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FIELD SERVICE BULLETIN

FSB # 098-40620-11
DATE: May 6, 1994

System:	DIGITAL CLOCK DISTRIBUTOR (DCD)
Product Identity:	ST3 CLOCK & ST2 CLOCK
Product Code:	090-40013-01 & 090-40017-01
CLEI Code:	D0CPBD55AA & D0CP20Z3AA
Technical Support:	(408) 428-7907+1+1 or (888) 367-7966+1+1
Customer Service:	(408) 428-7907+2 or (888) 367-7966+2

This Field Service Bulletin has been prepared for the in service changeout of the ST3 cards for the ST2 clock cards in the DCD-ST2, -419, -519, -521 or DCD-523 master shelf. This procedure will take approximately 2 to 3 hours to complete.

Please read the complete bulletin before actually beginning the procedure.

This procedure assumes the following:

- o There are no alarms on the DCD shelf.
- o Reference input signals to the DCD shelf are traceable to a Stratum-1 source and are at least Stratum-2 quality.
- o A DCD shelf manual is available for reference.

Note: DCD circuit packs are sensitive to electrostatic discharge (ESD) damage. Proper ESD protective procedures must be observed when handling, packaging, and shipping these units.

CHANGEOVER PROCEDURE

1. Insure that the SRC ACTIVE lamp is lit on CI A (If not, press the XFR push button on either CI card to make it source [SRC] ACTIVE.)
2. Remove the ST3 B card.
3. Install an ST2 card in the ST B position.

Note: The FREE RUN lamp will flash for 40 minutes to an hour during the stabilization (warm-up) period. After this warm-up period the following will take place:

- o The FREE RUN lamp stops flashing and goes off.
- o The REF B lamp lights.
- o Within 5 to 20 the LOCKED lamp on the ST2 B card will light.

4. **Wait at least 30 minutes after LOCKED lamp lights** to allow the ST2 card to continue to converge on input B and to settle.

Note: The next step will cause up to a one unit interval (UI) phase hit on the DCD system outputs.

5. Remove the ST3 A card. The ACTIVE lamp on the ST2 B card lights.
6. Set SW1 switch (ST2/ST3) on the back of the DCD-ST2 shelf to the ST2 position. The SRC ACTIVE lamp lights on the CI A card and remains lit on the CI B card.
7. Install an ST2 card in the ST A position.

Note: The FREE RUN lamp will flash for 40 minutes to an hour during the stabilization (warm-up) period. After this warm-up period the following will take place:

- o The FREE RUN lamp stops flashing and goes off.
- o The REF A lamp lights.
- o Within 5 to 20 the LOCKED lamp on the ST2B card will light.

Note: The following CI and ST2 cards' lamps should be lit:

- o The CI A card DS1 and SRC ACTIVE lamps are lit
- o The CI B card DS1 and SRC ACTIVE lamps are lit.
- o The ST2 A card LOCKED and REF A lamps are lit.
- o The ST2 B card LOCKED, ACTIVE and REF B lamps are lit.

8. Press the transfer (XFR) pushbutton on the front panel of either ST2 card (A or B) to make ST2 A card's ACTIVE light and ST2 B card's ACTIVE lamp to go off. This makes ST2 A the active clock card.

This completes the change over procedure.

Distribute to: A and B Lists, Sync Sales, Marketing and Field Service