

RECORDER FRAMES
AUTOMATIC MESSAGE ACCOUNTING
EQUIPMENT DESIGN REQUIREMENTS
NO. 1, NO. 5, AND TANDEM CROSSBAR,
NO. 4 TYPE TOLL SWITCHING, AND STEP-BY-STEP SYSTEMS

1. GENERAL

1.001 This addendum supplements Section 814-115-151, 816-108-150, 817-120-150, 818-108-150, 819-114-150, Issue 12.

1.002 This addendum is issued:

- (a) To arrange recorder frames and units for 1-second timing accuracy per SD-25872-01, Issue 50B.
- (b) To arrange recorder unit J22462H, required for crossbar tandem and No. 4 toll, for operation with a minicomputer replacing the AMA perforators per SD-25872-01, Issue 51B.
- (c) To cover miscellaneous changes omitted from previous issues of specifications.

4. EQUIPMENT

The following changes apply to Part 4 of the section:

- (a) J22462C, List 8—added.
- (b) J22462D, List 10, 11, and Notes J and K—added.
- (c) J22462F, List 12, 13, 14, and 15—revised.
- (d) J22462F, List 16 through 20—added.
- (e) J22462G, List 9—added.

- (f) J22462H, List 23, 24, and 25 and Notes L and M—added.
- (g) J22462J, List 5 and 6—rerated.
- (h) J22462J, Notes A, B, C, and D—revised.
- (i) J22462K, List 1, 2, 3, and 5, and Notes B, C, D, and G—revised.
- (j) J22462K, List 7 and 8 and Note H—added.

Under J22462C

Add:

List 8—Wiring and equipment per SD-25872-01, Fig. 1, TM capacitors only required in addition to list 3 when 1-second timing accuracy is required.

Under J22462D

Add:

List 10—Wiring and equipment per SD-25872-01, Fig. 29, required in addition to list 1 to provide for 1-second timing accuracy. (See Notes J, K, and 5.04.)

List 11—Wiring and equipment per SD-25872-01, VA option, required in addition to list 10 for the first, sixth, eleventh, and sixteenth regular recorders only.

Under Notes**Add:**

J. Transition equipment per SD-94834-01 must be provided during conversion from 6-second to 1-second timing accuracy. The recommended mounting location for this single plate of apparatus is at the top of the recorder frame closest to the master timing frame.

K. The TM capacitors per SD-25872-01, Fig. 1, must be relocated from the recorder unit to the recorder frame when list 10 is added.

Under J22462F

Change: Lists 12, 13, 14, and 15

To Read:

List 12—Apparatus and wiring per SD-25872-01, Fig. 23, required in addition to list 1 and 2 to arrange one regular recorder to serve CAMA trunks.

List 13—Apparatus and wiring per SD-25872-01, Fig. 14, less options required in addition to lists 1 and 3 to arrange the emergency recorder unit for CAMA only or CAMA and LAMA.

List 14—Apparatus and wiring per SD-25872-01, Fig. 13, option WK only required in addition to list 16 to arrange a regular recorder to provide recorder group hundreds information in offices where the recorder groups are not in the same hundreds. (See Note T.)

List 15—Apparatus and wiring per SD-25872-01, Fig. 14, option WL only, required in addition to list 13, or 17 to arrange an emergency recorder to provide recorder group hundreds information in offices where the recorder groups are not in the same hundreds. (See Note T.)

Add:

List 16—Apparatus and wiring per SD-25872-01, Fig. 13, less options, required for each regular recorder in a combined LAMA and CAMA office, or CAMA or CAMA-ANI office or when more than one recorder group is required in a LAMA office without CAMA.

List 17—Apparatus and wiring per SD-25872-01, Fig. 14, less options, required in addition to list 3 for one emergency recorder when more than one recorder group number is required in a LAMA office without CAMA.

List 18—Apparatus and wiring per SD-25872-01, Fig. 1, WX option only required in addition to list 1 when AMA trunk transfer is provided with partial charge guard entries for transfer.

List 19—Apparatus and wiring per SD-25872-01, Fig. 29, less VA option required in addition to list 1 to arrange recorder for 1-second timing accuracy. (See List 20 and Note 5.04.)

List 20—Apparatus per SD-25872-01, VA option only, required in addition to list 19 to provide contact protection on recorders No. 00, 05, 10, 15, 20, 25 only.

Under J22462G**Add:**

List 9—Equipment per SD-25872-01, Fig. 1, TM capacitors only, required in addition to list 1 for each recorder equipped on frame that is arranged for 1-second timing accuracy.

Under J22462H**Add:**

List 23—Equipment per SD-25872-01, VE option only, required in addition to list 1 when AMA is controlled by minicomputer application.

List 24—Apparatus and wiring per SD-25872-01, Fig. 29, less VA option, required in addition to list 1 to arrange recorder for 1-second timing accuracy. (See Notes L, M, and 5.04.)

List 25—Apparatus per SD-25872-01, Fig. 29, VA option only, required in addition to list 24 to provide contact protection on recorders No. 00, 05, 10, and 15 only.

Under Notes**Add:**

L. Transition equipment per SD-94834-01, must be provided during conversion from 6-second to 1-second timing accuracy. The recommended

mounting location for this one-plate unit is at the top of the recorder frame nearest the master timing frame.

- M. When recorder is arranged for 1-second timing accuracy, TM capacitors of SD-25872-01, Fig. 1, are provided under recorder frame J22462G, List 9.

Under J22462J

Rate: List 5 and 6 Mfr Disc.

Under Notes

Change: A, B, C, and D

To Read:

- A. List 1 includes only that wiring for the frame miscellaneous circuit and four recorders which includes universal wiring for Fig. 3 and 9. The lamp wiring per Fig. 9, however, is furnished for only the uppermost recorder position on the frame. The master timer multiple contains two separate multiples, one for the first and third recorders and another for the second and fourth recorders, permitting interframe cables to be connected in such manner as to associate even recorders with one master timing circuit and odd recorders including the emergency recorder, with the other master timing circuit.
- B. Vertical multiple local cables interconnect terminal strips at the top of the frame with terminal strips or multicontact relays on the recorder units. As the units are mounted on the frame from the rear, the future use of unequipped recorder spaces requires that such spaces be at the bottom of the frame. Recorder units are therefore equipped in top-down order.
- C. The vertical multiple wiring shown on the local cable drawing for transverter 5 may be combined in the same form with transverter 2 when furnished concurrently.
- D. When the third recorder unit from the top is not equipped it is necessary to furnish a mounting bar to support the lamp panels which are normally fastened to the top of the third recorder.

Under J22462K

Change: List 1, 2, 3, and 5

To Read:

List 1—Framework, assembly, wiring, and common equipment for one recorder unit arranged for six transverters. (See Notes A and E.)

	WIRE	EQUIP	NOTES
Rcdr and Rcdr Conn Ckt SD-25872-01:			
Rcdr Ckt, Fig. 1 and M with WD, WH, WN, WO, WQ, WS, WY, WZ, XB, XE, XI, XK, XO, XT, XU, XV, XX, YJ, YM, YO, ZG, ZM, ZP, ZR, ZV, G, and S			
Options Less AT SW and MTRA, HR, and NP Lamps and WP, XH, XR, N, X, and Y Options	1	1	B,H
Transfer and Make-Busy Ckt, Fig. 3 and R with ZW, Q, T, and Z Options, Less MTR & XRB Lamps	1	0	B,G
Transverter Conn Ckt, Fig. 4 with YD & YT Options	6	0	C,D
Tbl Rcdr & Master Tmg Conn Ckt, Fig. 5 with YF, YO, & V Option	1	1	
Master Tmg Pref Rel, Fig. 6, with YO Option	1	1	
Hour Record Pref Rel, Fig. 7	1	1	
Trunk Pref Rel, Fig. 8	1	1	
Make-Busy Ckt, Fig. 9 with ZW Option Less MTR, XRB, & EW Lamps	1	0	
Trunk Test Rel, Fig. 11 with WJ Option	1	0	
Transverter Blocking Rel, Fig. 12	1	0	
Trunk No. Ident Rel Fig. 20 with YO Option	1	1	
Transfer Relay, Fig. 21	1	0	
First Transverter Pref Rel, Fig. A	1	0	
Int Transverter Pref Rel, Fig. B	4	0	

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	WIRE	EQUIP	NOTES
Last Transverter Pref Rel, Fig. C	1	0	
Tmg Ckt, Fig. J, with YX Option	1	1	
Irregular Hour Entries Ckt, Fig. G	1	1	
Reserve Index Pref Ckt, Fig. I with WD Options	1	1	
Recorder Pref Ckt Fig. 27 with YO Options	1	1	
1-Second Timing Fig. 29	1	0	

C. Provide Q option on last regular recorder.

D. Provide T option on first regular recorder.

G. Wiring per SD-25872-01, Fig. 1, XH and XR options only, required in addition to list 1 and 2 when a trunk transfer circuit is provided.

Add:

H. When list 7 for 1-second timing is required omit WZ option.

5. GENERAL NOTES

The following changes apply to Part 5 of the section:

(a) 5.04—added

(b) List of A&M Only and Mfr Disc.—revised.

Add:

5.04 During the transition period of converting recorders from 6-second to 1-second timing accuracy the master timing auxiliary circuit per SD-94834-01, is required. In No. 5 crossbar the equipment for this circuit is located on the master timing frame. In crossbar No. 1 tandem, No. 4 toll, and step-by-step offices, the auxiliary equipment is mounted at the top of the recorder frame nearest the master timing frame. This equipment must be kept in service until all recorders have been modified to 1-second timing. At this point it may be removed.

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

List 2—Apparatus per SD-25872-01, Fig. 3, 11, 21, and R with WA, WJ, YB, ZW, Y, and Z options less MTR and XRB lamps required in addition to list 1 to arrange one recorder unit for use as a regular recorder.

List 3—Apparatus per SD-25872-01, Fig. 9, with ZW, N, and X options less MTR, XRB, and EW lamps required in addition to list 1 to arrange one recorder unit for use as an emergency recorder.

List 5—Apparatus per SD-25872-01, Fig. 4, and A, B, or C with YD and YT options required in addition to list 1 for each transverter with which a recorder is to operate.

Add:

List 7—Wiring and equipment per SD-25872-01, Fig. 29, required in addition to list 1 to arrange one recorder for 1-second timing. (See Note H and 5.04.)

List 8—Equipment per SD-25872-01, VA option, required in addition to list 7 for the first and sixth recorder.

Under Notes

Change: B, C, D, and G

To Read:

B. When trouble record of those recorders that are out of synchronism is required omit WO option and add WP option.

EQUIPMENT	RATING	DETAILS	REPLACING EQUIPMENT
		LAST SHOWN IN ISSUE	
J22462J, L5	Mfr Disc.	12	—
J22462J, L6	Mfr Disc.	12	—

Bell Telephone Laboratories, Incorporated

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