

**MASTER TIMING FRAME
AUTOMATIC MESSAGE ACCOUNTING
PAPER AND MAGNETIC TAPE RECORDING
EQUIPMENT DESIGN REQUIREMENTS
NO. 1, NO. 5 AND CROSSBAR TANDEM
NO. 4 TYPE TOLL SWITCHING, AND STEP-BY-STEP SYSTEMS**

1. GENERAL

SCOPE

1.001 This addendum supplements Section 814-117-151, 816-106-150, 817-105-150, 818-112-150, and 819-120-150.

1.002 This addendum is issued:

- (a) To change J22451C, J22451D, and J22451E to arrange the master timing frames for 1-second timing accuracy per SD-25633-01, Issue 43B.
- (b) To add information for the Step-by-Step No. 1 System for testing the DTK relay per SD-25633-01, Issue 38B.
- (c) To arrange J22451C for more than 20 AMA recorders per SD-25633-01, Issue 39D.
- (d) For miscellaneous corrections.

(d) J22451C, List 13 and Note F—added.

(e) J22451D, List 1—revised.

(f) J22451D, List 22, 23, and Notes G and H—added.

(g) J22451D, Lists 20 and 21—revised.

(h) J22451E, Lists 6 and 7—added.

(i) J22451E, List 1—revised.

(j) J22451E, List 7—revised.

(k) J22451E, List 8 and Note D—added.

Under J22451C

Under List 1

Change:

4. EQUIPMENT

The following changes apply to Part 4 of this section:

- (a) J22451C, List 1—revised.
- (b) J22451C, List 14 and Note G—added.
- (c) J22451C, Lists 10, 11, and 12—revised.

Master Timing Ckt,
SD-25633-01: Fig. 3,
18, 19, 20, 21, 22, 23,
& 26, ZO & SP Opts
Fig. 1, 2, 7 & 9, XH
Opt
Fig. 4, 8, 17, & 24,
V, Z, ZF, ZK, ZN,
XE, & XG Opts

WIRE EQUIP NOTES

1 1

1 1

2 2

To Read:

when office is arranged for 1-second timing accuracy. (See Note G and 5.08.)

WIRE EQUIP NOTES

Under Notes

- ♦ Master Timing Circuit,
SD-25633-01: Fig. 3,
18, 19, 20, 21, 22, 23,
& 26, ZO, WY, & ZP
Opts

1	1	G
1	1	G
2	2	G ♦

Add:

F. When an office is equipped with more than 20 perforators, lamps, and diodes per WS option in Fig. 30 of SD-25633-01 shall be furnished.

♦G. When 1-second timing accuracy is required WY option shall be removed.

Under J22451D**Under List 1****Change:**

Change: Lists 10, 11, and 12

To Read:

List 10—Wiring and equipment per SD-25633-01, Fig. 30 and WG option required in addition to list 1 for paper take-up alarm in AMA perforator cabinets. (See Notes E and F.)

List 11—Wiring and equipment per SD-25633-01, Fig. 31, less WR options, required in addition to list 1, to confine mutilated hour entries to those recorders that are out of synchronism and the hour time is required for trouble records. (For offices with recorders EM, 0-10.)

List 12—Wiring and equipment per SD-25633-01, Fig. 31, WR option only, required in addition to list 11, to confine mutilated hour entries to those recorders that are out of synchronism and the hour time is required for trouble records. (For offices with recorders 11-19.)

Add:

List 13—Wiring and equipment per SD-25633-01, Fig. 31, WT option only, required in addition to list 12 to confine mutilated hour entries to those recorders that are out of synchronism. (For offices with recorders 20-29.)

List 14—♦Wiring and equipment per SD-25633-01, Fig. 1, 2, 3, 19, 23 and two Fig. 4, WZ option only, required in addition to list 1

WIRE EQUIP NOTES

Master Timing Ckt,
SD-25633-01: Fig. 3,
18, 19, 20, 21, 22,
& 26
Fig. 1, Less XZ Opt
Fig. 2, 7, 9 & XH Opt
Fig. 4, Less XS, XW,
& XX Opt

1	1	
1	1	

To Read:

WIRE EQUIP NOTES

♦ Master Timing Ckt,
SD-25633-01: Fig. 3,
18, 19, 20, 21, 22,
& 26 & WY Opt
Fig. 1, Less XZ Opt
Fig. 2, 7, 9 & XH &
WY Opt
Fig. 4, WY Opt Less
XS, XW, & XX Opt,
Fig. 8, 17, & 25 With
Z, XE, XG, XV, and
ZK Opt

1	1	G
1	1	G
2	2	G

J22451, ISS 11; ADD. ISS 2
ISS 2, ADDENDUM 814-117-151, 816-106-150, 817-105-150, 818-112-150, 819-120-150

Under SD-25630-01

	WIRE	EQUIP	NOTES
Delete: Fig. 23	1	0	

Under SD-25633-01

	WIRE	EQUIP	NOTES
Add: Fig. 23	1	0	♦

Change: Lists 20 and 21

To Read:

List 20—Equipment per SD-25633-01, Fig. 31, less WR option, required in addition to list 1, to confine mutilated hour entries to those recorders that are out of synchronism and the hour time is required for trouble records. (For offices with recorders EM, 0-10.)

List 21—Equipment per SD-25633-01, Fig. 31, WR option only, required in addition to list 20, to confine mutilated hour entries to those recorders that are out of synchronism and the hour time is required for trouble records. (For offices with recorders 11-19.)

Add:

List 22—♦Wiring and equipment per SD-25633-01, Fig. 1, 2, 3, 19, 23 and two Fig. 4, WZ option only, required in addition to list 1 when office is arranged for 1-second timing accuracy. (See Notes G and H and 5.08.)

List 23—Wiring and equipment per SD-25633-01, Fig. 3, VF option only required in addition to list 22 when No. 4 toll office is arranged for 1-second timing accuracy.♦

Under Notes

Add:

♦G. When 1-second timing accuracy is required, WY option shall be removed.

H. When TSP operation is required VD option shall be specified, otherwise VC shall be provided.♦

Under J22451E

Under List 1

Change:

	WIRE	EQUIP	NOTES
Master Timing Ckt, SD-25633-01: Fig. 3, 18, 19, 20, 21, 22, 23, & 26, ZO & ZP Opts	1	1	
Fig. 1, 2, 7 & 9 XH Opt	1	1	
Fig. 4, 8, 17 & 24, V, Z, ZF, ZK, ZN, ZE & XG Opts	2	2	

To Read

	WIRE	EQUIP	NOTES
♦Master Timing Ckt, SD-25633-01: Fig. 3, 18, 19, 20, 21, 22, 23 & 26, ZO, ZP & WY Opts	1	1	
Fig. 1, 2, 7, & 9, XH, WY & VG Opts	1	1	
Fig. 4, 8, 17 & 25, V, Z, ZF, ZK, XE, XG, XJ, ZY, WX & WY Opts	2	2	♦

Add:

List 6—Wiring and equipment per SD-25633-01, Fig. 31, less WR option required in addition to list 1 to confine mutilated hour entries to those recorders that are out of synchronism and the hour time is required for trouble records. (For offices with recorders EM, 0-10.)

♦**Rate:** List 7 Mfr Disc.♦

Add:

List 8—♦Equipment and wiring per SD-25633-01, options WZ, VC, and VH to provide for 1-second timing. (See Note D and 5.08.)♦

Under Notes***Add:***

- ♦D. When list 8 for 1-second timing is required omit WY and VG options.♦

5. GENERAL NOTES

The following changes apply to Part 5 of the section:

- (a) 5.08—added
- (b) List of A & M Only and Mfr Disc. Equipment—revised

Add:

5.08 ♦During the period of transition from 6-second to 1-second timing accuracy the Master Timing Auxiliary Circuit, SD-94834-01, is required. In No. 5 offices, the auxiliary equipment is located on the upper casing of 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 closest recorder connector frame. This transition equipment must be kept in service until all records have been modified to 1-second timing. At this point it may be removed. Except for No. 5 crossbar, unit terminal strips are provided on the master timing frame and the auxiliary unit equipment, to terminate interconnecting cabling. Temporary supplementary local cable interconnects the master timing and auxiliary apparatus via terminal strips if provided.♦

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

EQUIPMENT	RATING	DETAILS	REPLACING EQUIPMENT
		LAST SHOWN IN ISSUE	
♦ J22451E,L7 Mfr Disc.		11	— ♦

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