

```

0001 *****
0002 *           M  O  D  2
0003 *****
0004           IDT   'MOD2'
0005 0000       RDRG
0006           0320  DRCRU   EQU   >320      DECREMENTER CRU BASE ADDRESS
0007           0360  FLGCRU  EQU   >360      FLAG REGISTER CRU BASE ADDRESS
0008           03C0  PODATA  EQU   >3C0      P0 - P15 CRU BASE ADDRESS
0009           03E0  P16DTA  EQU   >3E0      P16 - P31 CRU BASE ADDRESS
0010 *
0011 *
0012 *           WORKSPACE / REGISTER ASSIGNMENTS
0013           0001  GENR1   EQU   1          GENERAL REGISTER 1
0014           0002  GENR2   EQU   2          GENERAL REGISTER 2
0015           0003  GENR3   EQU   3          GENERAL REGISTER 3
0016           0004  GENR4   EQU   4          GENERAL REGISTER 4
0017           0005  STROBE  EQU   5          STROBE COUNTER
0018           0006  MILISC   EQU   6          MILLISECOND COUNTER
0019           0008  CT5060   EQU   8          50/60 HERTZ COUNTER
0020           0009  FLSHCT   EQU   9          FLASH TIME COUNTER
0021           000A  MS3      EQU   10         3 MILLISECOND COUNTER
0022           000C  CRUBAD   EQU   12         CRU BASE ADDRESS STORE
0023 *
0024 *
0025 *           WORKSPACE 2 REGISTER ASSIGNMENTS
0026 *R0 USED FOR 60-SECOND DELAY
0027           0001  GENRB1   EQU   1          GENERAL REGISTER 1
0028           0002  GENRB2   EQU   2          GENERAL REGISTER 2
0029           0003  GENRB3   EQU   3          GENERAL REGISTER 3
0030           0004  GENRB4   EQU   4          GENERAL REGISTER 4
0031           0005  MS500    EQU   5          500 MILLISECOND COUNTER
0032           0006  DELAY    EQU   6          DELAY COUNTER
0033           0007  PRGPT    EQU   7          PLAY AT SEQUENCE POINTER
0034           0008  GOTDPT   EQU   8          GOTD SEQUENCE POINTER
0035           0009  FTHPT    EQU   9          FUNCTION SEQUENCE POINTER
0036           000A  MEMIPT    EQU   10        MEMORY INPUT SEQUENCE POINTER
0037           000D  TMPIPT   EQU   13        TEMPORARY INPUT STORE
0038 *
0039 *
0040 *
0041 *           FLAG ASSIGNMENTS IN FLAG REGISTER
0042 *
0043           0000  ARMFLG    EQU   0          AUTO REWIND FLAG
0044           0001  RRLFLG    EQU   1          RECORD RELEASE FLAG
0045           0002  RPSFLG    EQU   2          RECORD PAUSE FLAG
0046           0003  RECFLG    EQU   3          RECORD FLAG
0047           0004  MIPFLG    EQU   4          MEMORY INPUT FLAG
0048           0005  TCLFLG    EQU   5          TAPE CALIBRATED FLAG
0049           0006  EDTFLG    EQU   6          END OF TAPE FLAG
0050           0007  DLYFLG    EQU   7          DELAY FLAG
0051           0008  PRGFLG    EQU   8          PLAY AT PROGRAM FLAG
0052           0009  FUNFLG    EQU   9          FUNCTION RUNNING FLAG
0053           000A  FFWFLG    EQU   10        FAST FORWARD FLAG
0054           000B  DSPTIM    EQU   11        DISPLAY TIME FLAG
0055           000C  DSPUD     EQU   12        DISPLAY UPDATE FLAG

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0056	000D	FLSFLG	EQU	13	FLASH DISPLAY FLAG
0057	000E	DISPON	EQU	14	DISPLAY ON FLAG
0058	000F	GOTOFG	EQU	15	GOTO FLAG
0059	0000	CKCAL	EQU	0	CLOCK CALIBRATED FLAG
0060	0001	LDCFLG	EQU	1	LOCAL KEYBOARD INPUT FLAG
0061	0002	REMFLG	EQU	2	REMOTE KEYBOARD INPUT FLAG
0062	0003	CKSTAT	EQU	3	CLOCK INPUT STATUS
0063	0004	CKSTFG	EQU	4	CLOCK SET FLAG
0064	0005	TPSTAT	EQU	5	TAPE COUNT INPUT STATUS
0065		*			
0066		*			
0067		*			
0068		*			
0069	0027	CON23	EQU	39	DECIMAL POINT - DISC INDICATOR
0070		*			
0071		*			
0072		*			INPUT-OUTPUT LINE ASSIGNMENTS
0073		*			
0074		*			
0075		*			
0076	0030	CLKIP	EQU	48	REAL TIME CLOCK INPUT
0077	0031	REMIP	EQU	49	REMOTE SIGNAL INPUT
0078	003F	TAPIP	EQU	63	TAPE COUNTER SIGNAL INPUT
0079	0040	RECAWD	EQU	64	RECORD ALLOWED INPUT
0080	0041	TAPIND	EQU	65	TAPE CASSETTE INDICATOR
0081	0042	TAPDWR	EQU	66	TAPE POWER SWITCH
0082	0043	FFWD	EQU	67	FAST FORWARD CONTROL SWITCH
0083	0044	REWD	EQU	68	REWIND CONTROL SWITCH
0084	0045	RECDSP	EQU	69	RECORDING DISPLAY LED
0085	0046	GRAMSP	EQU	70	GRAMOPHONE STOP CONTROL
0086	0047	DISCPT	EQU	71	DEC POINT- DISC INDICATOR
0087	004F	MUTE	EQU	79	MUTING CONTROL
0088	0E00	WKSP2	EQU	>E00	WORKSPACE 2 ADDRESS
0089	0E20	WKSP1	EQU	>E20	WORKSPACE 1 ADDRESS
0090	0E80	DCAPC	EQU	>E80	DECIMAL ADD CORRECT ADDRESS
0091	0EA4	DCSPC	EQU	>EA4	DECIMAL SUBTRACT ADDRESS
0092		*			
0093		*			
0094			DEF		LABDL
0095			DEF		DEC0DA, DEC0DB, ERROR, LABD5, DLYUD2, DLYUD
0096			DEF		TKEY, LABS53, RECKEY, PKEY
0097			REF		ATKEY, FLDC, DIGT5, REWKEY, LABB8, TAPCNT
0098			REF		GOTDST, REFC0N, LABB2, DSTRB, REMC, RECST, VOLUP
0099			REF		LDC3, STBY, GOTOKY, FD0N, PLAY, SELDP, TAPREL, FFKEY
0100			REF		SETKEY, VOLSEL, VOLDN
0101		*			
0102		*			
0103		*			
0104		*			THE DECODE SECTION DECIDES WHICH KEY HAS BEEN PRES
0105		*			ON EITHER THE LOCAL OR REMOTE KEYBOARDS BY SELECTI
0106		*			WHICHEVER STROBE THE DATA ARRIVED IN ON AND BRANCH
0107		*			TO THE FUNCTION DETERMINED BY THE DATA BIT SET
0108		*			
0109		*			OBTAIN REMOTE KEYBOARD STROBE AND DATA
0110	0000	COA0	MOV	@REMC, GENRB2	PICK UP REMOTE INPUT DATA


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0111 0002 0000
0111 0004 0242      ANDI  GENRB2,>7000  MASK OFF STROBE
      0006 7000
0112 0008 08B2      SRA   GENRB2,11     LINE UP STROBE FOR COMPATABILITY
0113 000A C0E0      MOV   @REMC,GENRB3  PICK UP REMOTE INPUT DATA
      000C 0002'
0114 000E 0243      ANDI  GENRB3,>0F00  MASK OFF DATA
      0010 0F00
0115 0012 0A43      SLA   GENRB3,4     LINE UP FOR TESTING
0116 0014 13--      JEQ   LABD5        EXIT IF INVALID DATA
0117 0016 10--      JMP   LABS75
0118
0119
0120
0121 0018 C0A0      *
      001A 0000      *
      *
      *      OBTAIN LOCAL KEYBOARD STROBE AND DATA
0121 0018 C0A0      DECODB MOV   @DSTRB,GENRB2 PICK UP LOCAL STROBE
      001A 0000
0122 001C C0E0      MOV   @LLOC3,GENRB3 PICK UP LOCAL DATA
      001E 0000
0123 0020 0A43      SLA   GENRB3,4     LINE UP DATA
0124 0022 1D09      LABS75 SBD   FUNFLG    SET FUNCTION FLAG
      0016**1005
0125 0024 0200      LI    R0,60000     60 SEC DELAY
      0026 EA60
0126 0028 0282      CI    GENRB2,8     VALID STROBE VALUE
      002A 0008
0127 002C 15--      JGT   LABD5        NO, EXIT
0128 002E 1F02      TB    RPSFLG       TEST RECORD PAUSE MODE
0129 0030 13--      JEQ   LABS40
0130 0032 1E0D      SBZ   FLSFLG       RESET FLASHING
0131 0034 0A22      LABS40 SLA   GENRB2,2   MULTIPLY STROBE BY 4
      0030**1301
0132 0036 04C1      CLR   GENRB1       CLEAR KEY NUMBER
0133 0038 C122      LABS41 MOV   @KEYPC(GENRB2),GENRB4 POINT TO STROBE AREA
      003A ----
0134 003C 0A13      SLA   GENRB3,1     TEST FOR DATA
0135 003E 17--      JMC   LABS42       NO DATA BIT SET
0136 0040 0454      B     *GENRB4      BRANCH TO PARTICULAR FUNCTION
0137 0042 05C2      LABS42 INCT  GENRB2      POINTER GOES UP BY 2
      003E**1701
0138 0044 10F9      JMP   LABS41       LOOP AGAIN TO FIND BIT
0139
0140
0141
0142
0143 0046 0000      *
      003A**0046'      *
      *
      *      KEY FUNCTIONS ADDRESS TABLE
      *
      *      STROBE 0
0143 0046 0000      KEYPC DATA TAPREL  TAPE RELEASE KEY
      003A**0046'
0144 0048 ----      DATA PKEY        GRAMOPHONE KEY
0145 004A ----      DATA TKEY        TAPE PLAY KEY
0146 004C 0000      DATA STBY        STAND BY KEY
0147
0148 004E 0000      *
      *      STROBE 1
0148 004E 0000      DATA ATKEY       AT KEY
0149 0050 ----      DATA P1KEY       FM STATION 1 KEY
0150 0052 ----      DATA P2KEY       FM STATION 2 KEY
0151 0054 ----      DATA P3KEY       FM STATION 3 KEY
0152
      *
      *      STROBE 2

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0153	0056	0000		DATA	PLAY	PLAY PROGRAMMING KEY
0154	0058	----		DATA	P4KEY	FM STATION 4 KEY
0155	005A	----		DATA	P5KEY	FM STATION 5 KEY
0156	005C	----		DATA	P6KEY	FM STATION 6 KEY
0157			*		STROBE 3	
0158	005E	0000		DATA	SETKEY	CLOCK SET KEY
0159	0060	0000		DATA	REWKEY	REWIND KEY
0160	0062	0000		DATA	FFKEY	FAST FORWARD KEY
0161	0064	----		DATA	RECKEY	RECORD KEY
0162			*		STROBE 4	
0163	0066	0000		DATA	GOTOKY	GOTO PROGRAMMING KEY
0164	0068	0000		DATA	VOLDN	VOLUME DOWN CONTROL KEY
0165	006A	0000		DATA	VOLUP	VOLUME UP CONTROL KEY
0166	006C	----		DATA	ERROR	
0167	006E	0006	C5	DATA	6	
0168	0070	01F4	C500	DATA	500	
0169	0072	02EE	C2000	DATA	750	
0170			*			
0171			*			
0172			*			
0173			*			SET UP THE ERROR MESSAGE BY FLASHING THE DISPLAY
0174			*			
0175	0074	C820	ERROR	MOV	@C5,@FLDC	FLASH 5 TIMES
	0076	006E'				
	0078	0000				
	006C**0074'					
0176	007A	C820		MOV	@C500,@FDCON	
	007C	0070'				
	007E	0000				
0177	0080	1E0E		SBZ	DSPON	RESET DISPLAY ON FLAG
0178	0082	1D0D		SBD	FLSFLG	SET FLASHING FLAG
0179			*			
0180			*			
0181			*			LOOP FOR KEY SPACE
0182			*			
0183	0084	0209	KEYDLY	LI	FTNPT,LABDL	
	0086	----				
0184	0088	0202		LI	GENRB2,20	
	008A	0014				
0185	008C	10--		JMP	DLYUD	
0186	008E	0300	LABD5	LIMI	5	
	0090	0005				
	0014**133C					
	002C**1530					
0187	0092	C060	LABDL	MOV	@REMC,GENRB1	ANY REMOTE DATA
	0094	000C'				
	0086**0092'					
0188	0096	16F6		JNE	KEYDLY	KEY STILL DOWN
0189	0098	C060		MOV	@LDC3,GENRB1	ANY LOCAL DATA
	009A	001E'				
0190	009C	16F3		JNE	KEYDLY	KEY STILL DOWN
0191	009E	1E09		SBZ	FUNFLG	RESET FUNCTION FLAG
0192	00A0	0460		B	@LABB8	
	00A2	0000				
0193			*			


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0194 *
0195 *
0196 *          DECODE OF GRAMOPHONE KEY
0197 *
0198 00A4 1F04 PKEY      TB      MIPFLG      TEST FOR MEMORY INPUT MODE
      0048**00A4'
0199 00A6 16--          JNE      LABS44
0200 00A8 045A          B        *MEMIPT      GO CONTINUE INPUT SEQUENCE
0201 00AA 1F03 LABS44  TB      RECFLG      TEST FOR RECORDING
      00A6**1601
0202 00AC 13E3          JEQ      ERROR      NOT ALLOWED
0203 00AE 1E27          SBZ      CON23      RECONFIGURE DISC INDICATOR
0204 00B0 0202          LI      GENRB2,10    10 MS DELAY FOR PIN
      00B2 000A
0205 00B4 0209          LI      FTNPT,TSTDSC
      00B6 ----
0206 00B8 10--          JMP      DLYUD
0207          TSTDSC
      00B6**00BA'
0208 00BA 1F47          TB      DSCPT      TEST FOR DISC
0209 00BC 16--          JNE      LABS45
0210 00BE 1D27          SBO      CON23      NO DISC
0211 00C0 10D9          JMP      ERROR
0212 00C2 1D27 LABS45  SBO      CON23
      00BC**1602
0213 00C4 1F43          TB      FFWD      IS TAPE WINDING
0214 00C6 16--          JNE      LABS46
0215 00C8 1F44          TB      REWD      IS TAPE REWINDING
0216 00CA 16--          JNE      LABS48
0217 00CC 1E0D          SBZ      FLSFLG
0218 00CE 1E02          SBZ      RPSFLG
0219 00D0 1D45          SBO      RECDSP      RECDSP GOES HIGH
0220 00D2 1D47          SBO      DSCPT      SWITCH ON DECIMAL POINT
0221 00D4 1E00          SBZ      ARMFLG      RESET AUTO REWIND FLAG
0222 00D6 1D0B LABS49  SBO      DSPTIM      SET DISPLAY TIME FLAG
0223 *
0224 00D8 1E46 LABS48  SBZ      GRAMSP      GRAMOPHONE STOP GOES LOW
      00CA**1606
0225 00DA 1D0C          SBO      DSPUD      SET DISPLAY UPDATE FLAG
0226 00DC 1E4F          SBZ      MUTE
0227 00DE 0201          LI      GENRB1,4    SET UP FUNKTION DISPLAY
      00E0 0004
0228 00E2 06A0          BL      @DIGT5      LOAD FUNCTION DISPLAY
      00E4 0000
0229 00E6 0209          LI      FTNPT,LABC2 SET UP RETURN POINT
      00E8 ----
0230 00EA 0202 DLYUD2  LI      GENRB2,200  SET UP 200 MS DELAY
      00EC 00C8
0231          DLYUD
      008C**1030
      00B8**101A
0232 00EE C182          MOV      GENRB2,DELAY
0233 00F0 1D07          SBO      DLYFLG      SET DELAY FLAG
0234 00F2 0460          B        @LABB8      GO WAIT FOR DELAY
      00F4 00A2'

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0235			*			
0236	00F6	1F44	LABS46	TB	REWD	IS REWIND ACTIVE
	00C6	1617				
0237	00F8	13EF		JEQ	LABS48	
0238	00FA	1D47		SBO	DSCPT	SWITCH ON DECIMAL POINT
0239	00FC	10EC		JMP	LABS49	
0240			*			
0241			*			
0242			*			
0243	00FE	1F43	LABC2	TB	FFWD	IS FAST FORWARD ACTIVE
	00E8	00FE				
0244	0100	13--		JEQ	LABS50	
0245	0102	1F44		TB	REWD	IS REWIND ACTIVE
0246	0104	13--		JEQ	LABS51	
0247	0106	1D43		SBO	FFWD	SWITCH OFF 77
0248	0108	1D44		SBO	REWD	SWITCH OFF CC
0249	010A	1D42	LABS52	SBO	TAPDWR	SWITCH OFF TAPE POWER
0250	010C	0201	LABS51	LI	GENRB1,7	SET UP FUNCTION SELECTOR
	010E	0007				
	0104	1303				
0251	0110	0209		LI	FTNPT,LABC3	
	0112	----				
0252	0114	06A0		BL	@SELOP	UPDATE FUNCTION SELECT
	0116	0000				
0253	0118	10E8		JMP	DLYUD2	GO DELAY FOR 200 MS
0254			*			
0255	011A	1F44	LABS50	TB	REWD	IS REWIND ACTIVE
	0100	130C				
0256	011C	13F6		JEQ	LABS52	
0257	011E	10F6		JMP	LABS51	ACTIVE
0258			*			
0259			*			
0260	0120	04C1	LABC3	CLR	GENRB1	ZERO FUNCTION SELECT
	0112	0120				
0261	0122	06A0		BL	@SELOP	UPDATE FUNCTION SELECT
	0124	0116				
0262	0126	0209		LI	FTNPT,LABC4	SET UP RETURN POINT
	0128	----				
0263	012A	0202		LI	GENRB2,1000	GO AND DELAY FOR
	012C	03E8				
0264	012E	10DF		JMP	DLYUD	1000 MS
0265			*			
0266	0130	1D4F	LABC4	SBO	MUTE	SET MUTE INACTIVE
	0128	0130				
0267	0132	10AD		JMP	LABD5	GO FIND KEY SPACE
0268			*			
0269			*			
0270			*			
0271			*			
0272			*			
0273			*			
0274			*			
0275	0134	0581	P6KEY	INC	GENRB1	
	005C	0134				
0276	0136	0581	P5KEY	INC	GENRB1	VALUE CORRESPONDING

	005A♦♦0136'					
0277	0138 0581	P4KEY	INC	GENRB1		TO THE PARTICULAR
	0058♦♦0138'					
0278	013A 0581	P3KEY	INC	GENRB1		KEY PRESSED
	0054♦♦013A'					
0279	013C 0581	P2KEY	INC	GENRB1		
	0052♦♦013C'					
0280	013E 0581	P1KEY	INC	GENRB1		
	0050♦♦013E'					
0281	0140 1F04		TB	MIPFLG		TEST FOR MEMORY INPUT
0282	0142 16--		JNE	LABS53		
0283	0144 045A		B	♦MEMIPT		IT IS A MEMORY INPUT
0284	0146 1F03	LABS53	TB	RECFLG		TEST FOR RECORDING
	0142♦♦1601					
0285	0148 1395		JEQ	ERROR		NOT ALLOWED IF RECORDING
0286	014A 1E0D		SBZ	FLSFLG		
0287	014C C0E0		MOV	◊VOLSEL,GENRB3		PICK UP CURRENT FUN
	014E 0000					
0288	0150 0883		SRA	GENRB3,8		LINE IT UP FOR TESTING
0289	0152 0243		ANDI	GENRB3,>7		PICK PUT OUTPUT SELECTOR
	0154 0007					
0290	0156 8043		C	GENRB3,GENRB1		IS SELECTED FUNCTION EQUAL
0291	0158 13--		JEQ	LABS54		TO CURRENT FUNCTION
0292	015A 1F43		TB	FFWD		TEST 77 ACTIVE
0293	015C 16--		JNE	LABS55		
0294	015E 1F44		TB	REWD		TEST << ACTIVE
0295	0160 13--		JEQ	LABD6		
0296	0162 10--		JMP	LABD4		
0297	0164 1F44	LABS55	TB	REWD		TEST << ACTIVE
	015C♦♦1603					
0298	0166 16--		JNE	LABD3		
0299	0168 10--		JMP	LABD4		
0300	016A 1F43	LABS54	TB	FFWD		IS >> ACTIVE
	0158♦♦1308					
0301	016C 16--		JNE	LABD2		
0302	016E 1F44		TB	REWD		TEST << ACTIVE
0303	0170 16--		JNE	LABD2		
0304	0172 1D42		SBO	TAPOWR		SWITCH OFF TAPE POWER
0305	0174 1D45		SBO	RECDSP		SWITCH OFF RECORD DISPLAY
0306	0176 1D47		SBO	DSCPT		SWITCH ON DECIMAL POINT
0307	0178 1E02		SBZ	RPSFLG		RESET RECORD PAUSE FLAG
0308	017A 1D0B		SBO	DSPTIM		SET DISPLAY TIME FLAG
0309	017C 1D0C	LABD2	SBO	DSPUD		SET DISPLAY UPDATE FLAG
	016C♦♦1607					
	0170♦♦1605					
0310	017E 1E00		SBZ	ARWFLG		RESET AUTO REWIND FLAG
0311	0180 0460		B	◊LABD5		
	0182 008E'					
0312		♦				
0313	0184 1D45	LABD6	SBO	RECDSP		RECORD DISPLAY GOES HIGH
	0160♦♦1311					
0314	0186 1E02		SBZ	RPSFLG		RESET RECORD PAUSE
0315	0188 1D0B	LABD3	SBO	DSPTIM		DISPLAY TIME
	0166♦♦1610					
0316	018A 1D47		SBO	DSCPT		SET OUTPUT POINT

0317	018C	1E4F	LABD4	SBZ	MUTE	ACTIVATE MUTING
	0162	♦♦1014				
	0168	♦♦1011				
0318	018E	1E00		SBZ	ARWFLG	RESET AUTOREWIND FLAG
0319	0190	06A0		BL	QDIGT5	UPDATE DIGIT 5
	0192	00E4				
0320	0194	1D0C		SBO	DSPUD	SET DISPLAY UPDATE
0321	0196	0209		LI	FTNPT,LABD7	SET RETURN ADDRESS
	0198	----				
0322	019A	10A7		JMP	DLYUD2	GO AND DELAY 200 MS
0323	019C	1F43	LABD7	TB	FFWD	TEST 77
	0198	♦♦019C				
0324	019E	13--		JEQ	LABS56	
0325	01A0	1F44		TB	REWD	TEST <<
0326	01A2	13--		JEQ	LABS5A	
0327	01A4	1D43		SBO	FFWD	STOP >>
0328	01A6	1D44		SBO	REWD	STOP <<
0329	01A8	1D42	LABS57	SBO	TAPOWR	SWITCH OFF TAPE POWER
0330	01AA	1D46	LABS5A	SBO	GRAMSP	GRAMOPHONE STOP GOES HIGH
	01A2	♦♦1303				
0331	01AC	06A0		BL	QSELOP	GO UPDATE FUNCTION SELECTOR
	01AE	0124				
0332	01B0	0209		LI	FTNPT,LABD8	SET UP RETURN POINT
	01B2	----				
0333	01B4	06A0		BL	QDLYUD2	GO AND DELAY 200 MS
	01B6	00EA				
0334	01B8	1F44	LABS56	TB	REWD	IS << ACTIVE
	019E	♦♦130C				
0335	01BA	13F6		JEQ	LABS57	
0336	01BC	10F6		JMP	LABS5A	
0337			*			
0338	01BE	1D4F	LABD8	SBO	MUTE	DEACTIVATE MUTING
	01B2	♦♦01BE				
0339	01C0	0460		B	QLABD5	
	01C2	008E				
0340			*		END OF FUNCTION	
0341			*			
0342			*			
0343			*			
0344			*		DECODE OF TAPE PLAY KEY	
0345			*			
0346	01C4	0201	TKEY	LI	GENRB1,11	STORE FUNCTION NUMBER
	01C6	000B				
	004A	♦♦01C4				
0347	01C8	1F04		TB	MIPFLG	TEST FOR MEMORY INPUT
0348	01CA	16--		JNE	LABN1	
0349	01CC	045A		B	MEMIPT	GO CONTINUE MEMORY INPUT SEQUE
0350	01CE	1F03	LABN1	TB	RECFLG	TEST FOR RECORDING
	01CA	♦♦1601				
0351	01D0	13--		JEQ	ERRORA	
0352	01D2	0205		LI	MS500,1200	DELAY FOR AUTOSTOP
	01D4	04B0				
0353	01D6	1F44		TB	REWD	
0354	01D8	13--		JEQ	TKEY2	
0355	01DA	1F43		TB	FFWD	TEST >>

0356	01DC	16--		JNE	LABS58	
0357			TKEY2			
	01D8	1302				
0358	01DE	1F41		TB	TAPIND	TEST FOR PRESENCE OF TAPE
0359	01E0	16--		JNE	ERRORA	
0360	01E2	1F06		TB	EOTFLG	TEST FOR END OF TAPE
0361	01E4	13--		JEQ	ERRORA	
0362	01E6	1D43		SBD	FFWD	STOP >>
0363	01E8	1D44		SBD	REWD	STOP <<
0364	01EA	1E42		SBZ	TAPDWR	TAPE POWER ON
0365	01EC	1D45		SBD	RECDSP	SET RECORD DISPLAY
0366	01EE	1E47		SBZ	DSCPT	TURN OFF DEC POINT
0367	01F0	1E4F		SBZ	MUTE	ACTIVATE MUTING
0368	01F2	1E02		SBZ	RPSFLG	RESET RECORD PAUSE FLAG
0369	01F4	1E00		SBZ	ARWFLG	RESET AUTOREWIND FLAG
0370	01F6	1D0C		SBD	DISPUD	SET DISPLAY UPDATE
0371	01F8	1E0B		SBZ	DSPTIM	DISPLAY TIME
0372	01FA	1D0A		SBD	FFWFLG	
0373	01FC	1E0F		SBZ	GOTDFG	RESET GOTO FLAG
0374	01FE	0201		LI	GENRB1,15	
	0200	000F				
0375	0202	06A0		BL	@DIGT5	BLANK DIGIT 5
	0204	0192				
0376	0206	0202		LI	GENRB2,700	SET 700 MS DELAY
	0208	02BC				
0377	020A	0209		LI	FTNPT,LABD10	SET RETURN POINT
	020C	----				
0378	020E	0460		B	@DLYUD	DO DELAY
	0210	00EE				
0379			*			
0380	0212	1E43	LABD10	SBZ	FFWD	START >>
	020C	0212				
0381	0214	1E44		SBZ	REWD	START <<
0382	0216	1D46		SBD	GRAMSP	
0383	0218	0201		LI	GENRB1,7	
	021A	0007				
0384	021C	06A0		BL	@SELOP	CHANGE SELECTOR TO 7
	021E	01AE				
0385	0220	1D4F		SBD	MUTE	DEACTIVATE MUTING
0386	0222	0460		B	@LABD5	
	0224	008E				
0387			*			
0388	0226	1D43	LABS58	SBD	FFWD	STOP FAST FORWARD
	01DC	1624				
0389	0228	1D44		SBD	REWD	STOP REWIND
0390	022A	1E0F		SBZ	GOTDFG	RESET GOTO FLAG
0391	022C	0460		B	@LABD5	
	022E	008E				
0392			*		END OF FUNCTION	
0393			*			
0394			*			
0395			*			
0396			*			
0397			*		RECORDING KEY FUNCTION	
0398	0230	0201	RECKEY	LI	GENRB1,9	LOAD FUNCTION NUMBER

	0232	0009			
	0064	0230			
0399	0234	1F04		TB	MIPFLG TEST FOR MEMORY INPUT
0400	0236	16--		JNE	LABN2
0401	0238	045A		B	*MEMIPT GO CONTINUE MEMORY INPUT SEQUE
0402	023A	1F06	LABN2	TB	EOTFLG
	0236	1601			
0403	023C	13--		JEQ	ERRORA
0404	023E	1F01		TB	RRLFLG TEST FOR RECORD RELEASE
0405	0240	16--		JNE	ERRORA
0406	0242	0205		LI	MS500,1200 DELAY FOR AUTOSTOP
	0244	04B0			
0407	0246	1F03		TB	RECFLG TEST FOR RECORDING
0408	0248	13--		JEQ	LABS59
0409	024A	1F02		TB	RPSFLG TEST FOR RECORD PAUSE MODE
0410	024C	13--		JEQ	LABD12
0411	024E	1F44		TB	REWD TEST REWIND
0412	0250	16--		JNE	ERRORA
0413	0252	1F43		TB	FFWD TEST IF >> ACTIVE
0414	0254	16--		JNE	ERRORA
0415	0256	1F00		TB	ARMFLG TEST FOR AUTO REWIND FLAG
0416	0258	13--		JEQ	LABD13
0417	025A	C0A0		MOV	@VOLSEL,GENRB2 PICK UP CURRENT SELE
	025C	014E			
0418	025E	0982		SRL	GENRB2,8
0419	0260	0242		ANDI	GENRB2,>0007
	0262	0007			
0420	0264	0282		CI	GENRB2,7 TEST IF 7
	0266	0007			
0421	0268	13--		JEQ	ERRORA
0422	026A	1E47	LABD14	SBZ	DISCPT RESET OUTPUT POINT
0423	026C	1E42		SBZ	TAPOWR TAPE POWER ON
0424	026E	1D02		SBO	RPSFLG SET RECORD PAUSE FLAG
0425	0270	1E0B		SBZ	DSPTIM DISPLAY TAPE COUNTER
0426	0272	C820		MOV	@C2000,@REFCON ALTER FLASH CONSTANT
	0274	0072			
	0276	0000			
0427	0278	C0A0		MOV	@TAPCNT,GENRB2
	027A	0000			
0428	027C	0222		AI	GENRB2,11 TEST IF RECORD IS OVER PREVID
	027E	000B			
0429	0280	8802		C	GENRB2,@RECST
	0282	0000			
0430	0284	11--		JLT	LABS60
0431			LABS61		
0432	0286	1D0C		SBO	DISPUD
0433	0288	0460		B	@LABD5
	028A	008E			
0434	028C	1D0E	LABS60	SBO	DISPON SET DISPLAY ON
	0284	1103			
0435	028E	C820		MOV	@C2000,@FIDCON
	0290	0072			
	0292	007E			
0436	0294	1D0D		SBO	FLSFLG SET FLASHING
0437	0296	10F7		JMP	LABS61

0438			*			
0439	0298 1F00	LABS59	TB	ARMFLG	TEST FOR AUTO REWIND	
	0248**1327					
0440	029A 13--		JEQ	LABD11		
0441	029C 0460	ERRORA	B	@ERROR		
	029E 0074					
	01D0**1365					
	01E0**165D					
	01E4**135B					
	023C**132F					
	0240**162D					
	0250**1625					
	0254**1623					
	0268**1319					
0442			*			
0443	02A0 1E43	LABD13	SBZ	FFWD	START >>	
	0258**1323					
0444	02A2 1E44		SBZ	REWD	START <<	
0445	02A4 C820		MOV	@RECST,@GOTOST	STORE START OF RECORD	
	02A6 0282					
	02A8 0000					
0446	02AA 0208		LI	GOTOPT,LABD15	SET UP RETURN POINT	
	02AC ----					
0447	02AE 1D0A		SBO	FFWFLG		
0448	02B0 1D0F		SBO	GOTDFG	SET GOTO FLAG	
0449	02B2 1D09		SBO	FUNFLG	SET FUNCTION FLAG	
0450	02B4 0460		B	@LABB8	GO ERASE UNTIL START OF RECORD	
	02B6 00F4					
0451	02B8 0460	LABB2A	B	@LABB2		
	02BA 0000					
0452			*			
0453	02BC 1F43	LABD15	TB	FFWD	TEST IF STOPPED >>	
	02AC**02BC					
0454	02BE 16FC		JNE	LABB2A		
0455	02C0 1F44		TB	REWD	TEST IF << STOPPED	
0456	02C2 16FA		JNE	LABB2A		
0457	02C4 1E0F		SBZ	GOTDFG	AT START OF RECORDING	
0458	02C6 1E00		SBZ	ARMFLG	RESET AUTO REWIND FLAG	
0459			*			
0460	02C8 C820	LABD17	MOV	@C2000,@REFCON		
	02CA 0072					
	02CC 0276					
0461	02CE 1D02		SBO	RPSFLG	SET RECORD PAUSE MODE	
0462	02D0 0460		B	@LABD5		
	02D2 008E					
0463			*			
0464	02D4 1D45	LABD11	SBO	REC DSP	SET RECORD DISPLAY	
	029A**131C					
0465	02D6 1E03		SBZ	RECFLG	RESET RECORD FLAG	
0466	02D8 0202		LI	GENRB2,3500	SET 3500 MS DELAY	
	02DA 0DAC					
0467	02DC 0209		LI	FTNPT,LABD16	LOAD RETURN POINT	
	02DE ----					
0468		DLYUE				
0469	02E0 0460		B	@DLYUD		


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0463
0464 02D4 1D45 LABD11 SBO RECDSP SET RECORD DISPLAY
      029A**131C
0465 02D6 1E03 SBZ RECFLG RESET RECORD FLAG
0466 02D8 0202 LI GENRB2,3500 SET 3500 MS DELAY
      02DA 0DAC
0467 02DC 0209 LI FTNPT,LABD16 LOAD RETURN POINT
      02DE ----
0468
0469 02E0 0460 B @DLYUD

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      02E2 00EE'
0470 LABTSP
0471 02E4 0209 LI FTNPT,LABD16
      02E6 ----
0472 02E8 0202 LI GENRB2,20
      02EA 0014
0473 02EC 10F9 JMP DLYUE
0474 02EE C060 LABD16 MOV @REMC,GENRB1 TEST FOR KEY SPACE
      02F0 0094'
      02DE**02EE'
      02E6**02EE'
0475 02F2 16F8 JNE LABTSP CONTINUE TO ERASE TAPE
0476 02F4 C060 MOV @LOC3,GENRB1 UNTIL KEY HAS BEEN RAISED
      02F6 009A'
0477 02F8 16F5 JNE LABTSP CONTINUE TO ERASE TAPE
0478 02FA 1D02 SBO RPSFLG
0479 02FC 1D43 SBO FFWD SWITCH OFF 77
0480 02FE 1D44 SBO REWD SWITCH OFF <<
0481 0300 10E3 JMP LABD17
0482
0483 0302 1E43 LABD12 SBZ FFWD START >>
      024C**135A
0484 0304 1E44 SBZ REWD START <<
0485 0306 1E45 SBZ RECDSP RESET RECORD DISPLAY
0486 0308 1E02 SBZ RPSFLG RESET RECORD PAUSE FLAG
0487 030A 1D03 SBO RECFLG SET RECORD FLAG
0488 030C 1D00 SBO ARWFLG SET AUTO REWIND FLAG
0489 030E 1E0D SBZ FLSFLG
0490 0310 C820 MOV @TAPCNT,@RECST STORE START OF RECORD
      0312 027A'
      0314 02A6'
0491 0316 1D0A SBO FFWFLG TAPE COUNTER INCREMENTS
0492 0318 0460 B @LABD5
      031A 008E'
0493
0494 * END OF FUNCTION
      END

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0000 ERRORS

ASM/TERM?