

AUTOMATIC CALL DISTRIBUTION TEST FRAMES

EQUIPMENT DESIGN REQUIREMENTS

NO. 5 CROSSBAR SYSTEM

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 Automatic Call Distribution Test Frames. These frames are required in all No. 5 crossbar offices arranged for the Automatic Call Distribution (ACD). The automatic call distribution test complex always consists of three single bay frames as follows: the test frame, the trouble display frame, and the jack bay.

1.02 The relay units mounted on this frame are covered in Part 4 of this specification.

CAPACITY

1.03 The ACD test frames provide the facilities for testing the equipment associated with one ACD marker group having a maximum of six markers, ten line link frames, and five trunk link frames.

DESCRIPTION

1.04 The ACD test frames are used in the No. 5 crossbar ACD office to make tests of markers, incoming line circuits, position and outgoing trunks, and of the linkage through the office. Progress of the test call is indicated on the test frame lamp panel. A trouble record or trouble indication can be requested from the marker under switch control.

(a) The ACD test frame also provides for testing of:

- (1) Close down trunks that terminate in another ACD office.
- (2) Incoming line circuits which handle regular, trouble, and machine intercept traffic from the connecting office.
- (3) Intraflow trunks and the marker intraflow functions.

(b) The trouble display frame gives a visual lamp display or a trouble record card of all troubles encountered by the marker.

(c) The ACD jack bay provides:

- (1) Trouble record request alarms.
- (2) Alarm transfer and trouble record transfer.
- (3) Control of miscellaneous marker functions.
- (4) In-use, guard, made-busy, and alarm lamps.
- (5) Alarm release keys, make-busy, and test jacks.
- (6) Voltmeter and transmission testing.
- (7) Close down trunk make-busy control.
- (8) ACD digit register testing and telephone circuit.

SUBDIVISIONS OF EQUIPMENT AND DETAILED INDEX

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

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING	CKT PER UNIT	MTG PLTS UNIT
J23266A	AT&TCo Std	Auto. Call Dist Tst Fr	J23266A-()	SD-27997-01 SD-25574-01	Frame	—
J23266B	AT&TCo Std	ACD Jk Bay	J23266B-()	SD-27999-01 SD-25574-01	Frame	—
J23266C	AT&TCo Std	Auto. Call Dist Tbl Display Fr	J23266C-()	SD-27998-01 SD-27999-01 SD-25572-01 SD-25574-01 SD-96410-01	Frame	—
J23266AA	AT&TCo Std	ACD Tst Cont Unit	J23266AA-()	SD-27997-01, Fig. 5	1	4
J23266AB	AT&TCo Std	ACD Tst Rel Unit	J23266AB-()	SD-27997-01, Fig. 6	1	2
J23266AC	AT&TCo Std	ACD Tst Misc Unit	J23266AC-()	SD-27997-01, Fig. 4 & 7	1	3
J23266AD	AT&TCo Std	ACD Tst Call Trans Unit	J23266AD-()	SD-27997-01, Fig. 8	1	2
J23266BA	AT&TCo Std	ACD Jk Bay Rel Unit	J23266BA-()	SD-27999-01, Fig. 1 & 7 SD-94820-01, Fig. 2	1	4
J23266BB	AT&TCo Std	ACD Jk Bay Alm Unit	J23266BB-()	SD-27999-01, Fig. 14 SD-94820-01, Fig. 2	1	3
J23266BC	AT&TCo Std	ACD Jk Bay Close Down Svc Unit	J23266BC-()	SD-27999-01, Fig. 5, 6, & 8	1	
J23266CA	AT&TCo Std	ACD Tbl Ind Lp Cont Unit	J23266CA-()	SD-27998-01, Fig. 1, 2, 4, 5, & 6	1	9
J23266CB	AT&TCo Std	ACD Voltmeter Unit	J23266CB-()	SD-27999-01, Fig. 15	1	5

Circuit Schematic Index

CIRCUIT DRAWING	J23266 EQUIPMENT CODE
SD-25572-01	C
SD-25574-01	A, B, C
SD-27997-01	A, AA, AB, AC, AD
SD-27998-01	C, CA
SD-27999-01	B, BA, BB, BC, C, CB
SD-94820-01	BA, BB
SD-96410-01	C

2. SUPPLEMENTARY INFORMATION

819-000-000—No. 5 Crossbar System Index
 800-600-000—List of General Equipment Requirements
 800-610-152—Gauge and Insulation of Wire
 J29274—819-005-151—General Outline—Automatic
 Call Distributor Operating and Equipment
 Features
 Floor Plan Data—Section 11.1
 Current Drain Data Sheet—SD-25760-02

3. DRAWINGS

For additional drawings forming a part of this
 specification, see listings under Subdivisions of
 Equipment and Detailed Index.

Keysheets

SD-25760-01—No. 5 Crossbar System

Circuits

SD-25574-01—Miscellaneous Circuit For All Frames
 SD-25572-01—Trouble Recorder Control and Test
 Circuit
 SD-94820-01—Common Systems—Time Delay Control

Circuit

SD-96410-01—Auxiliary Signal

Framework

ED-26150-01—Jack, Key, and Lamp Panel
 Assembly—Three Panels
 ED-92271-01—Jack, Key, and Lamp Panel
 Assembly—Two Panels
 ED-26524-01—Sheet Metal Frame—Single Bay
 ED-94907-01—Pigeonhole and Writing Shelf Assembly

Equipment

ED-25889-01—Fuse Alarm Lamps and Test Points
 ED-26528-70—Frame Appliance Outlets and
 Connections
 ED-26567-01—Jack Mounting and Spare Fuse Holder
 ED-26920-10—Fuse Panel Connections
 ED-27511-10—Fuse Panel Assembly

Wiring and Cabling

ED-26589-11—Miscellaneous Circuit Switchboard
 Cabling Details
 ED-26589-12—Power, Ringing and Tone Distributing
 Frame Switchboard Cabling Details
 ED-27869-10—Automatic Call Distribution Test
 Frame Switchboard Cabling Details
 ED-27870-10—Automatic Call Distribution Jack Bay
 Switchboard Cabling Details
 ED-27871-10—Automatic Call Distribution Trouble
 Display Frame Switchboard Cable
 Details

4. EQUIPMENT***J23266A—AT&TCo Std—Automatic Call Distribution
Test Frame***

Equipment and Local Cable—J23266A-()

List 1—Framework, assembly, common equipment,
 and local cable for one automatic call
 distribution test frame.

WIRE EQUIP NOTES

Tst Ckt for ACD,
SD-27997-01:

Control Switch Ckt, Fig. 1 & 2	1	1
Indicator Lamp Ckt, Fig. 3	1	1
Misc Cont App Ckt, Fig. 4	1	0
Cont Relay Ckt, Fig. 5	1	0
Tk & Line Ckt Tst Relay, Fig. 6	1	0
Tk & Line Ckt Tst Misc App, Fig. 7	1	0
Call Transfer Ckt, Fig. 8	1	0
Test Jack Ckt, Fig. 9	1	0
ACD Test Cont Unit, J23266AA, L1	0	1
ACD Tst Rel Unit, J23266AB, L1	0	1
ACD Tst Misc Unit, J23266AC, L1	0	1
ACD Call Transfer Unit, J23266AD, L1	0	1
Misc Ckt, SD-25574-01:		
48V Fuse Ckt, Fig. 3, ZT Opt	1	1
48V Fuse Alm. Ckt, Fig. 7	1	1
Grd Feeder Ckt, Fig. 10	1	1
48V Fr Tst Bat. Ckt, Fig. 13	1	1
Spare Jk Ckt, Fig. 16	1	1
ACD Tst Remote Cont Jack Ckt, Fig. 19	1	1
Fr L Telephone Jack Ckt, Fig. 17	1	1

J23266B—AT&TCo Std—ACD Jack Bay

Equipment and Local Cable—J23266B-()

List 1—Framework, assembly, common equipment, and local cable for one ACD jack bay.

Jk, Lp & Key Ckt for ACD,
SD-27999-01:

Fig. 1	1	0
Fig. 3	700	0
Fig. 4	1	1
Fig. 5	5	0
Fig. 6	12	0
Fig. 7	1	0
Fig. 8	3	0
Fig. 14	1	0
Fig. 16	1	1
Fig. 18	5	5
Misc Ckt, SD-25574-01:		
48V Fuse Ckt, Fig. 3, & ZT Opt	1	1
48V Fuse Alm. Ckt, Fig. 7	1	1
Grd Feeder Ckt, Fig. 10	1	1
48V Fr Tst Bat. Ckt, Fig. 13	1	1
Spare Jk Ckt, Fig. 16	1	1
Fr L Tel Jk Ckt, Fig. 17	1	1
Remote Cont Jk Ckt, Fig. 19	1	1
Handset, Fig. 52	1	1

List 2—Wiring and equipment required in addition to list 1 for each 20 position trunks or 20 outgoing trunks for close down service per SD-27999-01, 20 Fig. 3.

Notes

A. In addition there are options involving wiring only as specified in Note 102 of SD-27999-01.

J23266C—AT&TCo Std—ACD Trouble Display Frame

Equipment and Local Cable—J23266C-()

List 1—Framework, assembly, common equipment, and local cable for one ACD trouble display frame. (See Note D.)

WIRE EQUIP NOTES

Jack, Lp, and Key Ckt
for ACD, SD-27999-01:

Fig. 2 & U Opt	6	6	E
Fig. 15	1	0	
Fig. 17	1	1	

Misc Ckt,
SD-25574-01:

48V Fuse Ckt, Fig. 3, & ZT Opt	1	1	
48V Fuse Alm. Ckt, Fig. 7	1	1	
Grd Feeder Ckt, Fig. 10	1	1	
48V Fr Tst Bat. Ckt, Fig. 13	1	1	
Spare Jk Ckt, Fig. 16	1	1	
Tel Jk Ckt, Fig. 51	1	1	
Remote Cont Jk Ckt, Fig. 19	1	1	

Aux Sig Ckt,

SD-96410-01: . B

Night Alm. Key Fig. 9	1	1	
Buzzer Key, Fig. 14	1	1	
Buzzer, Fig. 5 and X Opt	1	1	

List 2—Wiring and equipment required in addition to list 1 when office is arranged for trouble indicator lamp display. (See Note D.)

WIRE EQUIP NOTES

Trouble Indicator Ckt for ACD,
SD-27998-01:

Fig. 1	1	0	C
Fig. 2	34	0	
Fig. 3	34	22	
Fig. 4	9	0	
Fig. 5	1	0	
Fig. 6	1	0	

List 3—Wiring and equipment required in addition to list 1 when office is arranged for trouble record card perforator. (See Note D.)

Trouble Rcdr Cont and Tst
Ckt, SD-25572-01:

Fig. 5	1	1	C
Fig. 6	1	1	
Fig. 7	1	1	
Perforator, KS-13834	1	1	
Trbl Rcdr Cont and Tst Unit, J23252N-L1, 2	1	1	

Misc Ckt,

SD-25574-01:

Rcdr Power Supply Ckt, Fig. 12	1	1	
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Notes

- A. In addition there are options involving wiring only as specified in Note 102 of SD-27998-01 and SD-27999-01.
- B. Relay equipment associated with the Auxiliary Signal Circuit SD-96410-01, Note 102 is mounted on miscellaneous relay rack.
- C. Lists 2 and 3 are mutually exclusive and cannot be ordered for application on same frame.
- D. The frame local cable shall contain all wiring of list 1 and 2, or list 1 and 3 in accordance with the feature provided.
- E. When connecting trunk circuits are arranged for 24-volt operation, option U must be replaced by option V.
- F. A single-plate plant register unit (J23252BF) is required in each ACD office and shall be mounted in frame Position 33.

**J23266AA—AT&T Co Std—Automatic Call
Distribution Test Control Unit**

Equipment—J23266AA-()

List 1—Assembly, wiring, and equipment per SD-27997-01, Fig. 5 for one ACD test control unit.

Notes

- A. Reserved.

- B. This unit shall be mounted on the ACD test frame.

J23266AB—AT&TCo Std—Automatic Call Distribution Test Relay Unit

Equipment—J23266AB-()

- List 1**—Assembly, wiring, and equipment per SD-27997-01, Fig. 6 for one ACD test relay unit.

Notes

- A. Reserved.
- B. This unit shall be mounted on the ACD test frame.

J23266AC—AT&TCo Std—Automatic Call Distribution Test Miscellaneous Unit

Equipment—J23266AC-()

- List 1**—Assembly, wiring, and equipment per SD-27997-01, Fig. 4 and 7 for one ACD test miscellaneous unit.

Notes

- A. Reserved.
- B. This unit shall be mounted on the ACD test frame.

J23266AD—AT&TCo Std—Automatic Call Distribution Call Transfer Unit

Equipment—J23266AD-()

- List 1**—Assembly, wiring, and equipment per SD-27997-01, Fig. 8 for one ACD call transfer unit.

Notes

- A. Reserved.
- B. This unit shall be mounted on the ACD test frame.

J23266BA—AT&TCo Std—ACD Jack Bay Relay Unit

Equipment—J23266BA-()

- List 1**—Assembly, wiring, and equipment for one ACD jack bay relay unit per SD-27999-01, Fig. 1 and One Time Delay Control Circuit, SD-94820-01, Fig. 2. (See Note B.)

Notes

- A. Reserved.
- B. This 4-plate unit shall be mounted on the ACD jack bay.

J23266BB—AT&TCo Std—ACD Jack Bay Alarm Unit

Equipment—J23266BB-()

- List 1**—Assembly, wiring, and equipment for one ACD jack bay alarm unit per SD-27999-01, Fig. 14, and One Time Delay Control Circuit, SD-94820-01, Fig. 2. (See Note B.)

- List 2**—Wiring and equipment per SD-27999-01, Fig. 14, Y option only required in addition to list 1 when alarm sending is required.

Notes

- A. Reserved.
- B. This 3-plate unit shall be mounted on the ACD jack bay.

J23266BC—AT&TCo Std—ACD Jack Bay Close Down Service Unit

Equipment—J23266BC-()

- List 1**—Assembly, wiring, and equipment for one ACD jack bay close down service unit per SD-27999-01, five Fig. 5, twelve Fig. 6, and three Fig. 8. (See Note B.)

Notes

- A. Reserved.
- B. This 2-plate unit shall be mounted on the ACD jack bay.

**J23266CA—AT&TCo Std—ACD Trouble Indicator
Lamp Control Unit**

Equipment—J23266CA-()

List 1—Assembly, wiring, and equipment for one ACD trouble indicator lamp control unit per SD-27998-01, one Fig. 1, 5, 6, twenty-two Fig. 2, and nine Fig. 4. (See Note B.)

Notes

A. Reserved.

B. This 9-plate unit shall be mounted on the ACD trouble display frame.

J23266CB—AT&TCo Std—ACD Voltmeter Unit

Equipment—J23266CB-()

List 1—Assembly, wiring, and equipment for one ACD voltmeter unit per SD-27999-01, Fig. 15. (See Note B.)

Notes

A. Reserved.

B. This 5-plate unit shall be mounted on the ACD trouble display frame.

5. GENERAL NOTES

Wiring and Cabling

5.01 The codes of the switchboard cables and loose wires ordinarily used in cabling the ACD test frames are shown on the switchboard cabling detail drawing referred to in Part 3.

5.02 The following cross-connections shall be made with black wire on terminal strips located on the ACD test frame and ACD jack bay:

- (a) Cross-connections to be made by the installation force in accordance with information furnished by the telephone company at the time of installation.

- (1) On the AA-J terminal strip located on the ACD test frame, the line link frame location cross-connections shall be made in accordance with SD-27997-01, Note 401.

- (2) On the AB-A, AB-B, and AB-C terminal strips, cross-connections shall be made to associate ND- relays with close down trunks and sequential gate control circuits in accordance with Note 401 of SD-27999-01.

(b) Cross-connections to be made in the shop.

- (1) On J23252N unit, NR terminal shall be cross-connected to NR20. This limits to 20 the number of troubles to be accepted by the trouble perforator every 1/2 to 1 minute. This number can be changed in the field to ten or five by cross-connecting the correspondingly numbered NR10 and NR5 terminal to NR terminal.

Equipment

5.03 One 3P3D cord shall be furnished with J23266C, List 1, to permit releasing the trouble recorder request alarm from a remote location.

5.04 The KS-13834 perforator will be the local point for maintenance activity in the No. 5 ACD offices, as it provides information on troubles occurring in all major circuits. Since only one of these perforators is provided for each marker group, spares shall be ordered by the operating companies on the basis of one-per-area. These spares shall be provided with ten P20A cords and one J2BH cord, to facilitate patching the perforator to the recorder bay receptacles without having to mount the spare on the bay.

5.05 Codes J23266D through J23266Z, J23266AE through J23266AZ, J23266BD through J23266BZ, and J23266CC through J23266CZ are unassigned.

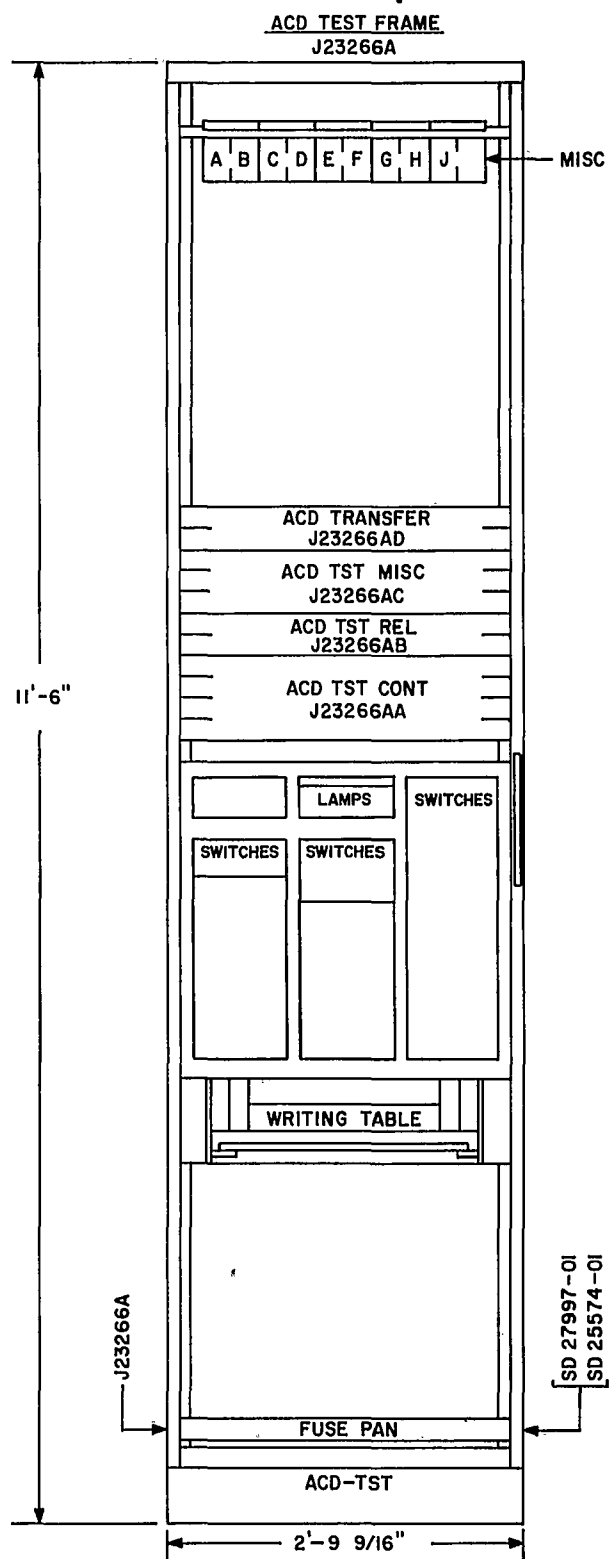


Fig. 1—Automatic Call Distribution Frame

ACD JACK BAY
J23266B

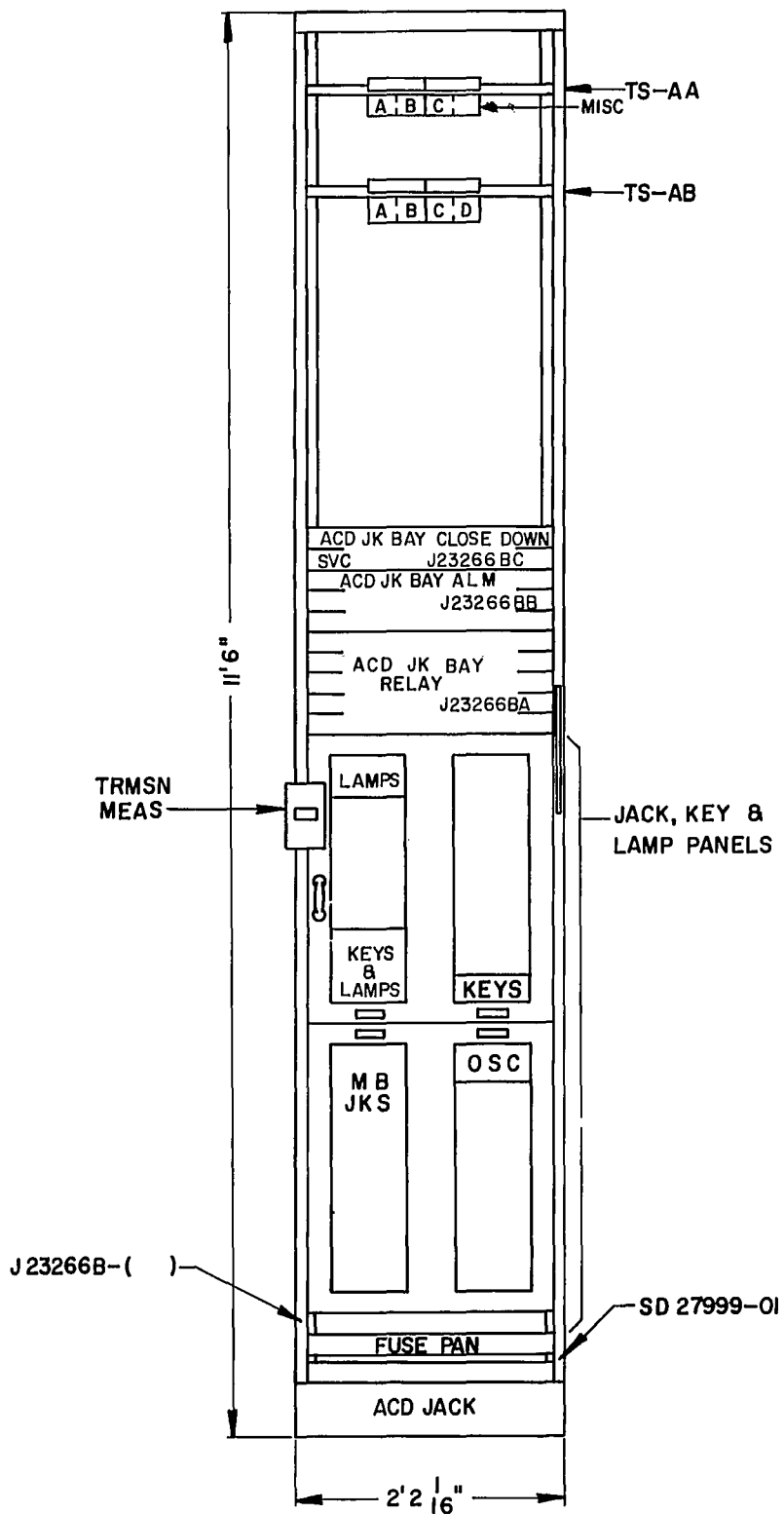


Fig. 2—Automatic Call Distribution Jack Bay

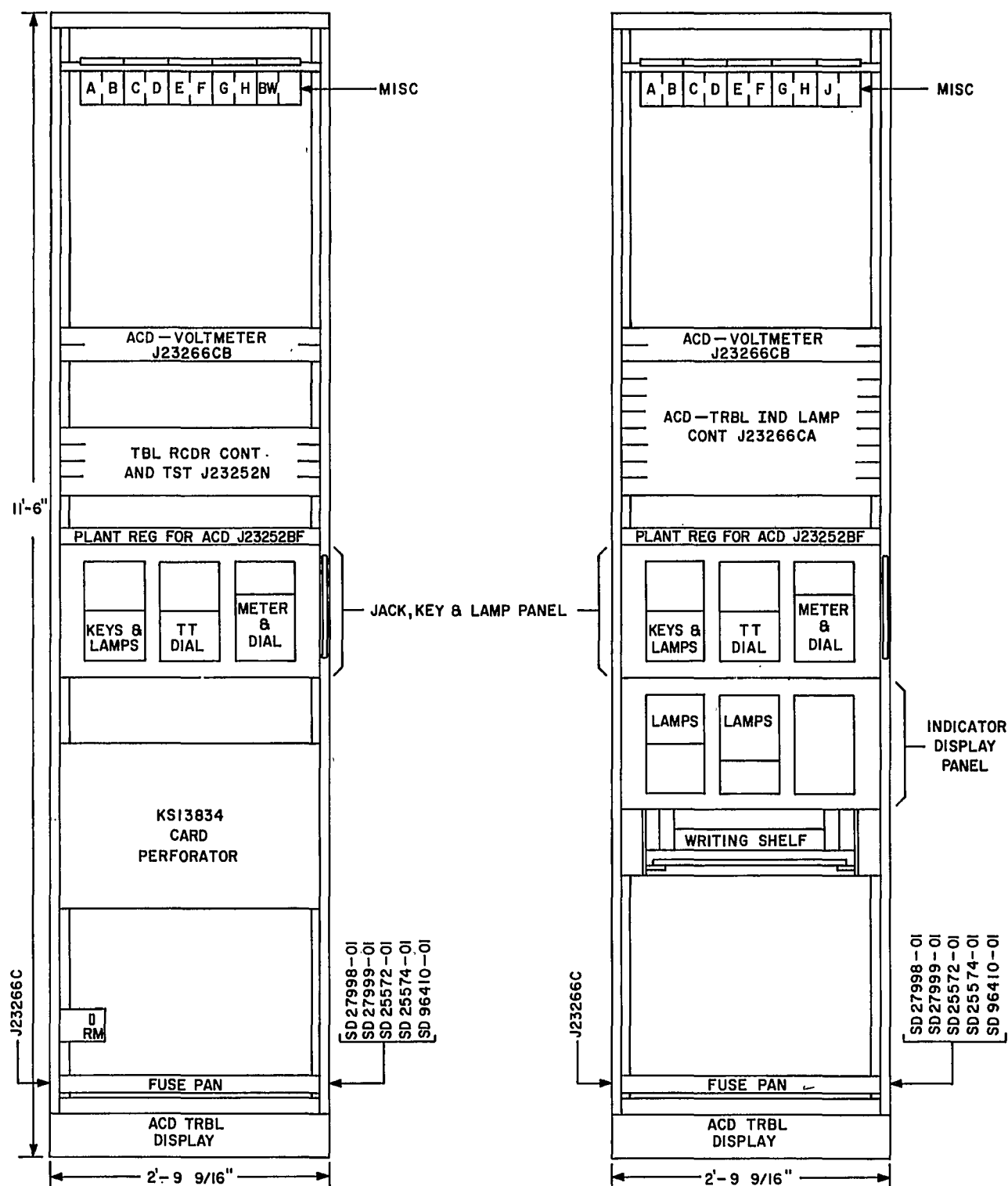


Fig. 3A—Automatic Call Distribution Trouble Display Frame E/W Card Perforator

Fig. 3B—Automatic Call Distribution Trouble Display Frame E/W Lamp Display Panel

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