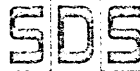


		REVISIONS			12	3	F
LAL	REV.	DESCRIPTION	CHK	DATE	APPROVED		
		SEE RESERVE E.O. RELEASE TO M.F. ON E. REV.	B	3/12/69			
X	F	SEE REV E.O. REVISED & REDRAWING					

124

NO. REQ.	DRAWING NO.	DESCRIPTION	REFERENCE DESIGNATION	ITEM NO.
MATERIAL LIST				
NOTES UNLESS SPECIFIED		DRAWN	L. Naylor	5/26/66
1. TOLERANCES .XX ±.030 ANGULAR .XXX ±.010 ±1/2°		CHECK	R. W. Gish	7/6/6
2. BREAK ALL SHARP EDGES .010 APPROX.		APPR.	L. M. Anderson	7/9/6
3. MACH. SURFACES ✓		<div style="text-align: center;">  SANTA MONICA, CALIFORNIA TITLE EQUATION, LOGIC IOP (COVER SHEET) </div>		
4. ALL DIM. IN INCHES				
MODEL NO.	8471	SIZE	DWG. NO.	CHANGE LETTER
NEXT ASSY.	117610	A	123653 (CHARTED)	F
SCALE		DO NOT SCALE DRAWING		SHEET 1 OF 2

NOTES:

1. This document consists of the following parts:

-001 Logic Equations sheets 123

-100 Signal Dictionary sheets 28

~~-111 Load List sheets 151 pages~~

TITLE	EQUATION, LOGIC IOP (LAST COVER SHEET)	SDS	
		123653 (CHARTED)	F
		SHEET 2 OF 2	

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS											
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	C/F

0004156 W/BA007-2/7
 0004157 W/BA007-2/8
 0004113 K/BA007-3/
 0004158 W/BA007-3/1
 0004129 L/BA007-3/1
 0004159 W/BA007-3/2
 0004130 L/BA007-3/2
 0004160 W/BA007-3/3
 0004131 L/BA007-3/3
 0004161 W/BA007-3/4
 0004132 L/BA007-3/4
 0004162 W/BA007-3/5
 0004133 L/BA007-3/5
 0004163 W/BA007-3/6
 0004164 W/BA007-3/7
 0004165 W/BA007-3/8
 0004200 BA1
 0004300 BA10
 0004400 BA11
 0004500 BA12
 0004600 BA13
 0004700 BA14
 0004800 BA15
 0004900 BA2
 0005000 BA3
 0005100 BA4
 0005200 BA5
 0005300 BA6
 0005400 BA7
 0005500 BA8
 0005510 K/BA815-0/
 0005534 W/BA815-0/1
 0005514 L/BA815-0/1
 0005535 W/BA815-0/2
 0005515 L/BA815-0/2
 0005536 W/BA815-0/3
 0005516 L/BA815-0/3
 0005537 W/BA815-0/4
 0005517 L/BA815-0/4
 0005538 W/BA815-0/5
 0005518 L/BA815-0/5
 0005539 W/BA815-0/6
 0005540 W/BA815-0/7
 0005541 W/BA815-0/8
 0005511 K/BA815-1/
 0005542 W/BA815-1/1
 0005519 L/BA815-1/1
 0005543 W/BA815-1/2
 0005520 L/BA815-1/2
 0005544 W/BA815-1/3
 0005521 L/BA815-1/3

123553-100
03/15/75

CODE	LINE NO.	LOGIC	EQUATIONS	PINS	REMARKS
1	2	8	9	10	15
1	2	8	9	10	15
0005545		W/BA815-1/4			
0005522		L/BA815-1/4			
0005546		W/BA815-1/5			
0005523		L/BA815-1/5			
0005547		W/BA815-1/6			
0005548		W/BA815-1/7			
0005549		W/BA815-1/8			
0005512		K/BA815-2/			
0005550		W/BA815-2/1			
0005524		L/BA815-2/1			
0005551		W/BA815-2/2			
0005525		L/BA815-2/2			
0005552		W/BA815-2/3			
0005526		L/BA815-2/3			
0005553		W/BA815-2/4			
0005527		L/BA815-2/4			
0005554		W/BA815-2/5			
0005528		L/BA815-2/5			
0005555		W/BA815-2/6			
0005556		W/BA815-2/7			
0005557		W/BA815-2/8			
0005513		K/BA815-3/			
0005558		W/BA815-3/1			
0005529		L/BA815-3/1			
0005559		W/BA815-3/2			
0005530		L/BA815-3/2			
0005560		W/BA815-3/3			
0005531		L/BA815-3/3			
0005561		W/BA815-3/4			
0005532		L/BA815-3/4			
0005562		W/BA815-3/5			
0005533		L/BA815-3/5			
0005563		W/BA815-3/6			
0005564		W/BA815-3/7			
0005565		W/BA815-3/8			
0005600		BA9			
0005700		BA9ADD			
0005800		NSAXADD			
0005900		BC0			
0006000		NSC0			
0005910		K/BC007-0/			
0005934		W/BC007-0/1			
0005914		L/BC007-0/1			
0005935		W/BC007-0/2			
0005915		L/BC007-0/2			
0005936		W/BC007-0/3			
0005916		L/BC007-0/3			
0005937		W/BC007-0/4			
0005917		L/BC007-0/4			
0005938		W/BC007-0/5			
0005918		L/BC007-0/5			

123553-100
03/10

C/

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
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123553-100
 03/19/69

C/L
 F
 1/69

0006700	BC15
0006800	NBC15
0006900	BC2
0007000	BC3
0007100	BC4
0007200	BC5
0007300	BC6
0007400	NBC6
0007500	BC7
0007600	BC8
0007610	K/BC815-0/
0007634	W/BC815-0/1
0007614	L/BC815-0/1
0007635	W/BC815-0/2
0007615	L/BC815-0/2
0007636	W/BC815-0/3
0007616	L/BC815-0/3
0007637	W/BC815-0/4
0007617	L/BC815-0/4
0007638	W/BC815-0/5
0007618	L/BC815-0/5
0007639	W/BC815-0/6
0007640	W/BC815-0/7
0007641	W/BC815-0/8
0007611	K/BC815-1/
0007642	W/BC815-1/1
0007619	L/BC815-1/1
0007643	W/BC815-1/2
0007620	L/BC815-1/2
0007644	W/BC815-1/3
0007621	L/BC815-1/3
0007645	W/BC815-1/4
0007622	L/BC815-1/4
0007646	W/BC815-1/5
0007623	L/BC815-1/5
0007647	W/BC815-1/6
0007648	W/BC815-1/7
0007649	W/BC815-1/8
0007612	K/BC815-2/
0007650	W/BC815-2/1
0007624	L/BC815-2/1
0007651	W/BC815-2/2
0007625	L/BC815-2/2
0007652	W/BC815-2/3
0007626	L/BC815-2/3
0007653	W/BC815-2/4
0007627	L/BC815-2/4
0007654	W/BC815-2/5
0007628	L/BC815-2/5
0007655	W/BC815-2/6
0007656	W/BC815-2/7

SDS

SCIENTIFIC DATA SYSTEMS
SANTA MONICA, CALIFORNIA

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
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13
123553-100
03712763

0027596 GND14B16
 0027627 GND14C16
 0027659 GND14D16
 0027660 GND15D16
 0027565 GND16A16
 0027661 GND16D16
 0027662 GND17D16
 0027567 GND18A16
 0027663 GND18D16
 0027664 GND19D16
 0027633 GND20C16
 0027665 GND20D16
 0027602 GND21B16
 0027666 GND21D16
 0027571 GND22A16
 0027603 GND22B32
 0027667 GND22D16
 0027572 GND23A32
 0027604 GND23B32
 0027636 GND23C16
 0027668 GND23D16
 0027605 GND24B16
 0027637 GND24C16
 0027669 GND24D16
 0027574 GND25A16
 0027638 GND25C16
 0027670 GND25D16
 0027639 GND26C16
 0027671 GND26D16
 0027640 GND27C16
 0027672 GND27D16
 0027641 GND28C16
 0027573 GND28D16
 0027642 GND29C16
 0027674 GND29D16
 0027643 GND30C16
 0027575 GND30D16
 0027580 GND31A16
 0027581 GND32A16
 0027700 HO
 0027800 NH0
 0027810 S/H0
 0027820 R/H0
 0027900 NH0F
 0028000 H1
 0028100 NH1
 0028110 S/H1
 0028120 R/H1
 0028200 NH1F
 0028300 H2
 0028400 NH2

SDS

SCIENTIFIC DATA SYSTEMS
SANTA MONICA, CALIFORNIA

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	/	PINS	/	REMARKS	C/L								
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	75

0028410 S/H2
 0028420 R/H2
 0028500 NH2F
 0028600 H3
 0028700 NH3
 0028710 S/H3
 0028720 R/H3
 0028800 H3F
 0028900 H4
 0029000 NH4
 0029010 S/H4
 0029020 R/H4
 0029100 NH4F
 0029200 H5
 0029300 NH5
 0029310 S/H5
 0029320 R/H5
 0029400 H5F
 0029500 H6
 0029600 NH6
 0029610 S/H6
 0029620 R/H6
 0029700 H6F
 0029800 H7
 0029900 NH7
 0029910 S/H7
 0029920 R/H7
 0030000 H7F
 0030050 /HI0/
 0030100 HJX6F
 0030200 NHJX6F
 0030300 HJX0
 0030400 HJX0I
 0030500 HJXM
 0030600 HX0
 0030700 HX0I
 0030900 HXJM1
 0031000 HXJP1
 0031100 I0
 0031200 NI0
 0031300 I02EVEN
 0031400 NI02EVEN
 0031500 I1
 0031600 NI1
 0031700 I2
 0031800 NI2
 0031900 I3
 0032000 NI3
 0032100 I35EVEN
 0032200 NI35EVEN
 0032300 I4

123653-100
03710/65

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	/	PINS	/	REMARKS
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- 0042400 M30
- 0042500 M31
- 0042600 M4
- 0042700 M5
- 0042800 M6
- 0042900 M7
- 0043000 M8
- 0043100 M9
- 0043150 M9-1
- 0043200 MAE
- 0043300 NMAE
- 0043310 S/MAE
- 0043320 R/MAE
- 0043400 NMAEF
- 0043500 MAR
- 0043600 NMAR
- 0043610 S/MAR
- 0043620 R/MAR
- 0043800 MBOXI
- 0043900 MB1XI
- 0044000 MB2XI
- 0044100 MB3XI
- 0044200 MCD1
- 0044300 MD0
- 0044400 MD1
- 0044500 MD10
- 0044600 MD11
- 0044700 MD12
- 0044800 MD13
- 0044900 MD14
- 0045000 MD15
- 0045100 MD16
- 0045200 MD17
- 0045300 MD18
- 0045400 MD19
- 0045500 MD2
- 0045600 MD20
- 0045700 MD21
- 0045800 MD22
- 0045900 MD23
- 0046000 MD24
- 0046100 MD25
- 0046200 MD26
- 0046300 MD27
- 0046400 MD28
- 0046500 MD29
- 0046600 MD3
- 0046700 MD30
- 0046800 MD31
- 0046900 MD4
- 0047000 MD5

123653-100
15
03/70

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS											
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	C/L
	0047100		MD6														
	0047200		MD7														
	0047300		MD8														
	0047400		MD9														
	0047900		MDR1														
	0048000		NMDR1														
	0048010		S/MDR1														
	0048020		R/MDR1														
	0048200		ME														
	0048230		NME														
	0035500		MIXMB														
	0048400		NMLX0-0														
	0048500		NMLX0-1														
	0048300		NMLX0I														
	0048600		MPE														
	0048700		NMPE														
	0048710		S/MPE														
	0048720		R/MPE														
	0048800		MPEF														
	0048900		MQ														
	0048920		/MQX/														
	0049000		MS														
	0049100		NMS														
	0049110		S/MS														
	0049120		R/MS														
	0049050		MS-1														
	0049200		NMSF														
	0049300		MSSET														
	0049500		NMUX0-0														
	0049600		NMUX0-1														
	0049400		NMUX0I														
	0049674		/MW0X/														
	0049676		/MW1X/														
	0049678		/MW2X/														
	0049680		/MW3X/														
	0049603		/MX0/														
	0049605		/MX1/														
	0049623		/MX10/														
	0049625		/MX11/														
	0049627		/MX12/														
	0049629		/MX13/														
	0049631		/MX14/														
	0049633		/MX15/														
	0049635		/MX16/														
	0049637		/MX17/														
	0049639		/MX18/														
	0049641		/MX19/														
	0049607		/MX2/														
	0049643		/MX20/														
	0049645		/MX21/														
	0049647		/MX22/														

123553-100
03/12/70

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
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123553-100
03710/63

0049649 /MX23/
 0049651 /MX24/
 0049653 /MX25/
 0049655 /MX26/
 0049657 /MX27/
 0049659 /MX28/
 0049661 /MX29/
 0049609 /MX3/
 0049663 /MX30/
 0049665 /MX31/
 0049611 /MX4/
 0049613 /MX5/
 0049615 /MX6/
 0049617 /MX7/
 0049619 /MX8/
 0049621 /MX9/
 0049700 MXA
 0049800 NMxADD
 0049900 MXADD=0
 0050000 MXADD=1
 0050200 MXBC=0
 0050300 MXBC=1
 0050400 MXFR
 0050500 MXIS
 0050600 NMxIS
 0050700 NMxM
 0050800 MXM=0
 0050900 MXM=1
 0051000 MXM=2
 0051100 MXM=3
 0051150 MYNUM
 0051200 00
 0051300 00T0S
 0051400 01
 0051500 01T0S
 0051600 02
 0051700 03
 0051800 04
 0051900 04T0S
 0052000 05
 0052100 06
 0052200 07
 0052300 0F0
 0052310 K/0F007-0/
 0052334 W/0F007-0/1
 0052314 L/0F007-0/1
 0052335 W/0F007-0/2
 0052315 L/0F007-0/2
 0052336 W/0F007-0/3
 0052316 L/0F007-0/3
 0052317 L/0F007-0/4

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70
				SIGNA	I	0	1	0	1	0	1	0	1	0	1	0
0052338			W	BF007-0/5												
0052318			L	BF007-0/5												
0052339			W	BF007-0/6												
0052340			W	BF007-0/7												
0052341			W	BF007-0/8												
0052337			W	BF007-0/4												
0052311			K	BF007-1/												
0052342			W	BF007-1/1												
0052319			L	BF007-1/1												
0052343			W	BF007-1/2												
0052320			L	BF007-1/2												
0052344			W	BF007-1/3												
0052321			L	BF007-1/3												
0052345			W	BF007-1/4												
0052322			L	BF007-1/4												
0052346			W	BF007-1/5												
0052323			L	BF007-1/5												
0052347			W	BF007-1/6												
0052348			W	BF007-1/7												
0052349			W	BF007-1/8												
0052355			W	BF007-2/												
0052312			K	BF007-2/												
0052350			W	BF007-2/1												
0052324			L	BF007-2/1												
0052351			W	BF007-2/2												
0052325			L	BF007-2/2												
0052352			W	BF007-2/3												
0052326			L	BF007-2/3												
0052353			W	BF007-2/4												
0052327			L	BF007-2/4												
0052354			W	BF007-2/5												
0052328			L	BF007-2/5												
0052356			W	BF007-2/7												
0052357			W	BF007-2/8												
0052313			K	BF007-3/												
0052358			W	BF007-3/1												
0052329			L	BF007-3/1												
0052359			W	BF007-3/2												
0052330			L	BF007-3/2												
0052360			W	BF007-3/3												
0052331			L	BF007-3/3												
0052361			W	BF007-3/4												
0052332			L	BF007-3/4												
0052362			W	BF007-3/5												
0052333			L	BF007-3/5												
0052363			W	BF007-3/6												
0052364			W	BF007-3/7												
0052365			W	BF007-3/8												
0052400				BF1												
0052500				BF2												
0052600				BF3												

123653-100
0371275

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS																
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100

0056900 PH13PD1
 0057000 PH13T0
 0057100 PH14D1
 0057200 PH14PD1
 0057300 PH1D1
 0057400 PH1D1S0
 0057500 PH1D2
 0057600 PH1D2D1
 0057700 PH1D2PD1
 0057800 PH1D4D1
 0057900 PH1PD1
 0058000 NPH1PD1
 0058100 PH1PD2
 0058200 NPH1PD2
 0058300 PH1T2D1
 0058400 PH1T2D2
 0058500 PH2D1
 0058600 PH2D1S0
 0058700 PH2D1S1
 0058800 PH2D2
 0058900 NPH2D2
 0058910 S/PH2D2
 0058920 R/PH2D2
 0059000 PH2D2F
 0059100 PH2PD1
 0059200 NPH2PD1
 0059300 PH2PD2
 0059400 PH2T0D1
 0059500 PH2T0D2
 0059600 PH2T1D2
 0059700 NPH2T1D2
 0059900 NPH2T2D1
 0060000 PH2T2D2
 0060100 NPH2T2D2
 0060200 PH3D1
 0060300 PH3D1S0
 0060400 PH3PD1
 0060600 PH4D1
 0060700 PH4D1S0
 0060800 PH4PD1
 0060900 PH4T0D1
 0061000 PH4T1D1
 0061100 PH5D1
 0061150 PH5D1-1
 0061200 PH5D1S0
 0061300 PH5D1S1
 0061400 PH5PD1
 0061500 PH6D1
 0061600 PH6D1S0
 0061700 PH6PD1
 0061800 PH6T0D1

123553
100
0371
759

SDS

SCIENTIFIC DATA SYSTEMS
SANTA MONICA, CALIFORNIA

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS																	
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	
	0061900			PH7D1																			
	0062000			PH7D1S0																			
	0062100			PH7PD1																			
	0062200			PH7T1D1																			
	0062300			NPH7T1D1																			
	0062400			NPHD1X0																			
	0062450			NPHPD1X0																			
	0062500			PLD1																			
	0062520			NPLD1																			
	0062530			S/PLD1																			
	0062540			R/PLD1																			
	0062700			PLD2																			
	0062720			NPLD2																			
	0062730			S/PLD2																			
	0062740			R/PLD2																			
	0062900			PLED1																			
	0063000			PLED1I																			
	0063100			PLED2																			
	0063200			PLED2I																			
	0063255			/PLKX/																			
	0063300			PR																			
	0063350			NPR																			
	0063310			/PR/																			
	0063400			PR1																			
	0063500			NPR1																			
	0063600			PR1F																			
	0063700			PR2																			
	0063800			NPR2																			
	0063810			S/PR2																			
	0063820			R/PR2																			
	0063950			NPR2-1																			
	0064000			NPR2F																			
	0064100			PRCH																			
	0064200			NPRCH																			
	0064210			S/PRCH																			
	0064220			R/PRCH																			
	0063510			S/PRI																			
	0063520			R/PRI																			
	0062910			PWD1																			
	0063110			PWD2																			
	0064600			RESET																			
	0064700			NRESET																			
	0064650			RESET=1																			
	0064800			RI0																			
	0064810			/RI0/																			
	0064900			RS																			
	0065000			NRS																			
	0064910			/RS/																			
	0065100			RSA																			
	0065110			/RSA/																			
	0065200			RSA1																			

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	/	PINS	/	REMARKS	
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SIGMA 1-0 W P 9 8471

12365325
100
3371476

C/L
F

- 0065300 NRSA1
- 0065310 S/RSA1
- 0065320 R/RSA1
- 0065400 NRSA1F
- 0065500 RSA2
- 0065600 NRSA2
- 0065610 S/RSA2
- 0065620 R/RSA2
- 0065800 RSA2F
- 0065750 /RST/
- 0065900 S15
- 0066000 S16
- 0066800 S17
- 0066900 S18
- 0067000 S19
- 0067100 S20
- 0067200 S21
- 0067300 S22
- 0067400 S23
- 0067500 S24
- 0066100 S25
- 0066200 S26
- 0066300 S27
- 0066400 S28
- 0066500 S29
- 0066600 S30
- 0066700 S31
- 0067600 SC
- 0067610 /SC/
- 0067615 SENSE0D1
- 0067660 SENSE0D2
- 0067620 SENSE1D1
- 0067670 SENSE1D2
- 0067630 SENSE2D1
- 0067680 SENSE2D2
- 0067640 SENSE3D1
- 0067690 SENSE3D2
- 0067650 SENSE4D1
- 0067695 SENSE4D2
- 0067655 SENSE5D1
- 0067697 SENSE5D2
- 0067612 I/SENSED1
- 0067657 I/SENSED2
- 0067611 /S10/
- 0067698 SPA1
- 0067699 SPA2
- 0067700 SPA3=0
- 0067800 NSPA3=0
- 0067900 SPA3=1
- 0068000 NSPA3=1
- 0068200 SPA4=0

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
1	2	3	4	5	6	7
			NSPA4-0			
			SPA4-1			
			NSPA4-1			
			SPA5-0			
			NSPA5-0			
			SPA5-1			
			NSPA5-1			
			SPA6-0			
			SPA6-1			
			SPA7-0			
			SPA7-1			
			SUB			
			NSUB			
			S/SUB			
			R/SUB			
			SUB-1			
			SUB-2			
			SUB-3			
			SUB-4			
			NSUBF			
			NSX0-0			
			NSX0-1			
			SX20			
			Sx20I			
			NSxBA			
			SXBA-0			
			S/SXBA-0			
			R/SXBA-0			
			SxBA-1			
			SXBAF			
			T0D1			
			I/T0D1			
			T0D1-00			
			T0D1-10			
			T0D1-20			
			T0D1-30			
			T0D2			
			NT0D2			
			T1D1			
			I/T1D1			
			T1D1-00			
			T1D1-10			
			T1D1-20			
			T1D1-30			
			T1D1D			
			T1D2			
			T2D1			
			I/T2D1			
			T2D1-00			
			T2D1-10			
			T2D1-20			

123553-100
03712

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	/	PINS	/	REMARKS
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123653-100
27
03/16/76

0071395 T2D2
 0071420 I/T2D2
 0071400 T2D2-0
 0071550 T3D1
 0071600 NT3D1
 0071520 I/T3D1
 0071500 T3D1-00
 0071510 T3D1-10
 0071700 T3D2
 0071800 NT3D2
 0071850 T4D1
 0071990 I/T4D1
 0071900 T4D1-0
 0071925 T4D1-10
 0071950 T4D1-20
 0071975 T4D1-30
 0072100 T4D2
 0072180 /T0V/
 0072150 /T1B/
 0072300 T0RD
 0072400 NT0RD
 0072500 TPE
 0072600 NTPE
 0072610 S/TPE
 0072620 R/TPE
 0072700 TPEF
 0073251 /NTR/
 0072800 TRA
 0072900 NTRA
 0073000 TRA1
 0073100 NTRA1
 0073110 S/TRA1
 0073120 R/TRA1
 0073200 NTRA1F
 0073250 TRR
 0073300 UN0
 0073350 NUN0
 0073400 UN1
 0073450 NUN1
 0073500 UN2
 0073550 NUN2
 0048260 V8NABC
 0048261 V8NABC
 0048270 V8ND
 0048271 V8ND
 0048272 V8ND
 0048273 V8ND
 0073600 W0
 0073700 W1
 0073800 W2
 0073900 W3

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CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/L										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	
	*		AND														
	*		DIRECT INPUT														
	CI		CABLE INPUT														
	+		OR														
	B		BUFFER AMPLIFIER														
	-BDS		BUFFERED DELAY LINE SENSOR														
	-CD		BUFFERED CABLE DRIVER														
	-CLD		CLOCK DRIVER														
	CO		CABLE OUTPUT														
	-CR		BUFFERED CABLE RECEIVER														
	-DL		DELAY LINE TAP														
	-FB		BUFFERED LATCH FLIP-FLÖP (SET)														
	-FBF		BUFFERED LATCH FAST														
	FF		STANDARD J/K FLIP-FLÖP (SET)														
	FN		NAND FLIP-FLÖP (SET)														
	FR		REPEATER FLIP-FLÖP (SET)														
	-GND		GROUND INDICATOR														
	-HSM		HIGH SPEED MEMORY ELEMENT														
	I		INVERTING AMPLIFIER														
	-IDS		INVERTING DELAY LINE SENSOR														
	-NFB		BUFFERED LATCH FLIP-FLÖP (RESET)														
	NFF		STANDARD J/K FLIP-FLÖP (RESET)														
	NFN		NAND FLIP-FLÖP (RESET)														
	NFR		REPEATER FLIP-FLÖP (RESET)														
	-NS		NO SOURCE INDICATOR														
	-SC		SWITCH COMPARTOR														

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/I
1	2	9					
0			*TD	TIME DELAY ELEMENT			
6			*VS	VOLTAGE SPECIAL			

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/L										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	
R	0000350		NA0-1	=I	.A0												00
	0000350					20B10,09,	10-08C20T										00
R	0000400		A1	=B*	+ .NAX0	.A1											00
	0000400					22B27X,\$,\$,	23X,27X										00
	0000401					+ .FR1	.AXFR										00
R	0000401					22B\$,28,	18X										00
	0000402					+ .M1	.AXM										00
R	0000402					22B\$,29,	22X										00
R	0000450		NA1	=I	.A1												00
	0000450					20B35,39,	33X,35-32B02T										00
R	0000500		A2	=B*	+ .NAX0	.A2											00
	0000500					22B12X,\$,\$,	23X,12X										00
	0000501					+ .FR2	.AXFR										00
R	0000501					22B\$,11,	18X										00
	0000502					+ .M2	.AXM										00
R	0000502					22B\$,10,	22X										00
R	0000600		A3	=B*	+ .NAX0	.A3											00
	0000600					22B14X,\$,\$,	23X,14X										00
	0000601					+ .FR3	.AXFR										00
R	0000601					22B\$,15,	18X										00
	0000602					+ .M3	.AXM										00
R	0000602					22B\$,17,	22X										00
R	0000700		A4	=B*	+ .NAX0	.A4											00
	0000700					22B21X,\$,\$,	30X,21X,21X-32B03T										00
	0000701					+ .FR4	.AXFR										00
R	0000701					22B\$,20,	13X										00
	0000702					+ .M4	.AXM										00
R	0000702					22B\$,19,	05X										00
R	0000800		NA4	=I	.A4												00
	0000800					20B45,43,	50X,45-32B04T										00
R	0000900		A5	=B*	+ .NAX0	.A5											00
	0000900					22B46X,\$,\$,	30X,46X,46X-32B05T										00
	0000901					+ .FR5	.AXFR										00
R	0000901					22B\$,47,	13X										00
	0000902					+ .M5	.AXM										00
R	0000902					22B\$,50,	05X										00
R	0001000		NA5	=I	.A5												00
	0001000					20B44,42,	50X,44-32B06T										00

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/									
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70
	0001100		A6	=B* +.NAXO	.A6											
P	0001100			22B09X, \$, \$, 30X, 09X, 09X-32B07T												
	0001101			+ .FR6	.AXFR											
P	0001101			22B\$, 08,	13X											
	0001102			+ .M6	.AXM											
P	0001102			22B\$, 06,	05X											
	0001200		NA6	=I .A6	.											
P	0001200			20B46, 30,	50X, 46-32B08T											
	0001300		A7	=B* +.NAXO	.A7											
P	0001300			22B07X, \$, \$, 30X, 07X, 07X-32B09T												
	0001301			+ .FR7	.AXFR											
P	0001301			22B\$, 04,	13X											
	0001302			+ .M7	.AXM											
P	0001302			22B\$, 03,	05X											
	0001400		NA7	=I .A7	.											
P	0001400			20B47, 31,	50X, 47-32B10T											
	0001600		ADD0	=B* +.K0												
P	0001600			31B37X, \$, \$, 31X, 37X-10D01T-32C01C-32D01C												
	0001601			+ .C0												
P	0001601			31B\$, 29X												
	0001602			I* +.K0	.C0											
P	0001602			31B37X, \$, \$, 31X, 29X												
	0001700		ADD1	=B* +.K1												
P	0001700			31B38X, \$, \$, 41X, 38X-10D02T-32C02C-32D02C												
	0001701			+ .C1												
P	0001701			31B\$, 21X												
	0001702			I* +.K1	.C1											
P	0001702			31B38X, \$, \$, 41X, 21X												
	0001800		ADD10	=B* +.K10												
P	0001800			27B38X, \$, \$, 41X, 38X-10D11T-32C11C-32D11D												
	0001801			+ .C10												
P	0001801			27B\$, 21X												
	0001802			I* +.K10	.C10											
P	0001802			27B38X, \$, \$, 41X, 21X												
	0001900		ADD11	=B* +.K11												
P	0001900			27B34X, \$, \$, 44X, 34X-10D12T-32C12C-32D12C												
	0001901			+ .C11												
P	0001901			27B\$, 22X												
	0001902			I* +.K11	.C11											
P	0001902			27B34X, \$, \$, 44X, 22X												

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/L										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	
	0002000		ADD12	=B* +.K12													
P	0002000			26B37X, \$, \$, 31X, 37X-10D13T-32C13C-32D13C													3
	0002001			+ .C12													3
P	0002001			26B\$, 29X													3
	0002002			I* +.K12 .C12													3
P	0002002			26B37X, \$, \$, 31X, 29X													3
	0002100		ADD13	=B* +.K13													
P	0002100			26B38X, \$, \$, 41X, 38X-10D14T-32C14C-32D14C													3
	0002101			+ .C13													3
P	0002101			26B\$, 21X													3
	0002102			I* +.K13 .C13													3
P	0002102			26B38X, \$, \$, 41X, 21X													3
	0002200		ADD14	=B* +.K14													
P	0002200			26B34X, \$, \$, 44X, 34X-10D15T-32C15C-32D15C													3
	0002201			+ .C14													3
P	0002201			26B\$, 22X													3
	0002202			I* +.K14 .C14													3
P	0002202			26B34X, \$, \$, 44X, 22X													3
	0002300		ADD15	=B* +.NK15													
P	0002300			26B39X, \$, \$, 46X, 39X-10D17T-32C17C-32D17C													3
	0002301			+ .NC15F													3
P	0002301			26B\$, 45X													3
	0002302			I* +.NK15 .NC15F													3
P	0002302			26B39X, \$, \$, 46X, 45X													3
	0002400		ADD2	=B* +.K2													
P	0002400			31B34X, \$, \$, 44X, 34X-10D03T-32C03C-32D03C													3
	0002401			+ .C2													3
P	0002401			31B\$, 22X													3
	0002402			I* +.K2 .C2													3
P	0002402			31B34X, \$, \$, 44X, 22X													3
	0002500		ADD3	=B* +.K3													
P	0002500			30B37X, \$, \$, 31X, 37X-10D04T-32C04C-32D04C													3
	0002501			+ .C3													3
P	0002501			30B\$, 29X													3
	0002502			I* +.K3 .C3													3
P	0002502			30B37X, \$, \$, 31X, 29X													3
	0002600		ADD4	=B* +.K4													
P	0002600			30B38X, \$, \$, 41X, 38X-10D05T-32C05C-32D05C													3
	0002601			+ .C4													3
P	0002601			30B\$, 21X													3
	0002602			I* +.K4 .C4													3
P	0002602			30B38X, \$, \$, 41X, 21X													3

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/I
1	2 3 4 5 6 7 8	9	10 11 12 13 14 15 16 17 18 19	20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40	41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60	61 62 63 64 65 66 67 68 69 70	
P	0002700		ADD5	=B* +.K5			
P	0002700			30B34X, \$, \$, 44X, 34X-10D06T-32C06C-32D06C			
P	0002701			+ .C5			
P	0002701			30B34X, 22X			
P	0002702			I* +.K5 .C5			
P	0002702			30B34X, \$, \$, 44X, 22X			
P	0002800		ADD6	=B* +.K6			
P	0002800			29B37X, \$, \$, 31X, 37X-10D07T-32C07C-32D07C			
P	0002801			+ .C6			
P	0002801			29B37X, 29X			
P	0002802			I* +.K6 .C6			
P	0002802			29B37X, \$, \$, 31X, 29X			
P	0002900		ADD7	=B* +.K7			
P	0002900			29B38X, \$, \$, 41X, 38X-10D08T-32C08C-32D08C			
P	0002901			+ .C7			
P	0002901			29B38X, 21X			
P	0002902			I* +.K7 .C7			
P	0002902			29B38X, \$, \$, 41X, 21X			
P	0003000		ADD8	=B* +.K8			
P	0003000			29B34X, \$, \$, 44X, 34X-10D09T-32C09C-32D09C			
P	0003001			+ .C8			
P	0003001			29B34X, 22X			
P	0003002			I* +.K8 .C8			
P	0003002			29B34X, \$, \$, 44X, 22X			
P	0003100		ADD9	=B* +.K9			
P	0003100			27B37X, \$, \$, 31X, 37X-10D10T-32C10C-32D10C			
P	0003101			+ .C9			
P	0003101			27B37X, 29X			
P	0003102			I* +.K9 .C9			
P	0003102			27B37X, \$, \$, 31X, 29X			
P	0003200		AH	=-CR */AHX/			
P	0003200			10A06, \$,			
P	0003250		/AHX/	=-CD *GND10A32			
P	0003250			10A\$, 02			
P	0003300		NAH	=I .AH			
P	0003300			17A41, 38, 33X, 41-07A01T			
P	0003395		/A16/	=-CD *F0			
P	0003395			14C\$, 25			
P	0003400		A16FN	=B .FNCO .FNC1 .NFNC2			
P	0003400			03C37, 50, 46, 41, 37-15C01T			

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/I
	1	2	3	4	5	6	7
	8	9	10	11	12	13	14
	15	16	17	18	19	20	21
	22	23	24	25	26	27	28
	29	30	31	32	33	34	35
	36	37	38	39	40	41	42
	43	44	45	46	47	48	49
	50	51	52	53	54	55	56
	57	58	59	60	61	62	63
	64	65	66	67	68	69	70
P	0003500		NAIBFN	=I .AIBFN	.		
P	0003500			02C36,37,	33X,36-07A03T		
P	0003600		AR	==CR */ARX/			
P	0003600			10A08,\$			
P	0003610		/AVθ/	==NS			
P	0003610						
P	0003615		AVθ	==CR */AVθ/			
P	0003615			01D08,\$,08-09C08C-09D08C-04B17T			
P	0003625		/ASC/	==CD *F1			
P	0003625			14C\$,33			
P	0003650		/ARX/	==CD *GND10A32			
P	0003650			10A\$,03			
P	0003700		NAXO	=I .PH2T0D2	.		
P	0003700			16B13,04,	08,13-32B01T		
P	0003800		AXFR	=I .NCM010	.NAXFR		
P	0003800			16B46,40,	41,46-32B11T		
P	0003900		NAXFR	=I .PH2T1D2	.F1		
P	0003900			16B02,03,	09,02-15C02T		
P	0004000		AXM	=I .NPH10T0	.		
P	0004000			17B45,43,	50X,45-32B12T		
P	0004100		BA0	==HSM			
P	0004100			23D43,43-32B13T-32D25C-32C25C			
P	0004101			=HSM			
P	0004101			24D43			
P	0004102			=HSM			
P	0004102			25D43			
P	0004103			=HSM			
P	0004103			26D43			
P	0004110		K/BA007-01	=*BAXADD	.		
P	0004110			23D13,	31		
P	0004111		K/BA007-1/	=*BAXADD	.		
P	0004111			24D13,	31		
P	0004112		K/BA007-2/	=*BAXADD	.		
P	0004112			25D13,	31		
P	0004113		K/BA007-3/	=*BAXADD	.		
P	0004113			26D13,	31		

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/L										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	
P	0004114		L/BA007-0/1	= .NSPA5-0	.NSPA4-0	.NSPA3-0	.	.	.								B
	0004114			23D23,	20X,	21X,	27X,	26X,	22X								B
P	0004115		L/BA007-0/2	= .SPA5-0	.NSPA4-0	.NSPA3-0	.	.	.								B
	0004115			23D25,	20X,	21X,	27X,	26X,	22X								B
P	0004116		L/BA007-0/3	= .LS0													B
	0004116			23D18													B
P	0004117		L/BA007-0/4	= .SPA7-0													B
	0004117			23D29													B
P	0004118		L/BA007-0/5	= .SPA6-0													B
	0004118			23D30													B
P	0004119		L/BA007-1/1	= .NSPA5-0	.NSPA4-0	.SPA3-0	.	.	.								B
	0004119			24D23,	20X,	21X,	27X,	26X,	22X								B
P	0004120		L/BA007-1/2	= .SPA5-0	.NSPA4-0	.SPA3-0	.	.	.								B
	0004120			24D25,	20X,	21X,	27X,	26X,	22X								B
P	0004121		L/BA007-1/3	= .LS0													B
	0004121			24D18													B
P	0004122		L/BA007-1/4	= .SPA7-0													B
	0004122			24D29													B
P	0004123		L/BA007-1/5	= .SPA6-0													B
	0004123			24D30													B
P	0004124		L/BA007-2/1	= .NSPA5-0	.SPA4-0	.NSPA3-0	.	.	.								B
	0004124			25D23,	20X,	21X,	27X,	26X,	22X								B
P	0004125		L/BA007-2/2	= .SPA5-0	.SPA4-0	.NSPA3-0	.	.	.								B
	0004125			25D25,	20X,	21X,	27X,	26X,	22X								B
P	0004126		L/BA007-2/3	= .LS0													B
	0004126			25D18													B
P	0004127		L/BA007-2/4	= .SPA7-0													B
	0004127			25D29													B
P	0004128		L/BA007-2/5	= .SPA6-0													B
	0004128			25D30													B
P	0004129		L/BA007-3/1	= .NSPA5-0	.SPA4-0	.SPA3-0	.	.	.								B
	0004129			26D23,	20X,	21X,	27X,	26X,	22X								B
P	0004130		L/BA007-3/2	= .SPA5-0	.SPA4-0	.SPA3-0	.	.	.								B
	0004130			26D25,	20X,	21X,	27X,	26X,	22X								B

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/
1	2	3	4	5	6	7	8
		9	10	11	12	13	14
			15	16	17	18	19
			20	21	22	23	24
			25	26	27	28	29
			30	31	32	33	34
			35	36	37	38	39
			40	41	42	43	44
			45	46	47	48	49
			50	51	52	53	54
			55	56	57	58	59
			60	61	62	63	64
			65	66	67	68	69
			70				
P	0004131		L/BA007-3/3	=•LS0			
P	0004131			26018			
P	0004132		L/BA007-3/4	=•SPA7-0			
P	0004132			26029			
P	0004133		L/BA007-3/5	=•SPA6-0			
P	0004133			26030			
P	0004134		W/BA007-0/1	=•ADD0			
P	0004134			23035			
P	0004135		W/BA007-0/2	=•ADD1			
P	0004135			23034			
P	0004136		W/BA007-0/3	=•ADD2			
P	0004136			23019			
P	0004137		W/BA007-0/4	=•ADD3			
P	0004137			23012			
P	0004138		W/BA007-0/5	=•ADD4			
P	0004138			23033			
P	0004139		W/BA007-0/6	=•ADD5			
P	0004139			23028			
P	0004140		W/BA007-0/7	=•ADD6			
P	0004140			23017			
P	0004141		W/BA007-0/8	=•ADD7			
P	0004141			23011			
P	0004142		W/BA007-1/1	=•ADD0			
P	0004142			24035			
P	0004143		W/BA007-1/2	=•ADD1			
P	0004143			24034			
P	0004144		W/BA007-1/3	=•ADD2			
P	0004144			24019			
P	0004145		W/BA007-1/4	=•ADD3			
P	0004145			24012			
P	0004146		W/BA007-1/5	=•ADD4			
P	0004146			24033			
P	0004147		W/BA007-1/6	=•ADD5			
P	0004147			24028			

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/L										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	
P	0004148		W/BA007-1/7	=•ADD6													3
	0004148			24D17													3
P	0004149		W/BA007-1/8	=•ADD7													3
	0004149			24D11													3
P	0004150		W/BA007-2/1	=•ADD0													3
	0004150			25D35													3
P	0004151		W/BA007-2/2	=•ADD1													3
	0004151			25D34													3
P	0004152		W/BA007-2/3	=•ADD2													3
	0004152			25D19													3
P	0004153		W/BA007-2/4	=•ADD3													3
	0004153			25D12													3
P	0004154		W/BA007-2/5	=•ADD4													3
	0004154			25D33													3
P	0004155		W/BA007-2/6	=•ADD5													3
	0004155			25D28													3
P	0004156		W/BA007-2/7	=•ADD6													3
	0004156			25D17													3
P	0004157		W/BA007-2/8	=•ADD7													3
	0004157			25D11													3
P	0004158		W/BA007-3/1	=•ADD0													3
	0004158			26D35													3
P	0004159		W/BA007-3/2	=•ADD1													3
	0004159			26D34													3
P	0004160		W/BA007-3/3	=•ADD2													3
	0004160			26D19													3
P	0004161		W/BA007-3/4	=•ADD3													3
	0004161			26D12													3
P	0004162		W/BA007-3/5	=•ADD4													3
	0004162			26D33													3
P	0004163		W/BA007-3/6	=•ADD5													3
	0004163			26D28													3
P	0004164		W/BA007-3/7	=•ADD6													3
	0004164			26D17													3

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/
1	2	3	4	5	6	7	8
	9	10	11	12	13	14	15
	16	17	18	19	20	21	22
	23	24	25	26	27	28	29
	30	31	32	33	34	35	36
	37	38	39	40	41	42	43
	44	45	46	47	48	49	50
	51	52	53	54	55	56	57
	58	59	60	61	62	63	64
	65	66	67	68	69	70	
	0004165		W/BA007-3/8	=•ADD7			
P	0004165			26D11			
	0004200		BA1	=•HSM			
P	0004200			23D41, 41-32B14T-32D26C-32C26C			
	0004201			-HSM			
P	0004201			24D41			
	0004202			-HSM			
P	0004202			25D41			
	0004203			-HSM			
P	0004203			26D41			
	0004300		BA10	=•HSM			
P	0004300			27D09, 09-32B24T-32D36C-32C36C			
	0004301			-HSM			
P	0004301			28D09			
	0004302			-HSM			
P	0004302			29D09			
	0004303			-HSM			
P	0004303			30D09			
	0004400		BA11	=•HSM			
P	0004400			27D02, 02-32B25T-32D37C-32C37C			
	0004401			-HSM			
P	0004401			28D02			
	0004402			-HSM			
P	0004402			29D02			
	0004403			-HSM			
P	0004403			30D02			
	0004500		BA12	=•HSM			
P	0004500			27D45, 45-32B26T-32D38C-32C38C			
	0004501			-HSM			
P	0004501			28D45			
	0004502			-HSM			
P	0004502			29D45			
	0004503			-HSM			
P	0004503			30D45			
	0004600		BA13	=•HSM			
P	0004600			27D46, 46-32B27T-32D39C-32C39C			
	0004601			-HSM			
P	0004601			28D46			
	0004602			-HSM			
P	0004602			29D46			
	0004603			-HSM			
P	0004603			30D46			

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/L
1	2 3 4 5 6 7 8 9	10	11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70				

	0004700		BA14	=-HSM			
P	0004700			27004,04-32B28T-32D40C-32C40C			
	0004701			-HSM			
P	0004701			28004			
	0004702			-HSM			
P	0004702			29004			
	0004703			-HSM			
P	0004703			30004			
	0004800		BA15	=-HSM			
P	0004800			27001,01-32B29T-32D41T-32C41C			
	0004801			-HSM			
P	0004801			28001			
	0004802			-HSM			
P	0004802			29001			
	0004803			-HSM			
P	0004803			30001			
	0004900		BA2	=-HSM			
P	0004900			23009,09-32B15T-32D27C-32C27C			
	0004901			-HSM			
P	0004901			24009			
	0004902			-HSM			
P	0004902			25009			
	0004903			-HSM			
P	0004903			26009			
	0005000		BA3	=-HSM			
P	0005000			23002,02-32B17T-32D28C-32C28C			
	0005001			-HSM			
P	0005001			24002			
	0005002			-HSM			
P	0005002			25002			
	0005003			-HSM			
P	0005003			26002			
	0005100		BA4	=-HSM			
P	0005100			23045,45-32B18T-32D29C-32C29C			
	0005101			-HSM			
P	0005101			24045			
	0005102			-HSM			
P	0005102			25045			
	0005103			-HSM			
P	0005103			26045			

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/L
1	2 3 4 5 6 7 8 9	10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70					
	0005200		BA5	=-HSM			B
P	0005200			23D46, 46-32B19T-32D30C-32C30C			B
	0005201			-HSM			B
P	0005201			24D46			B
	0005202			-HSM			B
P	0005202			25D46			B
	0005203			-HSM			B
P	0005203			26D46			B
	0005300		BA6	=-HSM			B
P	0005300			23D04, 04-32B20T-32D31C-32C31C			B
	0005301			-HSM			B
P	0005301			24D04			B
	0005302			-HSM			B
P	0005302			25D04			B
	0005303			-HSM			B
P	0005303			26D04			B
	0005400		BA7	=-HSM			B
P	0005400			23D01, 01-32B21T-32D33C-32C33C			B
	0005401			-HSM			B
P	0005401			24D01			B
	0005402			-HSM			B
P	0005402			25D01			B
	0005403			-HSM			B
P	0005403			26D01			B
	0005500		BA8	=-HSM			B
P	0005500			27D43, 43-32B22T-32D34C-32C34C			B
	0005501			-HSM			B
P	0005501			28D43			B
	0005502			-HSM			B
P	0005502			29D43			B
	0005503			-HSM			B
P	0005503			30D43			B
	0005510		K/BA815-0/	=-BAXADD			B
P	0005510			27D13, 31			B
	0005511		K/BA815-1/	=-BAXADD			B
P	0005511			28D13, 31			B
	0005512		K/BA815-2/	=-BAXADD			B
P	0005512			29D13, 31			B
	0005513		K/BA815-3/	=-BAXADD			B
P	0005513			30D13, 31			B
	0005514		L/BA815-0/1	=-NSPA5-0	=-NSPA4-0	=-NSPA3-0	B
P	0005514			27D23, 20X,	21X,	27X, 26X, 22X	B

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/
1	2	3	4	5	6	7	8
9	10	11	12	13	14	15	16
17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32
33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56
57	58	59	60	61	62	63	64
65	66	67	68	69	70	71	72
P	0005515		L/BA815-0/2	=•SPA5-0	•NSPA4-0	•NSPA3-0	•
	0005515			27D25,	20X,	21X,	27X, 26X, 22X
P	0005516		L/BA815-0/3	=•LS0			
	0005516			27D18			
P	0005517		L/BA815-0/4	=•SPA7-0			
	0005517			27D29			
P	0005518		L/BA815-0/5	=•SPA6-0			
	0005518			27D30			
P	0005519		L/BA815-1/1	=•NSPA5-0	•NSPA4-0	•SPA3-0	•
	0005519			28D23,	20X,	21X,	27X, 26X, 22X
P	0005520		L/BA815-1/2	=•SPA5-0	•NSPA4-0	•SPA3-0	•
	0005520			28D25,	20X,	21X,	27X, 26X, 22X
P	0005521		L/BA815-1/3	=•LS0			
	0005521			28D18			
P	0005522		L/BA815-1/4	=•SPA7-0			
	0005522			28D29			
P	0005523		L/BA815-1/5	=•SPA6-0			
	0005523			28D30			
P	0005524		L/BA815-2/1	=•NSPA5-0	•SPA4-0	•NSPA3-0	•
	0005524			29D23,	20X,	21X,	27X, 26X, 22X
P	0005525		L/BA815-2/2	=•SPA5-0	•SPA4-0	•NSPA3-0	•
	0005525			29D25,	20X,	21X,	27X, 26X, 22X
P	0005526		L/BA815-2/3	=•LS0			
	0005526			29D18			
P	0005527		L/BA815-2/4	=•SPA7-0			
	0005527			29D29			
P	0005528		L/BA815-2/5	=•SPA6-0			
	0005528			29D30			
P	0005529		L/BA815-3/1	=•NSPA5-0	•SPA4-0	•SPA3-0	•
	0005529			30D23,	20X,	21X,	27X, 26X, 22X
P	0005530		L/BA815-3/2	=•SPA5-0	•SPA4-0	•SPA3-0	•
	0005530			30D25,	20X,	21X,	27X, 26X, 22X
P	0005531		L/BA815-3/3	=•LS0			
	0005531			30D18			

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/I										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	
P	0005532		L/BA815-3/4	=•SPA7-0													
	0005532			30D29													
P	0005533		L/BA815-3/5	=•SPA6-0													
	0005533			30D30													
P	0005534		W/BA815-0/1	=•ADD8													
	0005534			27D35													
P	0005535		W/BA815-0/2	=•ADD9													
	0005535			27D34													
P	0005536		W/BA815-0/3	=•ADD10													
	0005536			27D19													
P	0005537		W/BA815-0/4	=•ADD11													
	0005537			27D12													
P	0005538		W/BA815-0/5	=•ADD12													
	0005538			27D33													
P	0005539		W/BA815-0/6	=•ADD13													
	0005539			27D28													
P	0005540		W/BA815-0/7	=•ADD14													
	0005540			27D17													
P	0005541		W/BA815-0/8	=•ADD15													
	0005541			27D11													
P	0005542		W/BA815-1/1	=•ADD8													
	0005542			28D35													
P	0005543		W/BA815-1/2	=•ADD9													
	0005543			28D34													
P	0005544		W/BA815-1/3	=•ADD10													
	0005544			28D19													
P	0005545		W/BA815-1/4	=•ADD11													
	0005545			28D12													
P	0005546		W/BA815-1/5	=•ADD12													
	0005546			28D33													
P	0005547		W/BA815-1/6	=•ADD13													
	0005547			28D28													
P	0005548		W/BA815-1/7	=•ADD14													
	0005548			28D17													



SCIENTIFIC DATA SYSTEMS
SANTA MONICA, CALIFORNIA

SIGMA I.O.P. 8471

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CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/
1	2 3 4 5 6 7 8	9	10	15 20 25 30 35 40 45 50 55 60 65 70			
P	0005549		W/BA815-1/8	=•ADD15			
P	0005549			28D11			
P	0005550		W/BA815-2/1	=•ADD8			
P	0005550			29D35			
P	0005551		W/BA815-2/2	=•ADD9			
P	0005551			29D34			
P	0005552		W/BA815-2/3	=•ADD10			
P	0005552			29D19			
P	0005553		W/BA815-2/4	=•ADD11			
P	0005553			29D12			
P	0005554		W/BA815-2/5	=•ADD12			
P	0005554			29D33			
P	0005555		W/BA815-2/6	=•ADD13			
P	0005555			29D28			
P	0005556		W/BA815-2/7	=•ADD14			
P	0005556			29D17			
P	0005557		W/BA815-2/8	=•ADD15			
P	0005557			29D11			
P	0005558		W/BA815-3/1	=•ADD8			
P	0005558			30D35			
P	0005559		W/BA815-3/2	=•ADD9			
P	0005559			30D34			
P	0005560		W/BA815-3/3	=•ADD10			
P	0005560			30D19			
P	0005561		W/BA815-3/4	=•ADD11			
P	0005561			30D12			
P	0005562		W/BA815-3/5	=•ADD12			
P	0005562			30D33			
P	0005563		W/BA815-3/6	=•ADD13			
P	0005563			30D28			
P	0005564		W/BA815-3/7	=•ADD14			
P	0005564			30D17			
P	0005565		W/BA815-3/8	=•ADD15			
P	0005565			30D11			

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	RINS	REMARKS	C/
1	2	3	4	5	6	7	8
			10	11	12	13	14
			15	16	17	18	19
			20	21	22	23	24
			25	26	27	28	29
			30	31	32	33	34
			35	36	37	38	39
			40	41	42	43	44
			45	46	47	48	49
			50	51	52	53	54
			55	56	57	58	59
			60	61	62	63	64
			65	66	67	68	69
			70				
P	0005600		BA9	==HSM			
P	0005600			27D41,41-32B23T-32D35C-32C35C			
	0005601			=HSM			
P	0005601			28D41			
	0005602			=HSM			
P	0005602			29D41			
	0005603			=HSM			
P	0005603			30D41			
P	0005700		BAXADD	=I .NBAXADD .NCM020			
P	0005700			16C36,44, 37,36-23D05T-32C42C-32D42C			
P	0005800		NBAXADD	=I .PH3D1 .T2D1-20			
P	0005800			16C35,38, 43,35-15C03T			
	0005801			I .PH12D1 .T2D1-20 .F3 .CM046			
P	0005801			18C15,30, 18, 31, 17			
	0005802			I .PH5D1-1 .T2D1-20 .NEH .			
P	0005802			18C14,21, 20, 29, 19			
P	0005900		BC0	==HSM			
P	0005900			15D43,43-20A01T-31D01C-31C01C			
	0005901			=HSM			
P	0005901			16D43			
	0005902			=HSM			
P	0005902			17D43			
	0005903			=HSM			
P	0005903			18D43			
P	0005910		K/BC007-0/	==BCXADD .			
P	0005910			15D13, 31			
P	0005911		K/BC007-1/	==BCXADD .			
P	0005911			16D13, 31			
P	0005912		K/BC007-2/	==BCXADD .			
P	0005912			17D13, 31			
P	0005913		K/BC007-3/	==BCXADD .			
P	0005913			18D13, 31			
P	0005914		L/BC007-0/1	==NSPA5-1 .NSPA4-1 .NSPA3-1 . . .			
P	0005914			15D23, 20X, 21X, 27X, 26X, 22X			
P	0005915		L/BC007-0/2	==SPA5-1 .NSPA4-1 .NSPA3-1 . . .			
P	0005915			15D25, 20X, 21X, 27X, 26X, 22X			
P	0005916		L/BC007-0/3	==LS1			
P	0005916			15D18			
P	0005917		L/BC007-0/4	==SPA7-1			
P	0005917			15D29			

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/L										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	
P	0005935		W/BC007-0/2	=•ADD1													B
	0005935			15D34													B
P	0005936		W/BC007-0/3	=•ADD2													B
	0005936			15D19													B
P	0005937		W/BC007-0/4	=•ADD3													B
	0005937			15D12													B
P	0005938		W/BC007-0/5	=•ADD4													B
	0005938			15D33													B
P	0005939		W/BC007-0/6	=•ADD5													B
	0005939			15D28													B
P	0005940		W/BC007-0/7	=•ADD6													B
	0005940			15D17													B
P	0005941		W/BC007-0/8	=•ADD7													B
	0005941			15D11													B
P	0005942		W/BC007-1/1	=•ADD0													B
	0005942			16D35													B
P	0005943		W/BC007-1/2	=•ADD1													B
	0005943			16D34													B
P	0005944		W/BC007-1/3	=•ADD2													B
	0005944			16D19													B
P	0005945		W/BC007-1/4	=•ADD3													B
	0005945			16D12													B
P	0005946		W/BC007-1/5	=•ADD4													B
	0005946			16D33													B
P	0005947		W/BC007-1/6	=•ADD5													B
	0005947			16D28													B
P	0005948		W/BC007-1/7	=•ADD6													B
	0005948			16D17													B
P	0005949		W/BC007-1/8	=•ADD7													B
	0005949			16D11													B
P	0005950		W/BC007-2/1	=•ADD0													B
	0005950			17D35													B
P	0005951		W/BC007-2/2	=•ADD1													B
	0005951			17D34													B

CODE	LINE NO.	CHK	LOGIC	EQUATIONS	PINS	REMARKS	C/
1	2 3 4 5 6 7 8	9	10	11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70			
P	0005952		W/BC007-2/3	= •ADD2			
P	0005952			17019			
P	0005953		W/BC007-2/4	= •ADD3			
P	0005953			17012			
P	0005954		W/BC007-2/5	= •ADD4			
P	0005954			17033			
P	0005955		W/BC007-2/6	= •ADD5			
P	0005955			17028			
P	0005956		W/BC007-2/7	= •ADD6			
P	0005956			17017			
P	0005957		W/BC007-2/8	= •ADD7			
P	0005957			17011			
P	0005958		W/BC007-3/1	= •ADD0			
P	0005958			18035			
P	0005959		W/BC007-3/2	= •ADD1			
P	0005959			18034			
P	0005960		W/BC007-3/3	= •ADD2			
P	0005960			18019			
P	0005961		W/BC007-3/4	= •ADD3			
P	0005961			18012			
P	0005962		W/BC007-3/5	= •ADD4			
P	0005962			18033			
P	0005963		W/BC007-3/6	= •ADD5			
P	0005963			18028			
P	0005964		W/BC007-3/7	= •ADD6			
P	0005964			18017			
P	0005965		W/BC007-3/8	= •ADD7			
P	0005965			18011			
P	0006000		NBCO	= I •BCO			
P	0006000			17A35, 39,		33X, 35-07A02T	

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/I
1	2	3	4	5	6	7	8
		9	10	11	12	13	14
			15	16	17	18	19
			20	21	22	23	24
			25	26	27	28	29
			30	31	32	33	34
			35	36	37	38	39
			40	41	42	43	44
			45	46	47	48	49
			50	51	52	53	54
			55	56	57	58	59
			60	61	62	63	64
			65	66	67	68	69
			70				
	0006100		BC1	=-HSM			
P	0006100			15D41, 41-07A04T-31D02C-31C02C			
	0006101			-HSM			
P	0006101			16D41			
	0006102			-HSM			
P	0006102			17D41			
	0006103			-HSM			
P	0006103			18D41			
	0006200		BC10	=-HSM			
P	0006200			19D09, 09-20A02T-31D11C-31C11C			
	0006201			-HSM			
P	0006201			20D09			
	0006202			-HSM			
P	0006202			21D09			
	0006203			-HSM			
P	0006203			22D09			
	0006300		BC11	=-HSM			
P	0006300			19D02, 02-20A03T-31D12C-31C12C			
	0006301			-HSM			
P	0006301			20D02			
	0006302			-HSM			
P	0006302			21D02			
	0006303			-HSM			
P	0006303			22D02			
	0006400		BC12	=-HSM			
P	0006400			19D45, 45-20A04T-31D13C-31C13C			
	0006401			-HSM			
P	0006401			20D45			
	0006402			-HSM			
P	0006402			21D45			
	0006403			-HSM			
P	0006403			22D45			
	0006500		BC13	=-HSM			
P	0006500			19D46, 46-20A05T-31D14C-31C14C			
	0006501			-HSM			
P	0006501			20D46			
	0006502			-HSM			
P	0006502			21D46			
	0006503			-HSM			
P	0006503			22D46			

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/I
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70

	0006600		BC14	=-HSM			
P	0006600			19D04, 04-20A06T-31D15C-31C15C			
	0006601			-HSM			
P	0006601			20D04			
	0006602			-HSM			
P	0006602			21D04			
	0006603			-HSM			
P	0006603			22D04			
	0006700		BC15	=-HSM			
P	0006700			19D01, 01-20A07T-31D17C-31C17C			
	0006701			-HSM			
P	0006701			20D01			
	0006702			-HSM			
P	0006702			21D01			
	0006703			-HSM			
P	0006703			22D01			
	0006800		NBC15	=I BC15			
P	0006800			17A34, 40, 33X, 34-07A05T			
	0006900		BC2	=-HSM			
P	0006900			15D09, 09-20A08T-31D03C-31C03C			
	0006901			-HSM			
P	0006901			16D09			
	0006902			-HSM			
P	0006902			17D09			
	0006903			-HSM			
P	0006903			18D09			
	0007000		BC3	=-HSM			
P	0007000			15D02, 02-20A09T-31D04C-31C04C			
	0007001			-HSM			
P	0007001			16D02			
	0007002			-HSM			
P	0007002			17D02			
	0007003			-HSM			
P	0007003			18D02			
	0007100		BC4	=-HSM			
P	0007100			15D45, 45-20A10T-31D05C-31C05C			
	0007101			-HSM			
P	0007101			16D45			
	0007102			-HSM			
P	0007102			17D45			
	0007103			-HSM			
P	0007103			18D45			

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/
1	2 3 4 5 6 7 8	9	10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70				
	0007200		BC5	==HSM			
P	0007200			15D46,46-20A11T-31D06C-31C06C			
	0007201			=HSM			
P	0007201			16D46			
	0007202			=HSM			
P	0007202			17D46			
	0007203			=HSM			
P	0007203			18D46			
	0007300		BC6	==HSM			
P	0007300			15D04,04-20A12T-31D07C-31C07C			
	0007301			=HSM			
P	0007301			16D04			
	0007302			=HSM			
P	0007302			17D04			
	0007303			=HSM			
P	0007303			18D04			
	0007400		NBC6	=I .BC6			
P	0007400			17A26,24, 29X,26-07A06T			
	0007500		BC7	==HSM			
P	0007500			15D01,01-20A13T-31D08C-31C08C			
	0007501			=HSM			
P	0007501			16D01			
	0007502			=HSM			
P	0007502			17D01			
	0007503			=HSM			
P	0007503			18D01			
	0007600		BC8	==HSM			
P	0007600			19D43,43-20A14T-31D09C-31C09C			
	0007601			=HSM			
P	0007601			20D43			
	0007602			=HSM			
P	0007602			21D43			
	0007603			=HSM			
P	0007603			22D43			
	0007610		K/BC815-0/	==BCXADD			
P	0007610			19D13, 31			
	0007611		K/BC815-1/	==BCXADD			
P	0007611			20D13, 31			
	0007612		K/BC815-2/	==BCXADD			
P	0007612			21D13, 31			
	0007613		K/BC815-3/	==BCXADD			
P	0007613			22D13, 31			

CODE	LINE NO.	CHK	LOGIC	EQUATIONS	PINS	REMARKS	CAL										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	
P	0007614		L/BC815-0/1	=•NSPA5-1	•NSPA4-1	•NSPA3-1	.	.	.								
	0007614			19D23,	20X,	21X,	27X,	26X,	22X								
P	0007615		L/BC815-0/2	=•SPA5-1	•NSPA4-1	•NSPA3-1	.	.	.								
	0007615			19D25,	20X,	21X,	27X,	26X,	22X								
P	0007616		L/BC815-0/3	=•LS1													
	0007616			19D18													
P	0007617		L/BC815-0/4	=•SPA7-1													
	0007617			19D29													
P	0007618		L/BC815-0/5	=•SPA6-1													
	0007618			19D30													
P	0007619		L/BC815-1/1	=•NSPA5-1	•NSPA4-0	•SPA3-1	.	.	.								
	0007619			20D23,	20X,	21X,	27X,	26X,	22X								
P	0007620		L/BC815-1/2	=•SPA5-1	•NSPA4-0	•SPA3-1	.	.	.								
	0007620			20D25,	20X,	21X,	27X,	26X,	22X								
P	0007621		L/BC815-1/3	=•LS1													
	0007621			20D18													
P	0007622		L/BC815-1/4	=•SPA7-1													
	0007622			20D29													
P	0007623		L/BC815-1/5	=•SPA6-1													
	0007623			20D30													
P	0007624		L/BC815-2/1	=•NSPA5-0	•SPA4-1	•NSPA3-0	.	.	.								
	0007624			21D23,	20X,	21X,	27X,	26X,	22X								
P	0007625		L/BC815-2/2	=•SPA5-0	•SPA4-1	•NSPA3-0	.	.	.								
	0007625			21D25,	20X,	21X,	27X,	26X,	22X								
P	0007626		L/BC815-2/3	=•LS1													
	0007626			21D18													
P	0007627		L/BC815-2/4	=•SPA7-0													
	0007627			21D29													
P	0007628		L/BC815-2/5	=•SPA6-0													
	0007628			21D30													
P	0007629		L/BC815-3/1	=•NSPA5-0	•SPA4-0	•SPA3-0	.	.	.								
	0007629			22D23,	20X,	21X,	27X,	26X,	22X								
P	0007630		L/BC815-3/2	=•SPA5-0	•SPA4-0	•SPA3-0	.	.	.								
	0007630			22D25,	20X,	21X,	27X,	26X,	22X								

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/I								
1	2 3 4 5 6 7 8	9	10	15	20	25	30	35	40	45	50	55	60	65	70
P	0007631		L/BC815-3/3	=•LS1											
P	0007631			22D18											
P	0007632		L/BC815-3/4	=•SPA7-0											
P	0007632			22D29											
P	0007633		L/BC815-3/5	=•SPA6-0											
P	0007633			22D30											
P	0007634		W/BC815-0/1	=•ADD8											
P	0007634			19D35											
P	0007635		W/BC815-0/2	=•ADD9											
P	0007635			19D34											
P	0007636		W/BC815-0/3	=•ADD10											
P	0007636			19D19											
P	0007637		W/BC815-0/4	=•ADD11											
P	0007637			19D12											
P	0007638		W/BC815-0/5	=•ADD12											
P	0007638			19D33											
P	0007639		W/BC815-0/6	=•ADD13											
P	0007639			19D28											
P	0007640		W/BC815-0/7	=•ADD14											
P	0007640			19D17											
P	0007641		W/BC815-0/8	=•ADD15											
P	0007641			19D11											
P	0007642		W/BC815-1/1	=•ADD8											
P	0007642			20D35											
P	0007643		W/BC815-1/2	=•ADD9											
P	0007643			20D34											
P	0007644		W/BC815-1/3	=•ADD10											
P	0007644			20D19											
P	0007645		W/BC815-1/4	=•ADD11											
P	0007645			20D12											
P	0007646		W/BC815-1/5	=•ADD12											
P	0007646			20D33											
P	0007647		W/BC815-1/6	=•ADD13											
P	0007647			20D28											

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/									
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70
P	0007665		W/BC815-3/8	=•ADD15												
P	0007665			22D11												
P	0007700		BC9	=-HSM												
P	0007700			19D41, 41-20A15T-31D10C-31C10C												
P	0007701			-HSM												
P	0007701			20D41												
P	0007702			-HSM												
P	0007702			21D41												
P	0007703			-HSM												
P	0007703			22D41												
P	0007800		BCXADD	=I •NCM021 •NCM022 •NPH2T2D1												
P	0007800			18C34, 24, 23, 22, 22, 34-15D05T-31C18C-31D18C												
P	0007900		BKWD	=B •I4 •I5												
P	0007900			15A45, 39, 42												
P	0007901			B •N16 •N17												
P	0007901			15A35, 38, 43												
P	0008000		C0	=B* +•NCX0/1-0 •C0												
P	0008000			31B29X, \$, \$, 28X, 29X												
P	0008001			+•BA0 •CXBA=0												
P	0008001			31B\$, 03, 15X												
P	0008002			+•M16 •CXM=0												
P	0008002			31B\$, 07, 09X												
P	0008003			+•M13 •CXMR3=0												
P	0008003			31B\$, 14, 02X												
P	0008004			+•M0 •CXMBO												
P	0008004			31B\$, 20, 10X												
P	0008005			+•BC0 •CXBCU												
P	0008005			31B\$, 24, 23												
P	0008100		C1	=B* +•NCX0/1-0 •C1												
P	0008100			31B21X, \$, \$, 28X, 21X												
P	0008101			+•BA1 •CXBA=0												
P	0008101			31B\$, 13, 15X												
P	0008102			+•M17 •CX1=0												
P	0008102			31B\$, 05, 09X												
P	0008103			+•M14 •CXMR3=0												
P	0008103			31B\$, 04, 02X												
P	0008104			+•M1 •CXMBO												
P	0008104			31B\$, 08, 10X												
P	0008105			+•BC1 •CXBCU												
P	0008105			31B\$, 27, 26												

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/L										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	
P	0008200		C10	=B* +.NCX0/1-1	.C10												B
P	0008200			27B21X, \$, \$, 28X, 21X													B
P	0008201			+ .BA10	.CXBA-1												B
P	0008201			27B\$, 13,	15X												B
P	0008202			+ .M26	.CXM-1												B
P	0008202			27B\$, 05,	09X												B
P	0008203			+ .M23	.CXMR3-1												B
P	0008203			27B\$, 04,	02X												B
P	0008204			+ .C10ST	.CXST												B
P	0008204			27B\$, 08,	10X												B
P	0008205			+ .BC10	.CXBCL												B
P	0008205			27B\$, 27,	26												B
P	0008300		C10ST	=I .NC10ST													B
P	0008300			19B01, 11,	10, 01-27B18T												B
P	0008350		NC10ST	=I .MPE	.NCMD												B
P	0008350			09A46, 40,	41, 46-20A17T												B
P	0008351			I .FP	.NBRD=1												B
P	0008351			09A45, 39,	42												B
P	0008400		C11	=B* +.NCX0/1-1	.C11												B
P	0008400			27B22X, \$, \$, 28X, 22X													B
P	0008401			+ .BA11	.CXBA-1												B
P	0008401			27B\$, 17,	15X												B
P	0008402			+ .M27	.CXM-1												B
P	0008402			27B\$, 11,	09X												B
P	0008403			+ .M24	.CXMR3-1												B
P	0008403			27B\$, 06,	02X												B
P	0008404			+ .MAE	.CXST												B
P	0008404			27B\$, 12,	10X												B
P	0008405			+ .BC11	.CXBCL												B
P	0008405			27B\$, 25,	30												B
P	0008500		C12	=B* +.NCX0/1-1	.C12												B
P	0008500			26B29X, \$, \$, 28X, 29X													B
P	0008501			+ .BA12	.CXBA-1												B
P	0008501			26B\$, 03,	15X												B
P	0008502			+ .M28	.CXM-1												B
P	0008502			26B\$, 07,	09X												B
P	0008503			+ .M25	.CXMR3-1												B
P	0008503			26B\$, 14,	02X												B
P	0008504			+ .C12ST	.CXST												B
P	0008504			26B\$, 20,	10X												B
P	0008505			+ .BC12	.CXBCL												B
P	0008505			26B\$, 24,	23												B
P	0008600		C12ST	=B .CMD	.MPE												B
P	0008600			18B12, 06,	05,	07											B

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS.	REMARKS	C/L									
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70
	0008700		C13	=B* +.NCX0/1-1	.C13											
P	0008700			26B21X,5,5,28X,21X												
	0008701			+ .BA13	.CXBA-1											
P	0008701			26B5,13,	15X											
	0008702			+ .M29	.CXM-1											
P	0008702			26B5,05,	09X											
	0008703			+ .M26	.CXMR3-1											
P	0008703			26B5,04,	02X											
	0008704			+ .C13ST	.CXST											
P	0008704			26B5,08,	10X											
	0008705			+ .BC13	.CXBCL											
P	0008705			26B5,27,	26											
	0008800		C13ST	=B .CMD	.EH	.NMPE	.NMAE									
P	0008800			10B15,30,	18,	31,	17									
	0008900		C14	=B* +.NCX0/1-1	.C14											
P	0008900			26B22X,5,5,28X,22X												
	0008901			+ .BA14	.CXBA-1											
P	0008901			26B5,17,	15X											
	0008902			+ .M30	.CXM-1											
P	0008902			26B5,11,	09X											
	0008903			+ .M27	.CXMR3-1											
P	0008903			26B5,06,	02X											
	0008904			+ .EH	.CXST											
P	0008904			26B5,12,	10X											
	0008905			+ .BC14	.CXBCL											
P	0008905			26B5,25,	30											
	0009000		C15	=-NFB												
P	0009000			24B23,23-27B19T												
	0009100		NC15	=-FB												
P	0009100			24B25												
	0009130		S/C15	=* +.CXBA-1	.BA15											
P	0009130			24B5,5,15,	13											
	0009131			+ .CXBCU	.BC15											
P	0009131			24B5,11,	09											
	0009160		R/C15	=* +.PH2T202	.	.										
P	0009160			24B5,5,02,	10,	03										
	0009161			+ .CX0	.											
P	0009161			24B5,05,	07											

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/L										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	
	0009200		NC15F	=I	.CXST	.8RDIN					.12						
P	0009200			19B12,06,		05,					07						
	0009201			I	.CXM-1	.M31											
P	0009201			19B13,04,		08											
	0009202			I	.CXMR3-1	.M28											
P	0009202			19B02,03,		09											
	0009203			-FBF													
P	0009203			24B21													
	0009300		C2	=B*	+ .NCX0/1-0	.C2											
P	0009300			31B22X,\$,\$,28X,	22X												
	0009301			+ .BA2		.CXBA=0											
P	0009301			31B\$,17X,		15X											
	0009302			+ .M18		.CXM=0											
P	0009302			31B\$,11,		09X											
	0009303			+ .M15		.CXMR3=0											
P	0009303			31B\$,06,		02X											
	0009304			+ .M2		.CXMB0											
P	0009304			31B\$,12,		10X											
	0009305			+ .BC2		.CXBCU											
P	0009305			31B\$,25,		30											
	0009400		C3	=B*	+ .NCX0/1-0	.C3											
P	0009400			30B29X,\$,\$,28X,	29X												
	0009401			+ .BA3		.CXBA=0											
P	0009401			30B\$,03,		15X											
	0009402			+ .M19		.CXM=0											
P	0009402			30B\$,07,		09X											
	0009403			+ .M16		.CXMR3=0											
P	0009403			30B\$,14,		02X											
	0009404			+ .M3		.CXMB0											
P	0009404			30B\$,20,		10X											
	0009405			+ .BC3		.CXBCU											
P	0009405			30B\$,24,		23											
	0009500		C4	=B*	+ .NCX0/1-0	.C4											
P	0009500			30B21X,\$,\$,28X,	21X												
	0009501			+ .BA4		.CXBA=0											
P	0009501			30B\$,13,		15X											
	0009502			+ .M20		.CXM=0											
P	0009502			30B\$,05,		09X											
	0009503			+ .M17		.CXMR3=0											
P	0009503			30B\$,04,		02X											
	0009504			+ .M4		.CXMB0											
P	0009504			30B\$,08,		10X											
	0009505			+ .BC4		.CXBCU											
P	0009505			30B\$,27,		26											

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/L									
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70
	0009600		C5	=B* +.NCX0/1=0	.C5											
P	0009600			30B22X, \$, \$, 28X, 22X												
	0009601			+ .BA5	.CXBA=0											
P	0009601			30B\$, 17,	15X											
	0009602			+ .M21	.CXM=0											
P	0009602			30B\$, 11,	09X											
	0009603			+ .M18	.CXMR3=0											
P	0009603			30B\$, 06,	02X											
	0009604			+ .M5	.CXM80											
P	0009604			30B\$, 12,	10X											
	0009605			+ .BC5	.CXBCU											
P	0009605			30B\$, 25,	30											
	0009700		C6	=B* +.NCX0/1=0	.C6											
P	0009700			29B29X, \$, \$, 28X, 29X												
	0009701			+ .BA6	.CXBA=0											
P	0009701			29B\$, 03,	15X											
	0009702			+ .M22	.CXM=0											
P	0009702			29B\$, 07,	09X											
	0009703			+ .M19	.CXMR3=0											
P	0009703			29B\$, 14,	02X											
	0009704			+ .C6XM6	.CXST											
P	0009704			29B\$, 20,	10X											
	0009705			+ .BC6	.CXBCU											
P	0009705			29B\$, 24,	23											
	0009800		C6XM6	=B	.NCM045	.M6										
P	0009800			28B13, 04,	08											
	0009900		C7	=B* +.NCX0/1=0	.C7											
P	0009900			29B21X, \$, \$, 28X, 21X												
	0009901			+ .BA7	.CXBA=0											
P	0009901			29B\$, 13,	15X											
	0009902			+ .M23	.CXM=0											
P	0009902			29B\$, 05,	09X											
	0009903			+ .M20	.CXMR3=0											
P	0009903			29B\$, 04,	02X											
	0009904			+ .C7XM7	.CXST											
P	0009904			29B\$, 08,	10X											
	0009905			+ .BC7	.CXBCU											
P	0009905			29B\$, 27,	26											
	0010000		C7XM7	=B	.NCM045	.M7										
P	0010000			28B02, 03,	09.											

CODE	LINE NO.	CHC	LOGIC	EQUATIONS	PINS	REMARKS	C.										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	
P	0010100		C8	=B* +.NCX0/1=0	.C8												
P	0010100			29B22X, \$, \$, 28X, 22X													
P	0010101			+ .BA8	.CXBA=0												
P	0010101			29B\$, 17,	15X												
P	0010102			+ .M24	.CXM=0												
P	0010102			29B\$, 11,	09X												
P	0010103			+ .M21	.CXMR3=0												
P	0010103			29B\$, 06,	02X												
P	0010104			+ .C8ST	.CXST												
P	0010104			29B\$, 12,	10X												
P	0010105			+ .BC8	.CXBCL												
P	0010105			29B\$, 25,	30												
P	0010200		C8ST	=B .ORDIN	.I1												
P	0010200			08A37, 50,	46,												
P	0010300		C9	=B* +.NCX0/1=1	.C9												
P	0010300			27B29X, \$, \$, 28X, 29X													
P	0010301			+ .BA9	.CXBA=1												
P	0010301			27B\$, 03,	15X												
P	0010302			+ .M25	.CXM=1												
P	0010302			27B\$, 07,	09X												
P	0010303			+ .M22	.CXMR3=1												
P	0010303			27B\$, 14,	02X												
P	0010304			+ .TPE	.CXST												
P	0010304			27B\$, 20,	10X												
P	0010305			+ .BC9	.CXBCL												
P	0010305			27B\$, 24,	23												
P	0010400		CBA	=I .NCBA	.												
P	0010400			18C13, 04,	08, 13=07A07T												
P	0010500		NCBA	=I .NH0	.NH4												
P	0010500			11C12, 06,	05,												
P	0010501			I .H0	.H4												
P	0010501			11C33, 26,	26,												
P	0010600		CC1	=-NFB	.												
P	0010600			23B26, 26=07A09T													
P	0010700		MCC1	=-FB	.												
P	0010700			23B27, 27=07A10T													
P	0010730		S/CC1	=* +.CM034	.												
P	0010730			23B\$, \$, 04													
P	0010731			+ .GND23832	.												
P	0010731			23B\$, 06,	12,												

CODE	LINE NO.	CHK	LOGIC	EQUATIONS	PINS	REMARKS	C/I									
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70
P	0010760		R/CC1	=* +.PH12T1	.D8R	.	.	.FS								
P	0010760			23B\$, \$, 17,	18,	19,		14								
P	0010761			+ .GND23B32												
P	0010761			23B\$, 01												
P	0010800		CC2	=-NFB												
P	0010800			24B26												
P	0010900		NCC2	=-FB												
P	0010900			24B27, 27-07A11T												
P	0010920		S/CC2	=* +.CM034												
P	0010920			24B\$, \$, 04												
P	0010921			+ .CM015	.PH13T0	.8F2										
P	0010921			24B\$, 06,	12,	08										
P	0010940		R/CC2	=* +.PH12T1	.18R	.	.	.FS								
P	0010940			24B\$, \$, 19,	17,	18,		14								
P	0010941			+ .GND24B16												
P	0010941			24B\$, 01												
P	0011350		/CL1/	=-CD *CL1S												
P	0011350			14C\$, 01												
P	0011400		CL1S	=-CR #/CL1S/												
P	0011400			12C36, \$												
P	0011450		/CL1S/	=-CD *GND12C32												
P	0011450			12C\$, 35												
P	0011460		/CL1SD/	=-CR * CL1S												
P	0011460			14C\$, 01												
P	0011500		CM001	=B* +.PH1D1	.T2D1-10	.8RD	.	.								
P	0011500			03B22, \$, \$, 20,	19,	18,		21X, 22-32B31T								
P	0011501			+ .PH12T3	.	.										
P	0011501			03B\$, 11,	12											
P	0011502			+ .CM034	.	.										
P	0011502			03B\$, 07,	06											
P	0011503			+ .LS18R	.	.										
P	0011503			03B\$, 03,	09,	10,		21X								
P	0011504			+ .GND03B16	.	.										
P	0011504			03B\$, 13,	05,	04X										
P	0011600		CM002	=B .PH2D2	.T1D2	.NFNT	.	.								
P	0011600			18B34, 24,	23,	22,		28								
P	0011700		CM003	=B* +.8RD	.8KWD	.	.	.								
P	0011700			20C36, \$, \$, 26,	25, 36-15C04T											
P	0011701			+ .N8RD	.8F4	.	.									
P	0011701			20C\$, 29,	28,	27										

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/L										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	
P	0011800		NCM004	=I .PH182D1	.TOD1-10												B
	0011800			17B17,01,	20X,17-07A12T												B
P	0011900		CM005	=B* +.TARD	.OF7												B
	0011900			20C24,5,5,35,	30,24-30B36T												B
P	0011901			+ .NT9RD	.EH												B
	0011901			20C9,31,	33, 34												B
P	0012000		CM006	=I .NCM006	.												B
	0012000			02C19,03,	20X,19-26B18T												B
P	0012100		NCM006	=I .PH10D1	.NCMD												B
	0012100			11C13,04,	08,13-15C05T												B
P	0012101			I .PH11D1	.												B
	0012101			11C02,03,	09												B
P	0012200		CM007	=I .NEH	.TRA												B
	0012200			01C02,03,	09,02-15C06T												B
P	0012300		NCM007	=I .CM007	.												B
	0012300			02C10,09,10-07A13T													B
P	0012400		CM008	=B* +.BRDIN	.												B
	0012400			06B30,\$,\$,46, 31,	29X,30-07A14T												B
P	0012401			+ .ZBC	.NH6												B
	0012401			06B\$,47,	50,	29X											B
P	0012402			+ .NFP	.NCBA	.ED											B
	0012402			06B\$,41,	43,	44,											B
P	0012403			+ .GND06B16,	.												B
	0012403			06B\$,42,	45,	33X											B
P	0012500		CM009	=I .NCM009	.												B
	0012500			02C18,04,	20X,18-32B33T												B
P	0012600		NCM009	=I .PH10PD1	.NCMD												B
	0012600			11C46,40,	41,46-15C07T												B
P	0012601			I .PH11PD1	.												B
	0012601			11C45,39,	42												B
P	0012700		CM010	=I .NCM010	.												B
	0012700			18C46,40,	41,46-32B34T												B
P	0012800		NCM010	=I .PH12D1	.T1D1-30	.FO											B
	0012800			16B12,06,	05,	07,12-15C08T											B
P	0012900		NCM011	=I .PH184D1	.TOD1-20												B
	0012900			17B41,38,	33X,41-07A15T												B
P	0013100		NCM012	=I .PH2D2	.TOD2	.CM044											B
	0013100			19B33,26,	25,	27,33-07A18T											B

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/L
1	2	8	9	10	11	12	13

P	0013200		CM013	=I	.PH10PD1	.	
P	0013200			17A27,22,	29X,27-15C09T		
P	0013201			I	.PH11PD1	.	
P	0013201			17A28,21,	29X		
P	0013202			I	.PH7PD1	.	
P	0013202			16B35,38,	43		
P	0013300		CM014	=B	.PH102D1	.NBUT	.T2D1=00
P	0013300			15B12,06,	05,	07,12=08C39T	
P	0013400		CM015	=I* +,	.NERD	.	
P	0013400			08A12,\$,\$,10,	09,12-15C10T		
P	0013401			+.	.CC1	.	
P	0013401			08A\$,11,	04		
P	0013402			+.	.A0	.NCM015=0	
P	0013402			08A\$,03,	02		
P	0013500		CM015-0	=B* +.	.NA7	.	
P	0013500			29B40X,\$,\$,43X,40X=	27B35T		
P	0013501			+.	.0F7		
P	0013501			29B\$,42X			
P	0013502			I* +.	.NA7	.0F7	
P	0013502			29B40X,\$,\$,43X,42X			
P	0013503			B* +.	.NA6		
P	0013503			29B39X,\$,\$,46X,			
P	0013504			+.	.0F6		
P	0013504			29B\$,45X			
P	0013505			I* +.	.NA6	.0F6	
P	0013505			29B39X,\$,\$,46X,45X			
P	0013506			B* +.	.NA5		
P	0013506			27B40X,\$,\$,43X,			
P	0013507			+.	.0F5		
P	0013507			27B\$,42X			
P	0013508			I* +.	.NA5	.0F5	
P	0013508			27B40X,\$,\$,43X,42X			
P	0013509			B* +.	.NA4		
P	0013509			27B39X,\$,\$,46X			
P	0013510			+.	.0F4		
P	0013510			27B\$,45X			
P	0013511			I* +.	.NA4	.0F4	
P	0013511			27B39X,\$,\$,46X,45X			
P	0013600		NCM015-0	=I	.CM015-0	.	
P	0013600			09A02,03,	09,02-07A19T		
P	0013700		CM016	=I	.NCM015	.	
P	0013700			27A28,21,	29X,28-15C11T		
P	0013800		NCM016	=I	.ZBC	.BC1	
P	0013800			09A13,04,	08,13-20A18T		

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/L
1	2	3	4	5	6	7	8
		9	10	11	12	13	14
			15	16	17	18	19
			20	21	22	23	24
			25	26	27	28	29
			30	31	32	33	34
			35	36	37	38	39
			40	41	42	43	44
			45	46	47	48	49
			50	51	52	53	54
			55	56	57	58	59
			60	61	62	63	64
			65	66	67	68	69
			70				
P	0013900		CM017	=I .NCM017			B
P	0013900			27A15,13,15-15C12T			B
P	0014000		NCM017	=I .θRDIN .I3	.BC3		B
P	0014000			09A12,06, 05,	07,12-20A19T		B
P	0014100		CM018	=I .NCM018			B
P	0014100			27A11,12,11-15C13T			B
P	0014200		NCM018	=I .θRDIN .I4	.BC5		B
P	0014200			09A33,26, 25,	27,33-20A20T		B
P	0014300		CM019	=I .NCM019			B
P	0014300			27A10,09,10-15C14T			B
P	0014400		NCM019	=I .θRDIN .I3	.EH .BC5		B
P	0014400			09A34,24, 23,	22, 28,34-20A21T		B
P	0014500		NCM020	=I .PH4D1 .T2D1-20	.NEH		C
P	0014500			19C33,26, 25,	27,33-13C13T		B
P	0014501			I .PH4D1 .T2D1-20	.MS=1		C
P	0014501			19C12,06, 05,	07		B
P	0014600		NCM021	=I .PH7PD1 .T3D1-10	.NFIN		B
P	0014600			17C12,06, 05,	07,12-13C14T		B
P	0014700		NCM022	=I .PH1D1 .T2D1-20	.NθRD .NθUT		B
P	0014700			17C15,30, 18,	31, 17,15-13C18T		B
P	0014701			I .PH6D1 .T2D1-20	.NEH		B
P	0014701			17C33,26, 25,	27		B
P	0014702			I .PH14D1 .T1D1-20	.CM046 .θUT		C
P	0014702			16C15,30, 18,	31, 17		B
P	0014800		CM023	=I .MS .NMOR1			B
P	0014800			04A36,44, 37,36-15C19T			B
P	0015000		CM025	=B .B* +.CM023	.		B
P	0015000			28A14,\$,\$,\$,\$,13,	12,14-04B01T		B
P	0015001			+ .CM025I2 .W3	.MAR		B
P	0015001			28A\$,11, 10,	09		B
P	0015002			.CM025I1			B
P	0015002			28A08			B
P	0015100		CM025I1	=I .TθRD .CM025I1T			B
P	0015100			17C36,44, 37,36-27B36T			B
P	0015200		CM025I1I	=I .RS .RSA2			B
P	0015200			17C01,10, 11,01-13C20T			B
P	0015300		CM025I2	=B .W0 .W1	.W2		B
P	0015300			28A01,02, 04,	06,01-26B19T		B

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/I										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	
P	0015400		CM026	=I .FS	.NFSL												
P	0015400			11C35,38,	43,35-13C30T												
P	0015500		CM027	=B .CNST	.ME	.PR2											
P	0015500			03C47,43,	44,	45,											42,47-04302T
P	0015600		CM028	=I .F1	.NFSL												
P	0015600			01C01,10,	11,01-13C34T												
P	0015601			I .CM028I2	.												
P	0015601			02C17,01,	20X												
P	0015800		CM028I2	=I .CM044	.CM023												
P	0015800			11C36,44,	37,36-13C40T												
P	0015801			I .NCM044	.RSA2												
P	0015801			11C01,10,	11												
P	0015900		NCM029	=I* +.GND20C16	.												
P	0015900			20C13,8,8,21,22,13-07A20T													
P	0015901			+ .NJ1	.NJ2	.H4											
P	0015901			20C8,18,	19,	20											
P	0015902			+ .J1	.J2	.NH4											
P	0015902			20C8,17,	15,	14											
P	0016000		CM030	=I* +.NCM004	.												
P	0016000			08A01,8,8,07,	08,01-32B35T												
P	0016001			+ .NCM029	.												
P	0016001			08A8,06,	05												
P	0016100		CM031	=B .PH1PD1	.BRDIN	.EHE											.I1
P	0016100			08A47,42,	43,	44,											45,47-07A21T
P	0016200		CM032	=B .NMPE	.VMAE	.NTPE											.NTBRD
P	0016200			21C14,21,	20,	29,											19
P	0016300		CM033	=I* +.BRD	.PH12PD1												
P	0016300			03C12,8,8,10,	09,12-04803T												
P	0016301			+ .BRD	.PH13D1												
P	0016301			03C8,11,	04												
P	0016302			+ .BRD	.PH13PD1												
P	0016302			03C8,03,	02												
P	0016400		CM034	=B .PH2D2	.T1D2	.FNT											.
P	0016400			02B14,21,	20,	29,											19,14-32B36T
P	0016500		CM035	=B .PH12T1	.F3												
P	0016500			21C01,10,	11												
P	0016600		CM036	=B .PH2D1	.T2D1-20	.NEH											.NZBS
P	0016600			21C15,30,18,31,17,15-09C44C-09D44C-10D28T													

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	
P	0016700		CM037	=B .PH1T2D1	.NEH	.NZBS											
P	0016700			20C37,50,	46,	41,37-15C15T											
P	0016800		CM038	=B .PH192PD1	.T4D1-10	.N8RD-1	.N8UT										
P	0016800			30A47,42,	43,	44,	45,47-04B04T										
P	0016900		CM039	=B .PH2D2	.CM044	.T102											
P	0016900			02B12,06,	05,	07											
P	0017000		CM040	=I .NED	.NCM047												
P	0017000			04A02,03,	09,02-04B05T												
P	0017100		CM041	=B .NPR2	.NMPE	.TPE											
P	0017100			02B33,26,	25,	27											
P	0017200		CM042	=B .N8RD	.8UT	.NH3	.NEH										
P	0017200			02B15,30,	18,	31,	17										
P	0017300		CM043	=B .PH10PD1	.T4D1-30	.CMD											
P	0017300			02B34,24,	23,	22,	28										
P	0017400		CM044	=I .NCM044													
P	0017400			20B27,22,	29X,27-07A22T												
P	0017500		NCM044	=I .FNT	.NFO												
P	0017500			18C36,44,	37,36-20A23T												
P	0017600		CM045	=I .NEH	.CMD												
P	0017600			18C12,06,	05,	07,12-20A24T											
P	0017700		NCM045	=I .CM045													
P	0017700			20B34,40,	33X,34-29B18T												
P	0017800		CM046	=B .NCC1	.NCC2												
P	0017800			10B45,39,	42												
P	0017900		CM047	=I .NZBS	.NEH												
P	0017900			19B36,44,	37,36-04B06T												
P	0018000		NCM047	=B .NZBS	.NEH												
P	0018000			10B35,38,	43												
P	0018100		CM048	=B .T4D1-20	.MS-1	.NAH											
P	0018100			10B33,26,	25,	27,33-08C42T											
P	0018200		CM049	=I .CM025I2	.WB	.DR											
P	0018200			04A14,21,	20,	29,	19,14-04B07T										
P	0018201			I .POK													
P	0018201			17A11,12													

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/									
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70

P	0018250		CM050	=I	.CM049	.NMPE										
P	0018250			04A45,39,		42,45-07A44T										
P	0018300		CMD	=-FB												
P	0018300			24B20,20-	15C17T											
P	0018400		NCMD	=-NFB												
P	0018400			24B22,22-	07A23T											
P	0018410		S/CMD	=*	+.PH4PD1	.T3D1-10	.NEH									
P	0018410			24B\$, \$,42,		44,	46,	50,								38
P	0018411				+.PH4PD1	.T3D1-10	.MS-1									
P	0018411			24B\$,39,		41,	43									
P	0018412				+.PH10T0	.M8										
P	0018412			24B\$,45,		47										
P	0018420		R/CMD	=*	+.GND24B16	.	.									
P	0018420			24B\$, \$,33,		28,	36,	34								
P	0018421				+.GND24B16	.	.									
P	0018421			24B\$,31,		30,	29									
P	0018422				+.GND24B16	.	.									
P	0018422			24B\$,35,		37										
P	0018423				+.PH2T1D2											
P	0018423			24B\$,40												
P	0018500		CMDF	=-FBF												
P	0018500			24B24												
P	0018600		CNST	=-CR	*/CNST/											
P	0018600			12C20,\$												
P	0018610		/CNST/	=-NS												
P	0018610															
P	0018700		NCNST	=I	.CNST	.										
P	0018700			02C05,02,		20X,05-	04B08T									
P	0018800		CNSTNME	=B	.CNST	.NME										
P	0018800			21C13,04,		08										
P	0018850		/CNSTNME/	=-CD	*CNSTNME											
P	0018850			12C\$,19												
P	0018900		NCBND1	=B	.ME	.NCC1	.CNST	.								
P	0018900			15B15,17,		18,	30,	31,								
P	0018950		/NCBND1/	=-CD	*NCBND1											
P	0018950			12C\$,25												
P	0019000		NCBND2	=B	.ME	.NCC2	.CNST	.								
P	0019000			15B14,19,		20,	21,	29,								

CODE	LINE NO.	CHK	LOGIC	EQUATIONS	PINS	REMARKS	C/										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	
P	0019050		/NC0ND2/	=I CD *NC0ND2													
P	0019050			12C6,33													
P	0019100		CX0	=I .NCX0													
P	0019100			17B10,09,10-26B35T													
P	0019200		NCX0	=I .PH1101	.T101-30												
P	0019200			16B45,39,	42,45-15C18T												
P	0019201			I .CM013	.T401-20												
P	0019201			16B01,10,	11												
P	0019300		NCX0/1-0	=B .NCX0	.NPH2T202												
P	0019300			18B13,04,	08,13-32B37T												
P	0019400		NCX0/1-1	=B .NCX0	.NPH2T202												
P	0019400			18B02,03,	09,02-32B38T												
P	0019500		NCXBA	=I .PH3D1	.T001-10												
P	0019500			17B18,04,	20X,18-15C20T												
P	0019501			I .PH4D1	.T001-10												
P	0019501			17B19,03,	20X												
P	0019502			I .PH10D1-1	.T201-00	.CMD											
P	0019502			19B34,24,	23,	22,											28
P	0019600		CXBA-0	=I .NCXBA													
P	0019600			17B15,13,15-31B18T													
P	0019700		CXBA-1	=I .NCXBA													
P	0019700			17B11,12,11-29B19T													
P	0019800		CXBCL	=I .NCM004	.NPH7T101	.CXBCLI											
P	0019800			19B14,21,	20,	29,											19,14-29B35T
P	0019900		CXBCLI	=I .CM006	.T201-00	.NFB											
P	0019900			16B14,21,	20,	29,											19,14-20A25T
P	0019901			I .PH13D1	.T001-10												
P	0019901			17B05,02,	20X												
P	0020000		CXBCU	=I .CXBCUI	.NCM004												
P	0020000			19B35,38,	43,35-31B19T												
P	0020100		CXBCUI	=I .PH7D1	.T101-30	.CM045											
P	0020100			19B15,30,	18,	31,											17,15-26B36T
P	0020200		NCXM	=I .PH5D1	.T001-10	.TRA											
P	0020200			17B06,14,	08,	07,06-15C21T											
P	0020201			I .CM006	.T201-00	.FB											
P	0020201			16B15,30,	18,	31,											17
P	0020202			I .PH6D1	.T001-20												
P	0020202			16B36,44,	37												

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/
1	2	3	4	5	6	7	8
P	0020300		CXM80	=B .PH7T1D1	.NCM045		
P	0020300			18B46,39,	42,45=31B35T		
P	0020400		CXMR3-0	=B .PH5D1	.TOD1-10 .NTRA		
P	0020400			18B33,26,	25, 27,33-09C45C-09D45C-10D29T		
P	0020500		CXMR3-1	=B .CXMR3-0	.		
P	0020500			18B35,38,	43,35=08C36T		
P	0020600		CXM-0	=I .NCXM	.		
P	0020600			17B27,22,	29X,27-31B36T		
P	0020700		CXM-1	=I .NCXM	.		
P	0020700			17B28,21,	29X,28-29B36T		
P	0020800		CXST	=B .PH7T1D1	.		
P	0020800			18B46,40,	41,46=04B33T		
P	0020900		DA0	=-CR */DA0/			
P	0020900			32A22,\$			
P	0020910		/DA0/	=-CD #00			
P	0020910			32A\$,23			
P	0021000		DA1	=-CR */DA1/			
P	0021000			32A20,\$			
P	0021010		/DA1/	=-CD #01			
P	0021010			32A\$,19			
P	0021100		DA2	=-CR */DA2/			
P	0021100			32A18,\$			
P	0021110		/DA2/	=-CD #02			
P	0021110			32A\$,15			
P	0021200		DA3	=-CR */DA3/			
P	0021200			32A13,\$			
P	0021210		/DA3/	=-CD #03			
P	0021210			32A\$,12			
P	0021300		DA4	=-CR */DA4/			
P	0021300			32A08,\$			
P	0021310		/DA4/	=-CD #04			
P	0021310			32A\$,03			
P	0021400		DA5	=-CR */DA5/			
P	0021400			32A10,\$			

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/									
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70
P	0021410		/DA5/	==CD *05												
P	0021410			32A\$,09												
P	0021500		DA6	==CR */DA6/												
P	0021500			32A04,\$												
P	0021510		/DA6/	==CD *06												
P	0021510			32A\$,01												
P	0021600		DA7	==CR */DA7/												
P	0021600			32A06,\$												
P	0021610		/DA7/	==CD *07												
P	0021610			32A\$,02												
P	0021650		DG	==CR */DGA0/												
P	0021650			14A38,\$												
P	0021655		/DGA0/	==CD *GND14A16												
P	0021655			14A\$,37												
P	0021700		DAP	==CR */DAP/												
P	0021700			32A27,\$												
P	0021701		/DAP/	==CD *0P												
P	0021701			32A\$,25												
P	0021708			==EF * +DL1PC												
P	0021800		D0R	==CR */D0R/												
P	0021800			32A38,\$												
P	0021810		/D0R/	==CD *GND32A16												
P	0021810			32A\$,37												
P	0021900		DR	==CR */DRX/												
P	0021900			10A10,\$												
P	0021910		/DRX/	==CD *GND10A32												
P	0021910			10A\$,09												
P	0022000		ED	==FB												
P	0022000			06A20												
P	0022100		NED	==NFB												
P	0022100			06A22,22=15C22T												

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/L
1	2	3	4	5	6	7	8
P	0022110		S/ED	=* +.PH102D1 .T2D1-00	.NBRD	.CM047	
	0022110			06A\$, \$, 42, 44,	46,	50,	38
	0022111			+ .PH102D1 .T1D1-00	.EDI		
P	0022111			06A\$, 39,	41,	43	
	0022112			+ .CM030	.		
P	0022112			06A\$, 45,	47		
P	0022120		R/ED	=* +.PH2D2F .T2D2-0	.F1	.	
	0022120			06A\$, \$, 28,	36,	34,	33
	0022121			+ .GND06A16	.	.	
P	0022121			06A\$, 31,	30,	29	
	0022122			+ .GND06A16	.	.	
P	0022122			06A\$, 37,	35		
	0022123			+ .RESET			
P	0022123			06A\$, 40			
P	0022124		/ED/	=-CD *ED			
	0022124			32A\$, 33			
P	0022200		EDF	=-FBF			
	0022200			06A24			
P	0022300		EDI	=-CR */ED/			
	0022300			32A34, \$			
P	0022400		EH	=-NFB			
	0022400			06A23, 23-04309T			
P	0022500		NEH	=-FB			
	0022500			06A25, 25-15C23T			
P	0022510		S/EH	=* +.EHE .TPE			
	0022510			06A\$, \$, 15,	13		
	0022511			+ .EHE .MPE			
P	0022511			06A\$, 11,	09		
P	0022520		R/EH	=* +.GND06A16	.	.	
	0022520			06A\$, \$, 10,	02,	03	
	0022521			+ .PH2T1D2	.	.	
P	0022521			06A\$, 05,	07		
P	0022600		EHE	=-FB			
	0022600			06A27, 27-07A24T			
P	0022700		NEHE	=-NFB			
	0022700			06A26			
P	0022710		S/EHE	=* +.PH2PD2 .T3D2	.9F5	.	
	0022710			06A\$, \$, 17,	18,	14,	19
	0022711			+ .GND06A16			
P	0022711			06A\$, 01			

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/L
1	2	3	4	5	6	7	8
	0022720		R/EHE	=* +.PH2T1D2			B
P	0022720			06A\$, \$, 04			B
	0022721			+ .GND06A16			B
P	0022721			06A\$, 06, 12,	08		B
	0022800		NEHF	=I* +.MAE			B
P	0022800			03A13, \$, \$, 21, 22			B
	0022801			+ .CMD	.MPE		B
P	0022801			08A\$, 18,	19,	20	B
	0022802			+ .PH2PD2	.T3D2	.9F7	B
P	0022802			08A\$, 17,	15,	14	B
	0022803			I .CM031	.T4D1-20	.NBC6	B
P	0022803			08A23, 40,	38,	39	B
	0022804			I .PH5D1	.T0D1-00	.TRA	B
P	0022804			09A15, 30,	18,	31,	B
	0022805			-FBF		.TRA1	B
P	0022805			06A21X		17	B
	0022900		ES	=-FB			B
P	0022900			12B20			B
	0023000		NES	=-NFB			B
P	0023000			12B22			B
	0023010		S/ES	=* +.PH102D1	.T2D1-10	.N0RD	B
P	0023010			12B\$, \$, 42,	44,	.ED	B
	0023011			+ .PH7T1D1		50,	B
P	0023011			12B\$, 39,	41,	.NCM047	B
	0023012			+ .CM030		38	B
P	0023012			12B\$, 45,	47		B
	0023020		R/ES	=* +.PH102D1	.T2D1-10	.N0RD	B
P	0023020			12B\$, \$, 23,	36,	.CM047	B
	0023021			+ .PH2D2	.T2D2-0	33	B
P	0023021			12B\$, 31,	30,	.F1	B
	0023022			+ .0RD	.PH1T2D1	29	B
P	0023022			12B\$, 37,	35		B
P	0023023			12B\$, RESET-1			B
	0023024		1ES/	=-CD *ES			B
P	0023024			14C\$, 09			B
	0023100		ESF	=-FBF			B
P	0023100			12B24			B
	0023200		F0	=-FB			B
P	0023200			23C27			B
	0023300		NFO	=-NFB			B
P	0023300			23C26, 26-07A25T			B

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70
P	0023310		S/F0	==* +.FXFN	.AI9FN	.										
	0023310			23C\$, \$, 19,	17,	18,	14									
	0023311			+ .GND23C16												
P	0023311			23C\$, 01												
P	0023320		R/F0	==* +.FX0												
	0023320			23C\$, \$, 04												
	0023321			+ .GND23C16	.	.										
P	0023321			23C\$, 06,	12,	08										
P	0023400		F1	==FB												
	0023400			24C27												
P	0023500		NF1	==NFB												
	0023500			24C26, 26-04810T												
P	0023510		S/F1	==* +.PH1T2D2	.NFNT	.SC	.									
	0023510			24C\$, \$, 17,	18,	14,	19									
	0023511			+ .GND24C16												
P	0023511			24C\$, 01												
P	0023520		R/F1	==* +.FX0												
	0023520			24C\$, \$, 04												
	0023521			+ .AV8	.	.										
P	0023521			24C\$, 06,	12,	08										
P	0023600		F2	==FB												
	0023600			25C27												
P	0023650		NF2	==NFB												
	0023650			25C26												
P	0023655		S/F2	==* +.FXFN	.NFNC0	.FNC1	.FNC2									
	0023655			25C\$, \$, 19,	17,	18,	14									
	0023656			+ .GND25C16												
P	0023656			25C\$, 01												
P	0023660		R/F2	==* +.FX0												
	0023660			25C\$, \$, 04												
	0023661			+ .GND25C16	.	.										
P	0023661			25C\$, 06,	12,	08										
P	0023700		F3	==FB												
	0023700			26C27												
P	0023800		NF3	==NFB												
	0023800			26C26, 26-04811T												

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CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
	1	2	3	4	5	6
	8	9	10	11	12	13
	15	16	17	18	19	20
	25	26	27	28	29	30
	35	36	37	38	39	40
	45	46	47	48	49	50
	55	56	57	58	59	60
	65	66	67	68	69	70
	75	76	77	78	79	80
	85	86	87	88	89	90
	95	96	97	98	99	100
	105	106	107	108	109	110
	115	116	117	118	119	120
	125	126	127	128	129	130
	135	136	137	138	139	140
	145	146	147	148	149	150
	155	156	157	158	159	160
	165	166	167	168	169	170
	175	176	177	178	179	180
	185	186	187	188	189	190
	195	196	197	198	199	200
	205	206	207	208	209	210
	215	216	217	218	219	220
	225	226	227	228	229	230
	235	236	237	238	239	240
	245	246	247	248	249	250
	255	256	257	258	259	260
	265	266	267	268	269	270
	275	276	277	278	279	280
	285	286	287	288	289	290
	295	296	297	298	299	300
	305	306	307	308	309	310
	315	316	317	318	319	320
	325	326	327	328	329	330
	335	336	337	338	339	340
	345	346	347	348	349	350
	355	356	357	358	359	360
	365	366	367	368	369	370
	375	376	377	378	379	380
	385	386	387	388	389	390
	395	396	397	398	399	400
	405	406	407	408	409	410
	415	416	417	418	419	420
	425	426	427	428	429	430
	435	436	437	438	439	440
	445	446	447	448	449	450
	455	456	457	458	459	460
	465	466	467	468	469	470
	475	476	477	478	479	480
	485	486	487	488	489	490
	495	496	497	498	499	500
	505	506	507	508	509	510
	515	516	517	518	519	520
	525	526	527	528	529	530
	535	536	537	538	539	540
	545	546	547	548	549	550
	555	556	557	558	559	560
	565	566	567	568	569	570
	575	576	577	578	579	580
	585	586	587	588	589	590
	595	596	597	598	599	600
	605	606	607	608	609	610
	615	616	617	618	619	620
	625	626	627	628	629	630
	635	636	637	638	639	640
	645	646	647	648	649	650
	655	656	657	658	659	660
	665	666	667	668	669	670
	675	676	677	678	679	680
	685	686	687	688	689	690
	695	696	697	698	699	700
	705	706	707	708	709	710
	715	716	717	718	719	720
	725	726	727	728	729	730
	735	736	737	738	739	740
	745	746	747	748	749	750
	755	756	757	758	759	760
	765	766	767	768	769	770
	775	776	777	778	779	780
	785	786	787	788	789	790
	795	796	797	798	799	800
	805	806	807	808	809	810
	815	816	817	818	819	820
	825	826	827	828	829	830
	835	836	837	838	839	840
	845	846	847	848	849	850
	855	856	857	858	859	860
	865	866	867	868	869	870
	875	876	877	878	879	880
	885	886	887	888	889	890
	895	896	897	898	899	900
	905	906	907	908	909	910
	915	916	917	918	919	920
	925	926	927	928	929	930
	935	936	937	938	939	940
	945	946	947	948	949	950
	955	956	957	958	959	960
	965	966	967	968	969	970
	975	976	977	978	979	980
	985	986	987	988	989	990
	995	996	997	998	999	1000

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CODE LINE NO. CHG LOGIC EQUATIONS / PINS / REMARKS 123653-001 C/L
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 03/10/70

P	0024410	S/FIN	=* +.PH14D1	.T2D1=10			
	0024410		11B\$, \$, 15,	13			
P	0024411		+ .PH7PD1	.T4D1=20			
	0024411		11B\$, 11,	09			
P	0024420	R/FIN	=* +.PH12T0	.	.		
	0024420		11B\$, \$, 10,	02,	03		
P	0024421		+ .PH1T2D1	.			
	0024421		11B\$, 05,	07			
P	0024500	NFINF	=I .PH3PD1	.T3D1=10	.FP		
	0024500		20C23, 40,	38,	39		
P	0024501		.F3F				
	0024501		11B21				
P	0024502		I .CM032	.PH7T1D1			
	0024502		19C36, 44,	37			
P	0024503		I .RESET	.			
	0024503		19C01, 10,	11			
P	0024600	FNT	==FB				
	0024600		11B27, 27-15C25T				
P	0024700	NFNT	==NFB				
	0024700		11B26, 26-04B13T				
P	0024710	S/FNT	=* +.PH1D2	.T0D2	.CM027	.	
	0024710		11B\$, \$, 19,	17,	18,	14	
P	0024711		+ .GND11816				
	0024711		11B\$, 01				
P	0024720	R/FNT	=* +.RESET-1				
	0024720		11B\$, \$, 04				
P	0024721		+ .PH12T3	.	.		
	0024721		11B\$, 06,	12,	08		
P	0024800	FNC0	==CR */FNC0/				
	0024800		12C06, \$				
P	0024810	/FNC0/	==CD *GND12C32				
	0024810		12C\$, 02				
P	0024900	NFNC0	=I .FNC0	.			
	0024900		02C41, 38,	33X, 41-32B39T			
P	0025000	FNC1	==CR */FNC1/				
	0025000		12C04, \$				
P	0025010	/FNC1/	==CD *GND12C32				
	0025010		12C\$, 01				

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CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	123456789010	C/L
P	0025100		NFNC1	=I .FNC1				
P	0025100			02C35,39,	33X,35-32840T			
P	0025200		FNC2	=-CR */FNC2/				
P	0025200			12C10,\$				
P	0025210		/FNC2/	=-CD *GND12C32				
P	0025210			12C\$,09				
P	0025300		NFNC2	=I .FNC2				
P	0025300			02C34,40,	33X,34-32841T			
P	0025400		FP	=-NFB				
P	0025400			12B23,23-15C26T				
P	0025500		NFP	=-FB				
P	0025500			12B25,25-04514T				
P	0025510		S/FP	=* +.PH4T0D1 .MPE				
P	0025510			12B\$, \$,15,	13			
P	0025511			+ .PH2T1D2	.			
P	0025511			12B\$,11,	09			
P	0025520		R/FP	=* +.PH1PD1 .T3D1-10 .NBUT				
P	0025520			12B\$, \$,10,	02,	03		
P	0025521			+ .PH2PD1 .T3D1-10				
P	0025521			12B\$,05,	07			
P	0025600		NFPF	=I .FPF-0				
P	0025600			13C02,03,	09			
P	0025601			-FBF				
P	0025601			12B21				
P	0025700		FPF-0	=S .OUT	.PH3D1 .T1D1-20 .CM032			
P	0025700			20C47,42,	43,	44,	45,47-15C27T	
P	0025800		FR0	=-CR */FR0/				
P	0025800			14B22,\$				
P	0025810		/FR0/	=-NS				
P	0025810							
P	0025900		FR1	=-CR */FR1/				
P	0025900			14B20,\$				
P	0025910		/FR1/	=-NS				
P	0025910							
P	0026000		FR2	=-CR */FR2/				
P	0026000			14B18,\$				

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70
				SIGMA 100-P-5471												
P	0026010		/FR2/	==NS												
P	0026010															
P	0026100		FR3	==CR */FR3/												
P	0026100			14B13, \$												
P	0026110		/FR3/	==NS												
P	0026110															
P	0026200		FR4	==CR */FR4/												
P	0026200			14B08, \$												
P	0026210		/FR4/	==NS												
P	0026210															
P	0026300		FR5	==CR */FR5/												
P	0026300			14B10, \$												
P	0026310		/FR5/	==NS												
P	0026310															
P	0026400		FR6	==CR */FR6/												
P	0026400			14B04, \$												
P	0026410		/FR6/	==NS												
P	0026410															
P	0026500		FR7	==CR */FR7/												
P	0026500			14B06, \$												
P	0026510		/FR7/	==NS												
P	0026510															
P	0026600		FS	==FB												
P	0026600			11B20												
P	0026700		NFS	==NFB												
P	0026700			11B22												
P	0026710		S/FS	==*	+PH10D1	.T2D1-10	.NMPE	.NPR2								
P	0026710			11B\$, \$, 42,	44,	46,	50,	38								
P	0026711			+PH1PD2	.T4D2	.F1										
P	0026711			11B\$, 39,	41,	43										
P	0026712			+PH2T0D2	.F0											
P	0026712			11B\$, 45,	47											

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CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
	1	2	3	4	5	6
	8	9	10	15	20	25
	30	35	40	45	50	55
	60	65	70	75	80	85
	90	95	100	105	110	115
	120	125	130	135	140	145
	150	155	160	165	170	175
	180	185	190	195	200	205
	210	215	220	225	230	235
	240	245	250	255	260	265
	270	275	280	285	290	295
	300	305	310	315	320	325
	330	335	340	345	350	355
	360	365	370	375	380	385
	390	395	400	405	410	415
	420	425	430	435	440	445
	450	455	460	465	470	475
	480	485	490	495	500	505
	510	515	520	525	530	535
	540	545	550	555	560	565
	570	575	580	585	590	595
	600	605	610	615	620	625
	630	635	640	645	650	655
	660	665	670	675	680	685
	690	695	700	705	710	715
	720	725	730	735	740	745
	750	755	760	765	770	775
	780	785	790	795	800	805
	810	815	820	825	830	835
	840	845	850	855	860	865
	870	875	880	885	890	895
	900	905	910	915	920	925
	930	935	940	945	950	955
	960	965	970	975	980	985
	990	995	1000	1005	1010	1015

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CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	32	C/L									
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	76

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P	0027561		GND12A16	==GND													
P	0027561			12A16,16-05-24-41													
P	0027563		GND14A16	==GND													
P	0027563			14A16,16-05-24-41													
P	0027565		GND16A16	==GND													
P	0027565			16A16,16-05-24-41													
P	0027567		GND18A16	==GND													
P	0027567			18A16,16-05-24-41													
P	0027571		GND22A16	==GND													
P	0027571			22A16													
P	0027572		GND23A32	==GND													
P	0027572			23A32													
P	0027574		GND25A16	==GND													
P	0027574			25A16													
P	0027580		GND31A16	==GND													
P	0027580			31A16													
P	0027581		GND32A16	==GND													
P	0027581			32A16,16-05-24-41													
P	0027584		GND03B16	==GND													
P	0027584			03B16													
P	0027587		GND06B16	==GND													
P	0027587			06B16													
P	0027588		GND07B16	==GND													
P	0027588			07B16													
P	0027589		GND08B16	==GND													
P	0027589			08B16													
P	0027590		GND09B16	==GND													
P	0027590			09B16,16-02-10-12-13-30-34-36-46													
P	0027592		GND11B16	==GND													
P	0027592			11B16													
P	0027593		GND12B16	==GND													
P	0027593			12B16													
P	0027595		GND14B16	==GND													
P	0027595			14B16,16-01-02-03-05-09-12-15-19-23-24-25-33-35-37													

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	/	PINS	/	REMARKS
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P	0027596		GND14B16	==GND				
P	0027596			14B16, 16-39-41-45				
P	0027602		GND21B16	==GND				
P	0027602			21B16				
P	0027603		GND22B32	==GND				
P	0027603			22B32				
P	0027604		GND23B32	==GND				
P	0027604			23B32				
P	0027605		GND24B16	==GND				
P	0027605			24B16				
P	0027617		GND04C16	==GND				
P	0027617			04C16				
P	0027618		GND05C16	==GND				
P	0027618			05C16				
P	0027619		GND06C16	==GND				
P	0027619			06C16				
P	0027623		GND10C32	==GND				
P	0027623			10C32				
P	0027625		GND12C32	==GND				
P	0027625			12C32, 32-05-23-24-41				
P	0027626		GND13C32	==GND				
P	0027626			13C32				
P	0027627		GND14C16	==GND				
P	0027627			14C16, 16-05-24-41				
P	0027633		GND20C16	==GND				
P	0027633			20C16				
P	0027636		GND23C16	==GND				
P	0027636			23C16				
P	0027637		GND24C16	==GND				
P	0027637			24C16				
P	0027638		GND25C16	==GND				
P	0027638			25C16				
P	0027639		GND26C16	==GND				
P	0027639			26C16				

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
P	0027640		GND27C16	=-GND		
P	0027640			27C16		
P	0027641		GND28C16	=-GND		
P	0027641			28C16		
P	0027642		GND29C16	=-GND		
P	0027642			29C16		
P	0027643		GND30C16	=-GND		
P	0027643			30C16		
P	0027647		GND05D16	=-GND		
P	0027647			05D16		
P	0027648		GND01D16	=-GND		
P	0027648			01D16, 16-01-02-03-05-09-12-15-24-25-33-35-37-39-41-45		
P	0027652		GND07D16	=-GND		
P	0027652			07D16		
P	0027656		GND11D16	=-GND		
P	0027656			11D16, 16-10-24-38		
P	0027657		GND12D16	=-GND		
P	0027657			12D16, 16-10-24-38		
P	0027658		GND13D16	=-GND		
P	0027658			13D16, 16-10-24-38		
P	0027659		GND14D16	=-GND		
P	0027659			14D16, 16-10-24-38		
P	0027660		GND15D16	=-GND		
P	0027660			15D16, 16-10-24-38		
P	0027661		GND16D16	=-GND		
P	0027661			16D16, 16-10-24-38		
P	0027662		GND17D16	=-GND		
P	0027662			17D16, 16-10-24-38		
P	0027663		GND18D16	=-GND		
P	0027663			18D16, 16-10-24-38		
P	0027664		GND19D16	=-GND		
P	0027664			19D16, 16-10-24-38		
P	0027665		GND20D16	=-GND		
P	0027665			20D16, 16-10-24-38		

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SANTA MONICA, CALIFORNIA

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS																		
	1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	
P	0027666		GND21D16	==GND																				
P	0027666			21D16,16-10-24-38																				
P	0027667		GND22D16	==GND																				
P	0027667			22D16,16-10-24-38																				
P	0027668		GND23D16	==GND																				
P	0027668			23D16,16-10-24-38																				
P	0027669		GND24D16	==GND																				
P	0027669			24D16,16-10-24-38																				
P	0027670		GND25D16	==GND																				
P	0027670			25D16,16-10-24-38																				
P	0027671		GND26D16	==GND																				
P	0027671			26D16,16-10-24-38																				
P	0027672		GND27D16	==GND																				
P	0027672			27D16,16-10-24-38																				
P	0027673		GND28D16	==GND																				
P	0027673			28D16,16-10-24-38																				
P	0027674		GND29D16	==GND																				
P	0027674			29D16,16-10-24-38																				
P	0027675		GND30D16	==GND																				
P	0027675			30D16,16-10-24-38																				
P	0027700		HO	==NFB																				
P	0027700			23C22,22-10D18T-31C35C-31D35C																				
P	0027800		NHO	==FB																				
P	0027800			23C20,20-15C29T																				
P	0027810		S/HO	** +.HXJM1	.NJ2	.NJ1	.NJ0																	
P	0027810			23C\$, \$, 23,	36,	34,	33																	
P	0027811			+ .HXJP1	.J1AJ2	.NJ0																		
P	0027811			23C\$, 31,	30,	29																		
P	0027812			+ .HUXM	.M29																			
P	0027812			23C\$, 37,	35																			
P	0027813			+ .GND23C16																				
P	0027813			23C\$, 40																				
P	0027820		R/HO	** +.HXJM1	.NJ2	.NJ1	.JO																	
P	0027820			23C\$, \$, 42,	44,	46,	38																	
P	0027821			+ .HXJP1	.J1AJ2	.JO																		
P	0027821			23C\$, 39,	41,	43																		
P	0027822			+ .HUX0	.																			
P	0027822			23C\$, 45,	47																			



SCIENTIFIC DATA SYSTEMS
SANTA MONICA, CALIFORNIA

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
	1	2	3	4	5	6
	7	8	9	10	11	12
	13	14	15	16	17	18
	19	20	21	22	23	24
	25	26	27	28	29	30
	31	32	33	34	35	36
	37	38	39	40	41	42
	43	44	45	46	47	48
	49	50	51	52	53	54
	55	56	57	58	59	60
	61	62	63	64	65	66
	67	68	69	70	71	72
	73	74	75	76	77	78
	79	80	81	82	83	84
	85	86	87	88	89	90
	91	92	93	94	95	96
	97	98	99	100	101	102
	103	104	105	106	107	108
	109	110	111	112	113	114
	115	116	117	118	119	120
	121	122	123	124	125	126
	127	128	129	130	131	132
	133	134	135	136	137	138
	139	140	141	142	143	144
	145	146	147	148	149	150
	151	152	153	154	155	156
	157	158	159	160	161	162
	163	164	165	166	167	168
	169	170	171	172	173	174
	175	176	177	178	179	180
	181	182	183	184	185	186
	187	188	189	190	191	192
	193	194	195	196	197	198
	199	200	201	202	203	204
	205	206	207	208	209	210
	211	212	213	214	215	216
	217	218	219	220	221	222
	223	224	225	226	227	228
	229	230	231	232	233	234
	235	236	237	238	239	240
	241	242	243	244	245	246
	247	248	249	250	251	252
	253	254	255	256	257	258
	259	260	261	262	263	264
	265	266	267	268	269	270
	271	272	273	274	275	276
	277	278	279	280	281	282
	283	284	285	286	287	288
	289	290	291	292	293	294
	295	296	297	298	299	300

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CODE LINE NO. CHG LOGIC EQUATIONS / PINS / REMARKS

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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70

P	0028420		R/H2	=* +.HXJM1	.J2	.	.	.
P	0028420			25C\$, \$, 42,	44,	46,	50,	38
P	0028421			+ .HXJP1	.J2	.	.	.
P	0028421			25C\$, 39,	41,	43		
P	0028422			+ .HJX0	.	.	.	.
P	0028422			25C\$, 45,	47			
P	0028500		NH2F	=I* +.HJXBF	.BF2			
P	0028500			20C12, \$, \$, 10,	09			
P	0028501			+ .CM019	.EXTORD			
P	0028501			20C\$, 11,	04			
P	0028502			+ .CM018	.EXTORD			
P	0028502			20C\$, 03,	02			
P	0028503			-FBF				
P	0028503			25C24				
P	0028600		H3	=-FB				
P	0028600			26C25, 25-10D21T-31C38C-31D38C				
P	0028700		NH3	=-NFB				
P	0028700			26C23, 23-04B18T				
P	0028710		S/H3	=* +.PH6T0D1	.M7	.	.	.
P	0028710			26C\$, \$, 10,	02,	03		
P	0028711			+ .HJXBF	.BF3			
P	0028711			26C\$, 05,	07			
P	0028720		R/H3	=* +.HX0	.	.	.	.
P	0028720			26C\$, \$, 15,	13			
P	0028721			+ .GND26C16	.	.	.	.
P	0028721			26C\$, 11,	09			
P	0028800		H3F	=-FBF				
P	0028800			26C21				
P	0028900		H4	=-NFB				
P	0028900			27C23, 23-10D22T-31C39C-31D39C				
P	0029000		NH4	=-FB				
P	0029000			27C25, 25-15C30T				
P	0029010		S/H4	=* +.PH13T0	.A4	.	.	.
P	0029010			27C\$, \$, 15,	13			
P	0029011			+ .HJXBF	.BF4			
P	0029011			27C\$, 11,	09			
P	0029020		R/H4	=* +.HX0	.	.	.	.
P	0029020			27C\$, \$, 05,	07			
P	0029021			+ .GND27C16	.	.	.	.
P	0029021			27C\$, 10,	02,	03		

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
	1	2	3	4	5	6
	8	9	10	15	20	25
	30	35	40	45	50	55
	60	65	70	75	80	85
	90	95	100	105	110	115
	120	125	130	135	140	145
	150	155	160	165	170	175
	180	185	190	195	200	205
	210	215	220	225	230	235
	240	245	250	255	260	265
	270	275	280	285	290	295
	300	305	310	315	320	325
	330	335	340	345	350	355
	360	365	370	375	380	385
	390	395	400	405	410	415
	420	425	430	435	440	445
	450	455	460	465	470	475
	480	485	490	495	500	505
	510	515	520	525	530	535
	540	545	550	555	560	565
	570	575	580	585	590	595
	600	605	610	615	620	625
	630	635	640	645	650	655
	660	665	670	675	680	685
	690	695	700	705	710	715
	720	725	730	735	740	745
	750	755	760	765	770	775
	780	785	790	795	800	805
	810	815	820	825	830	835
	840	845	850	855	860	865
	870	875	880	885	890	895
	900	905	910	915	920	925
	930	935	940	945	950	955
	960	965	970	975	980	985
	990	995	1000	1005	1010	1015

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C/1
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CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70
P	0029700		H6F	==FBF												
	0029700			29C24												
P	0029800		H7	==FB												
	0029800			30C25, 25-10, 25T-31C42C-31D42C												
P	0029900		NH7	==NFB												
	0029900			30C23												
P	0029910		S/H7	.* +.PH7T1D1	.CM005											
	0029910			30C\$, \$, 10,	02,											03
P	0029911			+ .PH13T0	.A7											
	0029911			30C\$, 05,	07											
P	0029920		R/H7	.* +.HX0	.											
	0029920			30C\$, \$, 15,	13											
P	0029921			+ .GND30C16	.											
	0029921			30C\$, 11,	09											
P	0030000		H7F	==FBF												
	0030000			30C21												
P	0030050		/HI9/	==CD *F2												
	0030050			14C\$, 15												
P	0030100		HJX0F	=I .NHJX0F	.NPH7T1D1											
	0030100			15C13, 04,	02, 13-32B42T											
P	0030200		NHJX0F	=I .PH1PD1	.T3D1-10	.0UT										
	0030200			15C33, 26,	25,	27, 33-15C31T										
P	0030201			I .PH2PD2	.T3D2	.F1										
	0030201			15C12, 06,	05,	07										
P	0030300		HUX0	=I .HUX0I	.HX0I	.NCM020	.NPH2T2D2									
	0030300			19C14, 21,	20,	29,	19, 14-15C33T									
P	0030400		HUX0I	=I .PH1D1	.T2D1-20	.0UT	.									
	0030400			19C15, 30,	18,	31,	17, 15-15C34T									
P	0030500		HUXM	=B .PH5D1-1	.T0D1-30	.NTRA	.									
	0030500			21C34, 24,	23,	22,	28, 34-15C35T									
P	0030600		HX0	=I .NCM020	.NPH2T2D2	.HX0I	.									
	0030600			19C34, 24,	23,	22,	28, 34-32B43T									
P	0030700		HX0I	=I .PH7D1	.T0D1-30											
	0030700			19C13, 04,	08, 13-15C36T											
P	0030701			I .PH13PD1	.T4D1-20											
	0030701			19C02, 03,	09											

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CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70					
P	0030900		HXJM1	=B .PH182D1	.T1D1-30	.H4
P	0030900			21C33,25,	25,	27,33-15C37T
P	0031000		HXJP1	=B .PH192D1	.T1D1-30	.NH4
P	0031000			21C12,06,	05,	07,12-15C38T
P	0031100		I0	=B* +.NIX0	.I0	
P	0031100			26A26X,\$,\$,23X,26X,26X+04B20T		
P	0031101			+.DA0	.IXDA	
P	0031101			26A\$,25,	18X	
P	0031102			+.IMB0	.IXMB	
P	0031102			26A\$,24,	22X	
P	0031200		N10	=I .I0	.	
P	0031200			27A45,43,	50X,45-20A26T	
P	0031300		I02EVEN	=B* +.N10	.N11	.N12
P	0031300			28A33X,\$,\$,43X,41X,		40X
P	0031301			+.N12	.I1	
P	0031301			28A\$,40X,	38X	
P	0031302			+.I0	.I2	.N11
P	0031302			28A\$,39X,	36X,	41X
P	0031303			+.N10	.I1	.I2
P	0031303			28A\$,43X,	38X,	36X
P	0031400		N102EVEN	=I .I02EVEN		
P	0031400			28A35,33X		
P	0031500		I1	=B* +.NIX0	.I1	
P	0031500			26A27X,\$,\$,23X,27X		
P	0031501			+.DA1	.IXDA	
P	0031501			26A\$,28,	18X	
P	0031502			+.IMB1	.IXMB	
P	0031502			26A\$,29,	22X	
P	0031600		N11	=I .I1	.	
P	0031600			27A44,42,	50X,44-20A27T	
P	0031700		I2	=B* +.NIX0	.I2	
P	0031700			26A12X,\$,\$,23X,12X		
P	0031701			+.DA2	.IXDA	
P	0031701			26A\$,11,	18X	
P	0031702			+.IMB2	.IXMB	
P	0031702			26A\$,10,	22X	
P	0031800		N12	=I .I2	.	
P	0031800			27A46,30,	50X,46-20A28T	

123653-001
03/17

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
	1	2	3	4	5	6
	8	9	10	11	12	13
	15	16	17	18	19	20
	20	21	22	23	24	25
	25	26	27	28	29	30
	30	31	32	33	34	35
	35	36	37	38	39	40
	40	41	42	43	44	45
	45	46	47	48	49	50
	50	51	52	53	54	55
	55	56	57	58	59	60
	60	61	62	63	64	65
	65	66	67	68	69	70
	70	71	72	73	74	75
	75	76	77	78	79	80
	80	81	82	83	84	85
	85	86	87	88	89	90
	90	91	92	93	94	95
	95	96	97	98	99	100
	100	101	102	103	104	105
	105	106	107	108	109	110
	110	111	112	113	114	115
	115	116	117	118	119	120
	120	121	122	123	124	125
	125	126	127	128	129	130
	130	131	132	133	134	135
	135	136	137	138	139	140
	140	141	142	143	144	145
	145	146	147	148	149	150
	150	151	152	153	154	155
	155	156	157	158	159	160
	160	161	162	163	164	165
	165	166	167	168	169	170
	170	171	172	173	174	175
	175	176	177	178	179	180
	180	181	182	183	184	185
	185	186	187	188	189	190
	190	191	192	193	194	195
	195	196	197	198	199	200

123553-001
03/18/76

CODE	LINE NO.	CHC	LOGIC	EQUATIONS	PINS	REMARKS
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123653-001
03/13/62

P	0032900		I68EVEN	=B* +.N16	.N17	.NIP
P	0032900			28A31X, 23X, 22X,		24X
P	0032901			+ .NIP	.I7	.I6
P	0032901			28A#, 24X,	25X,	25X
P	0032902			+ .I6	.IP	.N17
P	0032902			28A#, 25X,	27X,	22X
P	0032903			+ .N16	.I7	.IP
P	0032903			28A#, 23X,	26X,	27X
P	0033000		NI68EVEN	=I	.I68EVEN	
P	0033000			28A29, 31X		
P	0033100		I7	=B* +.NIX0	.I7	
P	0033100			26A07X, 30X, 07X		
P	0033101			+ .DA7	.IXDA	
P	0033101			26A#, 04,	13X	
P	0033102			+ .IMB7	.IXMB	
P	0033102			26A#, 03,	05X	
P	0033200		NI7	=I	.I7	
P	0033200			27A34, 40,	33X, 34-20A34T	
P	0033300		IC	=-CR */IC/		
P	0033300			14B40, #		
P	0033310		/IC/	=-NS		
P	0033310					
P	0033400		IEVEN	=B* +.I02EVEN	.I35EVEN	.I68EVEN
P	0033400			28A30X, 21X, 18X,		15X
P	0033401			+ .I68EVEN	.NI35EVEN	.NI02EVEN
P	0033401			28A#, 15X,	19X,	17X
P	0033402			+ .NI02EVEN	.NI68EVEN	.I35EVEN
P	0033402			28A#, 17X,	20X,	18X
P	0033403			+ .NI68EVEN	.NI35EVEN	.I02EVEN
P	0033403			28A#, 20X,	19X,	21X
P	0033500		IMB0	=B* +.GND25A16	.IMB0	
P	0033500			25A37X, 27X, 37X		
P	0033501			+ .M0	.IXMB0	
P	0033501			25A#, 45,	30X	
P	0033502			+ .M8	.IXMB1	
P	0033502			25A#, 46,	31X	
P	0033503			+ .M16	.IXMB2	
P	0033503			25A#, 47,	29X	
P	0033504			+ .M24	.IXMB3	
P	0033504			25A#, 50,	28X	

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
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0371765

P	0033600		IMB1	=B* +.GND25A16	.IMB1	
P	0033600			25A33X, 27X, 33X		
P	0033601			+.M1	.IXMB0	
P	0033601			25A, 26,	30X	
P	0033602			+.M9	.IXMB1	
P	0033602			25A, 25,	31X	
P	0033603			+.M17	.IXMB2	
P	0033603			25A, 24,	29X	
P	0033604			+.M25	.IXMB3	
P	0033604			25A, 23,	28X	
P	0033700		IMB2	=B* +.GND25A16	.IMB2	
P	0033700			25A34X, 27X, 34X		
P	0033701			+.M2	.IXMB0	
P	0033701			25A, 41,	30X	
P	0033702			+.M10	.IXMB1	
P	0033702			25A, 40,	31X	
P	0033703			+.M18	.IXMB2	
P	0033703			25A, 43,	29X	
P	0033704			+.M26	.IXMB3	
P	0033704			25A, 44,	28X	
P	0033800		IMB3	=B* +.GND25A16	.IMB3	
P	0033800			25A35X, 27X, 35X		
P	0033801			+.M3	.IXMB0	
P	0033801			25A, 42,	30X	
P	0033802			+.M11	.IXMB1	
P	0033802			25A, 39,	31X	
P	0033803			+.M19	.IXMB2	
P	0033803			25A, 36,	29X	
P	0033804			+.M27	.IXMB3	
P	0033804			25A, 38,	28X	
P	0033900		IMB4	=B* +.GND25A16	.IMB4	
P	0033900			25A18X, 17X, 18X		
P	0033901			+.M4	.IXMB0	
P	0033901			25A, 19,	30X	
P	0033902			+.M12	.IXMB1	
P	0033902			25A, 20,	31X	
P	0033903			+.M20	.IXMB2	
P	0033903			25A, 21,	29X	
P	0033904			+.M28	.IXMB3	
P	0033904			25A, 22,	28X	

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70

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0371

	0034000		IMB5	=B* +.GND25A16	.IMB5	
P	0034000			25A13X, \$, \$, 17X, 13X		
	0034001			+ .M5	.IXMB0	
P	0034001			25A\$, 04,	30X	
	0034002			+ .M13	.IXMB1	
P	0034002			25A\$, 03,	31X	
	0034003			+ .M21	.IXMB2	
P	0034003			25A\$, 02,	29X	
	0034004			+ .M29	.IXMB3	
P	0034004			25A\$, 01,	28X	
	0034100		IMB6	=B* +.GND25A16	.IMB6	
P	0034100			25A14X, \$, \$, 17X, 14X		
	0034101			+ .M6	.IXMB0	
P	0034101			25A\$, 07,	30X	
	0034102			+ .M14	.IXMB1	
P	0034102			25A\$, 08,	31X	
	0034103			+ .M22	.IXMB2	
P	0034103			25A\$, 12,	29X	
	0034104			+ .M30	.IXMB3	
P	0034104			25A\$, 05,	28X	
	0034200		IMB7	=B* +.GND25A16	.IMB7	
P	0034200			25A15X, \$, \$, 17X, 15X		
	0034201			+ .M7	.IXMB0	
P	0034201			25A\$, 06,	30X	
	0034202			+ .M15	.IXMB1	
P	0034202			25A\$, 10,	31X	
	0034203			+ .M23	.IXMB2	
P	0034203			25A\$, 11,	29X	
	0034204			+ .M31	.IXMB3	
P	0034204			25A\$, 09,	28X	
	0034300		I8PA0	=-CR */I8PA0/		
P	0034300			12C08, \$		
	0034310		/I8PA0/	=-CD *GND12C32		
P	0034310			12C\$, 03		
	0034350		NI8PA0	=I* +.I8PA0		
P	0034350			13C42X, \$, \$, 44X		
	0034400		I8PA1	=-CR */I8PA1/		
P	0034400			12C13, \$		
	0034410		/I8PA1/	=-CD *GND12C32		
P	0034410			12C\$, 12		
	0034450		NI8PA1	=I* +.I8PA1		
P	0034450			13C25X, \$, \$, 26X		

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
P	0034500		I0PA2	=-CR */I0PA2/ 12C18,\$		
P	0034510		/I0PA2/	=-CD *GND12C32 12C\$,15		
P	0034550		NI0PA2	=I* +.I0PA2 13C22X,\$\$,17X		
P	0034600		I0R	=-CR */I0R/ 14B34,\$		
P	0034610		/I0R/	=-NS		
P	0034700		IP	=B* +.NIXO .IP 30A24,\$\$,35,30,24-30B18T		
P	0034710			+ .IXDA .JAP 30A\$,31, 33, 34		
P	0034800		NIP	=I .IP 27A26,24, 29X,26-20A35T		
P	0034900		IR	=-FB 12B27		
P	0035000		NIR	=-NFB 12B26		
P	0035010		S/IR	=* +.CM033 .NAI0FN .IC 12B\$,19, 17, 18, 14		
P	0035011			+ .GND12B16 12B\$,01		
P	0035020		R/IR	=* +.RESET=1 12B\$,04		
P	0035021			+ .PH12PD1 .0RD 12B\$,06, 12, 08		
P	0035030		/IR/	=-CD *IR 12C\$,39		
P	0035100		NIXO	=I* +.PH4PD1 .T3D1=00 30A12,\$\$,10, 09,12-20A36T		
P	0035101			+ .PH2D2 .T2D2=0 30A\$,11, 04		
P	0035102			+ .N0UT .PH2T0D1 30A\$,03, 02		
P	0035103			I .0UT .T3D1=00 .PH102PD1 30A23,40, 38, 39		

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03710

C/

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
P	0035200		IXDA	=I .IXDAI .NCM010		
P	0035200			11A13,04, 08,13-32344T		
P	0035300		IXDAI	=I .PH102D1 .T101=00 .N0UT		
P	0035300			11A33,26, 25, 27,33-07A28T		
P	0035400		IXMB	=-FB		
P	0035400			05A20,20-20A37T		
P	0035500		MIXMB	=-NFB		
P	0035500			05A22		
P	0035510		S/IXMB	=* +.PH102PD1 .T3D1=00 .0UT .		
P	0035510			05A\$, \$, 42, 44, 46, 50, 38		
P	0035511			+ .PH2PD2 .T3D2 .CM044		
P	0035511			05A\$, 39, 41, 43		
P	0035512			+ .PH4PD1 .T3D1=00		
P	0035512			05A\$, 43, 47		
P	0035520		R/IXMB	=* +.GND05A16 .		
P	0035520			05A\$, \$, 23, 36, 34, 33		
P	0035521			+ .GND05A16 .		
P	0035521			05A\$, 31, 30, 29,		
P	0035522			+ .PH2T1D2 .		
P	0035522			05A\$, 37, 35		
P	0035523			+ .T3D1=00		
P	0035523			05A\$, 40		
P	0035600		IXMBO	=B .NH1 .NH2		
P	0035600			13A45,39, 42		
P	0035700		IXMB1	=B .NH1 .H2		
P	0035700			13A46,40, 41		
P	0035800		IXMB2	=B .NH2 .H1		
P	0035800			13A02,09, 03		
P	0035900		IXMB3	=B .H1 .H2		
P	0035900			13A13,04, 08		
P	0036000		IXMBF	=-FBF		
P	0036000			05A24		
P	0036100		JO	=-FB		
P	0036100			23C25,25-04B21T		
P	0036200		NJO	=-NFB		
P	0036200			23C23,23-15C39T		

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63710/6

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70
																123653-001
																03/12/59
P	0036210		S/J0	=* +.JXH	.H0	.										
	0036210			23C\$, \$, 10,	.02,	03,										
	0036211			+ .HJXBF	.BF0											
P	0036211			23C\$, 05,	07											
P	0036220		R/J0	=* +.PH2T2D2	.											
	0036220			23C\$, \$, 15,	13											
	0036221			+ .JXH	.NH0											
P	0036221			23C\$, 11,	09											
P	0036300		J0F	=-FBF												
	0036300			23C21												
P	0036400		J1	=-FB												
	0036400			24C25, 25-07A29T												
P	0036500		NJ1	=-NFB												
	0036500			24C23, 23-07A30T												
P	0036510		S/J1	=* +.JXH	.H1	.										
	0036510			24C\$, \$, 10,	.02,	03										
	0036511			+ .HJXBF	.BF1											
P	0036511			24C\$, 05,	07											
P	0036520		R/J1	=* +.PH2T2D2	.											
	0036520			24C\$, \$, 15,	13											
	0036521			+ .JXH	.NH1											
P	0036521			24C\$, 11,	09											
P	0036600		J1AJ2	=B .J1	.J2											
	0036600			21C36, 44,	37											
P	0036700		J1F	=-FBF												
	0036700			24C21												
P	0036800		J2	=-FB												
	0036800			25C25, 25-07A31T												
P	0036900		NJ2	=-NFB												
	0036900			25C23, 23-07A33T												
P	0036910		S/J2	=* +.JXH	.H2	.										
	0036910			25C\$, \$, 10,	.02,	03										
	0036911			+ .HJXBF	.BF2											
P	0036911			25C\$, 05,	07											
P	0036920		R/J2	=* +.PH2T2D2	.											
	0036920			25C\$, \$, 15,	13											
	0036921			+ .JXH	.NH2											
P	0036921			25C\$, 11,	09											

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS												
	1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	123653-001
																		0371
P	0037000		J2F	=-FBF														
P	0037000			25C21														
P	0037100		JXH	=B	.PH102PD1	.T401-10												
P	0037100			21C46,40,		41												
P	0037150		K0	=B* +.C2		.C1												.K2
P	0037150			31B31X,\$,\$,22X,		21X,												44X
P	0037151			+ .SUB=4		.K2												
P	0037151			31B\$,47X,		44X												
P	0037152			I* +.C2		.SUB=4												
P	0037152			31B31X,\$,\$,22X,		47X												
P	0037153			+ .C1		.SUB=4												
P	0037153			31B\$,21X,		47X												
P	0037200		K1	=B* +.C2		.K2												
P	0037200			31B41X,\$,\$,22X,		44X												
P	0037201			+ .SUB=4		.K2												
P	0037201			31B\$,47X,		44X												
P	0037202			I* +.C2		.SUB=4												
P	0037202			31B41X,\$,\$,22X,		47X												
P	0037300		K10	=B* +.C11		.K11												
P	0037300			27B41X,\$,\$,22X,		44X												
P	0037301			+ .SUB=1		.K11												
P	0037301			27B\$,47X,		44X												
P	0037302			I* +.C11		.SUB=1												
P	0037302			27B41X,\$,\$,22X,		47X												
P	0037400		K11	=B	.KP12T14	.KP15												.K15
P	0037400			28B12,06,		05,												07
P	0037450		K12	=B* +.C14		.C13												.K14
P	0037450			26B31X,\$,\$,22X,		21X,												44X
P	0037451			+ .SUB		.K14												
P	0037451			26B\$,47X,		44X												
P	0037452			I* +.C14		.SUB												
P	0037452			26B31X,\$,\$,22X,		47X												
P	0037453			+ .C13		.SUB												
P	0037453			26B\$,21X,		47X												
P	0037500		K13	=B* +.C14		.K14												
P	0037500			26B41X,\$,\$,22X,		44X												
P	0037501			+ .SUB		.K14												
P	0037501			26B\$,47X,		44X												
P	0037502			I* +.C14		.SUB												
P	0037502			26B41X,\$,\$,22X,		47X												
P	0037600		K14	=B	.KP15	.K15												
P	0037600			28B36,44,		37												

SDS

SCIENTIFIC DATA SYSTEMS
SANTA MONICA, CALIFORNIA

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	C/L										
	1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70
P	0037700		K15	=-FB	23B20, 20-32B45T												
P	0037800		NK15	=-NFB	23B22, 22-30B19P												
P	0037810		S/K15	=* +.PH5PD1	.T4D1-10	.TRA											
P	0037810			23B\$, 3, 42,	44,	46,	50,	38									
P	0037811			+.PH2T2D2	.	.											
P	0037811			23B\$, 39,	41,	43											
P	0037812			+.GND23B32	.	.											
P	0037812			23B\$, 45,	47												
P	0037820		R/K15	=* +.PH4PD1	.T4D1-10	.MS-1											
P	0037820			23B\$, \$, 28,	36,	34,	33										
P	0037821			+.PH7D1	.T0D1-10	.											
P	0037821			23B\$, 31,	30,	29											
P	0037822			+.CM006	.T2D1-00												
P	0037822			23B\$, 37,	35												
P	0037823			+.PH12T0													
P	0037823			23B\$, 40													
P	0037900		K15F	=-FBF	23B24												
P	0038000		K2	=B .KP3T5	.KP6T8	.KP9T11	.KP12T14										
P	0038000			28B15, 30,	18,	31,	17										
P	0038001			B .KP15	.K15												
P	0038001			28B45, 39,	42												
P	0038050		K3	=B* +.C5	.C4	.K5											
P	0038050			30B31X, \$, \$, 22X,	21X,	44X											
P	0038051			+.SUB-3	.K5												
P	0038051			30B\$, 47X,	44X												
P	0038052			I* +.C5	.SUB-3												
P	0038052			30B31X, \$, \$, 22X,	47X												
P	0038053			+.C4	.SUB-3												
P	0038053			30B\$, 21X,	47X												
P	0038100		K4	=B* +.C5	.K5												
P	0038100			30B41X, \$, \$, 22X,	44X												
P	0038101			+.SUB-3	.K5												
P	0038101			30B\$, 47X,	44X												
P	0038102			I* +.C5	.SUB-3												
P	0038102			30B41X, \$, \$, 22X,	47X												
P	0038200		K5	=B .KP6T8	.KP9T11	.KP12T14											
P	0038200			28B33, 26,	25,	27											
P	0038201			B .KP15	.K15												
P	0038201			28B35, 38,	43												

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS											
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	C/L
				SIGMA 1.0 + P. 8471													
P	0038250		K6	=B* +.C8	.C7	.K8											
P	0038250			29B31X, \$, \$, 22X, 21X,		44X											
P	0038251			+ .SUB-2	.K8												
P	0038251			29B\$, 47X,	44X												
P	0038252			I* +.C8	.SUB-2												
P	0038252			29B31X, \$, \$, 22X, 47X													
P	0038253			+ .C7	.SUB-2												
P	0038253			29B\$, 21X,	47X												
P	0038300		K7	=B* +.C8	.K8												
P	0038300			29B41X, \$, \$, 22X, 44X													
P	0038301			+ .SUB-2	.K8												
P	0038301			29B\$, 47X,	44X												
P	0038302			I* +.C8	.SUB-2												
P	0038302			29B41X, \$, \$, 22X, 47X													
P	0038400		K8	=B .KP9T11	.KP12T14	.KP15											
P	0038400			28B14, 21,	20,	29,											
P	0038450		K9	=B* +.C11	.C10	.K11											
P	0038450			27B31X, \$, \$, 22X, 21X,		44X											
P	0038451			+ .SUB-1	.K11												
P	0038451			27B\$, 47X,	44X												
P	0038452			I* +.C11	.SUB-1												
P	0038452			27B31X, \$, \$, 22X, 47X													
P	0038453			+ .C10	.SUB-1												
P	0038453			27B\$, 21X,	47X												
P	0038500		KPOT2	=B* +.C2	.C1	.C0											
P	0038500			31B33X, \$, \$, 22X, 21X,		29X,											
P	0038501			+ .SUB-4	.												
P	0038501			31B\$, 47X,	01X												
P	0038502			I* +.C2	.SUB-4												
P	0038502			31B33X, \$, \$, 22X, 47X													
P	0038503			+ .C1	.SUB-4												
P	0038503			31B\$, 21X,	47X												
P	0038504			+ .C0	.SUB-4												
P	0038504			31B\$, 29X,	47X												
P	0038600		KP12T14	=B* +.C14	.C13	.C12											
P	0038600			26B33X, \$, \$, 22X, 21X,		29X,											
P	0038601			+ .SUB	.												
P	0038601			26B\$, 47X,	01X												
P	0038602			I* +.C14	.SUB												
P	0038602			26B33X, \$, \$, 22X, 47X													
P	0038603			+ .C13	.SUB												
P	0038603			26B\$, 21X,	47X												
P	0038604			+ .C12	.SUB												
P	0038604			26B\$, 29X,	47X												

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SDS

SCIENTIFIC DATA SYSTEMS
SANTA MONICA, CALIFORNIA

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70
				SIGMA 1-0+P-6471												
P	0039210		S/LS0	=*	+PH182PD1	.T3D1-10	.Z3C	.	.							
	0039210			26C	\$,42,	44,	46,	50,	38							
P	0039211				+PH1T2D1	.ARD	.	.								
	0039211			26C	\$,39,	41,	43									
P	0039212				+CM034	.	.									
	0039212			26C	\$,45,	47										
P	0039220		R/LS0	=*	+PH5D1-1	.T0D1-30	.NTRA	.	.							
	0039220			26C	\$,28,	36,	34,	33								
P	0039221				+GND26C16	.	.									
	0039221			26C	\$,31,	30,	29									
P	0039222				+CM002	.	.									
	0039222			26C	\$,37,	35										
P	0039223				+LSORR	.	.									
	0039223			26C	\$,40											
P	0039300		LS0F	=-FBF												
	0039300			26C	24											
P	0039400		LS1	=-NFB												
	0039400			27C	22,22-15D07T-31C46C-31D46C											
P	0039500		NLS1	=-FB												
	0039500			27C	20											
P	0039510		S/LS1	=*	+PH1PD1	.T4D1-10	.ED	.NBUT	.	.						
	0039510			27C	\$,28,	36,	34,	33								
P	0039511				+PH2PD1	.T4D1-10	.ED									
	0039511			27C	\$,31,	30,	29									
P	0039512				+PH6PD1	.T4D1-10	.									
	0039512			27C	\$,37,	35										
P	0039513				+CM001	.	.									
	0039513			27C	\$,40											
P	0039520		R/LS1	=*	+CM003	.T4D1-10	.	.								
	0039520			27C	\$,42,	44,	46,	50,	38							
P	0039521				+PH4PD1	.T4D1-10	.									
	0039521			27C	\$,39,	41,	43									
P	0039522				+CM002	.	.									
	0039522			27C	\$,45,	47										
P	0039600		LS1SR	=-CR	*/LS1S/											
	0039600			01D	42,\$,42-09D07C-09C07C											
P	0039605		/LS1S/	=-NS												
	0039605															
P	0039700		LS2	=-FB												
	0039700			30C	20,20-11D07T-31C47C-31D47C											

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CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
1	2	8	9	10	15	20
				SIGMA I + B * P		123653-001 03/17/70
P	0039800		NLS2	=-NFB		
P	0039800			30C22		
P	0039810		S/LS2	=* +.PH182PD1 .T4D1-10 .T0RD		. 38
P	0039810			30C\$, \$, 42, 44,	46,	50,
P	0039811			+ .PH6PD1 .T4D1-10		.
P	0039811			30C\$, 39,	41,	43
P	0039812			+ .CM034 .		
P	0039812			30C\$, 45,	47	
P	0039820		R/LS2	=* +.PH4PD1 .T4D1-10		.
P	0039820			30C\$, \$, 28,	36,	34,
P	0039821			+ .PH13PD1 .T4D1-10		.
P	0039821			30C\$, 31,	30,	29
P	0039822			+ .GND30C16 .		
P	0039822			30C\$, 37,	35	
P	0039823			+ .CM002		
P	0039823			30C\$, 40		
P	0039900		LS2F	=-F3F		
P	0039900			30C24		
P	0039950		LSORR	=-CR */LSOR/		
P	0039950			01D40, \$, 40-09D06C-09C06C		
P	0039955		/LSOR/	=-NS		
P	0039955					
P	0039969		/LX15/	=-CD *S15		
P	0039969			12A\$, 01		
P	0039971		/LX16/	=-CD *S16		
P	0039971			12A\$, 02		
P	0039973		/LX17/	=-CD *S17		
P	0039973			12A\$, 03		
P	0039975		/LX18/	=-CD *S18		
P	0039975			12A\$, 09		
P	0039977		/LX19/	=-CD *S19		
P	0039977			12A\$, 12		
P	0039979		/LX20/	=-CD *S20		
P	0039979			12A\$, 15		
P	0039981		/LX21/	=-CD *S21		
P	0039981			12A\$, 19		
P	0039983		/LX22/	=-CD *S22		
P	0039983			12A\$, 23		

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS																		
	1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95		
P	0039985		/LX23/	=-CD *S23																				
P	0039985			12A\$,25																				
P	0039987		/LX24/	=-CD *S24																				
P	0039987			12A\$,33																				
P	0039989		/LX25/	=-CD *S25																				
P	0039989			12A\$,35																				
P	0039991		/LX26/	=-CD *S26																				
P	0039991			12A\$,37																				
P	0039993		/LX27/	=-CD *S27																				
P	0039993			12A\$,39																				
P	0039995		/LX28/	=-CD *S28																				
P	0039995			12A\$,45																				
P	0039996		/LX29/	=-CD *S29																				
P	0039996			14A\$,12																				
P	0039997		/LX30/	=-CD *S30																				
P	0039997			14A\$,15																				
P	0039998		/LX31/	=-CD *S31																				
P	0039998			14A\$,19																				
P	0040000		M0	=B* +.NMUX0-0 .M0																				
P	0040000			21A37X,\$,\$,27X,37X																				
P	0040001			+ .I0 .MBOXI																				
P	0040001			21A\$,45, 30X																				
P	0040002			+ .A000 .MXADD-0																				
P	0040002			21A\$,46, 31X																				
P	0040003			+ .MXFR .FR0																				
P	0040003			21A\$,29X, 47																				
P	0040004			+ .M00 .MXM-0																				
P	0040004			21A\$,50, 28X																				
P	0040100		M1	=B* +.NMUX0-0 .M1																				
P	0040100			21A33X,\$,\$,27X,33X																				
P	0040101			+ .I1 .MBOXI																				
P	0040101			21A\$,26, 30X																				
P	0040102			+ .ADD1 .MXADD-0																				
P	0040102			21A\$,25, 31X																				
P	0040103			+ .FR1 .MXFR																				
P	0040103			21A\$,24, 29X																				
P	0040104			+ .MD1 .MXM-0																				
P	0040104			21A\$,23, 28X																				

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CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
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1 2 3 4 5 6 7 8 9 10 15 20 25 30 35 40 45 50 55 60 65 70

	0040200		M10	#B* +.NMUXD-1 .M10		
P	0040200			22A34X, \$, \$, 27X, 34X		
	0040201			+ .I2 .MB1XI		
P	0040201			22A\$, 41, 30X		
	0040202			+ .ADD10 .MXADD-1		
P	0040202			22A\$, 40, 31X		
	0040203			+ .BF0 .MXIS		
P	0040203			22A\$, 43, 29X		
	0040204			+ .MD10 .MXM-1		
P	0040204			22A\$, 44, 28X		
	0040300		M11	#B* +.NMUXD-1 .M11		
P	0040300			22A35X, \$, \$, 27X, 35X		
	0040301			+ .I3 .MB1XI		
P	0040301			22A\$, 42, 30X		
	0040302			+ .ADD11 .MXADD-1		
P	0040302			22A\$, 39, 31X		
	0040303			+ .BF1 .MXIS		
P	0040303			22A\$, 36, 29X		
	0040304			+ .MD11 .MXM-1		
P	0040304			22A\$, 38, 28X		
	0040400		M12	#B* +.NMUXD-1 .M12		
P	0040400			22A18X, \$, \$, 17X, 18X		
	0040401			+ .I4 .MB1XI		
P	0040401			22A\$, 19, 30X		
	0040402			+ .ADD12 .MXADD-1		
P	0040402			22A\$, 20, 31X		
	0040403			+ .BF2 .MXIS		
P	0040403			22A\$, 21, 29X		
	0040404			+ .MD12 .MXM-1		
P	0040404			22A\$, 22, 28X		
	0040500		M13	#B* +.NMUXD-1 .M13		
P	0040500			22A13X, \$, \$, 17X, 13X		
	0040501			+ .I5 .MB1XI		
P	0040501			22A\$, 04, 30X		
	0040502			+ .ADD13 .MXADD-1		
P	0040502			22A\$, 03, 31X		
	0040503			+ .GND22A16 .MXIS		
P	0040503			22A\$, 02, 29X		
	0040504			+ .MD13 .MXM-1		
P	0040504			22A\$, 01, 28X		

CODE	LINE NO.	CHK	LOGIC	EQUATIONS	PINS	REMARKS
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70					123653-001
				SIGMA 1-8 P 54/1		76 03/13/76
P	0040600		M14	=B* +.NMUX0-1 .M14		
P	0040600			22A14X, \$, \$, 17X, 14X		
P	0040601			+ .I6 .MB1XI		
P	0040601			22A\$, 07, 30X		
P	0040602			+ .ADD14 .MXADD-1		
P	0040602			22A\$, 08, 31X		
P	0040603			+ .GND22A16 .MXIS		
P	0040603			22A\$, 12, 29X		
P	0040604			+ .MD14 .MXM-1		
P	0040604			22A\$, 05, 28X		
P	0040700		M15	=B* +.NMUX0-1 .M15		
P	0040700			22A15X, \$, \$, 17X, 15X		
P	0040701			+ .I7 .MB1XI		
P	0040701			22A\$, 06, 30X		
P	0040702			+ .ADD15 .MXADD-1		
P	0040702			22A\$, 10, 31X		
P	0040703			+ .GND22A16 .MXIS		
P	0040703			22A\$, 11, 29X		
P	0040704			+ .MD15 .MXM-1		
P	0040704			22A\$, 09, 28X		
P	0040800		M16	=B* +.NMLX0-0 .M16		
P	0040800			23A37X, \$, \$, 27X, 37X		
P	0040801			+ .I0 .MB2XI		
P	0040801			23A\$, 45, 30X		
P	0040802			+ .GND23A32 .MXA		
P	0040802			23A\$, 46, 31X		
P	0040803			+ .BC0 .MXBC-0		
P	0040803			23A\$, 47, 29X		
P	0040804			+ .MD16 .MXM-2		
P	0040804			23A\$, 50, 28X		
P	0040900		M17	=B* +.NMLX0-0 .M17		
P	0040900			23A33X, \$, \$, 17X, 33X		
P	0040901			+ .I1 .MB2XI		
P	0040901			23A\$, 26, 30X		
P	0040902			+ .GND23A32 .MXA		
P	0040902			23A\$, 25, 31X		
P	0040903			+ .BC1 .MXBC-0		
P	0040903			23A\$, 24, 29X		
P	0040904			+ .MD17 .MXM-2		
P	0040904			23A\$, 23, 28X		

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70

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	0041000		M18	=B* +.NMLX0-0 .M18												
P	0041000			23A34X, \$, \$, 27X, 34X												
	0041001			+ .I2 .MB2XI												
P	0041001			23A\$, 41, 30X												
	0041002			+ .GND23A32 .MXA												
P	0041002			23A\$, 40, 31X												
	0041003			+ .BC2 .MXBC-0												
P	0041003			23A\$, 43, 29X												
	0041005			+ .MD18 .MXM-2												
P	0041005			23A\$, 44, 28X												

	0041100		M19	=B* +.NMLX0-0 .M19												
P	0041100			23A35X, \$, \$, 27X, 35X												
	0041101			+ .I3 .MB2XI												
P	0041101			23A\$, 42, 30X												
	0041102			+ .GND23A32 .MXA												
P	0041102			23A\$, 39, 31X												
	0041103			+ .BC3 .MXBC-0												
P	0041103			23A\$, 36, 29X												
	0041104			+ .MD19 .MXM-2												
P	0041104			23A\$, 38, 28X												

	0041200		M2	=B* +.NMUX0-0 .M2												
P	0041200			21A34X, \$, \$, 27X, 34X												
	0041201			+ .I2 .MBOXI												
P	0041201			21A\$, 41, 30X												
	0041202			+ .ADD2 .MXADD-0												
P	0041202			21A\$, 40, 31X												
	0041203			+ .FR2 .MXFR												
P	0041203			21A\$, 43, 29X												
	0041204			+ .MD2 .MXM-0												
P	0041204			21A\$, 44, 28X												

	0041300		M20	=B* +.NMLX0-0 .M20												
P	0041300			23A18X, \$, \$, 17X, 18X												
	0041301			+ .I4 .MB2XI												
P	0041301			23A\$, 19, 30X												
	0041302			+ .GND23A32 .MXA												
P	0041302			23A\$, 20, 31X												
	0041303			+ .BC4 .MXBC-0												
P	0041303			23A\$, 21, 29X												
	0041304			+ .MD20 .MXM-2												
P	0041304			23A\$, 22, 28X												

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
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	0041400		M21	=B* +.NMLX0=0 .M21		
P	0041400			23A13X,\$,\$,17X,13X		
	0041401			+ .I5 .MB2XI		
P	0041401			23A\$,04, 30X		
	0041402			+ .UN0 .MXA		
P	0041402			23A\$,03, 31X		
	0041403			+ .BC5 .MXBC=0		
P	0041403			23A\$,02, 29X		
	0041404			+ .MD21 .MXM=2		
P	0041404			23A\$,01, 28X		

	0041500		M22	=B* +.NMLX0=0 .M22		
P	0041500			23A14X,\$,\$,17X,14X		
	0041501			+ .I6 .MB2XI		
P	0041501			23A\$,07, 30X		
	0041502			+ .UN1 .MXA		
P	0041502			23A\$,08, 31X		
	0041503			+ .BC6 .MXBC=0		
P	0041503			23A\$,12, 29X		
	0041504			+ .MD22 .MXM=2		
P	0041504			23A\$,05, 28X		

	0041600		M23	=B* +.NMLX0=0 .M23		
P	0041600			23A15X,\$,\$,17X,15X		
	0041601			+ .I7 .MB2XI		
P	0041601			23A\$,06, 30X		
	0041602			+ .UN2 .MXA		
P	0041602			23A\$,10, 31X		
	0041603			+ .BC7 .MXBC=0		
P	0041603			23A\$,11, 29X		
	0041604			+ .MD23 .MXM=2		
P	0041604			23A\$,09, 28X		

	0041700		M24	=B* +.NMLX0=1 .M24		
P	0041700			24A37X,\$,\$,27X,37X		
	0041701			+ .I0 .MB3XI		
P	0041701			24A\$,45, 30X		
	0041702			+ .A0 .MXA		
P	0041702			24A\$,46, 31X		
	0041703			+ .BC8 .MXBC=1		
P	0041703			24A\$,47, 29X		
	0041704			+ .MD24 .MXM=3		
P	0041704			24A\$,50, 28X		

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
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0042600 M4 =B* +.NMUX0=0 .M4
P 0042600 21A18X, \$, \$, 17X, 18X
0042601 +.I4 .MBOXI
P 0042601 21A\$, 19, 30X
0042602 +.ADD4 .MxADD=0
P 0042602 21A\$, 20, 31X
0042603 +.FR4 .MXFR
P 0042603 21A\$, 21, 29X
0042604 +.MD4 .MxM=0
P 0042604 21A\$, 22, 28X

0042700 M5 =B* +.NMUX0=0 .M5
P 0042700 21A13X, \$, \$, 17X, 13X
0042701 +.I5 .MBOXI
P 0042701 21A\$, 04, 30X
0042702 +.ADD5 .MxADD=0
P 0042702 21A\$, 03, 31X
0042703 +.FR5 .MXFR
P 0042703 21A\$, 02, 29X
0042704 +.MD5 .MxM=0
P 0042704 21A\$, 01, 28X

0042800 M6 =B* +.NMUX0=0 .M6
P 0042800 21A14X, \$, \$, 17X, 14X
0042801 +.I6 .MBOXI
P 0042801 21A\$, 07, 30X
0042802 +.ADD6 .MxADD=0
P 0042802 21A\$, 08, 31X
0042803 +.FR6 .MXFR
P 0042803 21A\$, 12, 29X
0042804 +.MD6 .MxM=0
P 0042804 21A\$, 05, 28X

0042900 M7 =B* +.NMUX0=0 .M7
P 0042900 21A15X, \$, \$, 17X, 15X
0042901 +.I7 .MBOXI
P 0042901 21A\$, 06, 30X
0042902 +.ADD7 .MxADD=0
P 0042902 21A\$, 10, 31X
0042903 +.FR7 .MXFR
P 0042903 21A\$, 11, 29X
0042904 +.MD7 .MxM=0
P 0042904 21A\$, 09, 28X

CODE LINE NO. CHG LOGIC EQUATIONS / PINS / REMARKS 123553-001 82 C/L
1 2 8 9 10 15 20 25 30 35 40 45 50 55 60 65 70 75

P	0043000		M8	=B* +.NMUX0-1 .M8						
P	0043000			22A37X, \$, \$, 27X, 37X						
	0043001			+ .I0 .MB1XI						
P	0043001			22A\$, 45, 30X						
	0043002			+ .ADD8 .MXADD-1						
P	0043002			22A\$, 46, 31X						
	0043003			+ .BC8 .MXIS						
P	0043003			22A\$, 47, 29X						
	0043004			+ .MD8 .MXM-1						
P	0043004			22A\$, 50, 28X						
	0043100		M9	=B* +.NMUX0-1 .M9						
P	0043100			22A33X, \$, \$, 27X, 33X						
	0043101			+ .I1 .MB1XI						
P	0043101			22A\$, 26, 30X						
	0043102			+ .ADD9 .MXADD-1						
P	0043102			22A\$, 25, 31X						
	0043103			+ .BC9 .MXIS						
P	0043103			22A\$, 24, 29X						
	0043104			+ .MD9 .MXM-1						
P	0043104			22A\$, 23, 28X						
	0043150		M9-1	=B .M9 .						
P	0043150			28B46, 40, 41						
	0043200		MAE	=-NFB						
P	0043200			01A22, 22-20A38T						
	0043300		NMAE	=-FB						
P	0043300			01A20, 20-15C40T						
	0043310		S/MAE	=* +.PH2PD1 .CM048 .NOUT						
P	0043310			01A\$, \$, 23, 36, 34, 33						
	0043311			+ .PH4PD1 .CM048 .						
P	0043311			01A\$, 31, 30, 29						
	0043312			+ .PH5PD1 .CM048						
P	0043312			01A\$, 37, 35						
	0043313			+ .GND01A32						
P	0043313			01A\$, 40						
	0043320		R/MAE	=* +.PH1D1 .TOD1-00 .						
P	0043320			01A\$, \$, 42, 44, 46, 50, 38						
	0043321			+ .PH2TOD2 .						
P	0043321			01A\$, 39, 41, 43						
	0043322			+ .PH12TO .						
P	0043322			01A\$, 45, 47						
	0043400		NMAEF	=I .PH1PD1 .CM048						
P	0043400			04A13, 04, 08						
	0043401			-FBF						
P	0043401			01A24						

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
	1	2	3	4	5	6
	8	9	10	11	12	13
	15	16	17	18	19	20
	25	26	27	28	29	30
	35	36	37	38	39	40
	45	46	47	48	49	50
	55	56	57	58	59	60
	65	66	67	68	69	70
	75	76	77	78	79	80
	85	86	87	88	89	90
	95	96	97	98	99	100
	105	106	107	108	109	110
	115	116	117	118	119	120
	125	126	127	128	129	130
	135	136	137	138	139	140
	145	146	147	148	149	150
	155	156	157	158	159	160
	165	166	167	168	169	170
	175	176	177	178	179	180
	185	186	187	188	189	190
	195	196	197	198	199	200
	205	206	207	208	209	210
	215	216	217	218	219	220
	225	226	227	228	229	230
	235	236	237	238	239	240
	245	246	247	248	249	250
	255	256	257	258	259	260
	265	266	267	268	269	270
	275	276	277	278	279	280
	285	286	287	288	289	290
	295	296	297	298	299	300
	305	306	307	308	309	310
	315	316	317	318	319	320
	325	326	327	328	329	330
	335	336	337	338	339	340
	345	346	347	348	349	350
	355	356	357	358	359	360
	365	366	367	368	369	370
	375	376	377	378	379	380
	385	386	387	388	389	390
	395	396	397	398	399	400
	405	406	407	408	409	410
	415	416	417	418	419	420
	425	426	427	428	429	430
	435	436	437	438	439	440
	445	446	447	448	449	450
	455	456	457	458	459	460
	465	466	467	468	469	470
	475	476	477	478	479	480
	485	486	487	488	489	490
	495	496	497	498	499	500
	505	506	507	508	509	510
	515	516	517	518	519	520
	525	526	527	528	529	530
	535	536	537	538	539	540
	545	546	547	548	549	550
	555	556	557	558	559	560
	565	566	567	568	569	570
	575	576	577	578	579	580
	585	586	587	588	589	590
	595	596	597	598	599	600
	605	606	607	608	609	610
	615	616	617	618	619	620
	625	626	627	628	629	630
	635	636	637	638	639	640
	645	646	647	648	649	650
	655	656	657	658	659	660
	665	666	667	668	669	670
	675	676	677	678	679	680
	685	686	687	688	689	690
	695	696	697	698	699	700
	705	706	707	708	709	710
	715	716	717	718	719	720
	725	726	727	728	729	730
	735	736	737	738	739	740
	745	746	747	748	749	750
	755	756	757	758	759	760
	765	766	767	768	769	770
	775	776	777	778	779	780
	785	786	787	788	789	790
	795	796	797	798	799	800
	805	806	807	808	809	810
	815	816	817	818	819	820
	825	826	827	828	829	830
	835	836	837	838	839	840
	845	846	847	848	849	850
	855	856	857	858	859	860
	865	866	867	868	869	870
	875	876	877	878	879	880
	885	886	887	888	889	890
	895	896	897	898	899	900
	905	906	907	908	909	910
	915	916	917	918	919	920
	925	926	927	928	929	930
	935	936	937	938	939	940
	945	946	947	948	949	950
	955	956	957	958	959	960
	965	966	967	968	969	970
	975	976	977	978	979	980
	985	986	987	988	989	990
	995	996	997	998	999	1000

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CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
			SIGMA 1.0 * P * 5471			
P	0044700		MD12	==CR */MX12/ 18A40,\$		
P	0044800		MD13	==CR */MX13/ 18A42,\$		
P	0044900		MD14	==CR */MX14/ 16A04,\$		
P	0045000		MD15	==CR */MX15/ 16A06,\$		
P	0045100		MD16	==CR */MX16/ 16A08,\$		
P	0045200		MD17	==CR */MX17/ 16A10,\$		
P	0045300		MD18	==CR */MX18/ 16A13,\$		
P	0045400		MD19	==CR */MX19/ 16A18,\$		
P	0045500		MD2	==CR */MX2/ 18A08,\$		
P	0045600		MD20	==CR */MX20/ 16A20,\$		
P	0045700		MD21	==CR */MX21/ 15A22,\$		
P	0045800		MD22	==CR */MX22/ 16A27,\$		
P	0045900		MD23	==CR */MX23/ 16A34,\$		
P	0046000		MD24	==CR */MX24/ 16A36,\$		
P	0046100		MD25	==CR */MX25/ 16A38,\$		
P	0046200		MD26	==CR */MX26/ 15A40,\$		
P	0046300		MD27	==CR */MX27/ 16A42,\$		

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SDS

SCIENTIFIC DATA SYSTEMS
SANTA MONICA, CALIFORNIA

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS																		
	1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	100	
P	0046400		MD28																					
	0046400																							
P	0046500		MD29																					
	0046500																							
P	0046600		MD3																					
	0046600																							
P	0046700		MD30																					
	0046700																							
P	0046800		MD31																					
	0046800																							
P	0046900		MD4																					
	0046900																							
P	0047000		MD5																					
	0047000																							
P	0047100		MD6																					
	0047100																							
P	0047200		MD7																					
	0047200																							
P	0047300		MD8																					
	0047300																							
P	0047400		MD9																					
	0047400																							
P	0047900		MDR1																					
	0047900																							
P	0048000		NMDR1																					
	0048000																							
P	0048010		S/MDR1																					
	0048010																							
P	0048011																							
	0048011																							
P	0048020		R/MDR1																					
	0048020																							
P	0048021																							
	0048021																							
P	0048200		ME																					
	0048200																							

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CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
	1					123653-001
	2					03/10/69
	8					
	9					
	10					
	15					
	20					
	25					
	30					
	35					
	40					
	45					
	50					
	55					
	60					
	65					
	70					
	75					
	80					
	85					
	90					
	95					
	100					
	105					
	110					
	115					
	120					
	125					
	130					
	135					
	140					
	145					
	150					
	155					
	160					
	165					
	170					
	175					
	180					
	185					
	190					
	195					
	200					
	205					
	210					
	215					
	220					
	225					
	230					
	235					
	240					
	245					
	250					
	255					
	260					
	265					
	270					
	275					
	280					
	285					
	290					
	295					
	300					
	305					
	310					
	315					
	320					
	325					
	330					
	335					
	340					
	345					
	350					
	355					
	360					
	365					
	370					
	375					
	380					
	385					
	390					
	395					
	400					
	405					
	410					
	415					
	420					
	425					
	430					
	435					
	440					
	445					
	450					
	455					
	460					
	465					
	470					
	475					
	480					
	485					
	490					
	495					
	500					
	505					
	510					
	515					
	520					
	525					
	530					
	535					
	540					
	545					
	550					
	555					
	560					
	565					
	570					
	575					
	580					
	585					
	590					
	595					
	600					
	605					
	610					
	615					
	620					
	625					
	630					
	635					
	640					
	645					
	650					
	655					
	660					
	665					
	670					
	675					
	680					
	685					
	690					
	695					
	700					
	705					
	710					
	715					
	720					
	725					
	730					
	735					
	740					
	745					
	750					
	755					
	760					
	765					
	770					
	775					
	780					
	785					
	790					
	795					
	800					
	805					
	810					
	815					
	820					
	825					
	830					
	835					
	840					
	845					
	850					
	855					
	860					
	865					
	870					
	875					
	880					
	885					
	890					
	895					
	900					
	905					
	910					
	915					
	920					
	925					
	930					
	935					
	940					
	945					
	950					
	955					
	960					
	965					
	970					
	975					
	980					
	985					
	990					
	995					

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS															
	1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	12353-001	37	03/16	C/
P	0048800		MPEF	=-FBF																	
P	0048800			02A21																	
P	0048900		MQ	=B .MS	.NMAR																
P	0048900			15A33,26,	25,	27															
P	0048920		/MQX/	=-CD *M3																	
P	0048920			10A\$,01																	
P	0049000		MS	=-NFB																	
P	0049000			02A22,22-20A43T																	
P	0049050		MS=1	=I .NMSF																	
P	0049050			04A01,10,	11,01-04B26T																
P	0049100		NMS	=-FB																	
P	0049100			02A20,20-04B27T																	
P	0049110		S/MS	=* +.CM014	.CM040	.NERD	.NH3														
P	0049110			02A\$,5,28,	36,	34,	33														
P	0049111			+ .PH12T1	.NFB	.CM041															
P	0049111			02A\$,31,	30,	29															
P	0049112			+ .CM039	.NPR2																
P	0049112			02A\$,37,	35																
P	0049113			+ .MSSET																	
P	0049113			02A\$,40																	
P	0049120		R/MS	=* +.MCD1	.TOD1=00																
P	0049120			02A\$,42,	44,	46,	50,	38													
P	0049121			+ .	.PH2TOD2	.CM044															
P	0049121			02A\$,39,	41,	43															
P	0049122			+ .RESET																	
P	0049122			02A\$,45,	47																
P	0049200		NMSF	=I .PH13D1	.T2D1=00	.CM041	.BUT														
P	0049200			04A34,24,	23,	22,	28														
P	0049201			I .PH13T0	.NPR2	.BRD															
P	0049201			04A12,06,	05,	07															
P	0049202			I .CM042	.PH1T2D1																
P	0049202			04A46,40,	41																
P	0049203			-FBF																	
P	0049203			02A24																	
P	0049300		MSSET	=B* +.NEH	.NBC15	.PH4T1D1															
P	0049300			03B23,\$,\$,27,	26,	25X,23-04B26T															
P	0049301			+ .NEH	.CMD	.PH4T1D1															
P	0049301			03B\$,24,	28,	25X															
P	0049302			+ .NEH	.NTRA	.T1D1=20	.PH5D1-1														
P	0049302			03B\$,34,	38,	37,	33X														
P	0049303			+ .CM043	.NMPE	.NPR2															
P	0049303			03B\$,36,	39,	35,	40X														

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70
				SIGMA I/O P = 5471												
P	0049400		NMUX0I	=I	.T1D1=00	.PH10D1=1										
P	0049400			11A45,39,		42,45=07A36T										
P	0049500		NMUX0=0	=B	.NCM011	.NMLX0I	.NPH12T0									
P	0049500			13A33,26,		25,	27									
P	0049501			B	.NCM012	.NMUX0I										
P	0049501			13A35,38,		43										
P	0049600		NMUX0=1	=B	.NCM011	.NMLX0I	.NPH12T0									
P	0049600			13A12,06,		05,	07									
P	0049601			B	.NCM012	.NMUX0I										
P	0049601			13A36,44,		37										
P	0049603		/MX0/	=-CD	*M0											
P	0049603			18A\$,01												
P	0049605		/MX1/	=-CD	*M1											
P	0049605			18A\$,02												
P	0049607		/MX2/	=-CD	*M2											
P	0049607			18A\$,03												
P	0049609		/MX3/	=-CD	*M3											
P	0049609			18A\$,09.												
P	0049611		/MX4/	=-CD	*M4											
P	0049611			18A\$,12												
P	0049613		/MX5/	=-CD	*M5											
P	0049613			18A\$,15												
P	0049615		/MX6/	=-CD	*M6											
P	0049615			18A\$,19												
P	0049617		/MX7/	=-CD	*M7											
P	0049617			18A\$,23												
P	0049619		/MX8/	=-CD	*M8											
P	0049619			18A\$,25												
P	0049621		/MX9/	=-CD	*M9											
P	0049621			18A\$,33												
P	0049623		/MX10/	=-CD	*M10											
P	0049623			18A\$,35												
P	0049625		/MX11/	=-CD	*M11											
P	0049625			18A\$,37												
P	0049627		/MX12/	=-CD	*M12											
P	0049627			18A\$,39												

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CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
	1	2	8	9	10	15
	2	8	9	10	15	20
	8	9	10	15	20	25
	9	10	15	20	25	30
	10	15	20	25	30	35
	15	20	25	30	35	40
	20	25	30	35	40	45
	25	30	35	40	45	50
	30	35	40	45	50	55
	35	40	45	50	55	60
	40	45	50	55	60	65
	45	50	55	60	65	70
	50	55	60	65	70	75
	55	60	65	70	75	80
	60	65	70	75	80	85
	65	70	75	80	85	90
	70	75	80	85	90	95
	75	80	85	90	95	100
	80	85	90	95	100	105
	85	90	95	100	105	110
	90	95	100	105	110	115
	95	100	105	110	115	120
	100	105	110	115	120	125
	105	110	115	120	125	130
	110	115	120	125	130	135
	115	120	125	130	135	140
	120	125	130	135	140	145
	125	130	135	140	145	150
	130	135	140	145	150	155
	135	140	145	150	155	160
	140	145	150	155	160	165
	145	150	155	160	165	170
	150	155	160	165	170	175
	155	160	165	170	175	180
	160	165	170	175	180	185
	165	170	175	180	185	190
	170	175	180	185	190	195
	175	180	185	190	195	200
	180	185	190	195	200	205
	185	190	195	200	205	210
	190	195	200	205	210	215
	195	200	205	210	215	220
	200	205	210	215	220	225
	205	210	215	220	225	230
	210	215	220	225	230	235
	215	220	225	230	235	240
	220	225	230	235	240	245
	225	230	235	240	245	250
	230	235	240	245	250	255
	235	240	245	250	255	260
	240	245	250	255	260	265
	245	250	255	260	265	270
	250	255	260	265	270	275
	255	260	265	270	275	280
	260	265	270	275	280	285
	265	270	275	280	285	290
	270	275	280	285	290	295
	275	280	285	290	295	300
	280	285	290	295	300	305
	285	290	295	300	305	310
	290	295	300	305	310	315
	295	300	305	310	315	320
	300	305	310	315	320	325
	305	310	315	320	325	330
	310	315	320	325	330	335
	315	320	325	330	335	340
	320	325	330	335	340	345
	325	330	335	340	345	350
	330	335	340	345	350	355
	335	340	345	350	355	360
	340	345	350	355	360	365
	345	350	355	360	365	370
	350	355	360	365	370	375
	355	360	365	370	375	380
	360	365	370	375	380	385
	365	370	375	380	385	390
	370	375	380	385	390	395
	375	380	385	390	395	400
	380	385	390	395	400	405
	385	390	395	400	405	410
	390	395	400	405	410	415
	395	400	405	410	415	420
	400	405	410	415	420	425
	405	410	415	420	425	430
	410	415	420	425	430	435
	415	420	425	430	435	440
	420	425	430	435	440	445
	425	430	435	440	445	450
	430	435	440	445	450	455
	435	440	445	450	455	460
	440	445	450	455	460	465
	445	450	455	460	465	470
	450	455	460	465	470	475
	455	460	465	470	475	480
	460	465	470	475	480	485
	465	470	475	480	485	490
	470	475	480	485	490	495
	475	480	485	490	495	500
	480	485	490	495	500	505
	485	490	495	500	505	510
	490	495	500	505	510	515
	495	500	505	510	515	520
	500	505	510	515	520	525
	505	510	515	520	525	530
	510	515	520	525	530	535
	515	520	525	530	535	540
	520	525	530	535	540	545
	525	530	535	540	545	550
	530	535	540	545	550	555
	535	540	545	550	555	560
	540	545	550	555	560	565
	545	550	555	560	565	570
	550	555	560	565	570	575
	555	560	565	570	575	580
	560	565	570	575	580	585
	565	570	575	580	585	590
	570	575	580	585	590	595
	575	580	585	590	595	600
	580	585	590	595	600	605
	585	590	595	600	605	610
	590	595	600	605	610	615
	595	600	605	610	615	620
	600	605	610	615	620	625
	605	610	615	620	625	630
	610	615	620	625	630	635
	615	620	625	630	635	640
	620	625	630	635	640	645
	625	630	635	640	645	650
	630	635	640	645	650	655
	635	640	645	650	655	660
	640	645	650	655	660	665
	645	650	655	660	665	670
	650	655	660	665	670	675
	655	660	665	670	675	680
	660	665	670	675	680	685
	665	670	675	680	685	690
	670	675	680	685	690	695
	675	680	685	690	695	700
	680	685	690	695	700	705
	685	690	695	700	705	710
	690	695	700	705	710	715
	695	700	705	710	715	720
	700	705	710	715	720	725
	705	710	715	720	725	730
	710	715	720	725	730	735
	715	720	725	730	735	740
	720	725	730	735	740	745
	725	730	735	740	745	750
	730	735	740	745	750	755
	735	740	745	750	755	760
	740	745	750	755	760	765
	745	750	755	760	765	770
	750	755	760	765	770	775
	755	760	765	770	775	780
	760	765	770	775	780	785
	765	770	775	780	785	790
	770	775	780	785	790	795
	775	780	785	790	795	800
	780	785	790	795	800	805
	785	790	795	800	805	810
	790	795	800	805	810	815
	795	800	805	810	815	820
	800	805	810	815	820	825
	805	810	815	820	825	830
	810	815	820	825	830	835
	815	820	825	830	835	840
	820	825	830	835	840	845
	825	830	835	840	845	850
	830	835	840	845	850	855
	835	840	845	850	855	860
	840	845	850	855	860	865
	845	850	855	860	865	870
	850	855	860	865	870	875
	855	860	865	870	875	880
	860	865	870	875	880	885
	865	870	875	880	885	890
	870	875	880	885	890	895
	875	880	885	890	895	900
	880	885	890	895	900	905
	885	890	895	900	905	910
	890	895	900	905	910	915
	895	900	905	910	915	920
	900	905	910	915	920	925
	905	910	915	920	925	930
	910	915	920	925	930	935
	915	920	925	930	935	940
	920	925	930			

CODE	LINE NO.	CHK	LOGIC	EQUATIONS	PINS	REMARKS										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70
P	0049663		/MX30/	=-CD *M30												
	0049663			14A8,03												
P	0049665		/MX31/	=-CD *M31												
	0049665			14A8,09												
P	0049674		/MWOX/	=-CD *W0												
	0049674			14A8,23												
P	0049676		/MW1X/	=-CD *W1												
	0049676			14A8,25												
P	0049678		/MW2X/	=-CD *W2												
	0049678			14A8,33												
P	0049680		/MW3X/	=-CD *W3												
	0049680			14A8,35												
P	0049700		MXA	=B .PH12T3	.8RD											
	0049700			13A15,30,	18,	31,										17
P	0049800		NMXADD	=I .PH12D1	.T1D1-00	.NFO										.NF3
	0049800			11A34,24,	23,	22,										28,34-25B02T
P	0049801			I .PH13D1	.T2D1-00	.8UT										
	0049801			11A12,06,	05,	07										
P	0049802			I .PH10PD1	.T4D1-20											
	0049802			11A02,03,	09											
P	0049900		MXADD-0	=I .NMXADD												
	0049900			27A25,23,	29X,25-20A44T											
P	0050000		MXADD-1	=I .NMXADD												
	0050000			27A27,22,	29X,27-20A45T											
P	0050200		MX3C-0	=B .PH12T1	.NFO											
	0050200			15A13,04,	08,13-07A17T											
P	0050300		MX3C-1	=B .PH12T1	.NFO											
	0050300			15A02,03,	09,02-07A34T											
P	0050400		MXFR	=B .PH12T1	.NFO											
	0050400			15A46,40,	41,46-20A22T											
P	0050500		MXIS	=I .NMXIS												
	0050500			17A15,13,15-20A46T												
P	0050600		NMXIS	=I .PH13D1	.T0D1-00	.CM015										
	0050600			17A06,14,	08,	07,06-20A47T										
P	0050700		NMXM	=I .DG	.MS											
	0050700			04A35,33,	43,35-20A50T											

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CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS											
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	75
P	0050800		MXM-0	=I .NMXM	.												
P	0050800			17A45,50X,	43,45-25B03T												
P	0050900		MXM-1	=I .NMXM	.												
P	0050900			17A44,50X,	42,44-25B04T												
P	0051000		MXM-2	=I .NMXM	.												
P	0051000			17A46,50X,	30,46-25B05T												
P	0051100		MXM-3	=I .NMXM	.												
P	0051100			17A47,50X,	31,47-25B06T												
P	0051150		MYNUM	=I* +.I0PA0	.NUN0												
P	0051150			13C37,\$,\$,44X,	47,37-08C02T												
P	0051151			+ .UN0	.NI0PA0												
P	0051151			13C\$,45,	42X												
P	0051152			+ .I0PA1	.NUN1												
P	0051152			13C\$,26X,	27												
P	0051153			+ .UN1	.NI0PA1												
P	0051153			13C\$,46,	25X												
P	0051154			+ .I0PA2	.NUN2												
P	0051154			13C\$,17X,	19												
P	0051155			+ .UN2	.NI0PA2												
P	0051155			13C\$,03,	22X												
P	0051156			+ .GND13C32	.												
P	0051156			13C\$,35,	41X												
P	0051157			+ .GND13C32	.												
P	0051157			13C\$,39,	38X												
P	0051200		00	=B* +.N0X0	.00												
P	0051200			31A26X,\$,\$,23X,	26X												
P	0051201			+ .I0	.0XI												
P	0051201			31A\$,25,	18X												
P	0051202			+ .00T0S	.0XT0RD												
P	0051202			31A\$,24,	22X												
P	0051300		00T0S	=I .NCM016	.NCM017	.NCM018	.NCM019										
P	0051300			09A14,21,	20,	29,	19,14-32B47T										
P	0051400		01	=B* +.N0X0	.01												
P	0051400			31A27X,\$,\$,23X,	27X												
P	0051401			+ .I1	.0XI												
P	0051401			31A\$,28,	18X												
P	0051402			+ .01T0S	.0XT0RD												
P	0051402			31A\$,29,	22X												
P	0051500		01T0S	=B .ZBC	.N0C0												
P	0051500			13A01,10,	11												

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CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	92	C/L
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	0051600	02	=B* +.NBX0	.02				
P	0051600		31A12X, \$, \$, 23X, 12X					
	0051601		+ .I2	.0XI				
P	0051601		31A\$, 11,	18X				
	0051602		+ .BC2	.0XT0RD				
P	0051602		31A\$, 10,	22X				
	0051700	03	=B* +.NBX0	.03				
P	0051700		31A14X, \$, \$, 23X, 14X					
	0051701		+ .I3	.0XI				
P	0051701		31A\$, 15,	18X				
	0051702		+ .EH	.0XT0RD				
P	0051702		31A\$, 17,	22X				
	0051800	04	=B* +.NBX0	.04				
P	0051800		31A21X, \$, \$, 30X, 21X					
	0051801		+ .I4	.0XI				
P	0051801		31A\$, 20,	13X				
	0051802		+ .0+1BS	.0XT0RD				
P	0051802		31A\$, 19,	05X				
	0051900	04T05	=B* +.0RD0BT	.EH				
P	0051900		08A36, \$, \$, 26, 25, 36-32950T					
	0051901		+ .0BT	.EH	.NCMD			
P	0051901		08A\$, 29,	28,	27			
	0052000	05	=B* +.NBX0	.05				
P	0052000		31A46X, \$, \$, 30X, 46X					
	0052001		+ .I5	.0XI				
P	0052001		31A\$, 47,	13X				
	0052002		+ .GND31A16	.0XT0RD				
P	0052002		31A\$, 50,	05X				
	0052100	06	=B* +.NBX0	.06				
P	0052100		31A09X, \$, \$, 30X, 09X					
	0052101		+ .I6	.0XI				
P	0052101		31A\$, 08,	13X				
	0052102		+ .GND31A16	.0XT0RD				
P	0052102		31A\$, 06,	05X				
	0052200	07	=B* +.NBX0	.07				
P	0052200		31A07X, \$, \$, 30X, 07X					
	0052201		+ .I7	.0XI				
P	0052201		31A\$, 04,	13X				
	0052202		+ .GND31A16	.0XT0RD				
P	0052202		31A\$, 03,	05X				

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
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P	0052300		0F0	=HSM		
P	0052300			11043, 43-25B07T-31025C-31C25C		
P	0052301			=HSM		
P	0052301			12D43		
P	0052302			=HSM		
P	0052302			13D43		
P	0052303			=HSM		
P	0052303			14D43		
P	0052310		K/0F007-0/	=0FXH	.	
P	0052310			11013,	31	
P	0052311		K/0F007-1/	=0FXH	.	
P	0052311			12D13,	31	
P	0052312		K/0F007-2/	=0FXH	.	
P	0052312			13D13,	31	
P	0052313		K/0F007-3/	=0FXH	.	
P	0052313			14D13,	31	
P	0052314		L/0F007-0/1	=NSPA5-1	NSPA4-1	NSPA3-1
P	0052314			11023,	20X,	21X,
						27X, 26X, 22X
P	0052315		L/0F007-0/2	=SPA5-1	NSPA4-1	NSPA3-1
P	0052315			11025,	20X,	21X,
						27X, 26X, 22X
P	0052316		L/0F007-0/3	=LS2		
P	0052316			11018		
P	0052317		L/0F007-0/4	=SPA7-1		
P	0052317			11029		
P	0052318		L/0F007-0/5	=SPA6-1		
P	0052318			11030		
P	0052319		L/0F007-1/1	=NSPA5-1	NSPA4-1	SPA3-1
P	0052319			12023,	20X,	21X,
						27X, 26X, 22X
P	0052320		L/0F007-1/2	=SPA5-1	NSPA4-1	SPA3-1
P	0052320			12025,	20X,	21X,
						27X, 26X, 22X
P	0052321		L/0F007-1/3	=LS2		
P	0052321			12018		
P	0052322		L/0F007-1/4	=SPA7-1		
P	0052322			12029		
P	0052323		L/0F007-1/5	=SPA6-1		
P	0052323			12030		

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
	1					123653-001
	2					05712
	3					
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	10					
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CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70					123653-001
			SIGMA 1-6-P-8471			
P	0052700		BF4	=-HSM		
P	0052700			11D45,45-25B11T-31D29C-31C29C		
P	0052701			-HSM		
P	0052701			12D45		
P	0052702			-HSM		
P	0052702			13D45		
P	0052703			-HSM		
P	0052703			14D45		
P	0052800		BF5	=-HSM		
P	0052800			11D46,46-07A38T-31D30C-31C30C		
P	0052801			-HSM		
P	0052801			12D46		
P	0052802			-HSM		
P	0052802			13D46		
P	0052803			-HSM		
P	0052803			14D46		
P	0052900		BF6	=-HSM		
P	0052900			11D04,04-25B12T-31D31C-31C31C		
P	0052901			-HSM		
P	0052901			12D04		
P	0052902			-HSM		
P	0052902			13D04		
P	0052903			-HSM		
P	0052903			14D04		
P	0053000		BF7	=-HSM		
P	0053000			11D01,01-07A39T-31D33C-31C33C		
P	0053001			-HSM		
P	0053001			12D01		
P	0053002			-HSM		
P	0053002			13D01		
P	0053003			-HSM		
P	0053003			14D01		
P	0053100		BFXH	=I .NCM022 .NCM021 .NPH2T2D1 .BFXHI		
P	0053100			16C14,21,20,29,19,14-11D05T-31C34C-31D34C		
P	0053200		BFXHI	=I .PH13D1 .T2D1-20 .TRA1		
P	0053200			17C14,21, 20, 29, 19,14-15C43T		
P	0053201			I .PH13D1 .T2D1-20 .OUT		.CM046
P	0053201			17C34,24, 23, 22, 28		
P	0053300		BP	=B# +.NBXO .BP		
P	0053300			30A36,3,3,26, 25,36-25B13T		
P	0053301			+ .BXI .IEVEN		
P	0053301			30A5,29, 28, 27		
P	0053400		BRD	=-FB		
P	0053400			29C27,27-07A40T		

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70
				Signal	1	5	6	7								
P	0053500		NBRD	=-NFB												
P	0053500			29C26,26=04B29T												
P	0053510		S/BRD	=* +.PH1D1	.T1D1-30	.DOR										
P	0053510			29C\$, \$, 19,	17,	18,										14
P	0053511			+ .CM010												
P	0053511			29C\$, 01												
P	0053520		R/BRD	=* +.PH2T1D2												
P	0053520			29C\$, \$, 04												
P	0053521			+ .GND29C16	.	.										
P	0053521			29C\$, 06,	12,	08										
P	0053550		NBRD-1	=I .BRD	.	.										
P	0053550			20B28,21,	29X,28=04B30T											
P	0053600		BRDIN	=B .BRD	.NOUT											
P	0053600			10B01,10,	11											
P	0053700		BRDOUT	=B .BRD	.OUT											
P	0053700			10B36,44,	37											
P	0053800		OUT	=-Fg												
P	0053800			30C27,27=04B31T												
P	0053900		NOUT	=-NFB												
P	0053900			30C26,26=25B14T												
P	0053910		S/OUT	=* +.PH1D1	.T1D1-30	.IOR										
P	0053910			30C\$, \$, 19,	17,	18,										14
P	0053911			+ .CM035												
P	0053911			30C\$, 01												
P	0053920		R/OUT	=* +.PH2T1D2												
P	0053920			30C\$, \$, 04,												
P	0053921			+ .GND30C16	.	.										
P	0053921			30C\$, 06,	12,	08										
P	0054000		NEXO	=I* +.PH1D1-1	.T0D1-30											
P	0054000			30A13, \$, \$, 21,	22, 13-25B15T											
P	0054001			+ .PH5D1-1	.T0D1-30	.BRD										
P	0054001			30A\$, 18,	19,	20										
P	0054002			+ .PH7D1	.T0D1-30	.TGRD										
P	0054002			30A\$, 17,	15,	14										
P	0054003			I* +.PH2T0D1	.	.										
P	0054003			30A01, \$, \$, 08,	07											
P	0054004			+ .RESET	.	.										
P	0054004			30A\$, 05,	06											
P	0054005			I .PH2T2D2	.NCM044	.										
P	0054005			27A06,14,	08,	07										

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CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
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P	0054100		0XI	=-NFB		
P	0054100			05A23,23-25017T		
P	0054200		NSXI	=-FB		
P	0054200			05A25		
P	0054210		S/0XI	=* +.PH2T0D1 .0UT		
P	0054210			05A\$, \$, 15, 13		
P	0054211			+ .PH10D1-1 .T0D1-00		
P	0054211			05A\$, 11, 09		
P	0054220		R/0XI	=* +.T2D1-00 .		
P	0054220			05A\$, \$, 10, 02, 03		
P	0054221			+ .RESET .		
P	0054221			05A\$, 05, 07		
P	0054300		N0XIF	=I .PH5D1 .T0D1-00 .9RD		
P	0054300			04A33,25, 25, 27		
P	0054301			-FBB		
P	0054301			05A21		
P	0054400		0XT0RD	=B .PH7T1D1 .T8RD		
P	0054400			30A37,46, 41, 50,37-15C44T		
P	0054500		PC	=-CR */PC/		
P	0054500			32A36,\$		
P	0054501		/PC/	=-CD *GND32A16		
P	0054501			32A\$,35		
P	0054600		PE	=-CR */PEX/		
P	0054600			10A13,\$		
P	0054700		PER	=-CR */PERX/		
P	0054700			10A20,\$		
P	0054730		/PERX/	=-CD *GND10A32		
P	0054730			10A\$,19		
P	0054750		/PEX/	=-CD *GND10A32		
P	0054750			10A\$,12		
P	0055000		PH10D1	=B* +.NPHD1X0 .PH10D1		
P	0055000			07B01X,\$,\$,43X,01X		
P	0055001			+ .PH10D1S0 .		
P	0055001			07B\$,45, 37X		
P	0055002			+ .GND07B16 .T4D1-30		
P	0055002			07B\$,44, 38X		
P	0055050		PH10D1-1	=B .PH10D1 .		
P	0055050			15B13,04, 08,		

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
			SIGMA 1-0477-5471			
P	0055100		=B	.PH2PD2 .T3D2	.CM044	
P	0055100		05B14,21,	20,	29,	19
P	0055200		=B* +.PH10PD1 .NPHPD1X0			
P	0055200		08B07X,\$,\$,07X,30X,07X-25318T			
P	0055201		+.PH10D1 .T1D1-10			
P	0055201		08B\$,04,	13X		
P	0055202		+.GND08B16 .			
P	0055202		08B\$,05X,	03		
P	0055300		=I	.NPH10T0		
P	0055300		17A10,09,10-04834T			
P	0055400		=I	.PH10D1-1 .T0D1-20		
P	0055400		17B36,37,	33X,36-07A41T		
P	0055600		=B* +.PH11D1 .NPHD1X0			
P	0055600		07B09X,\$,\$,09X,30X,09X-04835T			
P	0055601		+.PH11D1S0.T4D1-0			
P	0055601		07B\$,08,	13X		
P	0055602		+.GND07B16 .T4D1-20			
P	0055602		07B\$,06,	05X		
P	0055700		=B	.PH10PD1 .CMD		
P	0055700		05B35,38,	43		
P	0055800		=B* +.PH11PD1 .NPHPD1X0			
P	0055800		08B02X,\$,\$,02X,43X			
P	0055801		+.PH11D1 .T1D1-10			
P	0055801		08B\$,31,	37X		
P	0055802		+.GND08B16 .			
P	0055802		08B\$,38X,	33		
P	0055900		=B* +.PH12D1 .NPHD1X0			
P	0055900		07B39X,\$,\$,39X,36X			
P	0055901		+.PH12D1S0.			
P	0055901		07B\$,35,	37X		
P	0055902		+.CM009 .T4D1-30			
P	0055902		07B\$,34,	38X		
P	0056000		=B	.F0		
P	0056000		05B01,10,	11		
P	0056001		3 .PH2PD2 .T3D2			
P	0056001		05B36,44,	37		
P	0056100		=B* +.PH12PD1 .NPHPD1X0			
P	0056100		08B01X,\$,\$,01X,43X			
P	0056101		+.PH12D1 .T1D1-10			
P	0056101		08B\$,45,	37X		
P	0056102		+.GND08B16 .			
P	0056102		08B\$,38X,	44		

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03710

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
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0571476

P	0056200		NPH12PD1	=I .PH12PD1		
P	0056200			17B46,30,	50X,46-25B19T	
P	0056300		PH12T0	=I .NPH12T0		
P	0056300			17B44,42,	50X,44-04B36T	
P	0056400		NPH12T0	=I .PH12D1	.T0D1-20	
P	0056400			17B34,40,	33X,34-07A42T	
P	0056500		PH12T1	=B .PH12D1	.T1D1-10	
P	0056500			10B13,04,	08,13-08C37T	
P	0056600		PH12T3	=B .PH12PD1	.T3D1-10	
P	0056600			10B46,40,	41,46-09C46C-09D46C-10D46T	
P	0056700		NPH12T4	=I .PH12PD1	.T4D1-20	
P	0056700			16C45,39,	42,45-15C45T	
P	0056800		PH13D1	=B* +.PH13D1	.NPHD1X0	
P	0056800			07B07X,\$,\$,07X,30X		
P	0056801			+.PH12PD1	.T4D1-0	
P	0056801			07B\$,04,	13X	
P	0056802			+.GND07B16	.T4D1-20	
P	0056802			07B\$,03,	05X	
P	0056900		PH13PD1	=B* +.PH13PD1	.NPHPD1X0	
P	0056900			08B39X,\$,\$,39X,36X		
P	0056901			+.PH13D1	.T1D1-10	
P	0056901			08B\$,35,	37X	
P	0056902			+.GND08B16		
P	0056902			08B\$,38X,	34	
P	0057000		PH13T0	=B .PH13D1	.T0D1-20	
P	0057000			02B02,03,	09,02-25B20T	
P	0057100		PH14D1	=B* +.PH14D1	.NPHD1X0	
P	0057100			07B42X,\$,\$,42X,36X		
P	0057101			+.GND07B16		
P	0057101			07B\$,41,	37X	
P	0057102			+.PH13PD1	.T4D1-30	
P	0057102			07B\$,40,	38X	
P	0057200		PH14PD1	=B* +.PH14PD1	.NPHPD1X0	
P	0057200			08B42X,\$,\$,42X,36X		
P	0057201			+.PH14D1	.T1D1-10	
P	0057201			08B\$,41,	37X	
P	0057202			+.GND08B16		
P	0057202			08B\$,38X,	40	

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
	1		SIGMA 1-0-0-1-3-7-1			
P	0057300		PH1D1	=B* +.NPHD1X0 .PH1D1		
P	0057300			07B02X,5,5,43X,02X		
P	0057301			+.PH1D1S0 .		
P	0057301			07B5,31, 37X		
P	0057302			+.GND07B15 .T4D1-30		
P	0057302			07B5,33, 38X		
P	0057400		PH1D1S0	=B .PH2PD2 .T4D2 .F1		
P	0057400			05B33,26, 25, 27		
P	0057500		PH1D2	=B* +.T4D1-30 .PH12PD1 .NF1		
P	0057500			04C22,5,5,09, 10, 21X, 08,22-15C46T		
P	0057501			+.NF1 .NFNT .T4D2 .PH2PD2		
P	0057501			04C5,21X, 20, 19, 18		
P	0057502			+.PH1T2D1 .		
P	0057502			04C5,05, 13, 04X		
P	0057503			+.PH1D2 .NT3D2		
P	0057503			04C5,06, 07		
P	0057504			+.RESET .		
P	0057504			04C5,12, 11		
P	0057600		PH102D1	=B* +.PH1D1 .		
P	0057600			04C14,5,5,15, 17,14-04B37T		
P	0057601			+.PH2D1 .		
P	0057601			04C5,03, 01, 02, 04X		
P	0057700		PH102PD1	=I .NPH1PD1 .NPH2PD1		
P	0057700			17C45,39, 42,45-04B38T		
P	0057800		PH104D1	=B* +.PH1D1 .		
P	0057800			03B14,5,5,17, 15,14-25B21T		
P	0057801			+.PH4D1 .		
P	0057801			03B5,01, 02, 03, 04X		
P	0057900		PH1PD1	=B* +.PH1PD1 .NPHPD1X0		
P	0057900			08B26X,5,5,26X,23X		
P	0057901			+.PH1D1 .T1D1-10		
P	0057901			08B5,25, 18X		
P	0057902			+.GND08B16 .		
P	0057902			08B5,22X, 24		
P	0058000		NPH1PD1	=I .PH1PD1 .		
P	0058000			17C02,03, 09,02-15C47T		
P	0058100		PH1PD2	=B* +.PH1PD2 .NT0D2		
P	0058100			03C24,5,5,35, 30,24-25B22T		
P	0058101			+.PH1D2 .T1D2 .		
P	0058101			03C5,31, 33, 34		
P	0058200		NPH1PD2	=I .PH1PD2 .		
P	0058200			17B47,31, 50X,47-25B23T		

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CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS															
	1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	12353-001	103	03710	C/
P	0058300		PH1T2D1	=B .PH1D1	.T2D1-10																
	0058300			02B36,44,	37,36-09C47C-09D47C-10D47I																
P	0058400		PH1T2D2	=B .PH1D2	.T2D2-0																
	0058400			21C45,39,	42,43-09C40C-09D40C-10D40T																
P	0058500		PH2D1	=B* +.PH2D1	.NPHD1X0																
	0058500			07B26X,\$,\$,26X,23X																	
	0058501			+.PH2D1S0	.T4D1-0																
P	0058501			07B\$,25,	18X																
	0058502			+.PH2D1S1	.T4D1-0																
P	0058502			07B\$,24,	22X																
P	0058600		PH2D1S0	=B .NARD-1	.NED	.PH192PD1															
	0058600			05B12,06,	05,	07															
P	0058700		PH2D1S1	=B .PH1PD1	.NARD-1	.9UT															
	0058700			05B34,24,	23,	22,	28														
P	0058800		PH2D2	=-FB																	
	0058800			05C25,25-25B24T																	
P	0058900		NPH2D2	=-NFB																	
	0058900			05C23																	
P	0058910		S/PH2D2	=* +.GND05C16	.	.															
	0058910			05C\$, \$, 10,	02,	03															
	0058911			+.PH1PD2	.T4D2																
P	0058911			05C\$, 05,	07																
P	0058920		R/PH2D2	=* +.T3D2	.	.															
	0058920			05C\$, \$, 15,	13																
	0058921			+.RESET	.																
P	0058921			05C\$, 11,	09																
P	0059000		PH2D2F	=-F3F																	
	0059000			05C21																	
P	0059100		PH2PD1	=B* +.PH2PD1	.NPHPD1X0																
	0059100			08B27X,\$,\$,27X,23X																	
	0059101			+.PH2D1	.T1D1-10																
P	0059101			08B\$,28,	18X																
	0059102			+.GND08B16	.																
P	0059102			08B\$,22X,	29																
P	0059200		NPH2PD1	=I .PH2PD1	.																
	0059200			17C46,40,	41,46-15C50T																

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
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P	0060700		PH4D1S0	=B* +.PH1PD1 .SRD9UT	.	.
P	0060700			06B22, \$, \$, 08, 03,	10,	21X, 22-04B41T
P	0060701			+.PH4PD1 .NEH	.NMS	.
P	0060701			06B\$, 20,	19,	18,
P	0060702			+.Z3C .46	.PH102PD1	21X
P	0060702			06B\$, 05,	13,	04X
P	0060703			+.PH5PD1 .NCM007		
P	0060703			06B\$, 11,	12	
P	0060704			+.GND06B16 .		
P	0060704			06B\$, 07,	06	
P	0060800		PH4PD1	=B* +.PH4PD1 .NPHPD1X0		
P	0060800			08B14X, \$, \$, 14X, 23X		
P	0060801			+.PH4D1 .T1D1-10		
P	0060801			08B\$, 15,	18X	
P	0060802			+.GND08B16 .		
P	0060802			08B\$, 22X,	17	
P	0060900		PH4T0D1	=B .PH4D1 .T0D1-20		
P	0060900			02B35, 38,	43, 35-13C36T	
P	0061000		PH4T1D1	=B .PH4D1 .T1D1-20		
P	0061000			02B45, 39,	42	
P	0061100		PH5D1	=B* +.PH5D1 .NPHD1X0		
P	0061100			07B14X, \$, \$, 14X, 23X		
P	0061101			+.PH5D1S0 .T4D1-0		
P	0061101			07B\$, 15,	18X	
P	0061102			+.PH5D1S1 .T4D1-0		
P	0061102			07B\$, 17,	22X	
P	0061150		PH5D1-1	=B .PH5D1 .		
P	0061150			15B02, 03,	09,	
P	0061200		PH5D1S0	=B .PH4PD1 .EH		
P	0061200			05B02, 03,	09	
P	0061300		PH5D1S1	=B .PH4PD1 .MS-1		
P	0061300			05B46, 40,	41	
P	0061400		PH5PD1	=B* +.PH5PD1 .NPHPD1X0		
P	0061400			03B21X, \$, \$, 21X, 30X		
P	0061401			+.PH5D1 .T1D1-10		
P	0061401			08B\$, 20,	13X	
P	0061402			+.GND08B16 .		
P	0061402			08B\$, 05X,	19	

CODE LINE NO. CHG LOGIC EQUATIONS / PINS / REMARKS 123658-001 100 03710

1 2 . . . 8 9 10 . . . 15 . . . 20 . . . 25 . . . 30 . . . 35 . . . 40 . . . 45 . . . 50 . . . 55 . . . 60 . . . 65 . . . 70

P	0061500		PH6D1	=B* +.PH6D1 .NPHD1X0		
P	0061500			07B21X, 21X, 30X		
P	0061501			+.PH6D1S0 .T4D1=0		
P	0061501			07B\$, 20, 13X		
P	0061502			+.GND07B16 .T4D1=20		
P	0061502			07B\$, 19, 05X		
P	0061600		PH6D1S0	=B .PH5PD1 .CM007		
P	0061600			05B45, 39, 42		
P	0061700		PH6PD1	=B* +.PH6PD1 .NPHPD1X0		
P	0061700			08B46X, 46X, 30X		
P	0061701			+.PH6D1 .T1D1=10		
P	0061701			08B\$, 47, 13X		
P	0061702			+.GND08B16 .		
P	0061702			08B\$, 05X, 50		
P	0061800		PH6T0D1	=B .PH6D1 .T0D1=30		
P	0061800			21C02, 03, 09, 02=09C43C-09D43C-10027T		
P	0061900		PH7D1	=B* +.PH7D1 .NPHD1X0		
P	0061900			07B46X, 46X, 30X		
P	0061901			+.PH7D1S0 .T4D1=0		
P	0061901			07B\$, 47, 13X		
P	0061902			+.PH6PD1 .T4D1=20		
P	0061902			07B\$, 50, 05X		
P	0062000		PH7D1S0	=B* +.PH3PD1 .NFP		
P	0062000			06B14, 17, 15, 14=09A50T		
P	0062001			+.CM008 .PH102PD1 .		
P	0062001			06B\$, 02, 04x, 03, 01		
P	0062100		PH7PD1	=B* +.PH7PD1 .NPHPD1X0		
P	0062100			08B09X, 09X, 30X		
P	0062101			+.PH7D1 .T1D1=10		
P	0062101			08B\$, 08, 13X		
P	0062102			+.GND08B16 .		
P	0062102			08B\$, 05X, 06		
P	0062200		PH7T1D1	=B .PH7D1 .T1D1=20		
P	0062200			02B01, 10, 11, 01=25B26T		
P	0062300		NPH7T1D1	=I .PH7D1 .T1D1=30		
P	0062300			19B45, 39, 42, 45=16C50T		
P	0062400		NPHD1X0	=B .NT3D1 .NRESET		
P	0062400			10B12, 06, 05, 07		

CODE	LINE NO.	CHK	LOGIC	EQUATIONS	PINS	REMARKS
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P	0062450		NPHP01X0	=I .T0D1-10 .		
P	0062450			20B26,24,	29X,25-04842T	
P	0062451			I .RESET-1 .		
P	0062451			20B25,23,	29X	
P	0062500		PLD1	=-FB		
P	0062500			05C27,27-08C43T		
P	0062520		NPLD1	=-NFB		
P	0062520			05C26		
P	0062530		S/PLD1	=* +.T1D1-10 .		
P	0062530			05C\$, \$, 19,	17,	18,
P	0062531			+ .GND05C16		14
P	0062531			05C\$, 01		
P	0062540		R/PLD1	=* +.T4D1-30 .		
P	0062540			05C\$, \$, 06,	12,	08
P	0062541			+ .RESET		
P	0062541			05C\$, 04		
P	0062700		PLD2	=-FB		
P	0062700			06C27,27-08C44T		
P	0062720		NPLD2	=-NFB		
P	0062720			06C26		
P	0062730		S/PLD2	=* +.T1D2 .		
P	0062730			06C\$, \$, 19,	17,	18,
P	0062731			+ .GND06C16		14
P	0062731			06C\$, 01		
P	0062740		R/PLD2	=* +.T4D2 .		
P	0062740			06C\$, \$, 06,	12,	08
P	0062741			+ .RESET		
P	0062741			06C\$, 04		
P	0062900		PLED1	=I .PLED1 I		
P	0062900			02C15,13,15-08C50T-09C22C-09022C		
P	0062901			I .PLD1 .		
P	0062901			01C45,39,	42	
P	0062910		PWD1	=-IDS * SENSE4D1		
P	0062910			06D19,21,19-10036T		
P	0062911			-IDS * SENSE1D1		
P	0062911			08D18,20		

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
			STGPA 1-0-P-5471			
P	0063000		=I	.PH2D1	.NFP	.RS .RSA2
P	0063000		01C15,30,	18,	31,	17,15-04844T
P	0063001		I	.PH12D1	.CM026	.CM023
P	0063001		01C33,25,	25,	27	
P	0063002		I	.PH7D1	.CM025	
P	0063002		01C13,04,	08		
P	0063003		I	.PH3D1	.	
P	0063003		02C45,43,	50X		
P	0063004		I	.PH11D1	.	
P	0063004		02C44,42,	50X		
P	0063005		I	.PH13D1	.	
P	0063005		02C46,30,	50X		
P	0063006		I	.PH14D1	.	
P	0063006		02C47,31,	50X		
P	0063007		I* +.CM023	.PH4D1		
P	0063007		03C13,*,*,21,	22		
P	0063008		+ .CM023	.PH1D1	.RS	
P	0063008		03C5,18,	19,	20	
P	0063009		+ .PH2D1	.FP	.CM023	
P	0063009		03C9,17,	15,	14	
P	0063010		I* +.CM023	.PH5D1-1		
P	0063010		03C01,*,*,07,	08		
P	0063011		+ .CM023	.PH6D1		
P	0063011		03C6,06,	05		
P	0063012		I	.CM023	.RSA2	.PH10D1
P	0063012		03C23,40,	38,	39	
P	0063100		=I	.PLED2I		
P	0063100		02C11,12,11-	08C47T-09C23C-09D23C		
P	0063101		I	.PLD2	.	
P	0063101		01C35,38,	43		
P	0063110		=-IDS * SENSE5D2			
P	0063110		08D01,40,01-10D26T			
P	0063111		-IDS * SENSE4D2			
P	0063111		08D19,21			
P	0063200		=I	.PH1D2	.NFSL	.SC
P	0063200		01C14,21,	20,	29,	19,14-04846T
P	0063201		I	.PH1D2	.NFSL	.CM027
P	0063201		01C34,24,	23,	22,	28
P	0063202		I	.PH2D2F	.FIN	.CM028
P	0063202		01C12,06,	05,	07	
P	0063250		=-CR */PLKX/			
P	0063250		10A27,*			
P	0063255		*/PLKX/	=-CD *GND10A32		
P	0063255		10A8,25			

CODE	LINE NO.	LOGIC	EQUATIONS	PINS	REMARKS
		SIGMA 1 + 0 + P - 3471			
P	0063300	PR	= I .NPR 20B15,13		
P	0063310	/PR/	= -CD *PR 12C8,45		
P	0063350	NPR	= I .CNSTNME .LASTONE 18C45,39, 42,45*08C11		
P	0063351		I .PR1 .NPR2 18C35,38, 43		
P	0063400	PR1	= -FB 06C20,20*18C50T		
P	0063500	NPR1	= *NFB 06C22		
P	0063510	S/PRI	= * +.PH12T3 .NBRD=1 .NTPE 06C8,8,42, 44, 46, 50, 38		
P	0063511		+ .PH12T3 .NBRD=1 .MPE 06C8,39, 41, 43		
P	0063512		+ .NFNT .MAR 06C8,45, 47		
P	0063520	R/PRI	= * +.GND06C16 . 06C8,8,28, 36, 34, 33		
P	0063521		+ .PH1T2D2 .FNT 06C8,31, 30, 29		
P	0063522		+ .GND06C16 . 06C8,37, 35		
P	0063523		+ .GND06C16 06C8,40		
P	0063600	PR1F	= -FBF 06C24		
P	0063700	PR2	= -NFB 06C23,23*08C28T		
P	0063800	NPR2	= -FB 06C25,25*07A43T		
P	0063810	S/PR2	= * +.RESET . 06C8,8,13, 15		
P	0063811		+ .NCNST . 06C8,11, 09		
P	0063820	R/PR2	= * +.PH1PD2 .T3D2 .FNT 06C8,8,10, 02, 03		
P	0063821		+ .GND06C16 . 06C8,07, 05		

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C/

SOS

SCIENTIFIC DATA SYSTEMS
SANTA MONICA CALIFORNIA

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS	110	C/L									
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	75
P	0063950		NPR2-1	=I	.PR2												
P	0063950			16C01,11,		10,01-08C45T											
P	0064000		NPR2F	=-F&F													
P	0064000			06C21													
P	0064100		PRCH	=-F&B													
P	0064100			05A27,27-08C01T													
P	0064200		NPRCH	=-N&F&B													
P	0064200			05A26													
P	0064210		S/PRCH	=*	+ .PH10201 .T1D1-00 .PC												
P	0064210			05A\$, \$,19,		17,											14
P	0064211			+ .GND05A16													
P	0064211			05A\$,01													
P	0064220		R/PRCH	=*	+ .GND05A16												
P	0064220			05A\$, \$,04													
P	0064221			+ .T001-00													
P	0064221			05A\$,06,		12,											08
P	0064600		RESET	=I	.NRESET												
P	0064600			17A05,02,		20X,05-25B27T											
P	0064650		RESET-1	=I	.NRESET												
P	0064650			20B11,12													
P	0064700		NRESET	=I	.RI&B												
P	0064700			11A36,37,		44,36-08C04T											
P	0064701			I	.TRR												
P	0064701			20B06,08,		07,											14
P	0064800		RI&B	=-CR	*/RI&B/												
P	0064800			12C38,\$													
P	0064810		/RI&B/	=-CD	*GND12C32												
P	0064810			12C\$,37													
P	0064900		RS	=-CR	*/RS/												
P	0064900			14B27,\$													
P	0064910		/RS/	=-NS													
P	0064910																
P	0065000		NRS	=I	.RS												
P	0065000			17C35,38,		43,35-08C05T											
P	0065100		RSA	=B	.RSA1												
P	0065100			15B46,40,		41											

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
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1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70

P	0065110		/RSA/	=-CD *RSA		
P	0065110			14C8,03		
P	0065200		RSA1	=-NFB		
P	0065200			10C22,22-17C47T		
P	0065300		NRSA1	=-FB		
P	0065300			10C20		
P	0065310		S/RSA1	=* +.PH5D1-1	.T2D1-10	.BRD .CM007
P	0065310			10C8,28,	36,	34, 33
P	0065311			+.PH1PD1	.T4D1-20	.NOUT
P	0065311			10C8,31,	30,	29
P	0065312			+.PH7PD1	.T3D1-10	
P	0065312			10C8,37,	35	
P	0065313			+.GND10C32		
P	0065313			10C8,40		
P	0065320		R/RSA1	=* +.PH7D1	.T0D1-30	.TBRD .
P	0065320			10C8,42,	44,	46, 50, 38
P	0065321			+.PH102D1	.T0D1-30	.
P	0065321			10C8,39,	41,	43
P	0065322			+.GND10C32	.	
P	0065322			10C8,45,	47	
P	0065400		NRSA1F	=I .CM036	.NED	
P	0065400			02C26,29X,	24	
P	0065401			I .CM036	.TRA1	
P	0065401			02C25,29X,	23	
P	0065402			I .CM036	.FP	
P	0065402			02C27,29X,	22	
P	0065403			I .PH1T2D1	.BRD	.NOUT .NTRA1
P	0065403			11C15,30,	18,	31, 17
P	0065404			I .CM037	.NBRD	.NOUT .NED
P	0065404			11C14,21,	20,	29, 19
P	0065405			I .CM037	.NBRD	.NOUT .TRA1
P	0065405			11C34,24,	23,	22, 28
P	0065406			I .PH2PD1	.T4D1-30	.
P	0065406			02C06,14,	08,	07
P	0065407			-FBF		
P	0065407			10C24		
P	0065500		RSA2	=-FB		
P	0065500			10C25,25-08C06T		
P	0065600		NRSA2	=-NFB		
P	0065600			10C23,23-11C47T		

CODE	LINE NO.	CHK	LOGIC	EQUATIONS	PINS	REMARKS										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70
				SIGMA	1	3	4	5	7							
P	0065610		S/RSA2	=* +.NRS	.	.										
	0065610			10C\$, \$, 10,	02,	03										
P	0065611			+ .RESET-1	.	.										
	0065611			10C\$, 05,	07											
P	0065620		R/RSA2	=* +.PH132D1	.T1D1=20											
	0065620			10C\$, \$, 15,	13											
P	0065621			+ .PH7T1D1	.T0RD											
	0065621			10C\$, 11,	09											
P	0065750		/RST/	=-CD *RESET-1												
	0065750			14C\$, 02												
P	0065800		RSA2F	=-FBF												
	0065800			10C21												
P	0065900		S15	=B* +.NSX0-0	.S15											
	0065900			21B26X, \$, \$, 23X,	26X											
P	0065901			+ .BA0	.SXBA=0											
	0065901			21B\$, 25,	18X											
P	0065902			+ .GND21B16	.											
	0065902			21B\$, 22X,	24											
P	0066000		S16	=B* +.NSX0-0	.S16											
	0066000			21B27X, \$, \$, 23X,	27X											
P	0066001			+ .BA1	.SXBA=0											
	0066001			21B\$, 28,	18X											
P	0066002			+ .GND21B16	.											
	0066002			21B\$, 22X,	29											
P	0066100		S25	=B* +.NSX0-1	.S25											
	0066100			21B39X, \$, \$, 36X,	39X											
P	0066101			+ .BA10	.SXBA=1											
	0066101			21B\$, 35,	37X											
P	0066102			+ .GND21B16	.SX20											
	0066102			21B\$, 34,	38X											
P	0066200		S26	=B* +.NSX0-1	.S26											
	0066200			21B42X, \$, \$, 36X,	42X											
P	0066201			+ .BA11	.SXBA=1											
	0066201			21B\$, 41,	37X											
P	0066202			+ .SX20	.											
	0066202			21B\$, 38X,	40											
P	0066300		S27	=B* +.NSX0-1	.S27											
	0066300			22B02X, \$, \$, 43X,	02X											
P	0066301			+ .BA12	.SXBA=1											
	0066301			22B\$, 31,	37X											
P	0066302			+ .GND22B32	.											
	0066302			22B\$, 38X,	33											

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CODE	LINE NO.	ENG	LOGIC	EQUATIONS	PINS	REMARKS										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70
				SIGMA 1 + 0.7 + 0.7												
P	0066400		S28	=B* +.NSX0-1	.S28											
P	0066400			22B01X, #, #, 43X,	01X											
	0066401			+ .BA13	.SXBA-1											
P	0066401			22B#, 45,	37X											
	0066402			+ .GND22B32	.											
P	0066402			22B#, 38X,	44											
	0066500		S29	=B* +.NSX0-1	.S29											
P	0066500			22B39X, #, #, 36X,	39X											
	0066501			+ .BA14	.SXBA-1											
P	0066501			22B#, 35,	37X											
	0066502			+ .GND22B32	.											
P	0066502			22B#, 38X,	34											
	0066600		S30	=B* +.NSX0-1	.S30											
P	0066600			22B42X, #, #, 36X,	42X											
	0066601			+ .BA15	.SXBA-1											
P	0066601			22B#, 41,	37X											
	0066602			+ .GND22B32	.											
P	0066602			22B#, 38X,	40											
	0066700		S31	=B* +.S31	.NSX0-0	.										
P	0066700			06B23, #, #, 26,	27,	25X										
	0066701			+ .PH1201	.TOD1-20	.										
P	0066701			06B#, 23,	24,	25X										
	0066702			+ .TOD1-20	.PH501-1	.										
P	0066702			06B#, 34,	37,	38,	33X									
	0066703			+ .JD	.T101-20	.PH101	.NZBC									
P	0066703			06B#, 36,	39,	35,	40X									
	0066800		S17	=B* +.NSX0-0	.S17											
P	0066800			21B12X, #, #, 23X,	12X											
	0066801			+ .BA2	.SXBA-0											
P	0066801			21B#, 11,	18X											
	0066802			+ .GND21B16	.											
P	0066802			21B#, 22X,	10											
	0066900		S18	=B* +.NSX0-0	.S18											
P	0066900			21B14X, #, #, 23X,	14X											
	0066901			+ .BA3	.SXBA-0											
P	0066901			21B#, 15,	18X											
	0066902			+ .GND21B16	.											
P	0066902			21B#, 22X,	17											
	0067000		S19	=B* +.NSX0-0	.S19											
P	0067000			21B21X, #, #, 30X,	21X											
	0067001			+ .BA4	.SXBA-0											
P	0067001			21B#, 20,	13X											
	0067002			+ .GND21B16	.											
P	0067002			21B#, 05X,	19											

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CODE	LINE NO.	CHK	LOGIC	EQUATIONS	PINS	REMARKS
	1	2	8	9	10	15 20 25 30 35 40 45 50 55 60 65 70
P	0067620		SENSE1D1	==DL		
P	0067620			05D34		
P	0067630		SENSE2D1	==DL		
P	0067630			05D21		
P	0067640		SENSE3D1	==DL		
P	0067640			05D19		
P	0067650		SENSE4D1	==DL		
P	0067650			05D03		
P	0067655		SENSE5D1	==DL		
P	0067655			05D36		
P	0067657		I/SENSED2	* +.PLED2	.PWD2	
P	0067657			07D15,15,08,	06	
P	0067658			+T0D2	.PWD2	
P	0067658			07D15,12,	10	
P	0067660		SENSE0D2	==DL		
P	0067660			07D46		
P	0067670		SENSE1D2	==DL		
P	0067670			07D34		
P	0067680		SENSE2D2	==DL		
P	0067680			07D18		
P	0067690		SENSE3D2	==DL		
P	0067690			07D02		
P	0067695		SENSE4D2	==DL		
P	0067695			07D11		
P	0067697		SENSE5D2	==DL		
P	0067697			07D40		
P	0067698		SPA1	=B .A1	.NA0=1	
P	0067698			15B34,22,	28,23,24,34-32C22C-32D22C	
P	0067699		SPA2	=B .A2	.NA0=1	
P	0067699			15B33,25,	27, 26,33-32C23C-32D23C	
P	0067700		SPA3=0	=B .NA0=1	.A3	
P	0067700			15B45,39,	42,45-19D05T-32C18C-32D18C	
P	0067800		NSPA3=0	=I .NA0	.A3	
P	0067800			29A15,30,18,31,17,15-19D07T-32C20C-32D20C		

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CODE	LINE NO.	PRG	LOGIC	EQUATIONS	PINS	REMARKS
			SIGMA 1-67P-571			
P	0067900		=B	.NA0-1	.A3	
P	0067900	SPA3-1	15B35,38,		43,35-15D06T-32C19C-32D19C	
P	0068000		=I	.NA0	.A3	
P	0068000	NSPA3-1	29A14,21,20,29,		19,14-11D05T-32C21C-32D21C	
P	0068200		=B	.NA0-1	.A4	
P	0068200	SPA4-0	15B36,44,		37,36-19D06T-32C43C-32D43C	
P	0068300		=I	.NA0	.A4	
P	0068300	NSPA4-0	29A34,24,23,22,28,		34-19D03T-32C45C-32D45C	
P	0068400		=B	.NA0-1	.A4	
P	0068400	SPA4-1	15B01,10,		11,01-15D08T-32C44C-32D44C	
P	0068500		=I	.NA0	.A4	
P	0068500	NSPA4-1	29A33,26,		25, 27,33-11D08T-32C46C-32D46C	
P	0068700		=I	.A0	.NA1	
P	0068700	SPA5-0	29A02,03,		09,02-19D39T-31C19C-31D19C	
P	0068701		I	.NA0	.NA5	
P	0068701		29A46,40,		41	
P	0068800		=I	.A0	.A1	
P	0068800	NSPA5-0	29A12,06,		05, 07,12-19D42T-31C21C-31D21C	
P	0068801		I	.NA0	.A5	
P	0068801		29A13,04,		08	
P	0068900		=I	.A0	.NA1	
P	0068900	SPA5-1	29A36,44,		37,36-11D39T-31C20C-31D20C	
P	0068901		I	.NA0	.NA5	
P	0068901		29A01,10,		11	
P	0069000		=I	.NA0	.A5	
P	0069000	NSPA5-1	29A35,38,		43,35-11D42T-31C22C-31D22C	
P	0069001		I	.A0	.A1	
P	0069001		29A45,39,		42	
P	0069200		=B* +.GND31A16	.SPA6-0		
P	0069200	SPA6-0	31A02X,4,5,43X,		02X,02X-19D44T-31C23C-31D23C	
P	0069201		+A6	.NA0-1		
P	0069201		31A5,31,		37X	
P	0069202		+A2	.A0		
P	0069202		31A5,33,		38X	
P	0069300		=B* +.GND31A16	.SPA6-1		
P	0069300	SPA6-1	31A01X,5,5,43X,		01X,01X-11D44T-31C24C-31D24C	
P	0069301		+A6	.NA0-1		
P	0069301		31A5,45,		37X	
P	0069302		+A2	.A0		
P	0069302		31A5,44,		32X	

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1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	75
			SIGNAL	1-9-1	5471												
P	0069400		SPA7-0	=B* +.GND31A16	.SPA7-0												
P	0069400			31A39X,35,36X,39X,39X-19D40T-31C43C-31D43C													
P	0069401			+A7	.NA0-1												
P	0069401			31A35,35,	37X												
P	0069402			+A3	.A0												
P	0069402			31A34,34,	38X												
P	0069500		SPA7-1	=B* +.GND31A16	.SPA7-1												
P	0069500			31A42X,35,36X,42X,42X-11D40T-31C44C-31D44C													
P	0069501			+A7	.NA0-1												
P	0069501			31A35,41,	37X												
P	0069502			+A3	.A0												
P	0069502			31A35,40,	38X												
P	0069600		SUB	=-NFB													
P	0069600			23B23,23*25B28T													
P	0069620		SUB-1	=I .NSUBF	.												
P	0069620			20B18,20X,	04,18-25B29T												
P	0069640		SUB-2	=I .NSUBF	.												
P	0069640			20B19,20X,	03,19-25B30T												
P	0069660		SUB-3	=I .NSUBF	.												
P	0069660			20B05,20X,	02,05-25B31T												
P	0069680		SUB-4	=I .NSUBF	.												
P	0069680			20B17,20X,	01,17-25B33T												
P	0069700		NSUB	=-FB													
P	0069700			23B25													
P	0069710		S/SUB	=* +.GND23B32	.												
P	0069710			23B35,35,15,	13												
P	0069711			+PH2T2D2	.												
P	0069711			23B35,11,	09												
P	0069720		R/SUB	=* +.PH3D1	.T001-10	.NHA											
P	0069720			23B35,35,10,	02,	03											
P	0069721			+PH4D1	.T001-10												
P	0069721			23B35,05,	07												
P	0069800		NSUBF	=-FBF													
P	0069800			23B21													
P	0069900		NSX0-0	=B .NCM012	.NCM011	.NCM010	.NRESET										
P	0069900			18B15,30,	18,	31,	17,15-04B47T										
P	0070000		NSX0-1	=B .NCM012	.NCM011	.NCM010	.NRESET										
P	0070000			18B14,21,	20,	29,	19										

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CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS
	1	2	8	9	10	15 20 25 30 35 40 45 50 55 60 65 70
P	0070100		SX20	=I .SX20I	.NPH12P01 .NPM012	
P	0070100			16B34, 24,	23, 22,	28, 34-25B34T
P	0070200		SX20I	=I .PH2D2	.CM044 .NPH1P02	
P	0070200			16B33, 26,	25, 27, 33-25B46T	
P	0070300		NSXBA	==NF3		
P	0070300			29C23		
P	0070310		S/SXBA=0	=* +.GND29C16	.	.
P	0070310			29C\$, \$, 10,	02,	03
P	0070311			+.PH184D1	.TOD1=30	
P	0070311			29C\$, 03,	07	
P	0070320		R/SXBA=0	=* +.T1D1D	.	.
P	0070320			29C\$, \$, 15,	13	
P	0070321			+.RESET	.	
P	0070321			29C\$, 11,	09	
P	0070400		SXBAF	==FBF		
P	0070400			29C21		
P	0070500		SXBA=0	==FB		
P	0070500			29C25, 25-25B35T		
P	0070600		SXBA=1	=B .SXBAF	.	.
P	0070600			18B01, 10,	11	
P	0070650		TOD1	==BDS * SENSE0D1		
P	0070650			06D06, 27, 06-09C25C-09D25C-08C12T-10D41T		
P	0070651			-IDS * SENSE1D1		
P	0070651			06D01, 40		
P	0070700		TOD1=00	==CLD		
P	0070700			09B47, 47-04A50T-11A47T		
P	0070725		TOD1=10	==CLD		
P	0070725			09B45, 45-16B50T-25B47T		
P	0070750		TOD1=20	==CLD		
P	0070750			09B44, 44-04B43T-17C50T		
P	0070775		TOD1=30	==CLD		
P	0070775			09B43, 43-25B50T-29A47T		
P	0070800		I/TOD1	=* +.TOD1	.	.
P	0070800			09B\$, \$, 42,	41	
P	0070900		TOD2	==BDS * SENSE0D2		
P	0070900			08D26, 43, 26-09C17C-09D17C-10D30T-19B47T		

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CODE	LINE NO.	CHK	LOGIC	EQUATIONS	PINS	REMARKS
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P	0071000		NT0D2	=-IDS * SENSE0D2		
P	0071000			08D02,44,02-09C01C-09D01C-08C21T		
P	0071050		T1D1	=-BDS * SENSE1D1		
P	0071050			06D05,25,05-09C26C-09D26C-08C13T-10D42T		
P	0071051			-IDS * SENSE2D1		
P	0071051			06D02,44		
P	0071100		T1D1-00	=-CLD		
P	0071100			09B39,39-07A47T-07A50T		
P	0071130		T1D1-10	=-CLD		
P	0071130			09B38,38-08C46T-08C19T		
P	0071160		T1D1-20	=-CLD		
P	0071160			09B37,37-04B45T-18C47T		
P	0071180		T1D1-30	=-CLD		
P	0071180			09B35,35-16B47T-25B44T		
P	0071195		I/T1D1	=* +T1D1		
P	0071195			09B5,5,40, 33		
P	0071200		T1D1D	=-BDS * SENSE5D1		
P	0071200			06D29,47,29-09C04C-09D04C-08C40T		
P	0071300		T1D2	=-BDS * SENSE1D2		
P	0071300			08D30,42,30-09C18C-09D18C-10D31T-19B50T		
P	0071301			-BDS * SENSE1D2		
P	0071301			08D34,41		
P	0071325		T2D1	=-BDS * SENSE2D1		
P	0071325			06D04,24,04-09C27C-09D27C-08C14T-10D43T		
P	0071350		T2D1-00	=-CLD		
P	0071350			09B31,31-07A37T-25B45T		
P	0071370		T2D1-10	=-CLD		
P	0071370			09B29,29-11C50T-08C03T		
P	0071390		T2D1-20	=-CLD		
P	0071390			09B28,28-08C25T-19C47T		
P	0071393		I/T2D1	=* +T2D1		
P	0071393			09B5,5,26, 25		
P	0071395		T2D2	=-BDS * SENSE2D2		
P	0071395			08D17,22,17-09C31C-09D31C-10D33T-08C31T		
P	0071400		T2D2-0	=-CLD		
P	0071400			09B05,05-07A46T		

CODE	LINE NO.	CHG	LOGIC	EQUATIONS	PINS	REMARKS										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70
				STANA	1-0VP	S471										
P	0071420		I/T2D2	** +.T2D2	.NT3D2											
P	0071420			09B\$, \$, 06,	07											
P	0071500		T3D1-00	==CLD												
P	0071500			09B23, 23-04A47T												
P	0071510		T3D1-10	==CLD												
P	0071510			09B22, 22-08C35T												
P	0071520		I/T3D1	** +.T3D1	.											
P	0071520			09B\$, \$, 19,	24											
P	0071550		T3D1	==BDS * SENSE3D1												
P	0071550			06D07, 23, 07-09C28C-09D28C-08C24T-10D44T												
P	0071551			-IDS * SENSE4D1												
P	0071551			06D18, 20												
P	0071600		NT3D1	==IDS * SENSE3D1												
P	0071600			06D03, 46, 03-09C02C-09D02C-08C22T												
P	0071700		T3D2	==BDS * SENSE3D2												
P	0071700			08D28, 45, 28-09C20C-09D20C-10D34T-09A47T												
P	0071701			-BDS * SENSE3D2												
P	0071701			08D29, 47												
P	0071800		NT3D2	==IDS * SENSE3D2												
P	0071800			08D03, 46, 03-09C03C-09D03C-08C23T												
P	0071850		T4D1	==BDS * SENSE4D1												
P	0071850			06D17, 22, 17-09C29C-09D29C-08C29T-10D45T												
P	0071900		T4D1-0	==CLD												
P	0071900			09B15, 15-08C17T												
P	0071925		T4D1-10	==CLD												
P	0071925			09B14, 14-08C41T-29A50T												
P	0071950		T4D1-20	==CLD												
P	0071950			09B13, 13-08C30T-11A50T												
P	0071975		T4D1-30	==CLD												
P	0071975			09B11, 11-04B23T-08C15T.												
P	0071990		I/T4D1	** +.T4D1	.											
P	0071990			09B\$, \$, 08,	09											
P	0072100		T4D2	==BDS * SENSE4D2												
P	0072100			08D07, 23, 07-09C21C-09D21C-10D35T-08C18T												
P	0072150		/TI0/	==CD #F4												
P	0072150			14C\$, 19												

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CODE	LINE NO.	ENG	LOGIC	EQUATIONS	PINS	REMARKS															
	1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70	123553-001	121	03/1	76
P	0072180		/T0V/	=-CD *F5																	
P	0072180			14C\$,23																	
P	0072300		T0RD	=B* +.T0RD	.NPH2T1D2																
P	0072300			04C30,\$,45,	31,	29X,30-25B36T															
P	0072301			+.PH1T2D1	.3RD																
P	0072301			04C\$,47,	50,	29X															
P	0072302			+.PH1T2D1	.CM047	.N0UT															
P	0072302			04C\$,42,	45,	33X															
P	0072303			+.T2D1-10	.PH2D1	.CM047															
P	0072303			04C\$,40X,	41,	44,	43														
P	0072400		NT0RD	=I .T0RD																	
P	0072400			13C01,11,	10,01-25B37T																
P	0072500		TPE	=-FB																	
P	0072500			05C20,20-25B38T																	
P	0072600		NTPE	=-NFB																	
P	0072600			05C22,22-25B39T																	
P	0072610		S/TPE	=* +.PH1P01	.T4D1-30	.BRDIN	.10														
P	0072610			05C\$,42,	44,	46,	50,	38													
P	0072611			+.CM038	.PRCH	.IEVEN															
P	0072611			05C\$,39,	41,	43															
P	0072612			+.PH10T0	.M9-1																
P	0072612			05C\$,45,	47																
P	0072620		R/TPE	=* +.PH2T1D2																	
P	0072620			05C\$,28,	36,	34,	33														
P	0072621			+.GND05C16																	
P	0072621			05C\$,31,	30,	29															
P	0072622			+.GND05C16																	
P	0072622			05C\$,37,	35																
P	0072623			+.GND05C16																	
P	0072623			05C\$,40																	
P	0072700		TPEF	=-FBF																	
P	0072700			05C24																	
P	0072800		TRA	=B .I4	.N15																
P	0072800			15A36,44,	37																
P	0072801			B .N16	.N17																
P	0072801			15A01,10,	11																
P	0072900		NTRA	=I .TRA																	
P	0072900			17A17,01,	20X,17-25B40T																
P	0073000		TRA1	=-NFB																	
P	0073000			28C23,23-07A45T																	

CODE	LINE NO.	ENC	LOGIC	EQUATIONS	PINS	REMARKS										
1	2	8	9	10	15	20	25	30	35	40	45	50	55	60	65	70
				SIGMA 1 + E + P + 3471												
P	0073100		NTRA1	=-FB												
P	0073100			28C25,25	08C07T											
P	0073110		S/TRA1	=* +.CM030	.											
P	0073110			28C\$, \$, 15,	13											
P	0073111			+ .PH5PD1	.T4D1-10											
P	0073111			28C\$, 11,	09											
P	0073120		R/TRA1	=* +.PH#T0D1	.NCMD	.										
P	0073120			28C\$, \$, 10,	02,	03										
P	0073121			+ .PH2T1D2	.											
P	0073121			28C\$, 05,	07											
P	0073200		NTRA1F	=I .PH13T0	.CM015	.										
P	0073200			18C33, 26,	25,	27										
P	0073201			-FBF												
P	0073201			28C21												
P	0073250		TRR	=-CR */NTR/												
P	0073250			01D38, \$, 38-	09D05C-09C05C											
P	0073251		/NTR/	=-NS												
P	0073251															
P	0073300		UN0	=-SC												
P	0073300			13C45												
P	0073350		NUN0	=-SC												
P	0073350			13C47												
P	0073400		UN1	=-SC												
P	0073400			13C46												
P	0073450		NUN1	=-SC												
P	0073450			13C27												
P	0073500		UN2	=-SC												
P	0073500			13C03												
P	0073550		NUN2	=-SC												
P	0073550			13C19												
P	0073600		W0	=3* +.NWX0	.W0											
P	0073600			26A02X, \$, \$, 43X,	02X											
P	0073601			+ .WX1	.											
P	0073601			26A\$, 37X,	31											
P	0073602			+ .M30XI	.											
P	0073602			26A\$, 33,	38X											

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CODE	LINE NO.	LOGIC	EQUATIONS	PINS	REMARKS
1	2	3	4	5	6
			35	40	45
			20	25	30
			35	40	45
			40	45	50
			55	60	65
			70	75	80
			85	90	95
			100	105	110
			115	120	125
			130	135	140
			145	150	155
			160	165	170
			175	180	185
			190	195	200
			205	210	215
			220	225	230
			235	240	245
			250	255	260
			265	270	275
			280	285	290
			295	300	305
			310	315	320
			325	330	335
			340	345	350
			355	360	365
			370	375	380
			385	390	395
			400	405	410
			415	420	425
			430	435	440
			445	450	455
			460	465	470
			475	480	485
			490	495	500
			505	510	515
			520	525	530
			535	540	545
			550	555	560
			565	570	575
			580	585	590
			595	600	605
			610	615	620
			625	630	635
			640	645	650
			655	660	665
			670	675	680
			685	690	695
			700	705	710
			715	720	725
			730	735	740
			745	750	755
			760	765	770
			775	780	785
			790	795	800
			805	810	815
			820	825	830
			835	840	845
			850	855	860
			865	870	875
			880	885	890
			895	900	905
			910	915	920
			925	930	935
			940	945	950
			955	960	965
			970	975	980
			985	990	995
			1000	1005	1010

END OF LIST