

**REPEATERS, PULSE CORRECTING REPEATERS
AND INCOMING TRUNKS
RELAY RACK UNITS
EQUIPMENT DESIGN REQUIREMENTS
STEP-BY-STEP SYSTEMS**

1. GENERAL

1.001 This addendum supplements Section 814-540-150, Issue 5.

1.002 This addendum is issued to:

(a) Change J33019L, Lists 1, 2, 6, 8, 9, and 10, and Notes B, C, and D and add list 11 and Note E. These changes agree with Issue 15D of SD-31726-01.

(b) Rate SD-32184-01 and J33019P Mfr Disc. replaced by SD-32184-02 and J33019S,

respectively, rated AT&TCo Std. This change agrees with SD-32184-02, Issue 1.

(c) Rate SD-32087-01 and J33019K Mfr Disc. replaced by SD-32087-02 and J33019T, respectively, rated AT&TCo Std. This change agrees with SD-32087-02, Issue 1.

The following changes apply to Part 1 of this section:

Under Subdivisions of Equipment and Detailed Index

Remove:

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING
J33019P	AT&TCo Std	Incoming or Outgoing Pulse Correcting Repeater Units	J33019P-()	SD-32184-01
J33019K	AT&TCo Std	Outgoing Repeater Unit — Battery and Ground Pulsing, Long Range Reverse Battery Supervision — Type B TB Supply	J33019K-()	SD-32087-01

Add:

EQUIPMENT CODE	RATING OF UNIT	TITLE	EQUIPMENT DRAWING	CIRCUIT DRAWING
J33019S	AT&TCo Std	Incoming or Outgoing Pulse Correction Repeater Unit	J33019S-()	SD-32184-02
J33019T	AT&TCo Std	Outgoing Repeater Unit — Battery and Ground Pulsing — Long Range Reverse Battery Supervision — Type B TB Supply	J33019T-()	SD-32087-02

Under Circuit Schematic Index

Remove:

CIRCUIT DRAWING	J33019 EQPT CODE
SD-32184-01	P
SD-32087-01	K

Add:

CIRCUIT DRAWING	J33019 EQPT CODE
SD-32184-02	S
SD-32087-02	T

2. SUPPLEMENTARY INFORMATION

The following change applies to Part 2 of this section:

Add:

- Current Drain Data—
 SD-31359-02—No. 1 Office
 SD-31364-02—No. 350A Office
 SD-31780-02—No. 355A Office

4. EQUIPMENT

The following changes apply to Part 4 of the section:

♦**Rate:** J33019K Mfr Disc.♦

Under J33019L

Change: List 1

To Read:

List 1—Framework, assembly, wiring, and equipment for one incoming trunk unit arranged for pulse correction, per SD-31726-01, Fig. 1 and B, with E, G, H, M, T, ZB, ZJ, ZL, and ZM options. (No. of Mtg Plts 2—No. of Ckts 1)

Change: List 2

To Read:

List 2—Framework, assembly, wiring, and equipment for one incoming trunk unit not arranged for pulse correction, per SD-31726-01, Fig. 1 and A, with H, T, ZB, ZJ, and ZL options. (No. of Mtg Plts 2—No. of Ckts 1)

Change: List 6

To Read:

List 6—Wiring and equipment per SD-31726-01, D option, required in addition to list 1 or 2 when carrier or voice-frequency repeaters other than E type are used. (See Note C.)

Change: List 8

To Read:

List 8—Wiring and equipment per SD-31726-01, Fig. H with W and S options, required in addition to list 1 and 2 when pulsing from senders only and busy flash signal to operator or supervision from free service lines over local train is required. (See Note D.)

Change: List 9

To Read:

List 9—Wiring and equipment per SD-31726-01, Fig. H with R option, required in addition to list 1 or 2 when pulsing from dials or both dials and senders, and busy flash signal to operator or supervision from free service lines over local train is required.

Change: List 10

To Read:

List 10—Equipment per SD-31726-01, ZG and ZH options, required in addition to list 8 when this unit is associated with No. 4 toll or No. 5 crossbar office requiring timed off-hook signal on seizure.

Add: List 11

List 11—Wiring and equipment per SD-31726-01, Fig. H with W, ZG, and ZH options, required in addition to list 1 or 2 when this unit is associated with a No. 4 toll or No. 5 crossbar office requiring timed off-hook signal on seizure, with pulsing from senders only on A-B toll trains or on local trains not arranged to return busy flash signal to the operator.

Change: Note B

To Read:

- B. Furnish ZD option in addition to list 1 or 2 for trunks to step-by-step, panel, call indicator, No. 1 crossbar connected to subscriber sender through incoming repeater, or No. 5 crossbar with bylink. Otherwise, furnish ZC option.

Change: Note C

To Read:

- C. When list 6 is furnished, provide B and C options when office impedance at 1000 Hz is less than 785 ohms, B option when it is 785 to 1265 ohms, and C option when it is over 1265 ohms.

Change: Note D

To Read:

- D. Furnish Fig. C and W option in addition to list 1 or 2 when list 11 is not required, and pulsing from senders only is required on A-B toll trains or on local trains not arranged for busy flash signal to the operator.

Add: Note E

- E. Provide V installer strapping at unit terminal strip per list 1 or 2 when calls are completed to another office without an outgoing repeater or trunk circuit through an outgoing selector or ROT selector.

Rate: J33019P Mfr Disc.

Add:

J33019S—AT&T Co Std—Incoming or Outgoing Pulse Correction Repeater Unit

Equipment—J33019S-()

List 1—Framework, assembly, wiring, and equipment for one outgoing pulse correcting repeater unit when pulsing over a subscriber loop of 0 to 1500 ohms, a trunk loop of 0 to 1200 ohms, or a battery and ground loop of 0 to 2000 ohms per SD-32184-02, Fig. 1 and 3 with Y option. (See Notes A and C.) (No. of Mtg Plts 1—No. of Ckts 1)

List 2—Framework, assembly, wiring, and equipment for one incoming pulse correcting repeater unit for an incoming loop of 0 to 5000 ohms or for an outgoing pulse correcting repeater unit when the input is from other than a selector multiple or ROTS per SD-32184-02, Fig. 1 and 2 with Z option. (See Notes B and C.) (No. of Mtg Plts 1—No. of Ckts 1)

List 3—Wiring and equipment required in addition to list 1 when circuit is used as an outgoing repeater in a 35-E-97 office per SD-32184-02, R option.

Notes

- A. Provide T wiring in addition to list 1 when connection to selector bank multiple circuit is required for trunks not connected through outgoing repeater.
- B. Provide X wiring in addition to list 2 when succeeding switch must be held busy by means of a ground supplied forward on the sleeve lead.
- C. The straps across the X1, X2, X3, X4, Y1, Y2, Y3, and Y4 resistors shall be added by the installer on CA3 and CA4, respectively, per individual job requirements.

Add:

J33019T—AT&T Co Std—Outgoing Repeater Unit—With Battery and Ground Pulsing—Long Range Reverse Battery Supervision—Type B TB Supply

Equipment—J33019T-()

List 1—Framework, assembly, wiring, and equipment for one outgoing repeater per SD-32087-02, Fig. 1, and X option. (See Note A.)

List 2—Equipment required in addition to list 1 when trunk impedance at 1000 Hz is greater than 1100 ohms per SD-32087-02, W option, omit X option. (See Note A.)

Note

A. The cross-connect straps for options Y and Z shall be added by the installer on CA2 per individual job requirements. †

5. GENERAL NOTES

The following change applies to Part 5 of the section:

Under List of A&M Only and Mfr Disc. Equipment

Add:

EQUIPMENT	RATING	DETAILS	
		LAST SHOWN IN ISSUE	REPLACING EQUIPMENT
† J33019K	Mfr Disc.	5	J33019T
J33019P	Mfr Disc.	5	J33019S †

Bell Telephone Laboratories, Incorporated

Dept 5245