office

Keysheets

SD-31359-01—Step-by-Step Systems, No. 1 Office
SD-31364-01—Step-by-Step Systems, No. 350A Office
SD-31780-01—Step-by-Step Systems, No. 355A Office
SD-32325-01—Step-by-Step Systems, No. 35E97 Office

Equipment

ED-92171-71—Cable Rack or Frame Mounted Battery Filters
J38923A-( )—ANI-B or -C Outgoing Noncoin Trunk Frame—11 Feet 6 Inches High
J38923B-( )—ANI-B or -C Outgoing Noncoin Trunk Frame—9 Feet 0 Inch High
J38923C-( )—ANI-B or -C Outgoing Noncoin Trunk Unit—Nonbylink—Loop or E and M Lead Signaling—MF or Dial Pulsed—Special Toll—Operator Assistance—

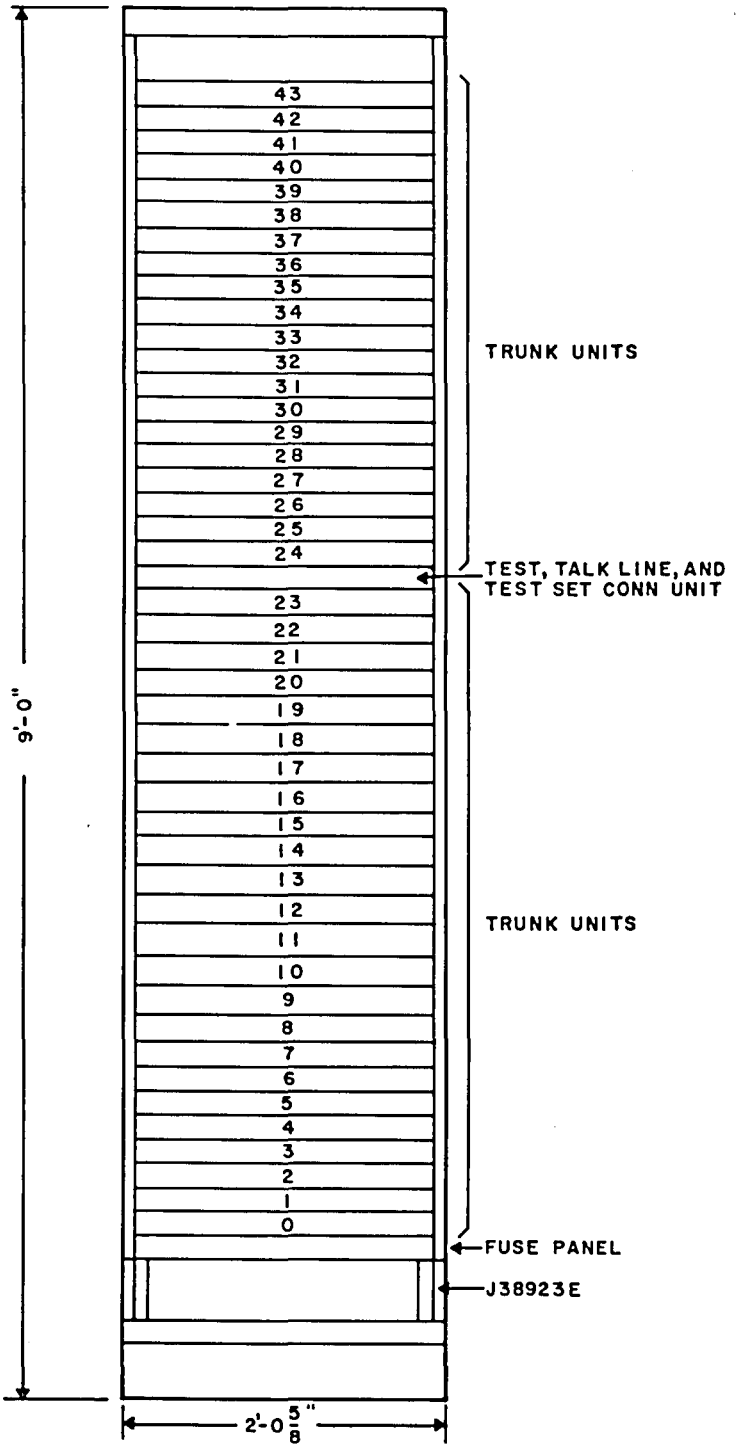

Fig. 4—Non-CAMA Multifrequency Pulsing Outgoing Trunk Frame—9 Feet 0 Inch High

D. Wiring per SD-32367-01, option W, required in addition to list 4 or 5 when trunk is required to ring back against subscriber on-hook or off-hook (only if office has no party lines).

E. Wiring per SD-32367-01, option N, required in addition to list 2 or lists 2 and 4, when conductor loop resistance is over 1000 ohms.

F. Wiring per SD-32367-01, option M, required in addition to list 2 or lists 2 and 4, when idle line termination is required.

G. Wiring per SD-32367-01, options G and R, required in addition to lists 1 and 2 or lists 1 and 3 when ringback feature is not required.

H. Wiring per SD-32367-01, option F, required in addition to lists 1 and 2 or lists 1 and 3 when 1+ only or combined 0+ and 1+ type traffic is provided.

I. Wiring per SD-32367-01, option B, required in addition to lists 1 and 2 or lists 1 and 3 when 0+ only or combined 0 and 0+ type traffic is provided.

J38923D—AT&TCo Std—Non-CAMA Multifrequency Pulsing Outgoing Trunk Frame—11 Feet 6 Inches High

List 1—Framework, assembly, wiring, and common equipment for one 11-foot 6-inch non-CAMA multifrequency pulsing outgoing trunk frame, arranged, but not equipped, for a maximum of 58 trunk units.

	WIRE	EQUIP	NOTES
Trk Ckt, SD-32369-01	58	0	
Misc Ckt, SD-32360-01:			
Fig. 8, 1-1/3A Ckt			
Fuse	As Reqd	As Reqd	
Fig. 19	1	1	

List 2—Assembly, wiring, and equipment per SD-32360-01, Fig. 17, required in addition to list 1 to arrange one fuse panel for talking battery filter alarm. (See Note B.)

Notes

A. Provide one J38927AG, L1 (test, talk line, and test set connector unit) for second, fifth, eighth, etc, adjacent frame and for each isolated frame.

B. Talking battery filters per ED-92171-71, GR6, shall be furnished on a one-per-two frame basis. Furnish one list 2 on the trunk frame equipped with the filter.

J38923E—AT&TCo Std—Non-CAMA Multifrequency Pulsing Outgoing Trunk Frame—9 Feet 0 Inch High

List 1—Framework, assembly, wiring, and common equipment for one 9-foot 0-inch non-CAMA multifrequency pulsing outgoing trunk frame arranged, but not equipped, for a maximum of 58 trunk units.

	WIRE	EQUIP	NOTES
Trk Ckt, SD-32369-01	44	0	
Misc Ckt, SD-32360-01:			
Fig. 8, 1-1/3A Ckt			
Fuse	As Reqd	As Reqd	
Fig. 19	1	1	

List 2—Assembly, wiring, and equipment per SD-32360-01, Fig. 17, required in addition to list 1 to arrange one fuse panel for talking battery filter alarm. (See Note B.)

Notes

A. Provide one J38927AG, L1 (test, talk line, and test set connector unit) for second, fifth, eighth, etc, adjacent frame and for each isolated frame.

B. Talking battery filters per ED-92171-71, GR6, shall be furnished on a one-per-two frame basis. Furnish one list 2 on the trunk frame equipped with the filter.

J38923F—AT&TCo Std—Non-CAMA Multifrequency Pulsing Outgoing Trunk Unit—Reverse Battery Supervision—Arranged for Timed Disconnect

List 1—Framework, assembly, wiring, and equipment for one non-CAMA multifrequency pulsing outgoing trunk per SD-32369-01, Fig. 1, and option W.

J38923G—AT&TCo Std—ANI-B or -C Outgoing Coin Trunk Frame—11 Feet 6 Inches High

List 1—Framework, assembly, wiring, and common equipment for one ANI-B or -C outgoing coin trunk frame arranged, but not equipped, for a maximum of 14 trunks. (See Notes A and B.)

	WIRE	EQUIP	NOTES
Trk Ckt, SD-32551-01	14	0	
Osc Ckt, SD-95827-01	2	0	
Pulse Gen Ckt, SD-32378-01:			
ANI, Fig. 2	1	0	
AMARS, Fig. 2	2	0	
Fig. 3 & 4	1	0	
Op Conn Ckt, SD-95890-01, Fig. 1 and Opt S	14	0	
Misc Ckt, SD-32248-01:			
Fig. 1,2,3,10 & 12	1	0	
Fig. 6, and Opt N	1	1	
Fig. 21, 25 & 26	14	As Reqd	
Fig. 23 & 24	As Reqd	As Reqd	
Fig. 27 & 28	1	1	
Fig. 29	1	0	

List 2—Assembly, wiring, and equipment per SD-32248-01, Fig. 7, required in addition to list 1 to arrange one fuse panel for talking battery filter alarm. (See Note C.)

Notes

A. Trunk units per J38923J as required, pulse generator unit per J38943C for ANI-C, oscillator unit per J95108D for ANI-B, trunk connector unit per J95108N, and trunk test connector and miscellaneous unit per J38943D are ordered separately and are mounted on the frame, as shown in Table B.

B. In addition to the frame fuse panel, list 1 includes the frame local cable wiring between the trunk units and the oscillator units or the pulse generator unit, the trunk test connector relays, the TP-relays on the trunk connector unit, and the battery and ground and alarm leads between the frame fuse panel and the other units on the frame.

C. Talking battery filters per ED-92171-71, GR6, shall be furnished on a one-per-four frame basis. Furnish one list 2 on the trunk frame equipped with the filter.

J38923H—AT&TCo Std—ANI-B or -C Outgoing Coin Trunk Frame—9 Feet 0 Inch High

List 1—Framework, assembly, wiring, and common equipment for one ANI-B or -C outgoing coin trunk frame arranged, but not equipped, for a maximum of 10 trunks. (See Notes A and B.)

	WIRE	EQUIP	NOTES
Trk Ckt, SD-32551-01	10	0	
Osc Ckt, SD-95827-01	2	0	
Pulse Gen Ckt, SD-32378-01:			
ANI, Fig. 2	1	0	
AMARS, Fig. 2	2	0	
Fig. 3 & 4	1	0	
Op Conn Ckt, SD-95890-01, Fig. 1, and Opt S	10	0	
Misc Ckt, SD-32248-01:			
Fig. 1,2,3,10 & 12	1	0	
Fig. 6, and Opt N	1	1	
Fig. 21,25 & 26	10	As Read	
Fig. 23 & 24	As Reqd	As Reqd	
Fig. 27 & 28	1	1	
Fig. 29	1	0	

List 2—Assembly, wiring, and equipment per SD-32248-01, Fig. 7, required in addition to list 1 to arrange one fuse panel for talking battery filter alarm. (See Note C.)

Notes

A. Trunk units per J38923J as required, pulse generator unit per J38943C for ANI-C, oscillator unit per J95108D for ANI-B, trunk connector unit per J95108N, and trunk test connector and miscellaneous unit per J38943D are ordered separately and are mounted on the frame, as shown in Table B.

B. In addition to the frame fuse panel, list 1 includes the frame local cable wiring between the trunk units and the oscillator units or the pulse generator unit, the trunk test connector relays, the TP-relays on the trunk connector unit, and the battery and ground and alarm leads between the frame fuse panel and the other units on the frame.

C. Talking battery filters per ED-92171-71, GR6, chall be furnished on a one-per-four frame basis. Furnish one list 2 on the trunk frame equipped with the filter.

J38923J—AT&TCo Std—ANI-B or -C Outgoing Coin Trunk Unit—Nonbylink—E and M Lead Signaling—MF Pulsing—Special Toll—Operator Assistance—Station Toll—To TSPS No. 1 Office

List 2—Equipment and wiring per SD-32551-01, option Z, required in addition to list 1 or 5 when automatic return of initial deposit is required.

List 3—Equipment and wiring per SD-32551-01, option X, required in addition to list 1 or 5 when 48-volt battery toward station on operator answer is required.

List 4—Equipment and wiring per SD-32551-01, options W and V, required in addition to list 1 or 5 when 48-volt battery toward station on operator answer is not required.

List 5—Assembly, wiring, and equipment for one ANI-B or -C outgoing coin trunk unit, per SD-32551-01, Fig. 1, with option S and SD-35052-01, Fig. 1. (See Note A.)

Note

A. Wiring per SD-32551-01, option Y, required in addition to list 1 when automatic return of initial deposit is not required.

Miscellaneous Equipment

J38927AG—Test, Talk Line, and Test Set Connector Unit
J38943D—Trunk Test Connector and Trunk Test Unit
J38943AF—Pulse Generator Unit
J95108D—Oscillator Unit
J95108N—Trunk Connector and Alarm Unit

5. GENERAL NOTES AND INDEXES

5.01 One ringback resistance lamp, R, per SD-32551-01, Fig. 2 (coin), or SD-32367-01, Fig. 6 (noncoin) shall be mounted on the miscellaneous lamp board on a one-per-five trunk basis, and an associated 1/4-ampere fuse shall be located at the miscellaneous fuseboard.

5.02 Trunk frames shall be numbered from 0 up, consecutively; and trunks shall be numbered 0 to 13 on each 11-foot 6-inch frame and 0 to 9 on each 9-foot 0-inch frame from bottom up.

5.03 Non-CAMA multifrequency pulsing outgoing trunk frames shall be numbered from 0 up, consecutively; and trunks shall be numbered 0 to 57 on each 11-foot 6-inch frame and 0 to 43 on each 9-foot 0-inch frame, from bottom up.

5.04 Frame filters per ED-92171-71, GR6, shall be provided on a one-per-four ANI trunk frame basis and on a one-per-two non-CAMA multifrequency pulsing outgoing trunk frame basis.

5.05 The pulse generator unit shall be furnished on the first ANI-C trunk frame installed. The output is multipled to successive trunks on the same frame and via a separate cable to succeeding trunk frames.

List of A&M Only and Mfr Disc. Equipment

EQUIPMENT	RATING	DETAILS LAST SHOWN IN ISSUE	REPLACING EQUIPMENT
J38923J,L1	Mfr Disc.	6	J38923J,L5

TABLE A
ANI-B OR -C OUTGOING NONCOIN TRUNK FRAME—J38923A AND J38923B

UNIT		QUANTITY ALWAYS REQUIRED	QUANTITY OF OPTION REQUIRED	DESCRIPTION	DESCRIPTION OF OPTIONS
CODE	LIST NO.				
J38923C		As Reqd	As Reqd	ANI Outgoing Trunk Unit	Trunks shall be equipped on the frame per job requirements; maximum 14 trunks per 11-foot 6-inch frame, and 10 per 9-foot 0-inch frame
J38943D	L1	1		Trunk Test Connector and Miscellaneous Unit	One per each identifier group
	L2	1			
	L3		1		
	L4		1		For second, fifth, eighth, etc, adjacent trunk frames and each isolated trunk frame
	L8		1		For frames equipped with AMARS pulse generators
J95108D	L1		2	Oscillator Units	For each three or fewer adjacent trunk frames in ANI-B office
	L2		1		For first oscillator unit of each pair
J95108N	L4	1		Trunk Connector Unit	
	L5		1		L5 for 11-foot 6-inch frame
	L7		1		L7 for 9-foot 0-inch frame
	L9	1			
J38943AF	L1			Pulse Generator Unit	Provide one per ANI-C office
	L2				Provide when AMARS is required

TABLE B
ANI-B OR -C OUTGOING COIN TRUNK FRAME—J38923G AND J38923H

UNIT		QUANTITY ALWAYS REQUIRED	QUANTITY OF OPTION REQUIRED	DESCRIPTION	DESCRIPTION OF OPTIONS
CODE	LIST NO.				
J38923J		As Reqd	As Reqd	ANI Outgoing Trunk Unit	Trunks shall be equipped o. the frame per job requirements; maximum 14 trunks per 11-foot 6-inch frame, and 10 per 9-foot 0-inch frame
J38943D	L1	1		Trunk Test Connector and Miscellaneous Unit	One per each identifier group
	L2	1			
	L3		1		
	L4		1		For second, fifth, eighth, etc, adjacent trunk frame and each isolated trunk frame
	L6		1		For frames equipped with +130V
	L8		1		For frames equipped with AMARS pulse generators
J95108D	L1		2	Oscillator Units	For each three or fewer adjacent trunk frames in ANI-B office
	L2		1		For first oscillator unit of each pair
J95108N	L4	1		Trunk Connector Unit	
	L5		1		L5 for 11-foot 6-inch frame
	L7		1		L7 for 9-foot 0-inch frame
	L9	1			
J38943AF	L1			Pulse Generator Unit	Provide one per ANI-C office
	L2				Provide when AMARS is required