MASTER TIMING CIRCUIT SD-25633-01
DAYLIGHT SAVING TIME AND LEAP YEAR CHANGES
NO. 5 CROSSBAR OFFICES

1. GENERAL

1.01 This section covers the procedures to be followed in changing the time setting of the master timing circuit SD-25633-01 in offices arranged for AMA to comply with the legal time change from standard time to daylight saving time and vice versa and to arrange the circuit to count 29 days for February in a leap year.

1.02 This section is reissued to add the association with one-second timing. This is a general revision of this section and arrows normally used to denote changes are not used. This reissue does not affect the Equipment Test Lists.

1.03 In offices that are unattended during the hours specified in this section, procedures outlined should be performed in accordance with local instructions.

1.04 ***For 6-second Timing Features:*** When "N" wiring option is used do not transfer or work on the ***TE*** or ***TO*** timer during 5 minutes before or after ***any*** hour.

1.05 ***For 1-second Timing Features:*** When "N" wiring option is used, do not transfer or work on the TE or TO timer during one minute before or after ***any*** 10 minute period.

2. APPARATUS

2.01 322A (make-busy) plugs, as required.

3. METHOD

Time Changes

3.01 Determine if it is satisfactory to transfer the time control from one master timer circuit to the other by observing the precautions stated in ***1.04*** or ***1.05.*** Approximately 25 minutes before the time to change the time setting of the master timing circuit for the change-over to Daylight-Saving Time or back to Standard Time, check that the ***TT*** (timer transfer) key is normal, indicating that the even master timing circuit is in control. If operated, determine if it is in trouble, clear the trouble, and restore the ***TT*** key to normal.

> ***Note:*** It is important that all of the time changes in this section shall be completed before the hour to prevent incorrect information from being recorded on the recorder tapes.

3.02 Operate the ***CKL*** key. the ***ET*** (even timer) and the time check lamps will light.

3.03 Block nonoperated the ***UH*** relay of the even (control) master timer for 7 or 8 seconds. This will cause an out-of-synchronous (sync) condition. The ***OS*** (out-of-sync) lamp of each recorder and the ***OSO*** (out-of-sync odd) lamp of the odd master timing circuit will light. The ***SSF*** (selector sync failure) lamp and ***TSF*** (timer sync failure) lamp will light within one minute. A major alarm will sound.

3.04 Momentarily operate the ***ACO*** (alarm cutoff) key to silence the alarm. ***Caution—Verify lamps for correct month, day, and hour.***

3.05 Make each regular recorder and emergency recorder busy by inserting make-busy (MB) plugs in the MB- jacks, except any recorder that may have been transferred to the emergency recorder as indicated by the presence of an ***MB*** plug in the ***TN***—or ***RTN***—jack. This will place an out-of-sync record on each type. Locate and observe that the **MTE** (master timer even) and **MTO** (master timer odd) lamps light. When the record has been placed on all recorder tapes, the ***MTE*** and ***MTO*** lamps will be extinguished.

Standard Time to Daylight Saving Time

3.06 Operate and hold ***CLT*** (check lamp transfer) key while performing the following for changing time from Standard to Daylight Saving Time: Manually operate and release the ***HUH relay of the odd (non-control) timer to advance time by one hour.*** For example, check lamps ***HT0*** and ***HU2*** indicating 02 hours should be lighted if the foregoing procedure was performed between 1 a.m. and 2 a.m. (01 hour). ***Caution—Verify by lamps that no other information has changed.*** Release ***CLT*** key.

3.07 Operate ***TT*** key to put odd master timer in control. ***ET*** and ***OSO*** lamps will extinguish. ***OT*** (odd timer) lamp and ***OSE*** (out of sync-even) lamps will light. Observe that the recorder ***OS*** lamps are extinguished.

3.08 Operate the ***CMBE*** (make-busy even) key. The CMBE lamp will light.

3.09 Momentarily operate the ***S*** (synchronism) key. This will synchronize the even timer selectors to the odd timer. The ***OSE*** lamp is extinguished. Verify that check lamps indicate correct Daylight Savings Time when the CLT (check lamp transfer) key is both depressed and released.

3.10 Restore the ***CMBE*** key. The ***CMBE*** lamp is extinguished.

3.11 Remove ***MB*** plugs from recoder MB-jacks. This will place an in-sync record with hour line on each tape. The MTE and MTO lamps will light momentarily.

3.12 Momentarily operate the ***AR*** key. The SSF and TSF lamps will be extinguished.

3.13 Restore the ***CKL*** key. All lamps will be extinguished.

3.14 Restore the ***TT*** key to normal if it is desired to place the even master timing circuit in control.

Daylight Saving To Standard Time

3.15 To change the time from Daylight Saving Time to Standard Time follow the instructions given in 3.01 through 3.05. Operate and hold CLT (check lamp transfer) key while performing the following step. Manually operate and release ***HUH*** relay of the odd master timing circuit until the check lamps read ***HT0*** and ***HU0*** indicating that the time has been set back one hour. Release CLT key. ***Caution: Verify by lamps that no other information has changed.***

3.16 Operate ***TT*** key to put odd master timer in control. ***ET*** and ***OSO*** lamps are extinguished. ***OT*** and ***OSE*** lamps light. Observe that the recorder ***OS*** lamps are extinguished.

3.17 Operate the ***CMBE*** key. The ***CMBE*** lamp will light.

3.18 Momentarily operate the ***S*** key. This will synchronize the even timer selectors to the odd timer. The ***OSE*** lamp is extinguished. ***Verify that check lamps indicate correct time information and that the hour is 00 (Standard Time).***

3.19 Restore ***CMBE*** key. The ***CMBE*** lamp is extinguished.

3.20 Remove ***MB*** plugs from the recorder ***MB***—Jacks. This will cause a tape identity of in-sync with an hour line on each released recorder's tape.

3.21 Momentarily operate ***AR*** key. The ***SSF*** and TSF lamps will be extinguished.

3.22 Restore the ***CKL*** key. All lamps will be extinguished.

3.23 Restore the ***TT*** key to normal if it is desired to place the even master timing circuit in control.

> ***Note:*** If lamps are ***not*** correct in ***any*** of the ***caution*** points in preceding procedure, this should be corrected ***before*** proceeding further.

Leap Year Changes

3.24 The same precautions apply to leap year arrangements as to Daylight Savings Time changes; ***1.04*** and ***1.05*** should be followed depending on which timing system is used in the central office.

3.25 To arrange the master timing circuits to count 29 days for February of the leap year, perform the following operations at some time before 11 p.m. on February 28:

(a) With the ***TT*** key normal, disconnect the optional wiring strap, designated "Z" option between terminals ***8*** and ***9*** on arc ***2*** of the ***DU*** selector of the ***odd*** master timing circuit.

(b) Operate the ***TT*** key and perform the same operation on the ***even*** master timing circuit.

(c) Restore the ***TT*** key to normal.

3.26 Following the precautions stated in ***1.04*** and ***1.05,*** as soon as practical after 12:11 a.m. of February 29, operate the ***CKL*** key. Observe that the ***M2, DT2,*** and ***DU9*** check lamps are lighted, indicating the date as February 29. Check that the same date is indicated with the ***CLT*** key operated. Restore the ***CKL*** key.

3.27 After 3:31 a.m. of March 1 of a leap year, with the ***TT*** key normal, operate the ***CKL*** key. Observe that the ***M3, DT0,*** and ***DU1*** check lamps are lighted, indicating the date as March 1. Check that the same date is indicated with the ***CLT*** key operated. Restore the ***CKL*** key.

3.28 Restore the wiring ("Z" option) between terminals ***8*** and ***9*** on arc ***2*** of the ***DU*** selector of the ***odd*** master timing circuit. Check the wiring by connecting ground to terminal ***8*** of arc ***2*** of the DU selector and test that this ground is extended to arc ***1,*** terminal ***2*** of the "M" selector of the ***odd*** master timing circuit.

3.29 Operate that TT key and proceed as in 3.28 for the ***even*** master timing circuit. Restore TT key to normal.