CONVERTER TRUNK FRAME
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, and circuits to be used in the engineering, manufacture, and installation of the converter trunk frame in No. 1, 350A, 355A, and 35E97 step-by-step offices serving noncommon control TOUCH-TONE® calling lines.

1.02 This specification is reissued:

(a) To add information to 2. SUPPLEMENTARY INFORMATION.

(b) To add list 6 and Notes D and E to J33025J.

1.03 A common control arrangement for TOUCH-TONE calling that is adaptable for controlled outpulsing is also available. The equipment design requirements for the TOUCH-TONE calling portion of common control are covered in the general specification J39225.

CAPACITY

1.04 The first 11-foot 6-inch converter trunk frame in a converter group has the capacity of ten 20-circuit converter trunk units with an associated converter trunk cross-connecting field; one jack, key, and lamp panel; one talk line, miscellaneous, and test set connector unit; one converter test and alarm unit; and one converter test frequency supply and pulse generator unit. Converter group hereafter refers to the line groups and associated TOUCH-TONE units served by 100 or less converters.

1.05 The supplementary converter trunk frame has a capacity for fifteen 20-circuit converter trunk units with an associated converter trunk cross-connecting field; one jack, key, and lamp panel; and one talk line, miscellaneous, and test set connector unit.

1.06 The first 9-foot 0-inch converter trunk frame in a converter group has the capacity of ten 20-circuit converter trunk units with an associated converter trunk cross-connecting field; one jack, key, and lamp panel; one talk line, miscellaneous, and test set connector unit; one converter test and alarm unit; and one converter test frequency supply and pulse generator unit.

1.07 The additional 9-foot 0-inch converter trunk frame required in a converter group shall be engineered by the local operating company. Space should be allotted on the initially engineered frame for the ultimate jack, key, and lamp panel growth.

DESCRIPTION

1.08 The converter trunk frame, as illustrated in Fig. 1, consists of a bulb-angle type framework, 11 feet 6 inches high and 2 feet 5/8 inch long, which accommodates 23-inch mounting plates. The converter trunk frame has one modular fuse panel located at the first mounting plate position on the frame. The converter trunks are numbered and equipped from the bottom and occupy a major portion of the frame. Test equipment is also provided on the first converter trunk frame for making maintenance tests and operational routines.

1.09 The converter trunk frame, as illustrated in Fig. 2, consists of a bulb-angle type framework, 9 feet 0 inch high and 2 feet 5/8 inch long, which accommodates 23-inch mounting plates. The converter trunk frame has one modular fuse panel located

at the first mounting plate position on the frame. The converter trunks are numbered and equipped from the bottom up and occupy a major portion of the frame. Test equipment is also provided on the first converter trunk frame for making maintenance tests and operational routines.

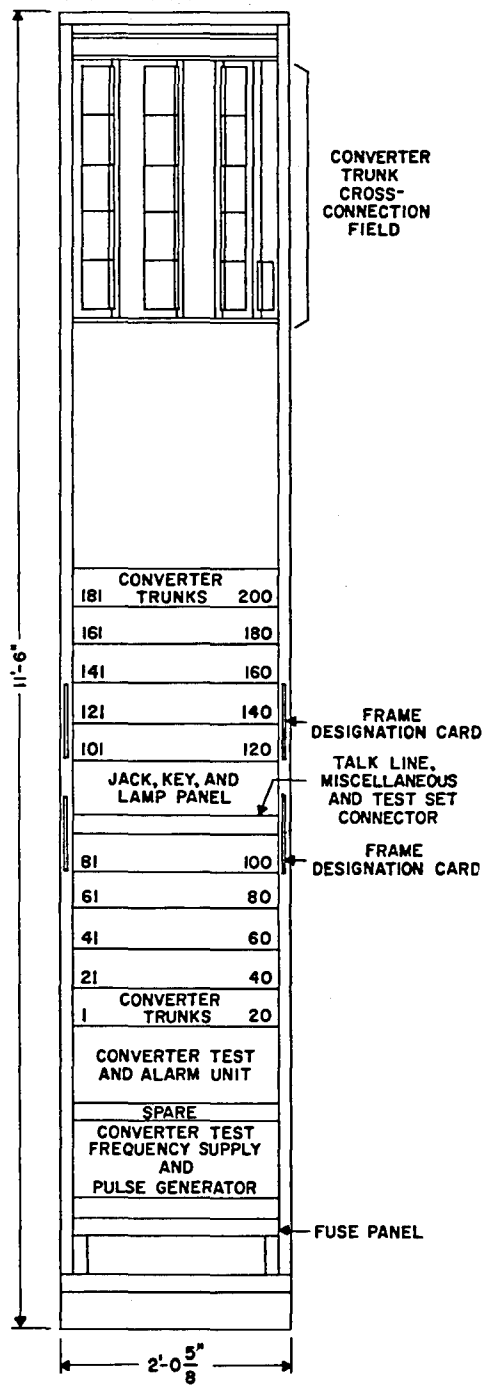


Fig. 1—Converter Trunk Frame—J33025F

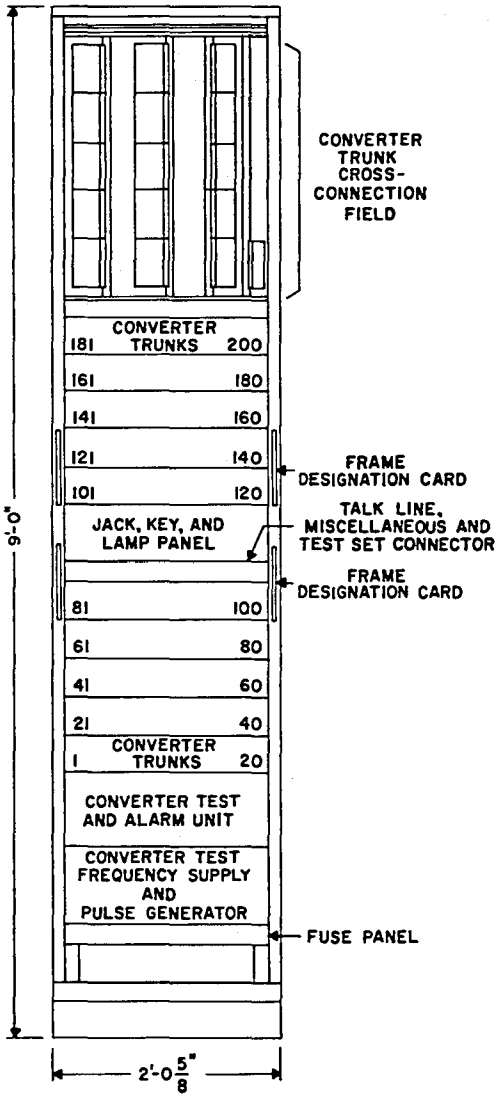


Fig. 2—Converter Trunk Frame—J33025G

1.10 The supplementary converter trunk frame per Fig. 3 consists of a bulb-angle type framework 11 feet 6 inches high and 2 feet 5/8 inch long, which accommodates 23-inch mounting plates. The supplementary converter trunk frame has one modular fuse panel located at the first mounting plate position on the frame. In place of the test equipment located on the converter trunk frame, up to five additional converter trunk units may be mounted on this frame providing a capacity of fifteen 20-circuit converter trunk units and associated terminal strips.

1.11 The converter trunk unit, which is 4 inches high, contains 20 converter trunks. A

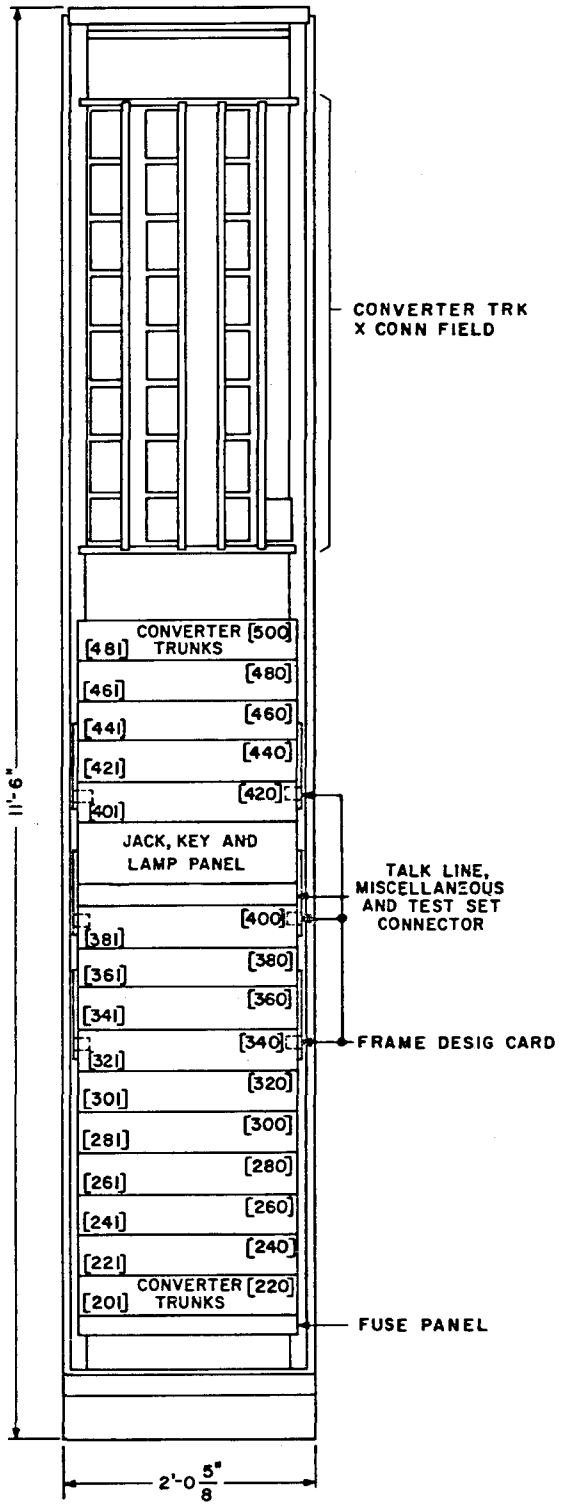


Fig. 3—Supplementary Converter Trunk Frame—J33025M

converter trunk is introduced into the line finder-first selector cabling of each line group arranged for TOUCH-TONE calling lines. When a call is initiated, a trunk finder, having access to a converter or access to converters through converter finders, seizes the converter trunk associated with the line finder handling the call. After the trunk finder cuts through, the converter trunk splits the tip and ring leads between the line finder and first selector. The tip and ring leads remain split until the converter performs its function, after which the leads are reclosed and remain so until the call is terminated.

1.12 The converter test and alarm unit is 8 inches high and contains test relay equipment, alarm relays, the time-out (TO) plant registers, and the HN-HO-H1 key. One or more converters may be held on time-out if the HN-HO-H1 key is operated.

1.13 The converter test, frequency supply, and pulse generator unit is 8 inches high and contains equipment for testing simulated transmission losses, frequency deviation, pulse rate and percent break test, and 3-frequency transmission.

1.14 The talk line, miscellaneous, and test set connector unit is a single mounting plate unit provided on all converter trunk and converter frames. This unit consists of test posts, −48 volt battery jack, switchman talk line jack, spare jack, and test jacks for connecting the test set to the frame-mounted test unit. These test jacks shall be located on converter trunk frames or converter frames to permit the 10-foot test cords provided with the converter portable test set to reach all converter trunk frames or converter frames in a given lineup.

1.15 The jack, key, and lamp panel is 5-1/4 inches high. It can be equipped with test and alarm facilities to handle a maximum of 20 converters. Each converter in an office has the following jack, key, and lamp panel termination: C lamp, RL jack, MB jack, and T jack. The C lamp is lit when a converter is off-normal or stuck. The RL jack is used to release a held converter. The make-busy (MB) jack is furnished in offices equipped with converter finders. The test jack (T) is always furnished for making any converter busy for test.

1.16 A converter trunk cross-connecting field is used to associate line finders, converter

trunks, and trunk finder bank terminals. This cross-connecting field is also used to identify line class of service. Direct cabling is used between the following equipments: line finder and converter trunk; converter trunk and trunk finder bank terminal; trunk finder and converter finder; and converter finder bank and converter.

1.17 Four frame designation cards are provided on the converter trunk frame to associate the selector, line finder, converter trunk, and trunk finder.

1.18 Dial tone must be removed from all first selectors associated with TOUCH-TONE line finders since the converter provides dial tone. Dial tone should not be removed, however, from the balance of the first selectors.

1.19 Two arrangements are available for interconnecting line finders and their associated converter trunks with their required number of converters in accordance with Fig. 4.

(a) For a small installation in which the traffic demands will not require more than 100 converter trunks and 20 converters, provide one, two, or four trunk finder shelves with the trunk finder jacks cabled directly to converters.

(b) When more than 20 converters are required, provide a trunk finder to converter finder to converter arrangement.

1.20 A converter trunk and link traffic diagram is shown in Fig. 5. This traffic diagram illustrates a converter group having 100 converters, serving through 20 shelves of converter finders, with a maximum design capacity of 20 trunk finder shelves. In addition, a composite lead diagram for various office arrangements is shown in Fig. 6. A trunk finder shelf will handle a maximum of 100 converter trunks. Ten fundamental line finder groups fully equipped with 20 line finders each would fully utilize the capacity of 2 trunk finder shelves. If traffic characteristics dictate that less than 20 line finders per group be equipped, then "fill-in" line finder groups may be used to more fully utilize the capacity of the trunk finder shelves. For example, if 18 line finders per fundamental line finder group are used, then 11 line finder groups may be served by 2 trunk finder shelves; that is, the fundamental 10 line finder groups plus 1 fill-in line finder group. The converter trunks associated with fundamental line finders 1 through 10 in each of the 10 line finder groups are cabled directly to the converter trunk cross-connecting field on terminal strips A1 through A5. The converter trunks associated with fundamental line finders 11 through 20 in each of the 10 line finder groups are cabled directly to the converter trunk cross-connecting field on terminal strips B1 through B5. The reason for this is that, in practice, the first 10 fundamental line finders in a line finder group will always be equipped, while any of the line finders 11 through 20 may be unequipped. Thus, with installations varying from 11 through 20 line finders and with the possibility of these quantities changing, the cross-connection of the numbers 11 through 20 line finders will facilitate any future changes and minimize cable additions. All line finders in the fill-in line finder groups are cabled directly to the converter trunk cross-connecting field on terminal strips C1 through C5. Fill-in line finder groups are used to more fully utilize the capacity of the trunk finder shelves.

1.21 Specific assignment of converter trunks to trunk finder terminals provides alternate use of trunk finder shelves in conjunction with alternate use of subgroups of line finders, thus providing a service assurance factor in case of a failure of either alternate trunk finder shelf. See ED-32361-01 for suggested line finder, converter trunk, and trunk finder assignment patterns.

1.22 When converter finders are required, the converter finders are equipped in the same order as their associated trunk finders; that is, 1, 6, 4, 9, 2, 7, 3, 8, 5, and 10.

1.23 Converters are assigned to the banks of converter finders by direct cabling. The method of assignment of converters to converter finder bank terminals, coupled with the normal slip between switch banks and a complete reversal within each level of terminals 1 through 10 between adjacent shelves, provides for an even distribution of traffic over all converters and reduces both horizontal and vertical hunting time. Assignment patterns are shown in ED-32362-01.

2. SUPPLEMENTARY INFORMATION

814-000-000—Numerical Index—Step-by-Step Systems
800-600-000—Checking List—General Equipment Requirements
201-821-301—TOUCH-TONE Calling-Receiving Circuit

J99289—Trouble Location
951-920-100—TOUCH-TONE Calling Receivers—Types A2 and A3
J32004—814-414-150—Trunk and Converter Finders and 10-Capacity Finder Shelves—No. 1, 350A, 355A, and Intertoll Dialing Offices
J33024—814-320-150—Converter Frame
J33026—814-634-150—Converter Test Set (Box Type)
J38805—814-005-151—General Outline—No. 355A Office
J39206—814-005-150—General Outline—No. 1 and 350A Offices
J39210—814-008-150—Western Electric Company Equipment for Additions to No. 35E97 Offices
J39225—814-005-152—General Outline Common Control Facilities—No. 1, 350A, and 355A Offices
J99289—801-621-151—Receiver-Type A3
Floor Plan Data—Section 5.2, Sheet 57
Current Drain Data—
SD-31359-02—No. 1 Office
SD-31364-02—No. 350A Office
SD-31780-02—No. 355A Office
SD-32325-02—No. 35-E-97 Office

3. DRAWINGS

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

Keysheets

SD-31359-01—No. 1 Office
SD-31364-01—No. 350A Office
SD-31780-01—No. 355A Office
SD-32325-01—No. 35-E-97 Office
SD-90250-01—Master Keysheet—All Systems

Circuits

SD-31953-01—Step-by-Step Systems No. 1, 350A, or 355A Intertoll Dialing Office With CAMA Trunk Finder Circuit
SD-32326-01—Step-by-Step Systems, No. 1, 350A, 355A, or 35E97 Converter Trunk Circuit for Use With Line Groups Equipped With TOUCH-TONE Subsets
SD-32329-01—Step-by-Step Systems No.1, 350A, 355A, or 35E97 Converter Test Circuit for Testing TOUCH-TONE Calling Signal to Dial Pulse Converter Circuit
SD-32331-01—Step-by-Step Systems No. 1, 350A, 355A, or 35E97 Miscellaneous Circuit Converter and Converter Trunk Frames
SD-32333-01—Step-by-Step Systems No. 1, 350A, 355A, or 35E97 Jack, Key and Lamp, and Plant Register Circuit for Use With TOUCH-TONE Calling Signal to Dial Pulse Converter Circuits

Equipment

ED-95131-( )—Modular Fuse Blocks and Accessories for Fuse Panel Arrangements Adopted
J33025F-( )—Converter Trunk Frame—11 Feet 6 Inches High
J33025G-( )—Converter Trunk Frame—9 Feet 0 Inch High
J33025H-( )—Converter Trunk Unit
J33025J-( )—Converter Test and Alarm Unit
J33025K-( )—Converter Test Frequency Supply and Pulse Generator Unit
J33025L-( )—Talk Line, Miscellaneous, and Test Set Connector Unit
J33025M-( )—Supplementary Converter Trunk Frame

Wiring and Cabling

ED-31296-( )—Method of Running Power Feeders
ED-32264-( )—Wire Gauges and Type of Insulation for Step-by-Step Frames
ED-32361-01—Typical Line Finder—Converter Trunk—Trunk Finder Assignment Patterns
ED-32362-01—Converter-to-Converter Finder Bank Terminals—Assignment Patterns

Switchboard Cabling Plan and Details

ED-31353-10, -11—Switchboard Cabling Plan and Details—Converter Trunk Frame, J33025F and J33025G
ED-31355-( )—Switchboard Cabling Plan and Details—Supplementary Converter Trunk Frame—J33025M

4. EQUIPMENT

J33025F—A T&TCo Std—Converter Trunk Frame—11 Feet 6 Inches High

List 2—A&M Only—Supplementary cable required in addition to list 1 for converter trunks 81 through 200 per SD-32326-01, Fig. 1 and 2, and the associated six 251H terminal strips mounted in positions A3 through A5

and positions B3 through B5. (See Notes C and E.)

List 3—Equipment consisting of one 251D terminal strip mounted in position C1 and one detail 2 mounting bar in position C, required in addition to list 1 or 8 to cross-connect one fundamental line finder fill-in group and associated converter trunks. (See Notes F and G.)

List 4—Equipment consisting of one 251D terminal strip mounted in position C, required in addition to list 3 for each additional line finder fill-in group required. (See Note F.)

List 5—Equipment per SD-32333-01, 20 Fig. 3, required in addition to list 1 or 8 when a trunk finder-converter finder arrangement is provided.

List 6—Equipment per SD-32333-01, eight Fig. 8, required in addition to list 1 or 8 for each additional eight converters.

List 7—Equipment per SD-32333-01, four Fig. 8, required for converter circuits 17 through 20.

List 8—Framework, assembly, wiring, and common equipment for one 11-foot 6-inch converter trunk frame. This frame is arranged to mount ten converter trunk units; a converter trunk cross-connecting field; a jack, key, and lamp panel; a converter test and alarm unit; a converter test frequency supply and pulse generator unit; a test set connector unit; and a fuse panel. (See Notes A, B, and H.)

	WIRE	EQUIP	NOTES
Conv Trk Ckt, SD-32326-01:			
Fig. 1	200	0	C
Fig. 2	10	0	
251B Terminal Strip		1	D
251H Terminal Strip		4	
Conv Test Ckt, SD-32329-01:			
Fig. 1	1	0	
Fig. 2	1	0	
Fig. 3	1	0	
Misc Ckt, SD-32331-01:			
Fig. 1	1	0	
Fig. 2	1	1	
Fig. 3	44	44	
Jack, Key, and Lamp Ckt, SD-32333-01:			
Fig. 1	1	0	
Fig. 2	20	20	
Fig. 3	20	0	
Fig. 4	1	1	
Fig. 8	20	8	

Notes

A. The frame local cable is made up of the miscellaneous leads from the talk line, miscellaneous, and test set connector unit; the jack, key, and lamp panel; frame cross-connecting field; and interunit wiring; and contains the battery and ground leads for all the frame equipment.

B. One talk line, miscellaneous, and test set connector unit per J33025L is furnished on each converter trunk frame.

C. A supplementary frame local cable is provided for converter trunks 81 through 200.*

*A&M Only

D. Detail 2 mounting bar is furnished in position D, and the 251B terminal strip is located in position D1. This terminal strip serves as a class-of-service cross-connecting field per SD-32326-01, CAD2.

E. The terminal strips per list 2 are associated with SD-32326-01, CAD3, 4, 5, and 6.*

*A&M Only

F. The mounting bar in position C should be equipped in vertical order beginning with position 1.

G. The terminal strips per list 3 are associated with SD-32326-01, CAD5 and 6.

H. All units to be mounted on this frame shall be provided as required in accordance with Table A.

I. Z wiring, SD-32329-01, is always required in addition to list 8 for dial-tone-first testing.

J33025G—AT&TCo Std—Converter Trunk Frame—9 Feet 0 Inch High

List 2—A&M Only—Supplementary cable required in addition to list 1 for converter trunks 81 through 200 per SD-32326-01, Fig. 1 and 2, and the associated six 251H terminal strips mounted in positions A3 through A5 and positions B3 through B5. (See Notes C and E.)

List 3—Equipment consisting of one 251D terminal strip mounted in position C1 and one detail 2 mounting bar in position C, required in addition to list 1 or 8 for cross-connecting one fundamental line finder fill-in group and associated converter trunks. (See Notes F and G.)

List 4—Equipment consisting of one 251D terminal strip mounted in position C required in addition to list 3 for each additional LF fill-in group required. (See Note F.)

List 5—Equipment per SD-32333-01, 20 Fig. 3, required in addition to list 1 or 8 when a trunk finder-converter finder arrangement is provided.

List 6—Equipment per SD-32333-01, eight Fig. 8, required in addition to list 1 or 8 for each additional eight converters.

List 7—Equipment per SD-32333-01, four Fig. 8, required for converter circuits 17 through 20.

List 8—Framework, assembly, wiring, and common equipment for one 9-foot 0-inch converter trunk and cross-connecting frame. This frame is arranged to mount ten converter trunk units; a converter trunk cross-connecting field; a jack, key, and lamp panel; a converter test and alarm unit; a converter test, frequency supply, and pulse generator unit; a test set connector unit; and a fuse panel. (See Notes A, B, and H.)

	WIRE	EQUIP	NOTES
Conv Trk Ckt, SD-32326-01:			
Fig. 1	200	0	C
Fig. 2	10	0	
251B Terminal Strip		1	D
251H Terminal Strip		4	
Conv Test Ckt, SD-32329-01:			
Fig. 1	1	0	
Fig. 2	1	0	
Fig. 3	1	0	
Misc Ckt, SD-32331-01:			
Fig. 1	1	0	
Fig. 2	1	1	
Fig. 3	44	44	
Jack, Key, and Lamp Ckt, SD-32333-01:			
Fig. 1	1	0	
Fig. 2	20	20	
Fig. 3	20	0	
Fig. 4	1	1	
Fig. 8	20	8	

Notes

A. The frame local cable is made up of the miscellaneous leads from the talk line, miscellaneous, and test set connector unit; the jack, key, and lamp panel; frame cross-connecting field, interunit wiring; and contains the battery and ground leads for all the frame equipment.

B. One talk line, miscellaneous, and test set connector unit per J33025L is furnished on each three adjacent converter trunk frames.

C. A supplementary frame local cable is provided for converter trunks 81 through 200.*

* A&M Only.

D. Detail 2 mounting bar is furnished in position D and the 251B terminal strip is located in position D1. This terminal strip serves as a class-of-service cross-connecting field per SD-32326-01, CAD2.

E. The terminal strips per list 2 are associated with SD-32326-01, CAD3, 4, 5, and 6.*

* A&M Only.

F. The mounting bar in position C should be equipped in vertical order beginning with position 1.

G. The terminal strips per list 3 are associated with SD-32326-01, CAD5 and 6.

H. All units to be mounted on this frame shall be provided as required in accordance with Table A.

I. Z wiring, SD-32329-01, is always required in addition to list 8 for dial-tone-first testing.

J33025H—AT&TCo Std—Converter Trunk Unit

List 1—Assembly, wiring, and equipment for one converter trunk unit per SD-32326-01, 20 Fig. 1 and one Fig. 2. (See Notes A.)

Note

A. W wiring shall be shop furnished and removed per job requirements.

J33025J—AT&TCo Std—Converter Test and Alarm Unit

List 1—Assembly, equipment, and wiring for one converter test and alarm unit per SD-32329-01, one Fig. 1; and SD-32333-01, one Fig. 1, one Fig. 6, and one Fig. 7. (See Notes A, B, and C.)

List 2—Equipment and wiring per SD-32333-01, Fig. 6, required in addition to list 1 for each additional aisle of TOUCH-TONE calling equipment.

List 3—Equipment and wiring per SD-32333-01, Fig. 7, required in addition to the second or fourth list 2.

List 4—Equipment and wiring per SD-32333-01, Fig. 1, option R only, and Fig. 9 required in addition to list 1 for use in a No. 35E97 office.

List 5—Apparatus and wiring always required in addition to list 1 for dial-tone-first test operation per SD-32329-01, App Fig. 1, option Z.

List 6—Wiring and apparatus required in addition to list 1 to provide an alarm indication to CSACS per SD-32333-01, option Q.

Notes

A. One HSC lamp shall be ordered per SD-32333-01, Fig. 5, for each 20 converters associated with one converter trunk frame. This lamp shall be located on the office resistance lamp board. (Maximum five HSC lamps.)

B. One Fig. 6 is required for each aisle of TOUCH-TONE calling equipment.

C. One Fig. 7 is required for every two Fig. 6.

D. Provide option Q in addition to list 3 when an alarm indication to CSACS is required.

E. List 6 and Note D do not apply in a 35E97 office.

J33025K—AT&TCo Std—Converter Test Frequency Supply and Pulse Generator Unit

List 1—Assembly, equipment, and wiring for one converter test frequency supply and pulse generator unit per SD-32329-01, Fig. 2.

List 2—Apparatus and wiring always required in addition to list 1 for dial-tone-first test operation per SD-32329-01, App Fig. 2 and 4, option Z.

J33025L—AT&TCo Std—Talk Line, Miscellaneous, and Test Set Connector Unit

List 1—Assembly, wiring, and equipment for one talk line, miscellaneous, and test set connector unit per SD-32331-01, Fig. 1, and SD-32329-01, Fig. 3.

J33025M—AT&TCo Std—Supplementary Converter Trunk Frame—11 Feet 6 Inches High

List 1—Framework, assembly, wiring, and common equipment for one 11-foot 6-inch high supplementary converter trunk frame arranged, but not equipped, for 15 converter trunk units.

	WIRE	EQUIP	NOTES
Conv Trk Ckt, SD-32326-01:			
Fig. 1	300	0	
Fig. 2	15	0	
Misc Ckt, SD-32331-01:			
Fig. 1	1	0	
Fig. 2	1	1	
Fig. 3	47	47	
Jack, Key, and Lamp Ckt, SD-32333-01:			
Fig. 2	20	0	
Fig. 3	20	0	
Fig. 8	20	0	

List 2—Equipment consisting of one 251D terminal strip mounted in position C1 and one P-48J896 mounting bar mounted in position C required in addition to list 1 to cross-connect the initial line finder fill-in group and associated converter trunks. (See Note B.)

List 3—Equipment consisting of one 251D terminal strip mounted in position C2, C3,..., or C8 required in addition to list 2 for each additional line finder fill-in group.

List 4—Equipment required in addition to list 1 for test facilities for 20 additional TOUCH-TONE converters (21 through 40), (41 through 60), etc, per SD-32333-01, 20 Fig. 2, 20 Fig. 3, and 20 Fig. 8.

Notes

A. One talk line, miscellaneous, and test set connector unit per J33025L should be ordered for each 3rd, 6th, etc, supplementary converter trunk frame as well as for each isolated frame.

B. The mounting bar in position C should be equipped in vertical order beginning with position 1.

C. All units to be mounted on this frame shall be provided as required in accordance with Table B.

5. GENERAL NOTES AND INDEXES

5.01 The HSC resistance lamps per SD-32333-01, Fig. 5, and their associated A, B, and F fuses shall be located on the miscellaneous fuseboard.

5.02 The converter trunk cross-connecting field terminal strips A and B will have two switchboard cable leads and one frame local cable lead connected to each terminal. In wire wrapping these leads, the switchboard cable leads between the converter trunks and trunk finder bank shall be wrapped last. Future office growth or traffic rearrangements between the converter trunks and the trunk finders can be handled more efficiently by connecting in this manner.

List of A&M Only and Mfr Disc. Equipment

The following 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.

EQUIPMENT	RATING	DETAILS LAST SHOWN IN ISSUE	REPLACING EQUIPMENT
J33025A	Mfr Disc.	1	J33025F
J33025B	Mfr Disc.	1	J33025G
J33025C	Mfr Disc.	1	J33025H
J33025D	Mfr Disc.	1	—
J33025E	Mfr Disc.	1	—
J33025F,L1	Mfr Disc.	4	J33025F,L8
L2	A&M Only	4	—
J33025G,L1	Mfr Disc.	4	J33025G,L8
L2	A&M Only	4	—
J33025H,L2	Mfr Disc.	2	J33025H,L1
J33025L,L2	Mfr Disc.	2	J33025L,L1

TABLE A

CONVERTER TRUNK FRAMES J33025F AND J33025G

EQUIPMENT UNITS SHALL BE FURNISHED AS FOLLOWS:				
UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
J CODE	LIST NO.	ALWAYS	FOR OPTION INDICATED	
J33025H	1	1	9	Provide one unit for each LF group
J33025J	1	1		
	2		1	Provide one for each additional aisle of TOUCH-TONE calling equipment
	3		1	Provide one for each additional two lists 2
J33025K	1	1		
J33025L	1	1		

TABLE B

SUPPLEMENTARY CONVERTER TRUNK FRAME J33025M
11 FEET 6 INCHES

EQUIPMENT UNITS SHALL BE FURNISHED AS FOLLOWS:				
UNIT		QUANTITY TO BE PROVIDED		DESCRIPTION OF OPTION
J CODE	LIST NO.	ALWAYS	FOR OPTION INDICATED	
J33025H	1		15	Provide one unit for each fundamental LF group (20 capacity)
J33025L	1	1		

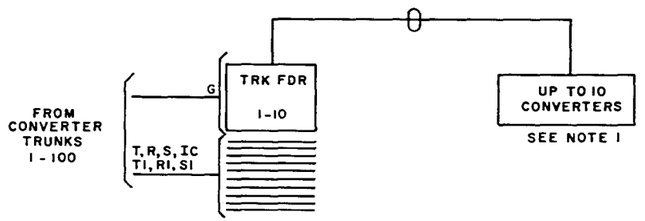


Fig. 4A

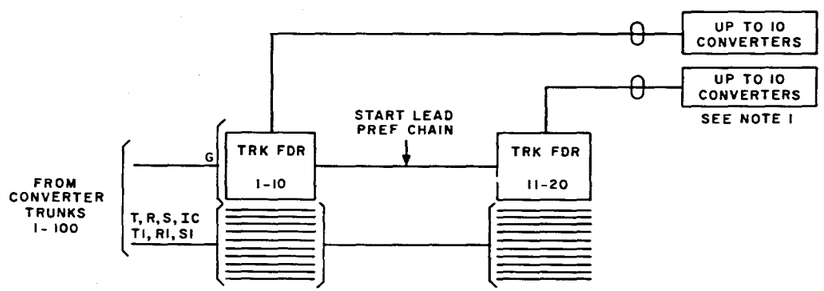


Fig. 4B

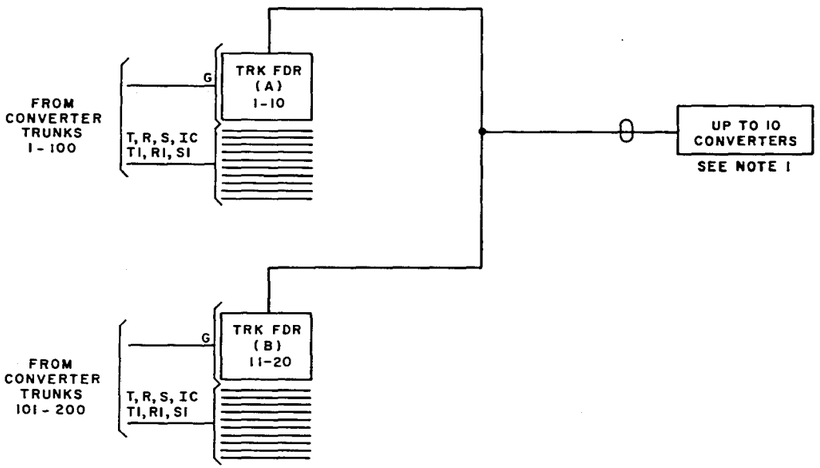


Fig. 4C

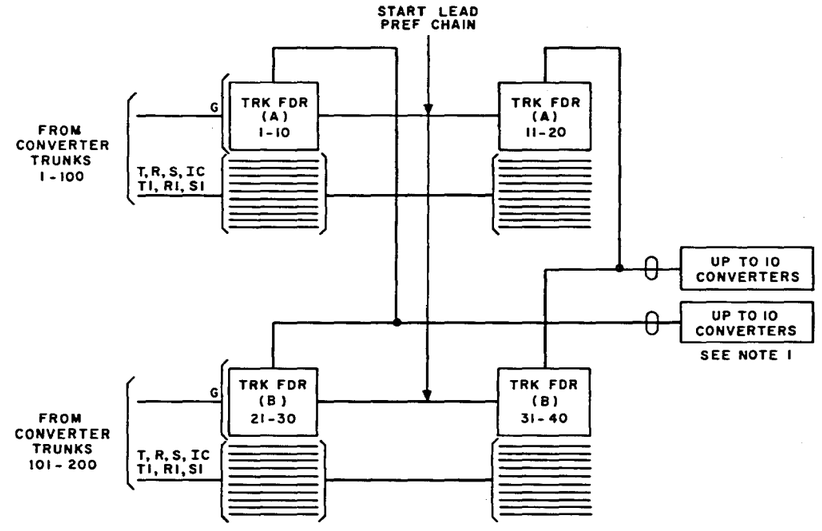
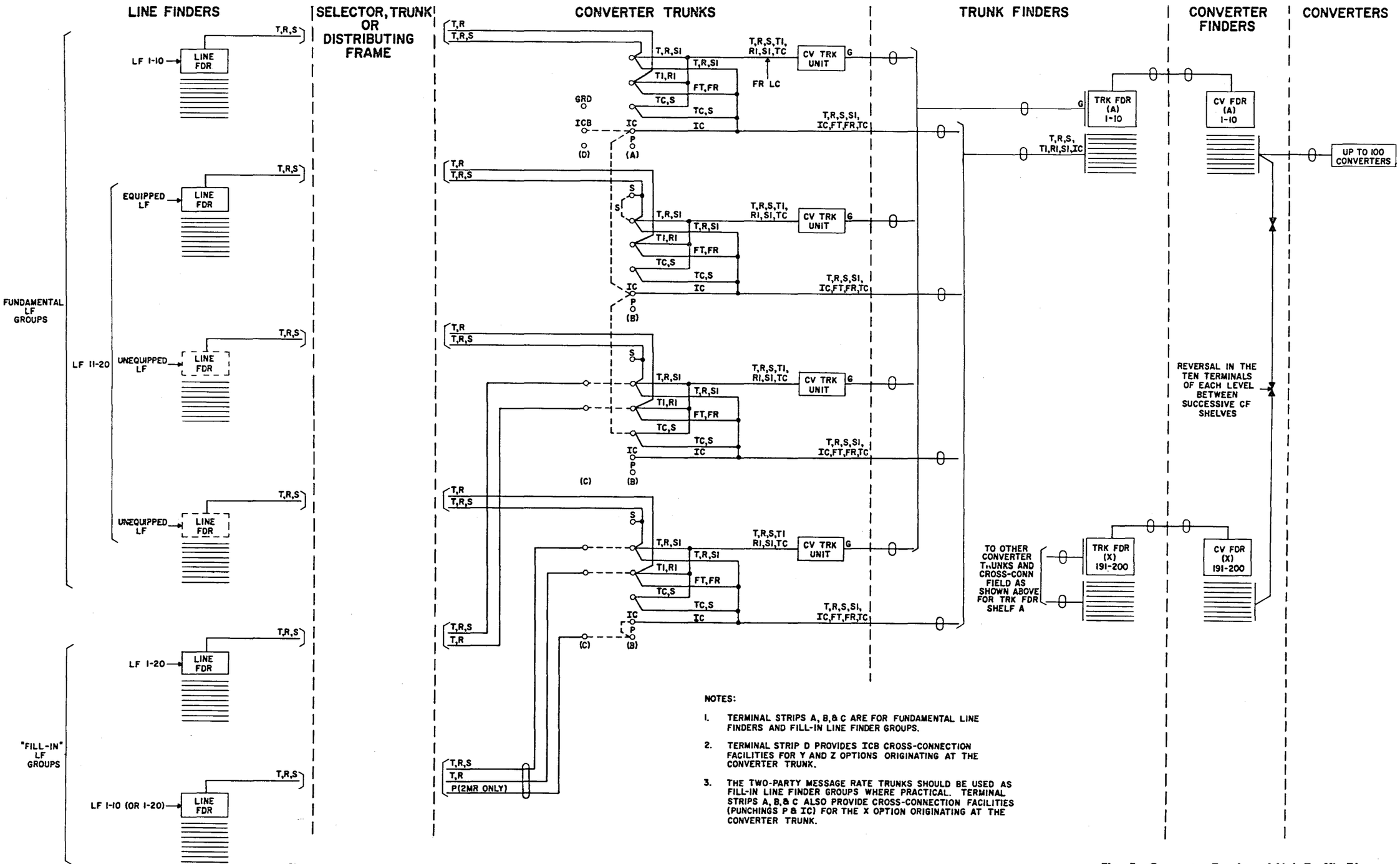


Fig. 4D

NOTES:
1. FIG. 5 AGREES WITH SD-31953-01, NOTE 205.

Fig. 4—Direct Connection of Trunk Finders to Converters



NOTES:

1. TERMINAL STRIPS A, B, & C ARE FOR FUNDAMENTAL LINE FINDERS AND FILL-IN LINE FINDER GROUPS.
2. TERMINAL STRIP D PROVIDES ICB CROSS-CONNECTION FACILITIES FOR Y AND Z OPTIONS ORIGINATING AT THE CONVERTER TRUNK.
3. THE TWO-PARTY MESSAGE RATE TRUNKS SHOULD BE USED AS FILL-IN LINE FINDER GROUPS WHERE PRACTICAL. TERMINAL STRIPS A, B, & C ALSO PROVIDE CROSS-CONNECTION FACILITIES (PUNCHINGS P & IC) FOR THE X OPTION ORIGINATING AT THE CONVERTER TRUNK.

Fig. 5—Converter Trunk and Link Traffic Diagram

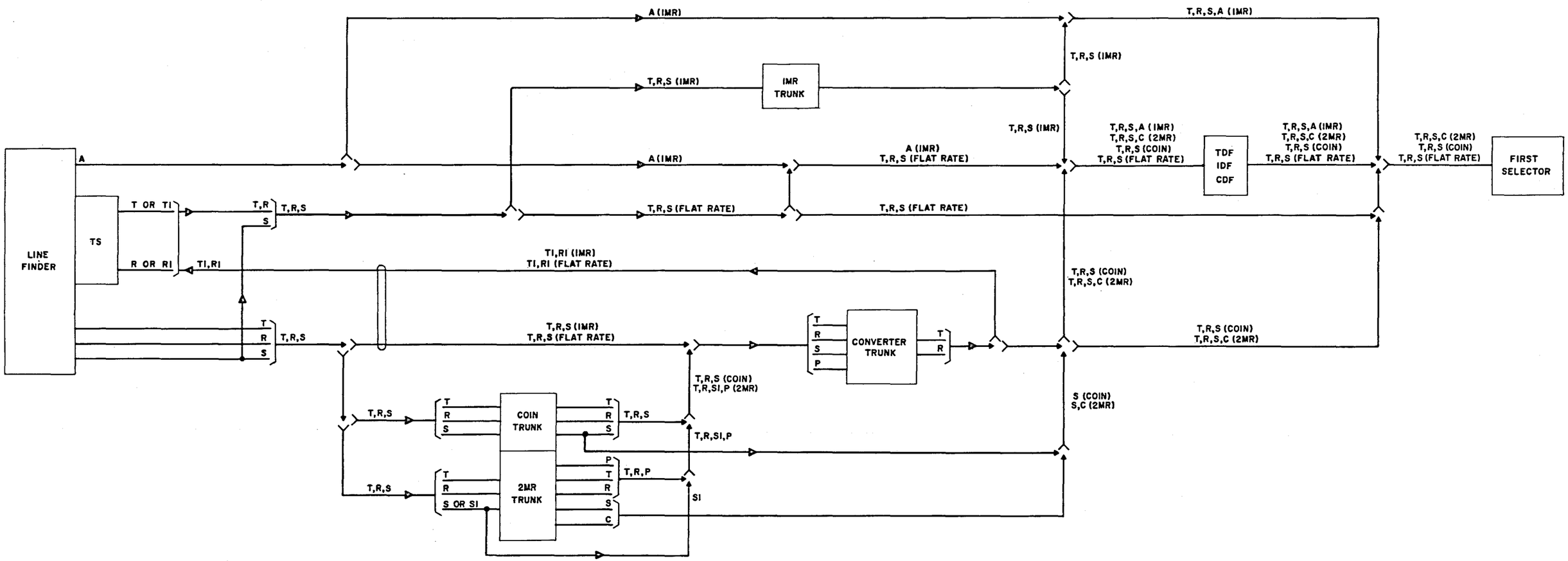


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Fig. 6—Composite Lead Diagram for Office Arrangements