HEATERS ON
HEATERS OFF
RESTORE
OFF
STAND-BY POWER
D.C. ON
D.C. OFF
HIGH
NORMAL
I.F. BIAS CONTROL

INITIAL CLEAR 1 — CU-TSC CLEAR
INITIAL CLEAR 2 — CU START INTERLOCK
CU START
CLEAR FF TS — GENERAL CLEAR
INHIBIT PMC — MEMORY CLEAR
RETAIN C — RETAIN INSTRUCTION
GROUP 1 — GROUP 2 OSCILLOSCOPE
O_pO — TSP SYNC
pO

HSB F F L L A A X X Y V CR M O I TC CU TPG C
REGISTER SELECTOR

00 10 20 30 40 50 60 70 80 90
MEMORY SELECTOR - HUNDREDS

0 1 2 3 4 5 6 7 8 9
MEMORY SELECTOR - TENS

7p 0 | 7p 1 | 13p 2 | 13p 3 | 27p 4 | 5 | SY1 6 | SY0 7 | 8 | 9
SECONDARY SELECTOR

BAY A | BAY B | BAY C | BAY D | BAY E | BAY M | BAY N | BAY G | BAY H | BAY J

D.C. FAULT INDICATORS

FAULT TEST

BAY K | BAY L | BAY P | DE CORNER | POWER SUPPLY | UNI SERVOS | P | P | T
PRIMARY FAULT RELAY RESET

STAND-BY HEATERS - LONG TANKS

F | L | A | X | C | CR1 | SY11 | SY01
UNISERVO SCREEN FUSE
AGC
STAND-BY POWER (HEATER)
TIME-OUT RESET
HSB
STALL
SPEAKER
F | L | A | X | V | CR2 | SY12 | SY02
HEATERS - SHORT TANKS

PMC
HIGH

HSB TO MEM. | HSB TO SYO | LOW GAIN | HSB O-E | HSB COMP. | ADDER MIN. | ADDER SUB. | ADDER ALPH. | ADDER COMP. | F COMP. | L COMP. | A COMP. | X COMP. | COND. TRANS. | DELETE SELECTOR | MASTER DELETE | RESET CONTROL | X÷ ERROR STOP | HSB ERROR INSERT | A C.U. ERROR INSERT | B C.U. ERROR INSERT | ON SERVO POWER | TIME OUT | CYC UNIT | F.T. OUTPUT | F.T. INTER. | TANK SEL. | SERVO SEL. | I.S. >720 | I.S. O-E | O.S. O-E | I-O INT. | TAPE CHECK | R I.S. ERROR INSERT | I.S. ERROR CLEAR | O.S. ERROR CLEAR

FIRST INSTRUCTION DIGIT | SECOND INSTRUCTION DIGIT | FOURTH INSTRUCTION DIGIT | FIFTH INSTRUCTION DIGIT | SIXTH INSTRUCTION DIGIT

← DECIMAL ZERO →
← BINARY ZERO → INST. MSR SR

IER | OR | IER-OR | ≧3 | REPEAT | MULT.-QUOT. COUNTER | PROGRAM COUNTER

STALL | STOP | STOP | TO | TS | S1-C^p | S1-X | CLEAR CY | CYCLE COUNTER | CLEAR $\overline{PC}$ | CLEAR $\overline{PC}$ AND $\overline{PC}$

CONDITIONAL TRANSFER | TRANSFER | NO TRANSFER | BREAK POINT
ALL 0 1 2 3 4 5 6 7 8 9
CONDITIONAL TRANSFER BREAKPOINT SELECTOR

TANK HEATER VOLTAGE MONITOR
VOLUME

ONE OPERATION | ONE STEP | ONE ADDITION | ONE INSTRUCTION

OVER FLOW | 0 1 2 3 4 5 6 7 8 9 − | SECOND INSTRUCTION DIGIT

INITIAL READ | IR TIMER | CLEAR C | SCI CR

− 0 1 2 3 4 5 6 7 8 9
, . ; A B C D E F G H I
SCI CR J K L M N O P Q R
S T U V W X Y Z

1 2 3 4 5 6 7 8 9 −
BLOCK SUBDIVISION SELECTOR

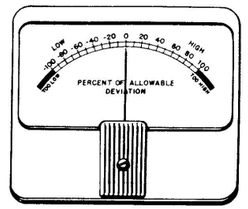
INPUT SYNCHRONIZER COUNTER | INPUT TANK COUNTER
CLEAR I AND O
OUTPUT SYNCHRONIZER COUNTER | OUTPUT TANK COUNTER
DIRECTION STORAGE | REVERSE | FIRST BLOCK | READ INT. | WRITE INT. | REWIND OVERLOAD

1 2 3 4 5 6 7 8 9 −
INITIAL TAPE SELECTOR

M A X L F C CR SYI EMPTY
OUTPUT SELECTOR

SCI CR FILL | INPUT READY | SYI1 | 12 TH DIGIT | INPUT ERROR | SYI2 | OUTPUT READY | SKIP | OUTPUT BREAK POINT

ABSOLUTE REF. VOLTAGE



TANK HEATER VOLTAGE
VOLTAGE MON. REMOTE METER

			0	0				
			1	1				
			2	2				
			3	3				
			4	4				
			5	5				
+750 0	+90 0	+8 -74	0	0	-4 -74	-88 -117	+290 +90	
+410 +280	+80 +70	+5 0	1	1	-14 -34	-88 -150	+280 +246	
+380 +90	+80 +60	+5 -14	2	2	-20 -40	-95 -100	+246 +165	
+375 0	+80 0	0 -175	3	3	-20 -100	-95 -117	+120 +90	
+280 0	+80 -106	0 -11	4	4	-25 -100	-100 -175	0 -34	
+246 0	+75 0	0 -13	5	5	-25 -190	-100 -216	-34 -74	
+200 0	+70 +60	0 -14	6	6	-34 -40	-117 -150	-88 -100	
+165 +90	+70 0	0 -15	7	7	-34 -50	-117 -190	0 -191S	
+165 +60	+66 +60	0 -16	8	8	-40 -55	-125 -190	-166S -191S	
+160 -40	+60 0	0 -17	9	9	-40 -100	-140 -190	-191S -217S	
+150 0	+50 0	0 -18	0	10	-50 -150	-150 -163	+48 0	
+120 +105	+40 0	0 -20	1	11	-50 -150	-150 -165		
+120 -30	+40 -88	0 -21	2	12	-55 -100	-150 -190		
+105 +95	+35 0	0 -40	3	13	-55 -150	-150 -216		
+105 +80	+30 0	0 -50	4	14	-60 -88	-165 -216		
+95 0	+30 -40	0 -60	5	15	-60 -100	-175 -216	+279 +90	
+90 +84	+20 0	0 -100	6	16	-71 -88	-190 -203	+247 +90	
+90 +80	+15 -100	0 -106	7	17	-74 -88	-190 -300	+79 0	
+90 +70	+8 0	0 -300	8	18	-74 -190	-216 -229	-74 -86	
+90 +60	+8 -14	-4 -34	9	19	-80 -150	-216 -300	-100 -150	

MEASURE
DELAYED SHUT-OFF

VOLTAGE MON. MANUAL SWITCHING
HIGH
VOLTAGE MON. FAULT RELAY RESET
LOW

EL-170

CHART F