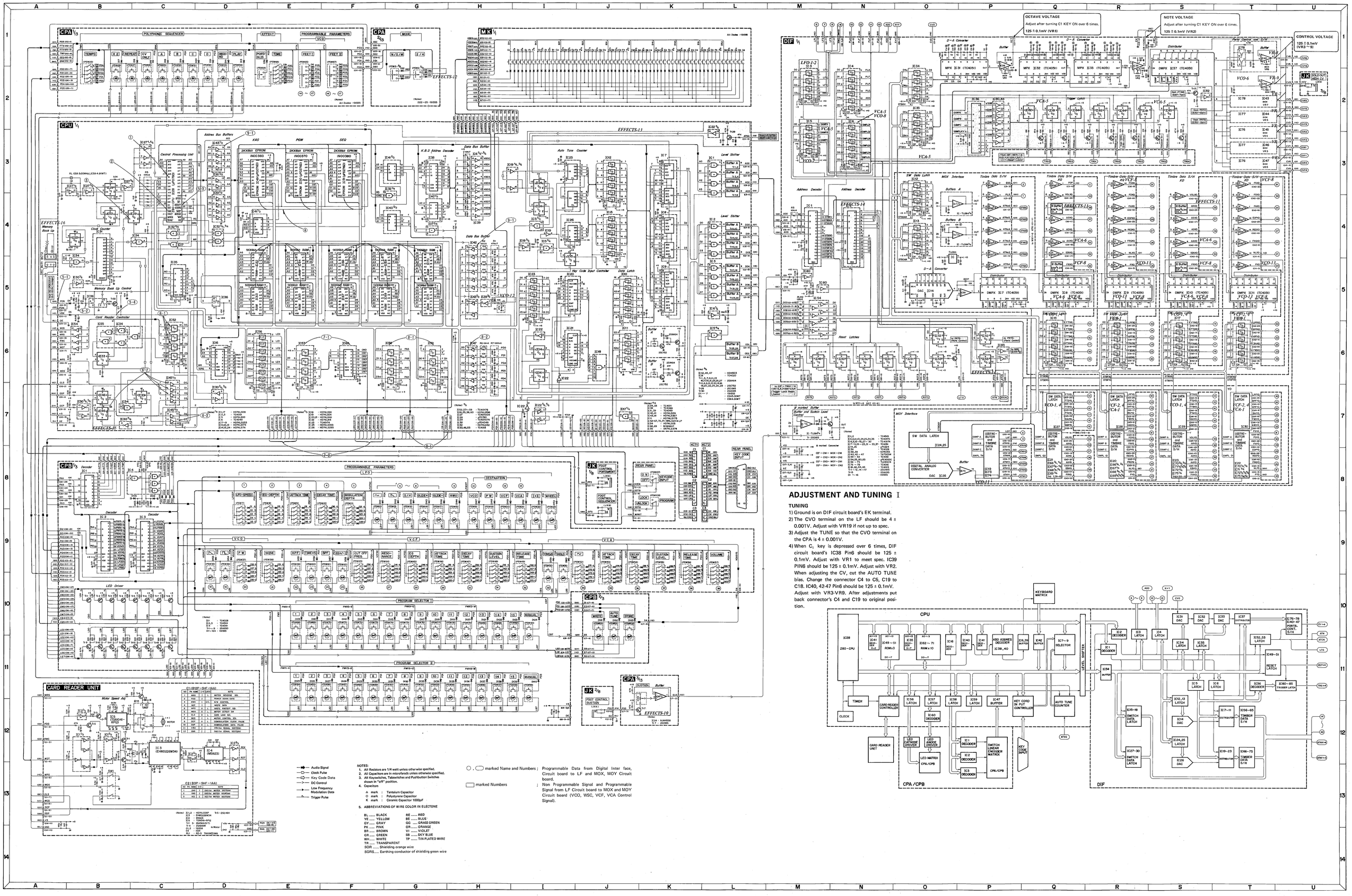
CS70M OVERALL TROUBLE SHOOTING DIAGRAM (DIGITAL SECTION) 006485



ADJUSTMENT AND TUNING I

TUNING

1) Ground is on DIF circuit board's EK terminal.
2) The CVO terminal on the LF should be 4 ± 0.001V. Adjust with VR19 if not up to spec.
3) Adjust the TUNE so that the CVO terminal on the CPA is 4 ± 0.001V.
4) When C_1 key is depressed over 6 times, DIF circuit board's IC38 Pin6 should be 125 ± 0.1mV. Adjust with VR1 to meet spec. IC39 PIN6 should be 125 ± 0.1mV. Adjust with VR2. When adjusting the CV, cut the AUTO TUNE blas. Change the connector C4 to C5, C19 to C18. IC40, 42-47 Pin6 should be 125 ± 0.1mV. Adjust with VR3-VR8. After adjustments put back connector's C4 and C19 to original position.

NOTES:
1. All Resistors are 1/4 watt unless otherwise specified.
2. All Capacitors are in microfarads unless otherwise specified.
3. All Keyswitches, Tabswitches and Pushbutton Switches shown in "off" position.
4. Capacitors
   - △ mark : Tantalum Capacitor
   - ○ mark : Polystyrene Capacitor
   - K mark : Ceramic Capacitor 1000pF
5. ABBREVIATIONS OF WIRE COLOR IN ELECTONE

BL	BLACK	RE	RED
YE	YELLOW	BE	BLUE
GY	GRAY	GG	GRASS GREEN
PK	PINK	OR	ORANGE
BR	BROWN	VI	VIOLET
GR	GREEN	SB	SKY BLUE
WH	WHITE	TP	TIN PLATED WIRE
TR	TRANSPARENT		

SOR ..... Shielding orange wire
SGRS ..... Earthing conductor of shielding green wire

○, ⬭ marked Name and Numbers ; Programmable Data from Digital Inter face, Circuit board to LF and MOX, MOY Circuit board.

▭ marked Numbers ; Non Programmable Signal and Programmable Signal from LF Circuit board to MOX and MOY Circuit board (VCO, WSC, VCF, VCA Control Signal).

Audio Signal
Clock Pulse
Key Code Data
DC Control
Low Frequency Modulation Data
Trigger Pulse