

EMERGENCY ANNOUNCEMENT SYSTEM

EQUIPMENT DESIGN REQUIREMENTS

COMMON 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 emergency announcement system.

1.02 This specification is reissued to incorporate previous appendix changes.

CAPACITY

1.03 The maximum number of building systems controlled from one control center is three. Equipment arrangements for a practical maximum of 42 buildings have been provided. Each outlying building of a system is capable of placing an emergency announcement on 120 office terminations.

DESCRIPTION

1.04 The emergency announcement system is designed to give a brief announcement to customers when they dial information, DSA, or toll operators or some other service which has been temporarily discontinued due to an emergency such as an overload condition, work stoppage, or a cable failure. Normally, the announcement is provided to a system of buildings automatically from a KS-16765 L2 announcement set on which the announcement has been recorded. The building system may be switched to live announcements and the announcement given by an attendant if no set is available or the set being used should become disabled. It may be necessary to provide a different announcement for different types of service and the equipment is arranged for a maximum of three building systems. The equipment arrangement at the outlying

buildings consists of relay-rack mounted line and amplifier equipment bridging an emergency announcement key and lamp in the operating room. Two equipment arrangements at the control center have been provided.

(a) *Multiple-system arrangement* consists of a control console and a building key and lamp case in the control area and relay-rack mounted equipment. A maximum of three relay-rack mounted KS-16765 L2 announcement sets may be associated with any one of a maximum of three systems of buildings.

(b) *Single-system arrangement* consists of a control case and a building key and lamp case in the control area and relay-rack mounted equipment. A single relay-rack mounted KS-16765 L2 announcement set is associated with this system of buildings.

1.05 *Multiple System Console:* A console equipped with pushbutton keys is provided to house the control room equipment for the multiple system arrangement. The console J95415J may be equipped for two or three systems. For recorded announcements, each building system is put into service by operating its RCDR ANN (recorder announcement) key. RCDR keys associate a building system with any one of the announcement sets. A mechanical lockout provided with the RCDR keys prevents associating two announcement sets with the same building system. A CHK (check) and DIC (dictate) key associated with each announcement set is provided for recording and checking recorded announcements. A voice failure in the building system lights the ALARM lamp and operates a buzzer which may be silenced by operating the common BUZZER RELEASE key. The building system may be switched to manual announcements by operating the LIVE ANN (live announcement) key. A CW (calls waiting) lamp is provided to indicate to the attendant that a

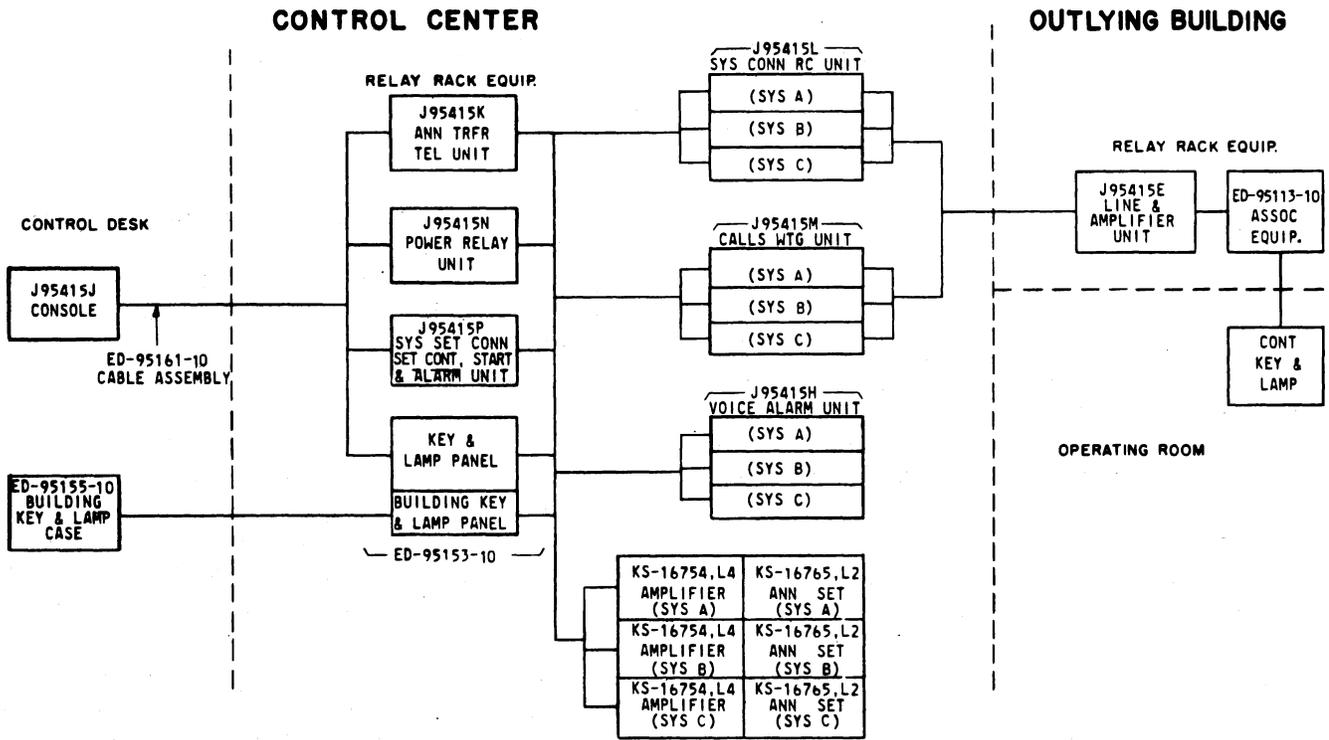


Fig. 1 — 3-System Connecting Diagram Emergency Announcement Equipment

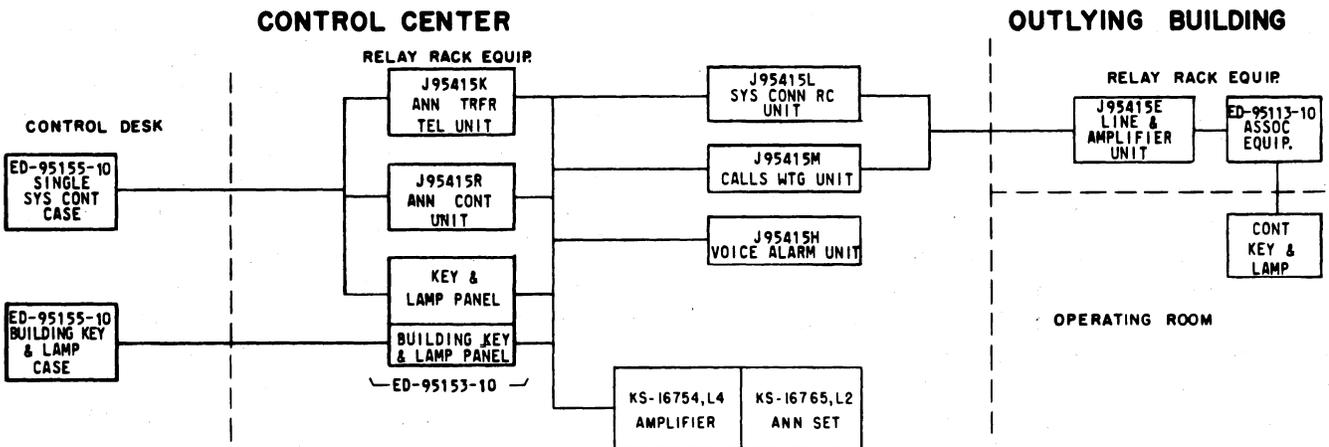


Fig. 2 — Single-System Connecting Diagram Emergency Announcement System

live announcement should be made. A set of TEL jacks is provided on the side of the console for recording and making live announcements.

1.06 Single-System Control Case: An apparatus case equipped with keys and lamps per ED-95155-10 houses the control room equip-

ment for the single-system arrangement. No RCDD keys are provided since only one announcement set is required. REC ANN LIVE ANN, BUZZER RELEASE, CHK and DIC keys and CW ALARM and DICTATE lamps, as described for the multiple system, are also provided. TEL jacks are also provided.

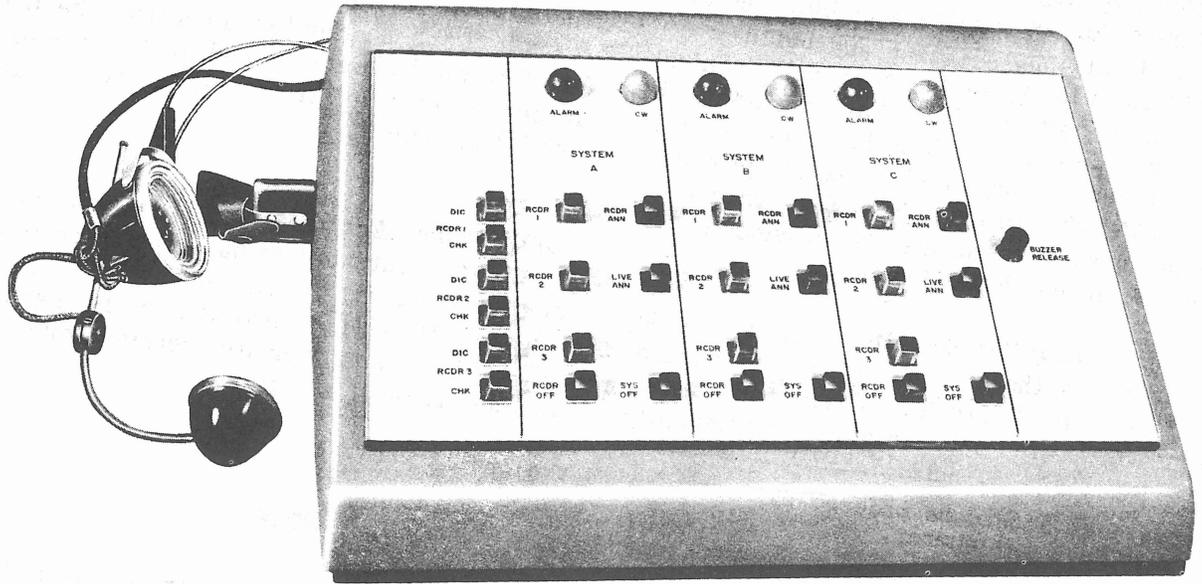


Fig. 3 — Multiple-System Console

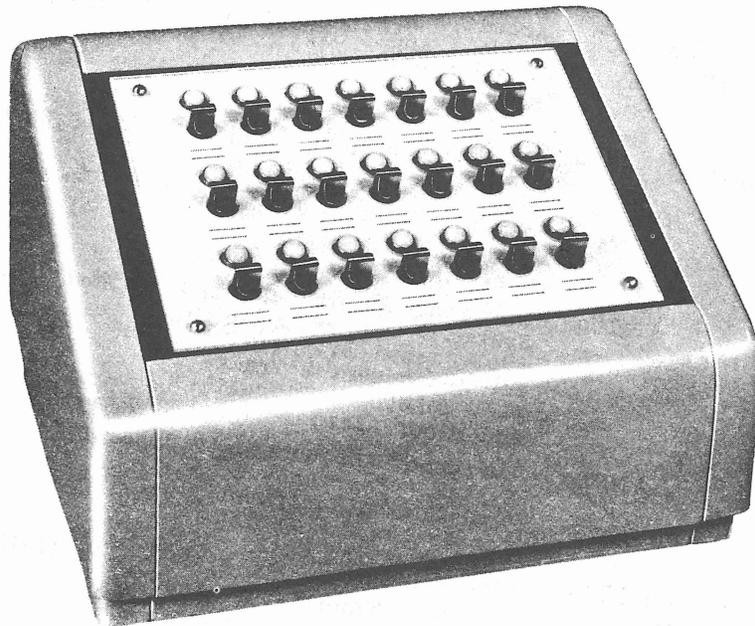


Fig. 4 — Building Key and Lamp Case

1.07 Building Keys and Lamps Case: Keys and lamps for associating any building in a system with an announcement are mounted per ED-95155-10 in an apparatus case in the control room. These keys and lamps are multiplied to relay-rack mounted building keys and lamps. The terminal room keys and lamps are provided per ED-95153-10. Multiples of certain other control room keys and lamps are also provided in the terminal room per ED-95153-10.

1.08 Connecting Trunks: In all of the trunks (such as those to the DSA switchboard, to the toll switchboard, or to some service-like repair) which are to be arranged permanently

for connection to the emergency announcement system, the announcement is supplied through the ringing tone capacitor. In addition, provision is made for connection to trunks from the distant or office multiple for use when it is desired to reroute a group of trunks to the system for a special announcement.

1.09 Power Equipment: Regular 24- and 48-volt central office battery is used to operate the emergency announcement system circuits. The KS-16765 L2 announcement sets and KS-16547 L1 amplifier are operated from a commercial 115-volt ac supply.

SUBDIVISIONS OF EQUIPMENT AND DETAILED INDEX

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

CIRCUIT DRAWING	EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CKT PER UNIT	2-INCH MTG PLT PER UNIT
SD-95387-01, Fig. 3, 5, 6, 7, 11, 12, 15, & 17	ED-95113-10		Typical Relay Rack — Associated Equipment — Outlying Equipment Office	ED-95113-10	1	6
SD-95387-01, Fig. 1, 4, 5, 16, & 17	J95415E	AT&TCO Std	Emergency Announcement System — Line and Amplifier Circuit	J95415E-()	1	6
SD-95388-01, Fig. 2, 9, 14, 16, 26, 28, 29, & 32	ED-95153-10		Miscellaneous Relay Rack Equipment for Emergency Control Circuit — Multiple System, Single System	ED-95153-10	1	5
SD-95388-01, Fig. 18, 27, 30, and P	ED-95155-10		Emergency Control Desk Equipment for Single System, Building Keys and Lamps	ED-95155-10	1	—
SD-95388-01, Fig. 21, 22, 25, and Q	J95415J	AT&TCO Std	Emergency Announcement System — Emergency Control Console — Multiple-System Arrangement	J95415J-()	1	—
SD-95388-01, Fig. 9, 14, 17, 31, & H	J95415K	AT&TCO Std	Emergency Announcement System — Emergency Control Common Equipment for Announcement Transfer, Telephone Circuit, and Minor Alarm	J95415K-()	1	6

CIRCUIT DRAWING	EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CKT PER UNIT	2-INCH MTG PLT PER UNIT
SD-95388-01, Fig. 6 & 7	J95415L	AT&TCo Std	Emergency Announcement System — Emergency Control Common Equipment for System Connecting and Repeating Coil Circuit for the Same Building System	J95415L-()	5	2
SD-95388-01, Fig. 8	J95415M	AT&TCo Std	Emergency Announcement System — Emergency Control Common Equipment for Calls-Waiting Circuit for the Same Building System	J95415M-()	10	1
SD-95388-01 Fig. 33	J95415N	AT&TCo Std	Emergency Announcement System — Emergency Control Unit — Multiple-System Arrangement — For Power Relay	J95415N-()	1	3
SD-95388-01, Fig. 19, 20, 23, and 24	J95415P	AT&TCo Std	Emergency Announcement System — Emergency Control Unit — Multiple-System Arrangement — For Connector, Announcement Circuit Control, Start and Alarm, and Telephone Transfer Circuits	J95415P-()	1	5
SD-95388-01, Fig. 26	J95415R	AT&TCo Std	Emergency Announcement System — Emergency Control Unit — Single-System Arrangement — For Announcement Control	J95415R-()	1	3
SD-95959-01, Fig. 1	J95415G	Mfr Disc.	Voice Alarm Unit for Announcement Systems	J95415G-()	1	3
SD-95959-01, Fig. 1	J95415H	AT&TCo Std	Voice Alarm Unit for Announcement Systems	J95415H-()	1	2

2. SUPPLEMENTARY INFORMATION

- 800-600-000 — List of General Equipment Requirement Sections
- 801-000-000 — Equipment Design and General Equipment Requirements and Engineering Information — Common Systems
- KS-5483, L24 — Relay
- KS-8207, L2 — Volume Unit Meter
- KS-16547, L1 — Amplifier
- KS-16754, L4 — Amplifier (See 5.02)
- KS-16765, L2 — Announcement Set Furnished With KS-16765, L5 Mounting Bracket (See 5.02)

3. DRAWINGS

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

CIRCUITS

- SD-95281-01 — KS-16754 Amplifier Circuit
- SD-95283-01 — Announcement Circuit Employing KS-16765, L2 Announcement Set
- SD-95387-01 — Line Circuit
- SD-95388-01 — Emergency Control Circuit
- SD-95959-01 — Voice Alarm Circuit

EQUIPMENT

- ED-91973-01 — Key and Lamp Equipment — Outlying Office
- ED-95162-01 — Typical Relay Rack Equipment Control Center

CABLING

- ED-95161-10 — Cable Assembly for Multiple System Arrangement

4. EQUIPMENT***ED-95113-10 — Typical Relay Rack — Associated Equipment — Outlying Equipment Office***

- Group 1** — Mounting plate per Fig. 2 for two emergency trunk circuits (group 2) and four auxiliary relays (group 3).
- Group 2** — Equipment per SD-95387-01, Fig. 5 required in addition to group 1 for second and third emergency trunk circuit.
- Group 3** — Equipment per SD-95387-01, Fig. 15 required in addition to group 1 for one auxiliary relay when key and lamp are located in a distant building.
- Group 4** — Mounting plate per Fig. 5 for 20 pad resistors (group 5 or 15).
- Group 5** — Equipment per SD-95387-01, Fig. 6, "N" option, required in addition to group 4 for one resistance pad circuit.
- Group 6** — Mounting plate per Fig. 3 for four calls-waiting relays (group 8) and ten auxiliary alarm relays (group 9).
- Group 7** — Mounting plate per Fig. 3 for four calls-waiting relays (group 8) and ten auxiliary alarm relays (group 10).
- Group 8** — Equipment per SD-95387-01, Fig. 11 required in addition to group 6 or 7 for one calls-waiting relay circuit.
- Group 9** — Equipment per SD-95387-01, Fig. 7 required in addition to group 6 for one auxiliary alarm relay circuit for use with existing night alarm circuit similar to SD-90464-01.
- Group 10** — Equipment per SD-95387-01, Fig. 12 required in addition to group 7 for one auxiliary alarm relay circuit for use with existing night alarm circuit similar to SD-55039-01.

Group 11 — Mounting plate per Fig. 4 for ten transfer relay circuits (group 12).

Group 12 — Equipment per SD-95387-01, Fig. 3 required in addition to group 11 for one transfer relay circuit.

Group 13 — Mounting plate per Fig. 6 for four emergency announcement key and lamp circuits (group 14).

Group 14 — Equipment per SD-95387-01, Fig. 17 required in addition to group 13 for one emergency announcement key and lamp circuit when located in a distant building.

Group 15 — A & M Only — Equipment per SD-95387-01, Fig. 6, "P" option, required in addition to group 4 for one resistance pad circuit.

Note

- A. The key and guard lamp per SD-95387-01, Fig. 13 and 14 shall be located in a cable turning section or on the side of a commercial desk as specified by the telephone company. (See ED-91973-01.)

ED-95153-10 — Miscellaneous Relay Rack Equipment for Emergency Control Circuit — Multiple System, Single System

- Group 1** — Framework, assembly, and equipment for one key and lamp panel for three systems equipped for two systems per SD-95388-01, Fig. 9, 16, 28, 29, and 32.
- Group 2** — Equipment required in addition to group 1 for an additional system per SD-95388-01, Fig. 28, 29, and 32.
- Group 3** — Framework, assembly, and equipment for one key and lamp panel for single-system arrangement per SD-95388-01, Fig. 9, 16, 26, 28, and 29.
- Group 4** — Key and lamp mountings equipped for 21 building key and lamp circuits per SD-95388-01, Fig. 2.
- Group 5** — Equipment required in addition to group 1 or 3 for minor alarm circuit for one system per SD-95388-01, Fig. 14.

ED-95155-10 — Emergency Control Desk Equipment for Single System, Building Keys and Lamps

Group 1 — One 707A apparatus case with a light beige enamel finish.

Group 2 — One 701C and 702C apparatus case (end sections) with a light beige enamel finish.

Group 3 — One mounting panel equipped for single-system arrangement per SD-95388-01, Fig. 27, 30, and P.

Group 4 — One mounting panel equipped for building keys and guard lamps for 21 key and lamp circuits per SD-95388-01, Fig. 18.

J95415H — AT&TCo Std — Voice Alarm Unit for Announcement Systems — Surface Wired

Equipment — J95415H-()

List 1 — Assembly, wiring, and equipment per SD-95959-01, Fig. 1 for one voice alarm unit.

J95415J — AT&TCo Std — Emergency Announcement System — Emergency Control Console — Multiple-System Arrangement — Local Cable

Equipment — J95415J-()

List 1 — Framework, assembly, equipment, and wiring for control keys and lamps for three systems and equipped for two systems.

SD-95388-01,

Fig. 21, 22, 25, and Q

WIRE EQUIP NOTES

3 2

List 2 — Equipment required in addition to list 1 for keys and lamps for one additional system per SD-95388-01, Fig. 21 and 25.

J95415L — AT&TCo Std — Emergency Announcement System — Emergency Control Common Equipment for System Connecting and Repeating Coil Circuit for the Same Building System — Surface Wired

Equipment — J59415L-()

List 1 — Framework, assembly, equipment, and wiring for one system connecting circuit per SD-95388-01, Fig. 6 for the same building system and for one 5-circuit repeating coil unit per SD-95388-01, Fig. 7 with one circuit equipped for the same building system.

List 2 — Wiring and equipment for one additional repeating coil circuit per SD-95388-01, Fig. 7.

J95415M — AT&TCo Std — Emergency Announcement System — Emergency Control Common Equipment for Calls-Waiting Circuit for the Same Building System — Surface Wired

Equipment — J95415M-()

List 1 — Framework, assembly, equipment, and wiring for one 10-circuit calls-waiting unit for the same building system per SD-95388-01, Fig. 8 with one circuit equipped.

List 2 — Equipment and wiring for one additional calls-waiting circuit per SD-95388-01, Fig. 8 (one per building required).

J95415N — AT&TCo Std — Emergency Announcement System — Emergency Control Unit — Multiple-System Arrangement — For Power Relay — Surface Wired

Equipment — J95415N-()

List 1 — Framework, assembly, equipment, and wiring arranged for power relay per SD-95388-01, Fig. 33 for three systems and equipped for two systems.

List 2 — Wiring and equipment for one additional power relay for an additional system per SD-95388-01, Fig. 33.

J95415P — AT&TCo Std — Emergency Announcement System — Emergency Control Unit — Multiple-System Arrangement — For Connector, Announcement Circuit Control, Start and Alarm, and Telephone Transfer Circuits — Surface Wired

Equipment — J95415P-()

List 1 — Framework, assembly, equipment, and wiring for one telephone transfer circuit per SD-95388-01, Fig. 24 and arranged for connector, announcement control, and start and alarm circuits for three systems and equipped for two systems per SD-95388-01, Fig. 19, 20, and 23.

List 2 — Wiring and equipment for connector, announcement circuit control, start and alarm circuits for an additional system per SD-95388-01, Fig. 19, 20, and 23.

J95415R — AT&T Co Std — Emergency Announcement System — Emergency Control Unit — Single-System Arrangement — For Announcement Control — Surface Wired

Equipment — J95415R-()

List 1 — Framework, assembly, equipment, and wiring for one announcement control circuit per SD-95388-01, Fig. 26.

J95415S — AT&T Co Std — Emergency Announcement System — Line and Amplifier Circuit — Surface Wired

Equipment — J95415S-()

List 1 — Framework, assembly, wiring, and equipment per SD-95387-01, Fig. 1, and SD-99360-01, Fig. 1 and 2, for one emergency announcement system line and amplifier unit.

List 2 — Wiring and equipment per SD-95387-01, Fig. 16, required in addition to list 1 to provide for emergency announcement on combined line and routing and zero operator trunks.

List 3 — Wiring and equipment per SD-95387-01, Fig. 4 and 5, required in addition to list 1 to provide emergency trunk circuit for first 20 terminations.

List 4 — Wiring and equipment per SD-95387-01, Fig. 17, required in addition to list 1 for one emergency announcement key and lamp.

J95415T — AT&T Co Std — Emergency Announcement System — Emergency Control Common Equipment for Announcement Transfer, Telephone Circuit, and Minor Alarm — Surface Wired

Equipment — J95415T-()

List 1 — Framework, assembly, equipment, and wiring for one telephone circuit per SD-95388-01, Fig. 17; one repeating coil per SD-95388-01, Fig. 9; and one amplifier circuit per SD-99360-01, Fig. 1 and 2, and arranged for announcement transfer per SD-95388-01, Fig. 31, for three systems and equipped for one system. (See Note A.)

List 2 — Wiring and equipment required in addition to list 1 for one additional announcement transfer circuit per SD-95388-01, Fig. 31.

List 3 — Wiring and equipment required in addition to list 1 for minor alarm relay per SD-95388-01, Fig. 14, for crossbar or step-by-step offices, for one system. (See Note B.)

Notes

A. The KS-8207, L2 VU meter per SD-95388-01, Fig. 9, shall be mounted as shown on ED-95153-10.

B. The MIN and GD lamps per SD-95388-01, Fig. 14, shall be mounted as shown on ED-95153-10.

MISCELLANEOUS EQUIPMENT

4.01 A KS-16765 L2 announcement set and a KS-16765 L4 amplifier are required for each system of buildings. The KS-16765 L2 announcement set shall be mounted as shown on ED-95162-01. A KS-16765 L5 mounting bracket is furnished to adapt the set to 23-inch relay rack mounting. The associated KS-16754 L4 amplifier shall be mounted on the KS-16765 L5 mounting bracket.

5. GENERAL NOTES

5.01 A commercial-type desk, specified by the telephone company, shall be used to mount the console and building key and lamp case or the control case or building key and lamp case. It is recommended that the desk be placed in a quiet area in order that noise may not be introduced into recorded or manual announcements.

5.02 The local cable in the console shall be No. 24 gauge type "BW" wire. Loose wiring shall be No. 24 gauge type "BU" wire. Switchboard cable shall be No. 24 gauge type "A" wire. Common battery and ground shall be No. 20 gauge type "AM" or "BH" wire.

LIST OF A&M ONLY AND MFR DISC. EQUIPMENT

EQUIPMENT	RATING	DETAILS LAST SHOWN IN ISSUE	REPLACING EQUIPMENT
J95415A	Mfr Disc.	1	—
J95415B	Mfr Disc.	1	J95415E
J95415C	Mfr Disc.	1	J95415F
J95415D	Mfr Disc.	1	J95415L
J95415E	Mfr Disc.	2	J95415S
J95415F	Mfr Disc.	1	J95415K
J95415G	Mfr Disc.	2	J95415H
J95415K	Mfr Disc.	2	J95415T

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.

Bell Telephone Laboratories, Incorporated

Dept 2361