Signal Analyzer System Model 5480A/R Operating and Service Manual Serial Pfx - All HEWLETT . NO PACKARD 05480-90021 (Manual) 05480-90025 (Fiche) June 1975 4 of 5

TROUBLE SHOOTING

Model 5480A/B

Section I

NAME	LOC	5486 ORIGIN * WDIRECT	Oμs .	2 1	4 µs	<i>6</i>	8µs	10	NAME	LOC	5486 ORIGIN * INDIRECT	Оµѕ	<i>2</i> '	<i>4)</i>	75	6 	<i>8µs</i> ↑	10
OPEN LOOP	A3A2(J)	<u>-</u>							SET PAR	A3A9(I7)	AI3(E)							_
CLOSED LOOP	A3A2(8)	A6(B) <u>∓</u>		<u> </u>	 				CLEAR DAR	A3A9(18)	A13(20]	. ——	+			+		_
COUNT	A3A2(9)	<i>47(F)</i> <u>¥</u>		<u> </u>	-		-		SET DAR	A3AIO(V)	A13(5)_		+			 		
SHIFT RIGHT	A3A2(IO)	47(J) <u>#</u>		<u> </u>	1		_		DAR-+HOLD	A3A9(i9)	A13(C)							
SHIFT IN	A3A2(II)	_		<u> </u>					PAR → HOLD	A3A9(20	A13(3)_		+	-				_
SHIFT LEFT	A3A2(I2)	A7(H)_							ACCUM-HOLD	A3A9(21) <u>-</u>			_		<u> </u>		
HIFT CLOCK	A3A2(I3)	AIZ(P)_	•				+		READ	A2A 3(II)	A7(E)_					+-		
CLEAR	A3A2(14)	AT(E)_	1		-	-		 	WRITE	A2AI3(8)	AT(C)		+-	-		-		_
COUNT UP	A3A2(I6)	A5(M)		1	-	-	-	\longrightarrow	CYCLE	A2AI3(6)	A7(0)_		-				_	_
COUNT DOWN	A3A2(I7)								READ	A2 A13(2)	<u>-</u>		九					
C19S18	A3A7(I9)	AIZ(W)		<u> </u>			_		STROBE	A2Al3(13)		╝					
PAR+ PAR+I	A3A9(4)	A13(T)_	<u> </u>			+	-		WRITE	A2AI3(5) _			\bot				
AR- PAR-I	A3A9(5)		<u> </u>	<u> </u>	 				INHIBIT	A2AI3(4) _			┰┼		1		_
PAR+- PAR+2	A3A9(6)	_							SET MSB	A2AIOA(S) A7(L)_	. ——	+-			1	-	-
PAR PAR+4	A3A9(7)	_			1		-	 	SET #	A2AIOA(т)					-		_
SHIFT IN	A3A9(8)	_							SET VERT	A2AIOA(I	J) <i>47(K<u>)</u></i>			_				_
HIFT RIGHT	A3A9(9)	_							SET HORIZ	A2A9B(I)	A7(M)							
AR → PAR	A3A9 (10)	_			ļ													
OUNT PAR	A3A9(II)	A6(B)			-		-											
HIFT	A3A9 (12)	_		-	-			·										
AR - DAR + I	A3A9(P)	AIO(R)_		<u> </u>			-											
LEAR PAR	A3Å9(U)	_		1	-				PULSES MA TO 1.2 µs O	Y BE PRE	SENT F	ROM 1.2 ND	µs OF	HISTO	OGRAN	1 BEGIN		
SYNC ON HE	 	AB(W)							2 SWEEP TIME									

Model 5480A/B

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5486 ORIGIN * LOC INDIRECT	0 µ5	<i>-</i> 	4 µs		8µs		NAME	1 1*	Ups	<u> </u>	4 μs	<i>6</i>	8µs
A3A2(J)							SET PAR	A3A9(17) A131	(E)	1/2			-
A3A2(8) <i>A6(8)</i> ₹		 					CLEAR DAR	A3A9(I8) AI3I	(20]	 			+
A3A2(9) A7(F)*		1					SET DAR	A3AIO(V) 4/3/	/5) <u> </u>		-		+
A3A2(IO) 47(J)*					1		DAR-+HOLD	A3A9(19) A13((c)				
A3A2(II)							PAR→ HOLD	A3A9(20) AI3	(3)_		 	-	+-
A3A2(12) A7(H)*							ACCUM-+HOLD	A3A9(2I)					
A3A2(I3) AI2(P)_		-			-		READ	A2A13(II) A7(8) B A	-	-	1	+
A3A2(14) AT(E)_	B A	 			+	-	WRITE	A2AI3(8) 47(c)_ ^		+	1	В
A3A2(16) A5(M)_			_		- i		CYCLE	A2AI3(6) A7(·	1			+
A3A2(I7)		<u>k.z</u>				 j	READ	A2 A13(2)		4			
A3A7(19) A12(W)_		1					STROBE	A2AI3(I3)	<u>-</u> _h	ĥ			
A3A9(4) <i>A/3(T)</i>	TA	1					WRITE	A2AI3(5)	^				
		1					INHIBIT	A2AI3(4)	A		 		+
A3A9(6)	<u></u>	-		 	_	_	SET MSB	AZAIOA(S) AZ	~				+
A3A9(7)		-	•	-			SET #	A2AIOA(T)		-			
A3A9(8)							SET VERT		(K) A B	 			+
A3A9(9)			ļ į				SET HORIZ						
A3A9(IO)									-				
A3A9(II) <i>A6(8)</i> ~	-												
A3A9 (I2)		 	_										
· · · · · · · · · · · · · · · · · · ·							COUNT UP PU OF ONE MCS	JLSES WILL A	PPEAR AT I	MCS INP THE NEX	UT RATE	FROM S	2.6µ √1
_	•	-					<u> </u>	R 1007	•				
AB(U)_		•	,	·			MCS SAWTOO BELOW 928-	OTH (TRI, EVE 00176	RY OTHER	PROCES	s) ON 54	180A MO	DELS
	A3A2(I) A7(F) A3A2(II) A3A2(II	A3A2(B) A5(B) = A3A2(I) A3A2(I) A3A2(II) A3A2(II	A3A2(J) A3A2(B) A6(B) ± A3A2(O) A7(F) ± A3A2(IO) A7(J) * A3A2(II) A3A2(III) A3A2(III) A3A2(III) A3A2(III) A3A2(III) A3A2(III) A3A2(III) A3A2(III) A3A3(III) A3A3(III)	LOC MDIRECT DIS 2 TIS A3A2(J)	A3A2(J) A3A2(8) A5(B) * A3A2(9) A7(F) * A3A2(10) A7(J) * A3A2(11) A3A2(12) A7(H) * A3A2(13) A12(P) A3A2(14) A7(E) T	A3A2(B) A6(B) ± A3A2(B) A6(B) ± A3A2(I) A7(F) ± A3A2(II) A3A2(II) A3A2(II) A3A2(II) B A A3A2(II) A3A2(II) A7(E)	A3A2(J)	LOC MDIRECT DIS 2 4-15 5 5 5 5 5 A3A2(J)	A3A2(I)	A3A2(I)	NAME LOC MOURECT NAME LOC NAME	A3A2(J) SET PAR A3A9(I) A3GEL A3A2(B) A5GEL A5A2(B) A5A	A3A2(J)

5486A/B Sign	als, MCS Program:		
LOCATION	SIGNAL	LOCATION	. SIGNAL
A5(2) A5(3) A5(L)	Always high Always low Always low 5480A: May be pulses occurring from T26 of one MCS	A9(B) A9(C) A9(E) A9(F)	Always high Always high Always low Always high
A5(M) A5(N) A5(P) A5(R)	program to T2 of succeeding MCS program Always high Always high Always high Always high	A9(H) A9(M) A9(U) A9(V)	Always high 5486B: Pulse at T94; 5486A: Pulse at T90 Always high Always high
A6(B) A6(C) A6(D)	Pulse at TØ if processing Always high Pulse at TØ	A9(W) A9(X) A9(Y)	Always high Pulse at T90 Always high
A6(E) A6(F) A6(H) A6(J)	Pulse at T80 Always high Always low Always high	A10(C) A10(D) A10(E)	Always high Low; goes high at T40 High if PRESAMPLE high Will go low at T40 after PRESAMPLE goes low
A6(K) A6(20)	Always high Always high	A10(9) A10(10) A10(11)	Pulse at T98 Pulse at T98 Always low
A7(5486B		A10(12)	Always high Pulse at T98
A7(B) A7(C) A7(D) A7(E) A7(F)	Pulse at T4 Pulse at T90 Always high Pulse at T2 Pulse at T4	A10(N) A10(13) A10(16) A10(R) A10(U)	Always high Pulse at T98 Pulse at T12 Always high
A7(H) A7(J) A7(K) A7(L) A7(M)	Always high Always high Pulse at T12 Pulse at T12 Pulse at T2	A13(B) A13(C) A13(5)	Low is displaying High if processing High; pulse at T34 if displaying and address register is 1000 or greater.
A7(N) A7(5486A	Always high	A13(E) A13(F) A13(H)	High; pulse at T34 if address reg. is at 1000 or more. Always high Always high
A7(B) A7(C)	Pulse at T16 Pulse at T4	A13(J) A13(P)	Always high High; pulse at T90 if address register is being reset from 1023 to Ø.
A7(D) A7(E) A7(F) A7(H) A7(J)	Always high Pulse at T14 Pulse at T4 Always high Always high	A13(16)	High; 5480A/5486A only: Pulse at T4 if SAWTOOTH/TRIANGLE is set to TRIANGLE. 5480A/5486A only: Pulse at T16 is processing and address is between 1000 and 1023 and SAWTOOTH/TRIANGLE is set to TRIANGLE.
A7(K) A7(L) A7(M) A7(N)	Pulse at T4 Pulse at T4 Pulse at T14 Always high	A13(W) A13(20)	Always high High; pulse at T16 if: 1) Address reg. is between 1000 and 1023 and 2) 5480 is displaying and 3) PROCESS START is lighted.

Section IV

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Table 4-2. Wiring Lists

DESCRIPTION

The wiring lists in this table enable you to locate any signal in a 5480A/B system and follow its path throughout the system.

The table is divided into several parts, as listed below.

PART A is a signal dictionary, listing all signals in alphabetical order by name, and providing the following information about each signal:

- 1. What it does
- 2. What units of a 5480A/B system have this signal, e.g., what other sections of the list provide additional wiring information about the signal path.

PARTS B THROUGH J provide wiring lists for each section of the 5480A/B and for each plug-in. Each of these lists is independent of the other lists (except for cross-reference information in the "REMARKS" column) and provides the following information about each signal:

- 1. The source of the signal for the given unit or section; note that this is not necessarily the the original source for that signal, and you may be referred to another list to find the
- 2. All places in the given section or unit where the signal is connected (including, in some cases, board connector pins used as tie points).
- 3. Cross-reference information for signals that are in more than one list.

The wiring lists in this table can be used with the wiring diagrams that follow the table. The chart below provides cross-reference information for you.

Wiring list Part	and Wiring Diagram of Figure	Are for 5480A/B Section or unit listed below
В	4-7	Display Section (A1)
C	4-8	Memory Section (A2)
D	4-9	Main Frame Logic Section (A3)
E	4-10	Light Driver and Flip-Flop (A4) and Power Supply (A5) Sections
F	none	Connectors
G	4-11	5485A
Н	4-12	5486A/B
I	4-13	5487A
J	4-14	5488A

ABBREVIATIONS

API = Analog Plug-In unit, which is a unit that plugs into the right-hand compartment of the 5480A/B. Current Analog Plug-In Units are: 5485A, 5487A, 5488A.

LD & FF = Light Driver and Flip-Flop, Section A4 of the 5480A/B

 $\underline{\text{LPI}}$ = Logic Plug-In unit, which is a unit that plugs into the left-hand compartment of the 5480A/B. The 5486B unit should be used with the 5480A main frame, and the 5486A used with the 5480A main frame.

Table 4-2. Wiring Lists (Cont'd)

MEM = Memory section of 5480A/B

MFL = Main Frame Logic section of 5480A/B

CONNECTORS (REFERENCE DESIGNATIONS)

Connecting jacks (inter-connecting or interfacing) are numbered as follows:

P/J21	Power connection	between	5480A/B	and LPI
-------	------------------	---------	---------	---------

- P/J22 Logic connection between 5480A/B and LPI
- P/J23 Connections between LPI and 5480A/B rear-panel connectors
- P/J24 Connections between LPI and API via 5480A/B (and P/J25)
- P/J25 Connections between API and LPI via 5480A/B (and P/J24)
- Connections between API and 5480A/B rear-panel connectors, sections A2 and A3,
- Connections between API and 5480A rear-panel connectors
- P/J28Power connection between 5480A/B and API
- Connections between Memory (A2) and Main Frame Logic (A3) sections
- Connections between Memory section (A2) and 5480A/B rear-panel connectors
- Power connections to/from Memory Section

HOW TO USE THE WIRING LISTS

Suppose you want to know everything about the CYCLE signal.

- 1. Referring to the alphabetical listing in PART A, you will learn that:
 - a. There are two CYCLE signals, one from an external source, and one from an
 - b. The external signal source is listed only in the wiring list for 5480A/B Section 2, at line 38.
 - c. The internal signal source is listed in 5480A/B Section 2, line 37, and 5486A/B, line 119.
- 2. Refer now to the 5480A/B Wiring List (Parts B through E)
 - a. The LINE column is used only to provide a means for signal referencing
 - b. Find LINE 37 of 5480A/B Memory Section A2 (Part C)
 - c. SIGNAL NAME is listed as CYCLE
 - d. SIGNAL SOURCE is listed as P2(20), which translates to pin 20 of connector P2. This is the signal source for this section.
 - e. The only place this signal is connected in the Memory Section is to board A13(6)
- f. Connectors P2/J2(20) rout this signal to the memory deck from J23(20), and we are referred to the 5486A/B wiring list, LINE 119.
- g. Find LINE 119 of the 5486A/B wiring list (Part H)
- h. The SIGNAL NAME is still listed as CYCLE
- i. The SIGNAL SOURCE is listed as A7(D), which means that in the 5486A/B, this is the source.
- j. Moving across LINE 119, you will see that the only place this signal appears is at

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named at the part of the large control of the large

- 3. Summarizing what you learned about the CYCLE signal in Step 2,
 - a. There are two CYCLE inputs to the 5480A/B Memory Section, one from an external source, and the other from the Logic Plug-in. The CYCLE signal causes the memory to perform a READ-WRITE cycle so memory contents are retained.
 - b. The internal CYCLE signal originates at 5486A/B A7(D) and is routed through P/J23(20) and J2/A2P2(20) to A2A13(6) in the 5480A/B Memory Section. This signal is connected to no other points.

PART A - SIGNAL DICTIONARY

	D TO C DED TO N	548	30A/B S	ECTION	N AND	LINE	5485A	5486A/B	5487A	5488A
SIGNAL NAME	DESCRIPTION	A1	A2	А3	A4	A5	548	548	548	548
AA	Quarter Select Sw True in quarter 1, first half						52	:	;	52
AB	Quarter Select Sw True in quarter 2, first half						59			59
A+B/ALT	irst nau						13 48			48
A DÁTA SIGNAL A DISP							69			69
A GAIN							71		70	7
"A" INPUT SIGNAL "A" NOISE SIGNAL							70			7
A OFF (A ON/OFF)							47		47	4
"A" POLARITY	,						9 75			7
"A" POSITION		1					74			7
"A" VERNIER AC18	Accumulator Bit 18			96			'-	196		
	Control					ļ	ļ			ļ
AC Ø	Accumulator Bit 0		52	97		1				
AC 1	Accumulator Bit 1		53 54	98 99						
AC 2 AC 3	Accumulator Bit 2 Accumulator Bit 3		55	100			İ		\	
AC 4	Accumulator Bit 4		56	101	!	1				
AC 5	Accumulator Bit 5		57	102	i			Ĭ		ì
AC 6	Accumulator Bit 6		58	103		1	ļ		1	
AC 7	Accumulator Bit 7		59	104	ļ		1			
AC 8	Accumulator Bit 8		60 61	105 106					Į	
AC 9 AC 1Ø	Accumulator Bit 9 Accumulator Bit 10		62	107			}		ľ	
AC 19 AC 11	Accumulator Bit 11		63	108						
AC 12	Accumulator Bit 12		64	109				¢.		
AC 13	Accumulator Bit 13		65	110				ĺ		
AC 14	Accumulator Bit 14		66	111	ì	1	1	1	1	-
AC 15	Accumulator Bit 15 Accumulator Bit 16		67 68	113 113	!					
AC 16 AC 17	Accumulator Bit 17		69	114					1	
AC 18	Accumulator Bit 18	1	70	115						
AC 19	Accumulator Bit 19		71	116						-
AC 2Ø	Accumulator Bit 20		72	117						1
AC 21	Accumulator Bit 21	1 .	73	118 119						
AC 22 AC 23	Accumulator Bit 22 Accumulator Bit 23		74 75	120	1	1		1		İ

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Model 5480A/B

Section IV Troubleshooting

PART A (Cont'd)

Table 4-2. Wiring Lists (Cont'd)

SIGNAL NAME	PART A (Cont'd)	Table 4-2	5. WIIIII	g Dists	(COIL U						
Accumulator Bit 0, True = 0 Accumulator Bit 3, True = 0 Accumulator Bit 3, True = 0 Accumulator Bit 4, True = 0 Accumulator Bit 4, True = 0 Accumulator Bit 4, True = 0 Accumulator Bit 7, True = 0 Accumulator Bit 8, True = 0 Accumulator Bit 8, True = 0 Accumulator Bit 10, True = 0 Accumulator Bit 11, True = 0 Accumulator Bit 12, True = 0 Accumulator Bit 15, True = 0 Accumulator Bit 16, True = 0 Accumulator Bit 19, Accumulator Bit 19, Accumulator Bit 19, Accumulator Bit 20 Accumulator Bit 20 Accumulator Bit 20 Accumulator Bit 23 Accumulator Bit 23 Accumulator Bit 23 Accumulator Bit 23 Accumulator Bit 24 Accumulator Bit 25 Accumulator Bit 26 Accumulator Bit 27 Accumulator Bit 28 Accumulator Bit 29 Accumulator Bit 20 Accu	SIGNAL NAME	DESCRIPTION	5480	A/B SE	CTION	AND LI	NE	5A	3A/B	į.A	3A
AC 3			A1	A2	A3	A4	A5	548	548(5487	5488
Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Accommission Acco	AC Ø				121					•	
ACC 4 ACC 7 ACC 7 ACC 8 ACC 9 ACC 8 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9 ACC 9	AC 3	Accumulator Bit 3,			122						
Accumulator Bit 7, True = 0 Accumulator Bit 11, True = 0 Accumulator Bit 11, True = 0 Accumulator Bit 11, True = 0 Accumulator Bit 12, True = 0 Accumulator Bit 12, True = 0 Accumulator Bit 15, True = 0 Accumulator Bit 15, True = 0 Accumulator Bit 16, True = 0 Accumulator Bit 16, True = 0 Accumulator Bit 19, True = 0 Accumulator Bit 19, True = 0 Accumulator Bit 20 True = 0 Accumulator Bit 20 True = 0 Accumulator Bit 23 True = 0 Amalog-to-Digital Converter finished True = 1 Amalog-to-Digital Converter finished True = 1 Advance display address by one Advance Process address register by 4 (not used at present) Advance process address register by 4 (not used at present) Advance process address register by 2 (not used at present) Advance process address register by 2 (not used at present) Advance process address by 2 (from ext source) Advance PAR+2 Advance process address register 2 Advance PAR+1 Advance process address register 2 Advance PAR+2 Advance process address register 2 Advance PAR+1 Advance process address register 2 Advance PAR+1 Advance process address register 2 Advance PAR+1 Advance PAR+2 Advance PAR+3 Advance PAR+4	AC 4	Accumulator Bit 4,			123						
ACC ACCUMULATOR BIT 8, True = 0 ACCUMULATOR BIT 11, True = 0 ACCUMULATOR BIT 11, True = 0 ACCUMULATOR BIT 12, True = 0 ACCUMULATOR BIT 12, True = 0 ACCUMULATOR BIT 15, True = 0 ACCUMULATOR BIT 15, True = 0 ACCUMULATOR BIT 16, True = 0 ACCUMULATOR BIT 19, True = 0 ACCUMULATOR BIT 19, True = 0 ACCUMULATOR BIT 20 ACCUMU	1	Accumulator Bit 7,			124						
Accumulator Bit 11, 126 True = 0 Accumulator Bit 12, 127 True = 0 Accumulator Bit 15, 128 True = 0 Accumulator Bit 15, 128 True = 0 Accumulator Bit 16, 129 True = 0 Accumulator Bit 19, True = 0 Accumulator Bit 20 True = 0 Accumulator Bit 20 True = 0 Accumulator Bit 20 True = 0 Accumulator Bit 23 Accumulator Bit 23 True = 0 Accumulator Bit 23 Accumulator Bit 23 True = 0 Accumulator Bit 23 True = 0 Accumulator Bit 23 Accumulator Bit 23 True = 0 Accumulator Bit 24 Accumulator Bit 25 Accumulator Bit 26 Accumulator Bit 27 Accumulator Bit 28 Accumulator Bit 29 Accumulator Bit 20 True = 0 Accumulator Bit 20 Accumulator Bit 20 True = 0 Accumulator Bit 20 True = 0 Accumulator Bit 20 Accumulator Bi	AC 8	Accumulator Bit 8,			125						
AC 12 Accumulator Bit 12, True = 0 128 AC 15 Accumulator Bit 15, True = 0 128 AC 16 Accumulator Bit 16, True = 0 129 AC 19 Accumulator Bit 19, True = 0 130 AC 2β Accumulator Bit 20 True = 0 131 AC 23 True = 0 Accumulator Bit 23 True = 0 165 AC TO HOLD Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded Grounded G		Accumulator Bit 11,			126						
AC 15	AC 12	Accumulator Bit 12,			127						
AC 16	AC 15	Accumulator Bit 15,			128						
AC 19 Accumulator Bit 19, True = 0 130 131 131 131 132 131 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132 132		Accumulator Bit 16,			129						
True = 0	! !	Accumulator Bit 19,			130						
True = 0					131						
ADC FIN Analog-to-Digital Converter finished True = 1 ADC FIN Analog-to-Digital Converter finished True = 0 ADVANCE DAR+1 Advance display address by one ADVANCE PAR+4 Advance process address register by 4 (not used at present) ADVANCE PAR 3 Advance process address register by 4 (ext source) ADVANCE PAR+2 Advance process address by 3 ADVANCE PAR+2 Advance process address register by 2 (not used at present) ADVANCE PAR+2 Advance process address by 3 ADVANCE PAR+2 Advance process address by 2 (from ext source) ADVANCE PAR 2 Advance process address by 2 (from ext source) ADVANCE PAR 2 Advance process address by 2 (from ext source) ADVANCE PAR 1 Advance process address by 2 (from ext source) ADVANCE PAR 2 Advance process address by 2 (from ext source) ADVANCE PAR 2 Advance process address by 2 (from ext source) ADVANCE PAR 2 Advance process address by 2 (from ext source) ADVANCE PAR 1 Advance process address by 2 (from ext source) ADVANCE PAR 2 Advance process address by 2 (from ext source) ADVANCE PAR 2 Advance process address by 2 (from ext source) ADVANCE PAR 2 Advance process address by 2 (from ext source)	AC 23				132						
Converter finished True = 1 Analog-to-Digital Converter finished True = 0 ADVANCE DAR+1 Advance display address by one ADVANCE PAR+4 Advance process address register by 4 (not used at present) ADVANCE PAR+4 Advance process address register by 4 (ext source) ADVANCE PAR+2 Advance process address by 3 ADVANCE PAR+2 Advance process address by 3 ADVANCE PAR+2 Advance process address by 2 (not used at present) ADVANCE PAR+2 Advance process address by 2 (not used at present) ADVANCE PAR+2 Advance process address by 2 (from ext source) ADVANCE PAR+2 Advance process address py 2 (from ext source) ADVANCE PAR+1 Advance process address register 2 ADVANCE PAR+1 Advance process address register 2 ADVANCE PAR+1 Advance process	1	Grounded	-		165						
Converter finished True = 0 ADVANCE DAR+1 Advance display address by one ADVANCE PAR+4 Advance process address register by 4 (not used at present) ADVANCE PAR+4 Advance process address register by 4 (ext source) ADVANCE PAR 3 Advance process address by 3 ADVANCE PAR+2 Advance process address register by 2 (not used at present) ADVANCE PAR+2 Advance process address register by 2 (not used at present) ADVANCE PAR+2 Advance process address by 2 (from ext source) ADVANCE PAR 2 Advance process address register 2 ADVANCE PAR+1 Advance process address register 2 ADVANCE PAR+1 Advance process	ADC FIN	Converter finished				·			104		
address by one ADVANCE PAR+4 Advance process address register by 4 (not used at present) ADVANCE PAR+4 Advance process address register by 4 (ext source) ADVANCE PAR 3 Advance process address by 3 ADVANCE PAR+2 Advance process address register by 2 (not used at present) ADVANCE PAR+2 Advance process address by 2 (from ext source) ADVANCE PAR 2 Advance process address register 2 ADVANCE PAR+1 Advance process 101 ADVANCE PAR+1 Advance process 101 ADVANCE PAR+1 Advance process 125 ADVANCE PAR+1 Advance process 125 ADVANCE PAR+1 Advance process 125	ADC FIN	Converter finished						84	103	84	84
address register by 4 (not used at present) ADVANCE PAR+4 Advance process address register by 4 (ext source) ADVANCE PAR 3 Advance process address by 3 ADVANCE PAR+2 Advance process address register by 2 (not used at present) ADVANCE PAR+2 Advance process address by 2 (from ext source) ADVANCE PAR 2 Advance process address register 2 ADVANCE PAR+1 Advance process 185	ADVANCE DAR.+1				181				165		
address register by 4 (ext source) ADVANCE PAR 3 Advance process address by 3 ADVANCE PAR+2 Advance process address register by 2 (not used at present) ADVANCE PAR+2 Advance process address by 2 (from ext source) ADVANCE PAR 2 Advance process address register 2 ADVANCE PAR+1 Advance process 185 205	ADVANCE PAR+4	address register by 4			184						
address by 3 ADVANCE PAR+2 Advance process address register by 2 (not used at present) ADVANCE PAR+2 Advance process address by 2 (from ext source) ADVANCE PAR 2 Advance process address register 2 ADVANCE PAR+1 Advance process 185	ADVANCE PAR+4	address register by 4			216		•				
address register by 2 (not used at present) ADVANCE PAR+2 Advance process address by 2 (from ext source) ADVANCE PAR 2 Advance process address register 2 ADVANCE PAR+1 Advance process 185	ADVANCE PAR 3								164		
address by 2 (from ext source) ADVANCE PAR 2 Advance process address register 2 ADVANCE PAR+1 Advance process 185 205	ADVANCE PAR+2	address register by 2			183						
address register 2 ADVANCE PAR+1 Advance process 185 205	ADVANCE PAR+2	address by 2 (from			217						
	ADVANCE PAR 2								101		
	ADVANCE PAR+1				185				205		

PART A (Cont'd)

Table 4-2. Wiring Lists (Cont'd)

PART A (Cont'd)	Table 4-2.	AA 11 11	g Lis.s	Cont dy			* 1	т		
		5480	OA/B SE	CTION A	AND LI	NE	4	5486A/B	∢	Į.
SIGNAL NAME	DESCRIPTION	A1	A2	A3	A4	A5	5485A	5486	5487A	5488A
ADVANCE PAR+1	Advance process address by one (from ext source)			186						
ADV PAR 1	Advance process address register 1					:		95		
ADVANCE PAR -1	+5	Ì		187				206	İ	
ADVANCE PAR -1	+5			188						
ALLOW STATE		ļ						115		
AR Ø	Process address register or display address register bit 0		10	193			41		41	41
AR 1	Process address register or display address register bit 1		11	194			42		42	42
AR 2	Process address register or display address register bit 2		12	195						
ĀR 3	Process address register or display address register bit 3		13	196						
AR 4	Process address register or display address register bit 4	:	14	197						
AR 5	Process address register or display address register bit 5		15	198						
AR 6	Process address register or display address register bit 6		16	199						
ĀR 7	Process address register or display address register bit 7		17	200						
AR 8	Process address register or display address register bit 8		18	201				į		
AR 9	Process address register or display address register bit 9		19	202						
AVE	Average mode		İ		,			83		
"B" DATA	Disp. Sw. Mem. "B" on data						55			55
"B" GAIN "B" INPUT SIGNAL	Disp. Sw. "B" Channel on input				į		73		72	73
BIT NO. 1 BIT NO. 2 BIT NO. 3 BIT NO. 4	-	:								102 103 104 105

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PART A (Cont'd)

Table 4-2. Wiring Lists (Cont'd)

				(OOIII G	<u> </u>			,		
SIGNAL NAME	DESCRIPTION	548	0A/B S	ECTION	AND L	INE	A.	A/B	W W	A
:		A1	A2	A3	A4	A 5	5485A	5486.A/B	5487A	5488A
"B" NOISE SIGNAL	Display Sw. "B" Channel on noise						72			72
"B" ON/OFF "B" OFF	Display Sw "B" Channel on "Off"						54	:	48	54
"B" POLARITY	B Channel + or - Sw. Setting						10			
"B" POSITION "B" VERNIER BASELINE ADJ BA BB	Pot Adjust Pot Adjust Pot Adjust Pot Adjust Switch Setting Switch Setting						77 76 20 51 58		73 20	77 76 20 51 58
CA	Switch Setting						50			50
CALIBRATOR	Internal 1V square wave sig al (to CAL out jack	20	1							
CAL ZERO	Level from calibrate switch (GND level in zero position)		22							
CAL FULL	Level from calibrate switch (GND when switch in full)		21				· I			i
CAR Ø	Lines to horiz, hold reg. after MPX with DAR-to-PAR and EXT Commands		27							
CAR 1 CAR 2 CAR 3			28 29 30							:
СВ	Switch Setting						57	į		57
"C" GAIN CHAN "A"	Tells input amp to look at Channel A input						14		74	14
CHAN A	(Not used)							14		
CHANNEL COMMAND	Ext source to control what channels the ADR will be looking at						40		40	40
CHAN OK	Determines if front panel switches are set for correct channel to process data						61	137	61	61
CLAC 19 - SET AC 18	Clear accumulator bit 19, set accumu- lator bit 18			215				192		
CLEAR .	Reset for time base (TB ₁ , TB ₂) MBBL							32		,
CLEAR 1	Clear accumulator			13	1 1		i		ı	

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PART A (Cont'd)

Table 4-2. Wiring Lists (Cont'd)

PARI A (Cont u)	Table 4 B				<u> </u>					
		548	BOA/B SI	ECTION	AND 1	LINE	Ą	A/B	A	A
SIGNAL NAME	DESCRIPTION	A1	A2	А3	A4	A5	5485A	5486A/B	5487A	5488A
CLEAR 1	Clear accumulator when in display. Prepare, 4 begin, or 4 end.			12				120		
CLEAR 2	Clear accumulator	,		34						
CLEAR ACCUM	From pushbutton switches (front panel) OV when both pushed in				1			:		
CLEAR DAR A	Clear display address register (low when T16, PSD1, EN PAR to hold reg, start lights are high			154				207		•
CLEAR DAR B	Clear display address register (A3A10-12) occurs same time as clear DAR A			167						
CLEAR HORIZ HOLD	Clear horizontal hold register		127							
CLEAR HOLD	Clear hold register containing shift information		i				- - -	99		
CLEAR PAR A	Clear process address register A (from logic plug-in)			153				109		
CLEAR PAR A	Clear process address register A (from external source)			214						
CLEAR PAR B	Clear process address register, occurs same time clear PAR A			166						
CLOCK 1	Clocks into buffer storage for horizontal DAC (first 4 bits)		31				;			
CLOCK 2	Clocks information into buffer storage of 4 DAC (bits 4-9)		32							
CLOSED LOOP	Closes loop in accumulator so information will not be lost during shifting			33						
"C" ON/OFF CORRELATION COUNT	Control line to all ac- cumulators to enable the accumulators to count.			28					49	9

PART A (Cont'd) Table 4-2. Wiring Lists (Cont'd)

	STONAL MARKE	DESCRIPTION	548	OA/B SE	CTION .	AND LII	₹.	4	4/B	4	4
	SIGNAL NAME	DESCRIPTION	A1	A2	A 3	A4	A 5	5485A	5486A/B	5487A	5488A
	COUNT DN A	Count down in accumulators (from EXT source)			24						
	COUNT DN B	Count down in high speed accumulator			37						
	COUNT DN C	Count down carry line from high speed accumulator board			39						!
	COUNT DN D	Count down carry line from second decade accumulator			41						
	COUNT DN E	Count down carry from third decade counter		-	43						
	COUNT DN ENABLE/GD DN 20 MHz PAR	Allows accumulator to count down (from logic plug-in)			22, 191			32	210	32	32
	COUNT DN F	Count down carry from fourth decade of accumulator			45						
	COUNT DN G	Count down carry from fifth decade of accumulator	ļ	·	47						
	COUNT DN PAR A	Carry down from process address register			207						
	COUNT DN PAR B	Carry line from process address register			211						
	COUNT DN PAR C	Carry down from process address register			213				199 (A only)		
	COUNT PAR	To enable process address register to count			159						
	COUNT UP A	Enables first accumulator to count			20				100		
	COUNT UP B	Enables count for high speed accumulator			36						
	COUNT UP C	Carry from accumu- lator to next lower one to enable count			38						
0	COUNT UP D	Enables count in accumulator (carry line from higher decade)			40						
į						<u> </u>					

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	<u> </u>		Cont'd)						\neg	å
	5480	A/B SEC	CTION	AND L	INE	Ą	A/B	A A	M.	¥
DESCRIPTION	A1	A2	А3	A4	A5	5485	5486	5487	5488	
nable count in ccumulator (carry rom previous ccumulator)			42	:	,	·				
nable count in ccumulator (carry ine from revious stage)			44				:			
inables count in ccumulator (carry rom previous tage)			46							
o enable count up n display address egister			203				,			
Count up by one in display register			204						<u> </u> 	
Gate 20 MHz to PAR o count			16, 189			33	211	33	33	ŧ
Carry up line from process address register			210	; ;						
Carry up line from process address register			212				10			
Carry up line from process address register			206		<u>.</u>		75			
(Not used)		\	}				107 (A on)	ly)		
From EXT source - Not used			<u> </u>			79		79	79	
To enable memory cycle (read-write)		37				:	119		!	
From EXT source to control memory cycle time		38					ļ			
						A	9			
Cnables word in dis- lay address reg. to be held in hold reg.			164			1 2				
Cnables line to trans- er display reg. con- ents into process reg.			162							
ord holds have real real real real real real real rea	coumulator (carry com previous coumulator) nable count in coumulator (carry ne from revious stage) nables count in coumulator (carry rom previous tage) to enable count up n display address egister count up by one in isplay register tate 20 MHz to PAR to count Carry up line from process address egister Carry up line from process address egister Carry up line from process address egister Carry up line from process address egister Carry up line from process address egister Carry up line from process address egister Carry up line from process address egister Carry up line from process address egister Carry up line from process address egister Carry up line from process address egister Carry up line from process address egister Carry up line from process address egister Carry up line from process address egister Carry up line from process address egister Carry up line from process address egister Carry up line from process address 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Carry up line from process address egister Carry up line from pr	mable count in acumulator (carry om previous acumulator) mable count in acumulator (carry ne from revious stage) mables count in acumulator (carry ne from previous acumulator (carry ne from previous acumulator (carry ne from previous acumulator (carry ne from previous acumulator (carry ne from previous acumulator (carry ne from acumulator (carry ne from acumulator (carry ne from acumulator (carry ne from acumulator (carry ne from from acumulator (carry ne from from acumulator (carry ne from from from acumulator (carry ne from from from from from from from from	nable count in commulator (carry om previous commulator) mable count in commulator (carry one from revious stage) mables count in commulator (carry one previous stage) mables count in commulator (carry one previous tage) of enable count up in display address egister Count up by one in display register carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process address register Carry up line from process	mable count in secundator (carry on previous secundator) mable count in secundator (carry on previous stage) mables count in secundator (carry on previous stage) mables count in secundator (carry on previous stage) mables count up a display address egister sount up by one in isplay register state 20 MHz to PAR to count secundator (carry on previous stage) Carry up line from rocess address egister Carry up line from process address egister Carry up line from and the process address egister Carry up line from process address egister Carry up line from and the process address egister Carry up line from and the process address en en en en en en en en en en en en en	mable count in commulator (carry om previous commulator) mable count in commulator (carry om previous countian commulator (carry om previous stage) mables count in commulator (carry om previous stage) mables count up of display address egister count up by one in isplay register carry up line from crocess address egister carr	mable count in commulator (carry on previous commulator) mable count in commulator) mable count in commulator (carry ne from revious stage) mables count in commulator (carry on previous tage) nables count up a display address egister fount up by one in isplay register late 20 MHz to PAR or count carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister foot used for enable memory cycle (read-write) From EXT source to control memory cycle time mables word in dislay address reg. to e held in hold reg. mables line to transper display reg. con-	DESCRIPTION A1 A2 A3 A4 A5 \$\frac{9}{6}\$ mable count in cumulator (carry ome previous cumulator) mable count in cumulator (carry material count) mable count in cumulator (carry ome from revious stage) mables count in cumulator (carry ome previous stage) mables count in cumulator (carry ome previous stage) o enable count up a display address egister fount up by one in isplay register so count carry up line from rocess address egister carry up line from crocess address egister count of the cr	mable count in cumulator (carry omprevious stumulator (carry on previous stumulator (carry on previous stage) mables count in cumulator (carry on previous stage) mables count in cumulator (carry on previous stage) mables count in cumulator (carry on previous stage) mables count up display address egister count up by one in isplay register state 20 MHz to PAR of count carry up line from cocusts address egister carry up line from cocusts address egister Carry up line from cocusts address egister Not used) From EXT source - Not used To enable memory cycle (read-write) From EXT source to control memory cycle (read-write) mables word in dislay address reg. to e held in hold reg. mables line to trans-er display reg. con-	mable count in seumulator (carry om previous seumulator) mable count in seumulator) mable count in seumulator (carry om previous stage) mables count in seumulator (carry ne from previous stage) mables count in seumulator (carry ne from previous stage) mables count in seumulator (carry ne from previous stage) mables count up of display address egister sount up by one in siplay register state 20 MHz to PAR to count marcess address egister sarry up line from process address egister sarry up line	mable count in cumulator (carry om previous recumulator) mable count in cumulator (carry on previous stage) mables count in cumulator (carry ne from revious stage) o enable count up display address egister count up by one in isplay register fate 20 MHz to PAR ocount carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line from rocess address egister carry up line f

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Section IV Troubleshooting

PART A (Cont'd)

Table 4-2. Wiring Lists (Cont'd)

	1able 4-2.									
-			0A/B SE		<u> </u>	JINE		m		T
SIGNAL NAME	DESCRIPTION	A1	A2	А3	A4	A5	5485A	5486A/B	5487A	54884
DATA SIGNAL DB DC BAL DC BAL A DC BAL B	- Signal from memory to output amp. - Switch Setting - Pot Adjust - Pot Adjust - Pot Adjust			m ga tri aga			26 56 21 11		26	26 56 21
"D" GAIN DISPLAY	- Line from program selector board to enable 5480A/B to						12	81	76	
DISPLAY DEFEAT DISPLAY LAMPDR.	driver to light dis- play light during				16		62	162	62	62
DISPLAY PBH DISPLAY PBM DISP SW DATA DISP SW INPUT DISP SW NOISE "D" ON/OFF "D" POSITION	display mode -Enables display routFrom display sw.btn.				21 14	21 14		151	51 53 52 50 77	
EA EB	Switch Setting Switch Setting				,		53			53
EN CDN 20 MHz	(From EXT source) control line to enable 20 MHz clock - to count down lines			23			60			60
ENABLE AC TO HOLD	Enable accumulator contents to the hold register			152	•1,					
ENABLE COUNT	Control line from EXT source to enable count in accumulators			4			:			
ENABLE COUNT	Enable count in accumulator for all functions (SUM - AUG - MCS H BEG, END, PREP)			3				125		
ENABLE COUNT DN 4	From EXT source to enable accumulator to count down			25						
ENABLE COUNT PAR	Enable process address register to count			142	į					
İ	Enables accumulators		Ī	21	i		85			1

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PART A (Cont'd)	Table 4-2	. Wirir	ng Lists	(Cont'd)		· ·			
		548	0A/B SE	CTION	AND L	INE	A	A/B	Ą	A
SIGNAL NAME	DESCRIPTION	A1	A2	A 3	A4	A5	5485A	5486A/B	5487A	5488A
ENABLE DAR TO HOLD	Enables display register contents to transfer to hold register			151				204		
ENABLE DAR TO PAR	Enables display register contents to transfer to process register			148						
ENABLE DAR TO PAR	From EXT source to enable display register contents to transfer to process register			149						
ENABLE EXT TB	Enable line to allow an external time base	•						42		
ENABLE OPEN LOOP	(Not used)			26						
ENABLE OPEN LOOP	From EXT source to accumulator control board			27						
ENABLE PAR TO HOLD	From EXT source to transfer contents of process register to hold register			192						:
ENABLE PAR TO HOLD	Enable process register contents to transfer to hold register			15Ø				197		
ENABLE 20 MHz/ SW HIST	Enable 20 MHz clock for counting in histogram mode			18			43	150	43	43
ENCLOSED LOOP/ EN COUNT PAR				11, 143				108		
ENCUP 20 MHz	Enable count up (20 MHz clock) from EXT source			17						
ENSHIFT IN	(Not used)			9						
ENSHIFT IN	From EXT source			10						
ENSHIFT IN PAR	From EXT source to enable shifting in process address register			146						
ENSHIFT IN PAR	(Not used)			147						
ENSHIFT LEFT	Enables accumulators to shift left			5				124		
ENSHIFT LEFT	From EXT source			6						

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Section IV Troubleshooting

PART A (Cont'd)

Table 4-2. Wiring Lists (Cont'd)

TART A (Cont u)	1 aoie 4-2.	*****	IE DIOC	(00111	u,	***	Γ	·		_
SIGNAL NAME	DESCRIPTION	548	0A/B S	ECTIO	N AND I	LINE	_	4/B	-41	
	DESCRIPTION	A1	A2	A3	A4	A5	5485A	5486A/B	5487A	
ENSHIFT RIGHT	Enables accumulators to shift right			7				123		
ENSHIFT RIGHT	From EXT source			8						
ENSHIFT RT PAR	From EXT source	İ		144						
ENSHIFT RT PAR	(Not used)			145						
EXT AC Ø	EXT bit to accumulator			72						
EXT AC 1	(Input) EXT accumu- lator bit			73						
EXT AC 2	(Input) EXT accumu- lator bit			74						
EXT AC 3	(Input) EXT accumu- lator bit			75						
EXT AC 4	(Input) EXT accumu- lator bit			76						
EXT AC 5	(Input) EXT accumu- lator bit			77						
EXT AC 6	(Input) EXT accumu- lator bit			78	ı					
EXT AC 7	(Input) EXT accumu- lator bit			79						
EXT AC 8	(Input) EXT accumu- lator bit			80			-			
EXT AC 9	(Input) EXT accumu- lator bit			81						
EXT AC 1Ø	(Input) EXT accumu- lator bit	ĺ		82						
EXT AC 11	(Input) EXT accumu- lator bit			83						
EXT AC 12	(Input) EXT accumu- lator bit			84						
EXT AC 13	(Input) EXT accumu- lator bit			85						
EXT AC 14	(Input) EXT accumu- lator bit			86						
EXT AC 15	(Input) EXT accumu- lator bit			87						
EXT AC 16	(Input) EXT accumu- lator bit			88						
EXT AC 17	(Input) EXT accumu- lator bit			89			'	•		
EXT AC 18	(Input) EXT accumu- lator bit			90						
EXT AC 19	(Input) EXT accumu- lator bit			91						

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Section IV Troubleshooting

Table 4-2. Wiring Lists (Cont'd) PART A (Cont'd) 5480A/B SECTION AND LINE 5486A/B 5485A 5488A 5487A SIGNAL NAME DESCRIPTION A4 **A5** A2 A3 A1 92 EXT AC 20 (Input) EXT accumulator bit EXT AC 21 (Input) EXT accumu-93 lator bit 94 EXT AC 22 (Input) EXT accumulator bit (Input) EXT accumu-95 EXT AC 23 lator bit 171 (Input) EXT address EXT ARØ register bit EXT AR 1 (Input) EXT address 172 register bit 173 EXT AR 2 (Input) EXT address register bit (Input) EXT address 174 EXT AR 3 register bit (Input) EXT address 175 EXT AR 4 register bit (Input) EXT address 176 EXT AR 5 register bit (Input) EXT address EXT AR 6 177 register bit (Input) EXT address 178 EXT AR 7 register bit 179 EXT AR 8 (Input) EXT address register bit (Input) EXT address 180 EXT AR 9 register bit 94 94 94 EXT SAMPLE (Input) EXT sample command +EXT TRIG Line to enable input buffer for positive LINE trigger input EXT AVE (Input) EXT average 105 command 106 EXT PREP (Input) to control prepare line 82 82 82 FREQ HISTOGRAM From histogram switch 159 - E.i | 86 FREQ HIST Line to enable histogram program Ground GRD GRD Ground GRD Ground

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PART A (Cont'd) Table 4-2. Wiring Lists (Cont'd) 5480A/B SECTION AND LINE 5486A/B SIGNAL NAME DESCRIPTION 5485A 5487A **A2** A1 **A3** A4 **A5** GRD Ground 9 GRD Ground 4 GRD Ground HIST BEGIN Histogram begin 88 program HIST END Histogram end 93 program HORIZ DAC Horiz. DAC output 42 89 89 89 HORIZ DEFL HORIZ POS Pot Adjust 17 II INPUT MULT 3 13 12 INPUT MULT 14 17 INHIBIT STATE Do not allow state 114 INHIBIT TIME Part of mem. cycle 45 to allow inhibit time INPUT A Sig. input line to 7 7 Channel "A" INPUT B Sig. input line to 8 8 8 Channel "B" INPUT C Sig. input line to 9 Channel "C" INPUT D Sig. input line to 10 Channel "D" INPUT AMPL, Signal output line to 15 15 15 OUTPUT sample and hold LRC INTENSIFY (Not used) 18 INTENSITY MOD (Not used) 16 INT TRIGGER Sw. Setting line -7 indicates when using internal trigger L START Level - indicates 30 30 when start lite is on (A only) 85 L START A If lite start is on or EXT source wants to

turn on start lite -

L START A is high

High level when lite

Low level when lite

High level when lite

(Not used)

display is on

display is on

record is on

High when lite

"STOP" is on

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4-77

146

93

83

(A

only)

161

139

190

145

153

93

83

46

93

83

19

20

19

24

20

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L CONTINUE

L DISPLAY

L DISPLAY

L RECORD

L STOP

Model 5480A/B

PART A (Cont'd)

Table 4-2. Wiring Lists (Cont'd)

		5480	A/B SE	CTION	AND L	INE	4	4/B	41	•
SIGNAL NAME	DESCRIPTION	A1	A2	А3	A4	A5	5485A	5486A/B	5487A	5488A
L STOP	Low level when lite							116		
LINE SYNC	From transformer to provide 60 cycles for a line sync					33		212	i	
MA Ø	Memory address register bit 0		102				·			
MA 1	Memory address register bit 1		104	·					1	
MA 2	Memory address register bit 2		106							
MA 3	Memory address register bit 3		108	:						
MA 4	Memory address register bit 4		110						į	į
MA 5	Memory address register bit 5		112							
MA 6	Memory address register bit 6		114			!				
MA 7	Memory address register bit 7		116							
MA 8	Memory address register bit 8		118							
MA 9	Memory address register bit 9		120							
MA Ø	Memory address register bit 0 (compl. out)		103				,			
MA 1	Memory address register bit 1 (compl. bit 1)		105						!	
MA 2	Memory address register bit 2 (compl. out)	•	107							
MA 3	Memory address register bit 3 (compl. out)		109							
MA 4	Memory address register bit 4 (compl. out)		111							
MA E	Memory address register bit 5 (compl. out)		113							
MA 6	Memory address register bit 6 (compl. out)		115							

PART A (Cont'd)

Table 4-2. Wiring Lists (Cont'd)

OTOMAT MARKE	DESCRIPTION	5480	A/B SE	CTION	AND L	NE	A	A/B	Ą	
SIGNAL NAME	DESCRIPTION -	A1	A2	А3	A4	A5	5485A	5486A/B	5487A	
MA 7	Memory address register bit 7 (compl. out)		117							
MA 8	Memory address register bit 8 (compl. out)		119							
MA 9	Memory address register bit 9 (compl. out)		121							
MAAR Ø	Memory switch setting (Looks)		131				66		66	
MAAR 1			133				63		63	
MAIN SRQ	Main service request							193		
MBAR Ø			130				65		65	
MBAR Ï			132				64		64	
MBSL	Main box slaved (EXT command)							39		
MBSSL	Main box sort of slaved (EXT)		50					201		
MCS	Level - indicates multi channel scale on							92		
MCS COUNT UP	Level - count up in multi channel scale						99	90	99	
MCS INPUT	Signal input line for MCS mode				:		91		91	
MOD HOLD	Horiz. hold register (EXT command)		51			:				
MM 1	Indicates if memory is being exercised		47		:					
MM 2	Indicates if memory is being exercised		48							
NEG EXT TRIGGER	Level – indicates pos. for neg. EXT trigger							5		
NEG SYNC OUT	Rear panel output for neg. trigger						98		98	
NINE BITS	Any setting past 2 millisec/cm 16 9-bit ADC resolution - except EXT						35	180	35	
NOISE SIGNAL	Output from sample- hold board to output amplifier to show noise on CRT						24		24	

PART A (Cont'd)

Table 4-2. Wiring Lists (Cont'd)

PARI A (Coll u)	Table 4-	2. WILLIE	<u> </u>	(00110	~/			,		
CICNAL MANGE	DESCRIPTION	548	0A/B S	ECTION	AND I	INE	Y S	5485A/B	/A	3A
SIGNAL NAME	DESCRIPTION	A1	A2	A3	A4	A 5	5485A	5486	5487A	5488A
NON-PROCESS	Mode of operation where no processing takes place							142		
NORMAL	From Normal/ Preset Sw./high in normal	٠.						147		
OPEN LOOP	Instruction during shifting in accumulator			32						
OUTPUT MPX	To turn on output multiplier	:						11ø		
OVERLAY	Overlap instruction						67			67
PAD FIN	(Not used)						15		15	15
PAD OFF	Post analysis delay off						11		11	11
PAR TO HOLD	Contents of process address to hold register			163						
PAR Ø	Process address register bit 0		:	205				(A only)		
PBH CONTINUE	(Not used)							144		
P/D̄	Process and not display							94		
PEN LIFTER	Level - commands plotter pen to lift on retrace							208		
PLOT	Level to instruct plotter to plot						92	<u> </u> 	92	92
PLUG IN SYNC CONT	(Not used)							13		
POINT NO. 1 POS SYNC OUT	To rear panel – positive sync output pulse		:				97		97	107 97
POST ANAL DELAY	From switch - indicates pad is on or off					:		12		
POWER SENSE	(AC) from A5T1 transformer		76			36				
POWER SENSE	(AC) from A5T1 transformer		77			37				
PRADX1	Pre-analysis delay X1							19		
PRADX2	Pre-analysis delay X2				-	,		17		
PRADX5	Pre-analysis delay X5							18		

PART A (Cont'd)

Table 4-2. Wiring Lists (Cont'd)

		548	0A/B SI	ECTION	AND L	INE		/B		
SIGNAL NAME	DESCRIPTION	A1	A2	A3	A4	A 5	5485A	5486A/B	5487A	40041
PRADX1Ø	Pre-analysis delay X10							2ø		
PRADX1ØØ	Pre-analysis delay X100					·		21		
PRADX 1K	Pre-analysis delay X1K							22		; :
PREPARE	Level to indicate in prepare program			:				87		
PRESET REACHED	Level indicates when a preset number has been reached						III	148		
PRE SAMPLE A	Level occurring 10 μsec before sample pulse							35		
PRESET SHIFT CONT	Determined by sweep switch as to how far to shift in the accumulator							96		
PRESET TOTAL	High when counts match switch setting (for histogram mode)			139				149		
PRESET TOTAL 10 ²	Switch setting of preset totalizer			133				74		
PRESET TOTAL	Switch setting - preset totalizer			134				75		
PRESET TOTAL	Switch setting – preset totalizer	ļ		135				76		
PRESET TOTAL	Switch setting - preset totalizer			136	•			77		<u> </u>
PRESET TOTAL	Switch setting - preset totalizer	·		138				79		
PROCESS	Enable line telling unit to process							141		
PROCESS INHIBIT PRODUCT	Inhibits processing of data							163		12
PSDI	For prepare mode, determines a channel between 1000 and 1019			141				198		
PSD2	For prepare mode, determines a channel between 1020 and 1023			140				138		

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PART A (Cont'd)

Table 4-2. Wiring Lists (Cont'd)

RECORD PBH Level - hig	is done mory ead source to mory to for that memory eading sistor record lite gh when	5480 A1	A2 33 34 44	A3	AND LI	A5	31 2485A	2486A/B	31 A787A	31 5488A
RAMP FIN READ Part of mentiming - reportion READ From EXT induce mentead READ TIME Stays down portion of a cycle for reportion RECORD LAMP DR RECORD PBH Level - hig	is done mory ead source to mory to for that memory eading sistor record lite th when on record	A1	33	А3		A5				
READ Part of mentiming - reportion READ From EXT induce mentinduce for respective for respective for respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the respective for the re	source to mory to for that memory reading sistor record lite to more to the memory record lite to memory record lite to memory record		34		17		31	127	31	31
TEAD READ READ READ READ TIME RECORD LAMP DR RECORD PBH timing - reportion From EXT induce ment read Stays down portion of a cycle for record transderiver for Level - high	source to mory to for that memory eading sistor record lite to memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory to the memory t		34		17			127		:
induce men read READ TIME Stays down portion of a cycle for read RECORD LAMP DR RECORD PBH Induce men read From trans driver for the cycle for read driver for the cycle for read for the cycle for read for the cycle for read for the cycle for read for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle for the cycle f	for that memory reading sistor record lite on record				17					;
RECORD LAMP DR RECORD PBH portion of recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recycle for recy	memory eading sistor record lite the when on record		44		17					
DR driver for RECORD PBH Level - hig	record lite th when on record				.17					
RECORD PBH Level - hig	on record									
record lite					22	22		152		
RECORD PBM Line from pushbutton pushed in					18	18		200	:	
+REF Voltage rei baseline of summation				:			22		22	22
-REF Voltage rebaseline of summation			:				23		23	23
RESET Reset to a for looking analysis/s switch set	g at pre- weeptime							31		
RESET ADC Reset ADC beginning of sample							30	117	30	30
RESET LAMP From tran DRIVE driver for lamp drive	reset				12			!		
RESET TB1 Reset time	ebase 1						90	38	90	90
RESET TB2 Reset time	ebase 2	<u></u>			ļ			40		
SAARØ EXT contr address re			125			<u> </u>	39		39	39
SAARI EXT contraddress rebit 1			123			36				
SAAR2 EXT contraddress rebit 2			128							i i
SAAR3 EXT contraddress rebit 3			129							
							ļ	1	1	1

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PART A (Cont'd)

Table 4-2. Wiring Lists (Cont'd)

PART A (Contra)	1able 4-2.			,			·			
SYGNAY MAME	DESCRIPTION	548	OA/B SEC	CTION	AND L	INE	₩	A/B	A	Ą
SIGNAL NAME	DESCRIPTION	A1	A2	A3	A4	A 5	5485A	5486A/B	5487A	5488A
SAMPLE							100	41	100	100
SAMPLE	Level - instructs to sample input signal							140		
SAMPLED SIGNAL	Input signal to output amplifier for viewing on CRT						25		25	25
SAMPLE INTERV. SAWTOOTH/ TRIANGLE	From switch rear panel for MCS mode (discontinued on newer units)	:						195 (A only)		11
SA Ø	Set accumulator Ø (from sense line)		78	48						
SA 1	Set accumulator 1 (from sense line)		79	49						
SA 2	Set accumulator 2 (from sense line)		80	50						
SA 3	Set accumulator 3 (from sense line)		81	51						
SA 4	Set accumulator 4 (from sense line)		82	52						
SA 5	Set accumulator 5 (from sense line)		83	53						
SA 6	Set accumulator 6 (from sense line)		84	54						
SA 7	Set accumulator 7 (from sense line)		85	55						
SA 8	Set accumulator 8 (from sense line)		86	56		į				
SA 9	Set accumulator 9 (from sense line)		87	57					:	
SA 10	Set accumulator 10 (from sense line)		88	58						
SA 11	Set accumulator 11 (from sense line)		89	59						
SA 12	Set accumulator 12 (from sense line)		90	60						
SA 13	Set accumulator 13 (from sense line)		91	61						
SA 14	Set accumulator 14 (from sense line)		92	62	ļ					
SA 15	Set accumulator 15 (from sense line)		93	63						
SA 16	Set accumulator 16 (from sense line)		94	64						
SA 17	Set accumulator 17 (from sense line)		95	65						

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Table 4-2. Wiring Lists (Cont'd) PART A (Cont'd) 5486A/B 5480A/B SECTION AND LINE 5487A 5488A 5485A DESCRIPTION SIGNAL NAME A4 **A**5 A2 **A3** 66 **SA 18** Set accumulator 18 (from sense line) **SA 19** Set accumulator 19 97 67 (from sense line) 68 98 SA 2Ø Set accumulator 20 (from sense line) SA 21 Set accumulator 21 99 69 (from sense line) **SA 22** 100 70 Set accumulator 22 (from sense line) **SA 23** Set accumulator 23 101 71 (from sense line) 38 38 38 SBAR Ø 124 EXT control of address register bit Ø SBAR 1 EXT control of 122 37 37 37 address register bit 1 SC 1 167 Shift control 1 SC 2 168 Shift control 2 SC 3 169 Shift control 3 SC 4 170 Shift control 4 SC 5 171 Shift control 5 SC 6 172 Shift control 6 SC 7 173 Shift control 7 174 SC 9 Shift control 9 175 SC 1Ø Shift control 10 176 SC 11 Shift control 11 177 SC 12 Shift control 12 178 SC 13 Shift control 13 101 101 SEEK Control line for 101 plotter/record mode 68 68 SEG Segment SENS MULT AUTO Switch position (sens multiplier switch) SENS MULT 20 182 Switch setting (sens multiplier switch) SENS MULT 21 184 Switch setting (sens multiplier switch)

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PART A (Cont'd)

Table 4-2. Wiring Lists (Cont'd)

z intel il (Oone u)				<u> </u>						
	n-gapyDirloV	5480	OA/B SE	CTION	AND L	INE	¥	A/B	¥	∢
SIGNAL NAME	DESCRIPTION	A1	A2	A3	A4	A5	r.⁴85A	5486A/B	5487A	5488A
SET AVE	Set average mode				:			128		1
SET DAR	Set display address register		126							
SET DAR B	Set display address register B	1		158				203		
SET DAR C	Set display address register C			170						
SET DISPLAY	Set display mode		24							
SET DISP SET DISP MULT	Set display mode (Comp	1. out)						133	45	
SET - HIST BEGIN	Set histogram begin program							131		
SET - HIST END	Set histogram end program							132		
SET HORIZ			40				:			
SET HORIZ			41					122		
SET IN MPX	Set input multiplex for correct channel input						44	111	44	44
SET - L DISP.AY	Set lite display				23	23		157		
SET - L RECORD	Set lite record				25			158		
SET - L START	Set lite start		1		29	29		154		
SET MCS	Set multi-channel scale							130		
SET MSB	Set most significant bit (sign)		39		:			118		
SET - NOP	Set no operation mode							135		
SET PAR A	Set process address register A			157				112		
SET PAR B	Set process address register B			169						
SET - PREPARE	Set prepare mode						!	134		
SET SCALE NUMBER	Enable line to set scale number switch setting (sens multiplier)							98		
SET SUM	Set summation mode							129		
SET SWEEP NUM								113		
SET VERT	Set vertical point for display	1	25				45	121		45
SET VERT	!	ŀ	26							
SEVEN BITS	Sweep time of 2 ms/cm is 7-bit information from ADC			:			34	179	34	34

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SENS MULT 2²

SENS MULT 23

Switch setting (sens

multiplier switch)

Switch setting (sens

multiplier switch)

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PART A (Cont'd)

Table 4-2. Wiring Lists (Cont'd)

										1
		5480	A/B SE	CTION	AND LI	NE	Ą	5486A/B	Ą	3A
SIGNAL NAME	DESCRIPTION	A1	A2	А3	A4	A 5	5485A	5486	5487A	5488A
SHIFT 1		-		14				191		
SHIFT 1				15						
SHIFT 2				35						
SHIFT IN PAR	Shift in process address register		,	161						
SHIFT IN				31						
SHIFT LEFT				29		ĺ				
SHIFT PAR A	Shift process address register A	į		155						
SHIFT PAR A	Shift process address register A		:	156						
SHIFT PAR B	Shift process address register B			168						
SHIFT RIGHT				30						
SHIFT RT PAR				160						
SHIFT RT PAR A				182						
SHIFT RT PAR B				208						
SHIFT RT PAR C				209						
SRT PAR B/ SHIFT RT PAR B START START ADC	Shift right in process address register	19		208			27	73	27	106 27
START LAMP DR.					31					
START PBH	Level high when start on				28	28		143		
START PBM	Switch – start push- button low when pushed in				32	32				
START-SHIFT								97		1
START (TØ)	Start time Ø						17	166	17	17
STATE ENABLED								136		
STOP LAMP DR.					15					
STOP PBH	Stop pushbutton level - high when stop on				26	26		146		
STOP PBM/SET-L	Indicates pushbutton being held down				13, 27	13				
STOP T (T12)	Terminates sample inter.						18	59	18	18
STROBE TIME	Part of memory cycle (part of read portion)		43							
SUB S/RQ	Sub service request (EXT cont)							194		
SUM	Summation mode							82	ļ Ļ	
l .	l ·	1		A						-1

PART A (Cont'd)

Table 4-2. Wiring Lists (Cont'd)

SIGNAL NAME	DESCRIPTION	548	OA/B SE	ECTION	AND L	INE	_ v	5486A/B	₩
		A1	A2	A3	A4	A5	5485A	5486	5487A
SW/AVE SWEEP NUM 2 ⁰ SWEEP NUM 2 ¹ SWEEP NUM 2 ² SWEEP NUM 2 ³ SWEEP NUM 2 ⁴	Switch average Switch setting 20 Switch setting 21 Switch setting 22 Switch setting 23 Switch setting 24						16	80 181 183 185 187 189	16
SWEEP VOLTAGE	Horizontal DAC out through shaping network for NMR work						96		96
SW HIST	Histogram mode switch		49	190				209	
SW MCS	Multichannel scale switch						:	91	
SW SUM	Summation switch							102	
SW TX1	Sweep time switch (X1)							25	
SW TX2	Sweep time switch (X2)	:					:	23	
SW TX5	Sweep time switch (X5)							24	
SW TX1Ø	Sweep time switch (X10)	!						26	
SW TX1ØØ	Sweep time switch (X100)	:						27	
SW TX1K	Sweep time switch (X1K)							28	
SYNC	Sync pulse for system							16	
TØ	Time slot Ø							56	
T2	Time slot 2 (.2 μsec after TØ)							57	
T4	Time slot 4 (.4 μ sec after TØ)		:					58	
T14	Time slot 14 (1.4 μsec after TØ)							60	
T16	Time slot 16 (1.6 μsec after TØ)			:				61)
T26	Time slot 26 (2.6 μsec after TØ)			,				62	
T28	Time slot 28 (2.8 μsec after TØ)							63	
Т34	Time slot 34 (3.4 μsec after TØ)							64	
Т36	Time slot 36 (3.6 μsec after TØ)	İ						65	

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PART A (Cont'd)

Table 4-2. Wiring Lists (Cont'd)

PART A (Cont a)	table 4 2.		<u> </u>							*******
		548	0A/BS	ECTION	AND L	INE	, A	5486A/B	Ą,	3≜.
SIGNAL, NAME	DESCRIPTION	A1	A2	А3	A4	A5	5485A	5486	5487A	5488A
T4Ø	Time slot 40 (4.0 μsec after TØ)					1		66		
Т5Ø	Time slot 50 (5.0 μsec after TØ)							67		
T58	Time slot 58 (5.8 μsec after TØ)				,			68		
T6Ø	Time slot 60 (6.0 μsec after TØ)							69		:
Т8∅	Time slot 80 (8.0 μ sec after TØ)			;				70	:	
T86	Time slot 86 (8.6 μsec after TØ)							71		
Т9Ø	Time slot 90 (9.0 μ sec after TØ)							72		
TB 1 TB 2 TB 3 TB 4 TB 5 TB 6 TB 7 TB 8 TB 9 TB 10 TB 11 TB 12	Time base 1 Time base 2 Time base 3 Time base 4 Time base 5 Time base 6 Time base 7 Time base 8 Time base 9 Time base 10 Time base 11 Time base 12							44 45 46 47 48 49 50 51 52 53 54		
TB B1	Coder to determine if 5-, 7-, or 9-bit ADC information						28	33	28	28
TB B2	Coder to determine if 5-, 7-, or 9-bit ADC information						29	34	29	29
10 MHz CLOCK	Divide-by-2 output from 20 MHz main clock	:					80	43	80	80
10 MS A	10 µsec pulses occurring after reset (clear)		! .		<u></u>			30		
10 MS B	10 µsec pulses (one pulse less than 10 µsec at beginning)							29		
TIME HISTOGRAM	Switch setting - histogram						81	<u> </u>	81	81
TIME HIST	Level - low when in time histogram						87	160	87	87
TOTAL, PRESET 1¢ ⁶	Switch setting 10 ⁶			137				78		

PART A (Cont'd)

Table 4-2. Wiring Lists (Cont'd)

PART A (Cont.d)	Table 4-2.	Wirin	g Lists	(Cont'o	1)					
Graver		5480 <i>E</i>	A/B SEC	TION A	AND LI	NE	A	A/B	A	
SIGNAL NAME	DESCRIPTION	A1	A2	А3	A4	A5	5485A	5486A/B	5487A	5488A
TRIGGER INPUT	Signal input for trigger							. 8		
TRIGGER LEVEL	Pot Adjust							9		
20 MHz	Main clock frequency		20	19				37		
VARIANCE OUTPUT	Back panel - only with variance option (5488)						88		88	88
VERTICAL DAC	Back panel output of vertical DAC		23				19		19	19
VERT DEFL		2								
VERT DEFLECTION					ļ		78		78	78
WRITE	Part of memory cycle - write portion	;	35					126		
WRITE	From EXT source - to control write portion of memory cycle		36							
WRITE TIME	High for length of time in write portion of memory		46		:					
X5 MAG SW	On main frame - to expand CRT display to X5	13								
X5 MAG SW	Switch setting	14								
Z AXIS	Output rear panel - for unblanking of EXT CRT	21					95		95	9
Z AXIS CRT	For unblanking of internal CRT	15				·				
+200V +200V		8 8				8				
+50V +50V		9				6				
+35V			9			35				
+19.5V +16V			6 8		10	34	5		5	;
+12V			1							1
+12V +12V				i			1	1	1	
+12V					,	2		_ ^		
+12V +5V		4	3							
+5V			١	1	4	4				
+5		6						3		
+5V		וט	I				1		_	Ι.
+5V +5V							3		3] }
				1			3		3	10

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PART A (Cont'd)

Table 4-2. Wiring Lists (Cont'd)

PART A (Cont'd)	Table 4-	2. Wirin	Lists	Cont u						
		5480A	/B SEC	TION A	ND LIN	IE .	₩	A/B	Æ	¥1
SIGNAL NAME	DESCRIPTION	A1	A2	A3	A4	A5	5485A	5486A/B	5487A	5488A
n EM			4	,			· · · · ·			
-7.5V -12V -12V -12V -12V		5				3	2	2	2	2
-12V -12V -19.5V			2 7			11	6		6	6
-50V -50V		7				7			<u> </u>	
-2950V -3000V		10 11								
	·			<u>.</u>						
		: :								
					1		<u>.</u>		:	
		<u></u>								

PARTS B THRU E - 5480A/B Table 4-2 (Cont'd)

This part of the table lists all connections in the 5480A/B Memory/Display (Main Frame) units. This part of the table is divided into sub-parts, corresponding with other documentation that divides the instrument into 5 major sections:

- A1 Display Section
- A2 Memory Section
- A3 Main Frame Logic Section
- A4 Switching Logic (Light Driver and Flip-flop) Section
- A5 Power Supply Section.

The main body of the list for each section applies directly to the 5480B units. Any changes for 5480A are listed at the end of the portion of the list where they apply.

The shaded portions of this list indicate signals that were present in the 5480A's with serial prefix 852- and below but are not in newer instruments.

Table 4-2. Wiring Lists (Cont'd)

												ing .											
PAR	T B 5480A/	B Al DISPI.	ni i	CTIO:	N Win	ring D	lagran	n: Fig	ure 4-	7	, 	,	,	,	,	, . -	,	,	,	,	,	,	, , , , , , , , , , , , , , , , , , ,
	//	Signer, Signer,	/ 		/ }	To the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of th	/ */		/ 						/								
/:	J. J. J. J. J. J. J. J. J. J. J. J. J. J	Signat.			\display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \display \di						/		/				/	/		/	\ \$		REMARKS
1		J2(41)	11						<u> </u>	(<u> </u>			<u> </u>	<u> </u>				From LPI Line 121
	VERT DEFL	J26(49)	6									-							-				To J29 Vert Scope Output
_ _2	HORIZ DEFL	J26(45)	4													† – –						1	0
4	+12V	A5A1(2)	9		912		 									İ							
5	-12V	A5A1(4)	20																				
6	+5V	A5A1(8)	12																				
7	-50V	A5A2(14)	5				907																
8	+200V	A5A2(6)	1		-		222																
9	+50V	A5A2(5)					229																
10	-2950V	A1A4					444																To A1V1(2) CRT Cathode
11	-3000V	A1A4					555																To A1V1(3) CRT Grid
12	GRD	Chassis	1° 19		SCRW		000																
13	X5 MAG SW	A1S1	3																				
14	X5 MAG SW	A1S1	2																				
15	Z AXIS CRT	A1A1(8)	8				936																
16	INTENSITY MOD	J16(ÿ)	13							<u> </u>													
17	HORIZ POS	A1R4	7																				
18	INTEN- SIFY	J26(31)	14						_														
19	SRTPARB	A3A11(R)			991																		Note: Bit 6 From PAR
20	CALI- BRATOR	A1A2(992)		<u> </u>	992																		To AIJI CAL Signal IV
	Z AXIS	A1A1(15)	15	ļ 		Ĺ.,					<u> </u>	. /									41		To API Line 95 & J11 Rear
. 22	SET V HOLD	J2(4)	10	394.5			(4-1) 337									75 N			Note	3 Dia	it Nun	hore	From MEM Line 25
									<u> </u>							_			. wie:	Deno Cole	e Wir Using ard Co	PUTS	
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5480	A: Serials I Signal in	refixed 852 dicated By	- And	Belo	v Had					<u> </u>						_							
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Table 4-2. Wiring Lists (Cont'd)

	T C 5480A/	7	7		,		<u>, </u>		<u>,</u>		7	, 	_		7	7	7	,	_	7		7 -	/ / /
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1	+12V	P3(5)											13,P						5		$\overline{}$		/
2	-12V	P3(12)	A(4)								A(4,D)	A(4,D)	10, L	5				-	12			-	
3	+5V	P3(7, 14)	A(2)							-	A(6, F)	A(6, F)	15,S		10, 1	14			7, 14				
4	-7.5V	P3(6, 13)	A(7)			_					<u> </u>					-	_		6, 13	-		\vdash	
5	GRD	P3(1,8)	A(1, A)											1(3,6)	15 5	15,S	\vdash		1,8				· · · · · · · · · · · · · · · · · · ·
6	+19.5V	A11(6, F)	1.,				A(11)			_	A/5. E	A(5, E)	6. F		10,0	10,0			4				To API Line !
7	-19.5V	A11(14, R)	A (n)				,==,				···		14. R							-			To API Line 6
8	+1.6V	P3(10)	A(3)						\vdash				7, H				-	-	10				& P.S. Line From Power Supply Line 3
9	+35V	P3(2)	<u> </u>			-	<u> </u>		-		ļ		3, C				\vdash		2	-		\Box	From Power Supply Line 3
							 						,,,								h		From MFL
10	ĀRŪ ĀRI	P2(3)			<u> </u>											J ,,	 	3	_		h T		Line 193 From MFL
11	ĀRĪ	P2(4) P2(5)											-			<u>н</u> 4		5			1		From MFL
13	ĀRĪ	P2(6)														3	-	6		-			Line 195 From MFL Line 196
14	ĀR4	P2(7)									B(H)					-		7			-		From MFL Line 197
15	ĀRŠ	P2(8)									B(D)			· 			-	8					From MFL Line 198
16	ĀRĒ	P2(9)							 		A(Z)							9					From MFL Line 199
																		-			<u> </u>		From MFL
17	AR7	P2(10)									A (TL)			_				10					Line 200 From MFL
18	AR8	P2(11)				·					A(T)							11					Line 201 From MFL
19 20	AR9 20 MHZ CLOCK	P2(12) A12(2)							-		A(P)			2	1			12					Line 202 Through P34 MEL Line 19
	CAL										410 =			-								\square	From Scale
21	CAL ZEDO	P2(21)							\vdash			A(8, J)			_								Calsn 55 From Scale
22	ZERO VERTICAI DAC	P2(46) A10A(B)								-		A(9, K) A(B)											Calsn S5 Through P33 To API Line
24	SET DISPLAY	A10A(10,L)					<u></u>				A(10, L)	_	_										TO ACT DIE
25	SET VERT.	P2(41)							_		_	A(17, U)						41					From LPI Line 121
26	SET		esila Agraj					4. j.				A(16,	le d		i ye. Gining		£: 7	15		É		7.7	From Ext Source J15(E)
26,	CARO	P2(15) A14(8)	3. (3.41.5		107.0		<u></u>			B(W)	T)	11		ئنن	8		(15)		E	J. Arr	ereginia di	ource Jib(E)
28	CARI	A14(7)	\vdash		<u> </u>						B(T)		_			7							
29	CAR2	Λ14(6)									B(P)			_		6					—		
-	CARI	A14(5)																					

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Section IV Troubleshooting

Table 4-2. Wiring Lists (Cont'd)

		·						Laui	C 1	<u>. </u>	** 11.	ng r	11312	. (01	,,,,,	·/			_				1
PART	Г С 5480A/B	(CONT'D)															,		, -	,	,	, —	
100	Solver, N.	Survey.	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31	CLOCK 1	A14(1)									B(1, A)					1							
32	CLOCK 2	A14(2)									B(21, Y)			-		2							
33	READ	P2(18)													11			18		18			From LPI Line 127
â	. najs	P2(43)									- 1		100	17.7	12			43				x	From Ext. Source J15(X)
34	READ WRITE	P2(43) P2(19)										·			8		-	19		19			From LPI Line 126
35 36	WRITE	P2(14)									n ()	£,			9			44				Y -	From Ext Source J15(Y)
37	CYCLE	P2(20)							-						δ			20		20			From LPI Line 119
38	CYCLE	P2(45)	177			1		7			. :	-		1/	7			45	1.			С	From Ext. Source J15(C)
	SET MSB	P2(40)										A(S)	-					40		4			From LPI Line 118
39 40	SET HORIZ	P2(42)										12(0)				В		42			v	v	From Ext. Source J16(V)
41	SET HORZ	P2(17)														A		17		17			From LPI Line 122
42	HORIZ DAL	A9A(3)									A(B)												Thru P35 to J9 and J26(22)
43	STROBE TIME		A(13)		A(13)						1				3								
44	READ TIME	A13(2)						-	A(5)	A(5)					2								
45	INHIBIT TIME	A13(4)	\Box	A(3)		A(3)					ļ				4				•				
46	WRITE TIME	A13(5)		10007					A(3)	A(3)					5								
47	мм1	A13(14)	\vdash		<u> </u>								11		14								
48	MM2	A13(13)											12		13								
49	SW HIST	P2 (13)	\Box													13		13		13			From LPI Line 209
50	MBSSL	P2(38)														P		38		45			From LP! Line 201
51	MOD HOLD	P2(16)														D		16			w		From Ext Source J16(W)
52	AC0	P1(1)				A(5)											1						From MFL Line 97
53	AC1	P1(2)				A(6)											2						From MFL Line 98
54	AC2	P1(3)				A(11)								<u> </u>			3						From MFL Line 99
55	AC3	P1(4)				A(12)											4						From MFL Line 100
56	AC4	P1(5)				A(15)											5						From MFL Line 101
57	AC5	P1(6)				A(16)											6						From MFL Line 102
58	AC6	P1(7)				A(17)											7						From MFL Line 103
59	AC7	P1(8)				A(18)											8						From MFL Line 104
60	AC8	P1(9)				A(19)											9						From MFL Line 105

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							Ta	ble '	4-2.	Wi	ring	Lis	ts (0	Cont	'd)							
PART C 5	180A/B (CONT'D)				-			•													
SE	Signer Name	**************************************		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2 CON 18 18 18 18 18 18 18 18 18 18 18 18 18		/ •//	/		//		/ /	10 17 00 00 00 00 00 00 00 00 00 00 00 00 00			/	/ -/		/ /	<i>T</i> / /	/ /	REMARKS
61 AC9	P1(10)				A(20)				i 1							10						From MFL Line 106
62 AC10	P1(11)				A(21)											11						From MFL Line 107
63 AC11	P1(12)				A(22)											12						From MFL Line 108
64 AC12	P1(13)		A(5)													13						From MFL Line 109
65 AC13	P1(14)	$oldsymbol{\perp}$	A(6)													14						From MFL Line 110
66 AC14	PI(15)		A(11)			<u> </u>			<u> </u>							15						From MFL Line 111
67 AC15	P1(16)	<u> </u>	A(12)						$oxed_{-}$							16						From MFL Line 112
68 AC16	P1(17)		A(15)		ļ						<u> </u>			L		17						From MFL Line 113
69 AC17	P1(18)	_	A(16)							_						18						From MFL Line 114
70 AC18	P1(19)		A(17)						<u> </u>							19						From MFL Line 115
71 AC19	P1(20)	<u> </u>	A(18)				<u> </u>									20						From MFL Line 116
72 AC20	P1(21)		A(19)													21						From MFL Line 117
73 AC21	P1(22)		A(20)							<u> </u>	<u> </u>		<u> </u>			22						From MFL Line 118
74 AC22	P1(23)	1_	A(21)					<u> </u>		<u> </u>						23						From MFL Line 119
75 AC23	P1(24)	\perp	A(22)		<u></u>				<u> </u>	<u> </u>		_				24		<u></u>				From MFI, Line 120
76 SENS		<u> </u>			<u> </u>	<u> </u>						2			<u> </u>			2				From A5T1
POWI 77 SENS		<u>.</u>								L.		В						9				From A5T1
78 SAØ	P1(26)			A (5)				<u> </u>			<u> </u>					26						To MFL Line 48
79 SA1	P1(27)	<u> </u>		A (6)							<u> </u>				<u> </u>	27						To MFL Line 49
80 SA2	P1(28)			A(11)			<u> </u>									28						To MFL Line 50
81 SA3	P1(29)	<u> </u>		A(12)												29						To MFL Line 51
82 SA4	P1(30)	_		A (15)												30						To MFL Line 52
83 SA5	P1(31)	<u> </u>		A(16)												31						To MFL Line 53
84 SA6	P1(32)			A(17)				<u> </u>			<u></u>					32						To MFL Line 54
85 SA7	P1(33)			A (18)												33						To MFL Line 55
86 SA8	P1(34)	_		A(19)												34						To MFL Line 56
87 SA9	P1(35)			A (20)			ļ		ļ							35						To MFL Line 57
88 SA10	P1(36)			A(21)			:									36						To MFL Line 58
89 SA11	P1(37)	<u> </u>		A (22)												37						To MFL Line 59
90 SA12	P1(38)	A (5)														38						To MFL Line 60

Table 4-2. Wiring Lists (Cont'd)

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PART	C 5480A/B	(CONT'D)													,	,	, ,		,		, ,	 ,	
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\sim		/ 	H	" 1		- 1	- 	- `	<u> </u>	- }	7	{	-	\dashv	{			一	一	\neg			o MFL
91	SA13	P1(39)	A(6)		_			\dashv		_	\dashv	\dashv	+				39	\dashv		_		7	ine 61 To MFL
92	SA14	P1(40)	A(11)		\dashv					\dashv		\dashv	_	-	-	-	40	-	_	-	 	7	line 62 To MFL
93	5A15	P1(41)	A(12)						\dashv					-		_	41	-	\dashv			- 1	Line 63 Fo MFL
94	SA16	P1(42)	A(15)		_		-		\dashv	_	_	<u> </u>			-	_	42	-	\dashv				Line 64 Fo MFL
95	SA17	P1(43)	A(16)							-			-		\dashv		43	-		\dashv			Line 65 To MFL
96	SA18	P1(44)	A(17)								-					_	44		-+	-	_	1	Line 65 To MFL
97	SA19	P1(45)	A(18)										_				45					1	Line 67 To MFL
98	SA20	P1(46)	A(19)		_				_		_			\dashv			46						Line 68 To MFL
99	SA21	P1(47)	A(20)						\dashv	_					_		47	_	_				Line 69 To MFL
100	SA22	P1(48)	A(21)						ļ								48						Line 70
101	SA23	P1(49)	A(22)							ļ				_			49				. 		To MFL Line 71
102	мар	A9B(19)					A(5)				B(19)			_									
103	MAØ	A9B(18)					A(8)				B(18)				_			_				_	
104	MA1	A9B(16)	<u> </u>				A(7)		_		B(16)				_								
105	MAI	A9B(15)					A(3)				B(16)			_								_	
106	MA2	A9B(13)					A(6)				B(13)				_								:
107	MA2	A9B(12)					A(10)				B(12)							_					
	MA3	A9B(10)							A(21		B(10)												
	MA3	A9B(9)							A(19)		B(9)				١								
	MA4	A9B(7)							,30]		B(7)												
	MA4	A9B(6)							.,22		B(6)												
	MA5	A9B(4)						A(5)			B(4)		İ										
	MA5	A9B(3)	Π					A(8)			B(3)												
\Box	MA6	A9A(22)						A(7)			A(22												
	MĀ6	A9A(21)						A(3)			/v(21												
	MA7	19A(19)						A(6)			A(19												
	MA7	A9A(18)	1.					A(10)			A(18												
	MAB	A9A(16)	1	1						A(20)	I												
			T	1	T	 	<u> </u>			A(22)													
	B MAB	A9A(15)	+	 		1	T			A(21)	I	i					\top		<u> </u>				
12	0 MA9	A9A(13)					1	I		M(21)	IWIT	1	ļ <u> </u>	<u> </u>	-		1						

Table 4-2. Wiring Lists (Cont'd)

PAR	RT C 5480A/	B (CONT'D))																				
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121	MA9	A9A(12)	ļ	<u> </u>	_	ļ	ļ	<u> </u>	<u> </u>		A(12)									ļ			
122	SBARI	P2(30)	ļ			<u> </u>	ļ	ļ	<u> </u>							10		30		ē		22	From EXTJ16 To API Line 3
123	SAARI	P2(31)	<u> </u>					<u> </u>						<u> </u>		9		31		ī		43	From EXTJ16 To API Line
124	SBARØ	P2(29)				<u> </u>										_11		29		d		42	From EXT J16 To API Line 3
125	SAARO	P2(28)														12		28		<u>-</u>		21	From EXTJ16 To API Line 3
126	SETDAR	P2(39)														С		39	U	U			From EXT Source J16(U)
127	CLEAR HORIZ HOL	D A14(R)						T -			B(8)			_		R							
	SAAR2	P2(52)														F		32		ū			From EXT Source J16(ū)
	SAAR3	P2(33)	i													E	-	33		₹			From EXT Source
		P2(35)																		İ			From API
		P2(34)		\Box	T				 -							M		35			15	 	Line 65 From API
					 		 		-		 	ļ .				N .		34		\vdash	16	 	Line 66 · From API
	MBARI	P2(36)	 	├		-	-	-	-		<u> </u>			<u> </u>		L,		36		ļ	41		Line 64 From API
	MAARI RESET	P2(37)		├	 			 			A			-		K		37			40		Line 63 From LPI
134	HORIZ	P2(22)	-	\vdash		-	-				(9, K)	<u> </u>		<u> </u>	-					-		-	Line 214
		·		 	-	 -		-												 			_
_			 -		\vdash		 		-	<u> </u>										_		 	
5480	A: MAKE T		ES LE	TED	BELO	įv	ļ	-	<u> </u>						_					ļ			
,	(ALL SE	RIALS)					<u> </u>		ļ											ļ			
122	CAL ZERO	P2(46)					ļ				A (9, K)	A (9,K)											From Scale CALSW S5
134	DELETE T	HIS LINE	ļ	<u> </u>		_	<u> </u>																
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SER	ALS 852- A	ND BELOW																					
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Table 4-2. Wiring Lists (Cont'd)

							T	able	4-2	. w	ırır	g Li	StS	(CO.	ie u)			_					
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2	GRD	Chassis	22,2												26, 50			\dashv	_				
3	ENABLE COUNT	J22(1)		2]			1			From LPI Line 125
4	ENABLE COUNT	J16(6)		В														С			35		From Ext Source
5	ENSHIFT LEFT	J22(2)		3																2			From LPI Line 124
	ENSHIFT LEFT	J16(A)		С									ŀ					A					From Ext Scurce
- 6	ENSHIFT		H									\neg							\neg	3			From LPI Line 123
7	RIGHT ENSHIFT	J22(3)		4					_			\neg						В			36		From Ext Source
- 8	RICHT	J16(B)		D																4			Not Used
9	IN ENSHIFT	J22(4) J15(D)		5			[']			-				-						•			From Ext
10	IN ENCLOSEI	J16(D)		E													D ·	D	_				From LPI
11	LOOP	J22(6)	ļ	7																6	<u> </u>		From LPI
12	CLEAR 1	J22(17)		15												ļ.—	F	F		7			Line 12D
13	CLEAR 1	A4A1A	<u> </u>	s									\dashv									15	From LPI
14	SHIFT 1	J22(8)		P											<u> </u>	<u> </u>	<u> </u>			8			Line 191
15	SHIFT I	J 75(H) J 16(H)		R													H	н			32		From Ext Source From LPI
16	COUNTUP ENABLE	J22(10)	_	20			<u> </u>									<u> </u>	<u> </u>			10			Line 211
17	ENCUP 20MHZ	J15(P)		x					·								P				1	Ϊ	From Ext Source J15(P)
18	ENABLE 20MHZ	J22(13)		บ				<u> </u>								<u> </u>				13			From LPI Line 150 From New Line
19	20MHZ Clock	J34		т		ļ 					2					_	<u> </u>			24	ļ <u>.</u>		20 to LPI Line 37
20	COUNT UP A	J22(9)		18								L			<u> </u>					9			From LP1 Line 100
21	COUNT UI			v														J			33		From Ext or API Line 85
22	COUNT DI ENABLE	J22(12)	1	21			1													12			From LP1 Line 210
23	ENCDN 20MHZ	J15(R)		Y			రు.		,								R						From Ext Source J15(R)
24	COUNT DN A	J22(11)	1.	19																11			Not Used
25	ENABLE	- 	1	w														к		<u> </u>	34	$oxed{oxed}$	From Ext Source
26	ENABLE OPEN	J22(5)	1	6																5			From LP1 Line 119
27	ENABLE OPEN	J16(E)	1	F														E					From Ext Source
28	COUNT	A3A2(9)			-	\vdash	-	\vdash	-	_													
29	SHIFT	A3A2(12)	1	1	┝	-	F	-		-	-												
30	SHIFT	A3A2(10)	1		F	-	+	1	F	-					Γ								
	1	[110,121,10)	<u> </u>	ш	-																		

Table 4-2. Wiring Lists (Cont'd)

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32	OPEN LOOP	A3A2(J)	J	8					8				<u> </u>		 		 		†		-	To A3 & A8
33	CLOSED LOOP	A3A2(8)	8	J			<u> </u>	1	J										T			To A3 & A8
34	CLEAR 2	A3A2(14)	14	F				-	-								1					Ciny
35	SHIFT 2	A3A2(13)	13	_			-		-			ļ	_						1			
36	COUNT UP B	A3A2(16)	16	Т																		
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38	COUNT UP C	A3A3(16)		16	т														İ			
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41	COUNT DN D	A3A4(17)			17	U										Π		<u> </u>				
42	COUNT UP	A3A5(16)				16	т															
43	COUNT DN E	A3A5(17)				17	U															
44	COUNT UP	A3A6(16)					16	Т														
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46	COUNT UP	A3A7(16)						16	т													
47	COUNT DN G	A3A7(17)						17	υ													
48	SA0	J1(26)	 	2				<u> </u>						26								From Memo Line 78
4 9	SAI	J1(27)		В	ļ <u>.</u>									27								From Memo Line 79
50	SA2	J1(28)		3					<u> </u>					28								From Memo Line 80
51	SA3	J1(29)		С					ļ					29								From Memo Line 81
52	SA4	J1(30)		ļ. <u></u>	2									30								From Memo Line 82
53	SA5	J1 (31)			В									31								From Memo Line 83
54	SA6	J1(32)			3									32								From Memo
55	SA7	J1(33)			С									33								From Memo Line 85
56	SA8	J1(34)				2								34								From Memo Line 86
7	SA9	J1(35)				В							_	35								From Memo Line 87
8	SA10	J1(36)				3								36								From Memo Line 88
9	SAII	J1(37)				С								37								From Memo Line 89
io	SA12	J1(38)					2							3B	1							From Memo Line 90

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Table 4-2. Wiring Lists (Cont'd)

DΑ	RT D 5480A	/B (CONT'D))																				-	
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61	SA13							3							40				_	\exists			From Me Line 92	mory
62	SA14	J1(40)							<u>-</u>						41							_	From Me Line 93	mory
63	SA 15	J1(41)	\vdash					C	2						42								From Me Line 94	mory .
64 65	SA 16 SA 17	J1(42) J1(43)							В						43								From Me Line 95	mory
66	SAIR	J1(44)							3		$\neg \neg$				44								From Me Line 96	mory
67	SA 19	J1(45)							c						45								From Me Line 97	mory
\vdash																					<u></u>		From Me	mory
68	SA20	J1(46)							В						46 47								From Me Line 99	
69	SA21	J1(47)	\vdash						3					-	48							-	From Me Line 100	mory
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Table 4-2. Wiring Lists (Cont'd)

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91	EXTAC19	J17 (k)	Ĺ						4									_	ĥ			From F	Externa
92	EXTAC20	J17 J18 (F)								7						<u> </u>	 		ř				
93	EXTAC21	J17 J18 (∇)								6									v v				
94	EXTAC22	J17 J18 (Z)								5				1			-		z z				
95	EXTAC23	J17 J18 (DD)	Ī							4				1					DD			From E Source	Extern
96	SHIFT CONT AC18	A3A7(8)							8										, <u>, , , , , , , , , , , , , , , , , , </u>	22		To LPI Line 19	
97	AC0	A3A3(20)	†	 	20						w			 	1				В			To Ext	Source
98	AC1	A3A3(X)			х			<u> </u>			v				2				F			To Men	
99	AC2	A3A3(21)	21		21							6	 		3				L			To Men	n Line
00	AC3	A3A3(Y)	20		Y							7			4				R			To Men	
01	AC4	A3A4(20)	19			20						F		 	5		-		v			To Men	
02	AC5	A3A4(X)	18			x				ļ		н		<u> </u>	6				z			То Мен	
03	AC6	A3A4(21)	17			21							6		7				d d			To Men	
.04	AC7	A3A4(Y)	16			Y	_						7		8				J			То Мен	
05	AC8	A3A5(20)	15				20			-			F		9				p			То Мен	
06	AC9	A3A5(X)	14				x						н		10				ū		<u> </u>	To Mem	
07	AC10	A3A5(21)	13				21								11				<u>y</u>			To Mem	
08	AC11	A3A5(Y)	12			-	Y							-	12				cc			To Mem	
09	AC12	A3A6(20)	Y			 		20															
_			х	 	\vdash			x							13	-			D J			To Mem	
11	AC14	A3A6(21)	w					21		-		-		_	15				N			To Mem	
-		A3A6(Y)	v					Y					-		16				T			To Mem	
┪		A3A7(20)	υ		-		_		20	 					17				x			To Mem	
14			T						x	\vdash					18				<u>л</u> Б				
			s					-	21		_				19				<u>a</u> 1			To Mem	
┪		A3A7(Y)	R						Ý						20				m			To Mem	
┰		A3A8(20)	P					_	-	20					21				iii is				
	····		N							x	_											To Mem	
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┪		A3A8(Y)	M L			<u> </u>				21 Y					23				AA	\rightarrow		To Mem	

Table 4-2. Wiring Lists (Cont'd)

PAF	T D 5480A/	B (CONT'D)	1																				
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\\si	A THUS OF THE SERVICE STATES	the little		\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		ફેર્કે/ _ફ	/ق	<i>\$</i>		<i>Ş</i> /	<i>ઙૢ૽ૺૼ૾ૺ</i>			\$ \ \\ \!		_/.		;/;	\$ / \$	3/	ŷ/.	\$ /	REMARKS
	T		<u> </u>	7	7_	"	∕-₹	∕-₹	/ `	T	<u> </u>	7	7	7	7	7-	<u> </u>	1	7-3	/ 	7	*/ 	REMARKS
121	AC0	A3A3(V)	 		I —					18		<u> </u>			 	<u> </u>	ļ	ļ	<u> </u>	 	<u> </u>	-	ļ
122	AC3	A3A3(15)	<u> </u>		15	s	<u> </u>		_		ļ		 		<u> </u>	<u> </u>	<u> </u>	<u> </u>	ļ		<u> </u>		
123	AC4	A3A4(V)	<u> </u>		18	V					<u> </u>		<u> </u>	<u> </u>	<u> </u>	<u> </u>		<u> </u>			<u> </u>		<u> </u>
124	AC7	A3A4(15)	<u></u>		<u> </u>	15	s							<u> </u>					<u> </u>		<u> </u>	_	
125	ĀC8	A3A5(V)				18	v																
126	AC11	A3A5(15)	1				15	s															
127	AC12	A3A6(V)					18	v							T-	1				<u> </u>	 		
128	AC15	A3A6(15)						15	S													 	
129	AC16	A3A7(V)						18	v									1				-	
130	AC19	A3A7(15)							15	ន				Ì	\top	 	 			_	 	\dagger	
131	AC20	A3AB(V)							18	٧		_						\vdash				+	
132	AC23	A3A8(15)			s					15						 		-	<u> </u>		. <u></u> .	1	
133	PRESET TOTAL 10 ²	J22(15)	11											-						15		 	From LPI Line 74
134	PRESET TOTAL 10 ³	J22(16)	10															-		16	-	1	From LPI Line 75
135	PRESET TOTAL 10	J22(17)	9																ļ	17		1	From LPI Line 76
136	PRESET TOTAL 10 ⁵	J22(18)	8									•						1		18			From LPI Line 77
137	PRESET TOTAL 10 ⁰	J22(19)	7															-		19		1	From LPI Line 78
138	PRESET TOTAL 10	J22(20)	6											-				_		20		1-	From LP1 Line 79
139	PRESET TOTAL	A3A1(F)	F													<u> </u>	Ī			21		1	From LPI Line 149
140	PSD2	A3A1(K)	К															<u> </u>		46		1	To LPI Line 138
141		A3A1(J)	J																	45		1	To LPI Line 198
142		J16(M) J26(9)												E	<u> </u>			אַ			9		From Ext Source
	COUNT	J22(31)												5		 -		-		31	<u> </u>		From LPJ
ı	ENSHIFT	J16(L) J26(11)												F			<u> </u>			31	11	T	Line 108 From Ext Source
	ENSHIFT RT PAR	J22(29)												6						29	 ``	1-	Not Used
	ENSHIFT IN PAR	J16(L) J26(10)							\exists					н			ī b	ı.			10		From Ext Source J16(L)
	ENSHIFT IN PAR	J22(30)												7		ļ	Ī			30			Not Used
	ENABLE DAR TO PAR	J22(28)																				†	
	ENABLE DAR TO	J16(S)		••••	\neg	_			-					9						_28_		1	Not Used From Ext
	ENABLE PAR TO						\dashv	$\neg \dagger$				_		10				S	l			\vdash	From Ext Source From LPI
50	HOLD .	122(41)	L		i									16	<u> </u>	L		L		41	L	<u> </u>	From LPI Line 197

Table 4-2. Wiring Lists (Cont'd)

PAR	T D 5480A/	B (CONT'D)																			
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\$ \$	AD TESS PECIFORM	A ST THE SON HE COLOR			/ / 4	/ \$	7 / 2/5	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	/ \$ \$	REMARK
151	ENABLE DAR TO HOLD	J22(40)											18					40			From LPI Line 204
152	ENABLE AC TO HOLD	J22(42)											20		,			42	<u> </u>		
	CLEAR PAR A	J22(38)			 		-						11					38	 		Not Used From LPI Line 109
154	CLEAR DAR Å	J22(26)											13					26	 	 	From LPI Line 207
155	SHIFT PAR A	J26(6)											R					 	6		Not Used
156	SHIFT PAR A	J16(N)											14			N					From Ext Source
157	SET PARA	J22(39)											15		<u> </u>			39			From LPI Line 112
158	SET DAR B	J22(48)								- -			4					48			From LPI Line 203
159	COUNT PAR	A3A12(M)								11	11	11	м					ļ			,
160	SHIFT RT PAR	A3A12(K)								9	9	9	к					<u> </u>			
161	SHIFT IN PAR	A3A12(J)								8	8	8	J								
162	DAR TO DAR	A3A12(L)								10	10	10	L				-			<u> </u>	
163	PAR TO HOLD	A3A12(X)								20	20	20	х								
164	DAR TO HOLD	A3A12(W)								19	19	19	w								
165	AC TO HOLD	A3A12(Y)								21	21	21	Y								
166	CLEAR PAR D	A3A12(U)								U	บ	υ	U								
167	CLEAR DAR B	A3A12(V)									v	v	v								
168	SHIFT PAR B	A3A12(N)								12	12	12	N								
169	SET PAR B	A3A12(17)								17	17	17	17								
	SET DAR C	A3A12(18)								18	18	18									
	EXT ARO	718(<u>U</u>)				7				М					M		- n		5		From Ext Source
172	EXT ARI	(1)8(1)				6				N					s		ī		4		From Ext Source
173	EXT AR2	J18(k)				5					В				w		×		3		From Ext Source
174	EXT AR3	J18(88)				4					С				5		ВВ		2		From Ext Source
175	EXT AR4	J18(C)					7				D				₽ .		С		1		From Ext Source
176	EXT AR5	J18(H)					6				E				ķ		н		30		From Ext Source
	EXT AR5	J18(M)					5					Ð			F		М		29		From Ext Source
178	EXT AR7	J18(S)					4					С			v		s		28		From Ext Source
179	EXT AR8	J18(W)						7				D			ž		W		27		From Ext Source
1RO	EXT AR9	G)Sit			<u> </u>	-	Ì	6				E		İ	ממ		ā		26	<u> </u>	From Ext Source

Table 4-2. Wiring Lists (Cont'd)

PAR	T D 5480A/	B (CONT'D)																				
/3		in the light	Total Rep			40 10 143 40 1432 143	AC CUMPLE AF	ACCUMULATE AS	4C CUNULATO 408 40	A Part Mary	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	AD WESS HESTER		1 10 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			/		/ 		/ /*	S REMARKS
181	ADVANCE DAR+1	J22(27)								Р									27			From LPI Line 165
182	SHIFT RT PAR A	(R)01AEA								14	R											
183	ADVANCE PAR+2	J22(33)								6									33			Not Used
184	ADVANCE PAR+4	J22(34)								7									34			Not Used
185	ADVANCE PAR+1	J22(32)								4									32			From LPI Line 205
186	ADVANCE PART+1	J16(P) J26(7)								D							P	<u> </u>		7		From Ext Source
187	ADVANCE PAR-1	J22(35)								5									35			From LPI Line 206
188	ADVANCE PAR-1	J26(8)								E		_		<u> </u>			R			8		From Ext Source
189	GATED UP 20MHZ PAR	J26(17)			 					3									36	17		To LPI Line 211 From API Line 33
190	SW HIST	J22(47)								В									47			From LPI Line 209
191	GATED DN 20MHZ PAR	J26(42)								С									37	42		To LPI Line 210 From API Line 32
192	ENABLE PAR TO HOLD	J15(AA) J16(AA)									ļ		т_			AA	AA_					From Ext (See Line 150)
193	ĀRŌ	(Y)eaga	_						<u></u>	Y					3		ħ			14		To Mem Line 10 To API Line 41
194	ĀRĪ	A3A9(X)	ļ	ļ					<u> </u>	х					4		ï			39		To Mem Line 11 To API Line 42
195	ĀR2	A3A10(2)	В								2				5							To Memory Line 12
196	AR3	A3A10(3)	С								3				6							To Memory Line 13
197	ĀR4	A3A10(4)	ם								4				7							To Memory Line 14
198	ĀR5	A3A10(5)	E		 						5				8							To Memory Line 15
199	AR6	A3A11(2)	2				ļ					2			9							To Memory Line 16
200	AR7	A3A11(3)	3		 							3			10							To Memory Line 17
201	ĀR8	A3A11(4)	4									4			11							To Memory Line 18
202		A3A11(5)	5									5			12		z					To Memory Line 19 & Ext Source
203	COUNT UP	A3A9(13)								13	P											
_	COUNT UP DAR B	A3A10(13)									13	P										
205	PARØ	A3A9(K)				L				к							u			13		To Ext Source
206	COUNT UP PAR A	A3A9(15)								15	s											
207	COUNT DN PAR A	A3A9(16)								16	Т											
208	SHIFT RT PAR B	A3A11(R)									14	R										
209	SHIFT RT PAR C	J16(b)										14					<u>5</u>			12		From Ext Source
210	COUNT UP PAR B	Á3A10(15)									15	S										

Table 4-2. Wiring Lists (Cont'd)

																							
PAR	T D 5480A/I	(CONT'D)			, .	,		,	,	,		,	,		,	,	,	·, · ·	-,	-,	,	7	-,,-
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211	COUNT DE	A3A10(16)							<u> </u>	<u> </u>	<u> </u>	16	т										
212	COUNT UP PAR C	A3A11(15)	<u> </u>		<u> </u>								15							43			To LPI Line 10
213	COUNT DN PAR C	A3A11(16)											16							44			To LPI Line 199
214	CLEAR DN PAR A	J15(T) J16(T)												12			T	т					From Ext See Line 153
215	CLAC 19 SETAC 18								19											14			From LPI Line 192
216	ADVANCE PAR+4	J16(₩)									н							₩					From Ext Source
217	ADVANCE PAR+2	J16(x)									F							x					From Ext Source
5480	A: Serials,	Prefixed 8	2- ar	d belo	w you	inst	umen																
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Table 4-2. Wiring Lists (Cont'd)

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				AND	FLI	r Örn P-FLA)P	5	5 POV UPPL	Y													
PAR	T E 5480A/	B A4 SWIT A5 POW	CHING ER SU	LOGI PPLY	C SECT	CTION ION	(LIGI Wiring	IT DR Diago	IVER am:	AND I	FLIP 2 4-10	FLOP)										
		/	7		3 /	7	7/	7/	7/	7	7	7	7/	7	7	7	7	7	7 /	7/	7	7	
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/\$			13			/3/			/5	·/s³	`/\$	}/ş	³ /3	:/\$	`/\$	/					/		REMARKS
1	CLEAR ACCUM.	A3A2(5)	A (15) B (9)											EE									Also From Clear Display Push Buttons
2	+12V	A5A1(2)				2			5	4	4												To All Sections
3	-12V	A5A1(14)				4			12	12	12												To All Sections
4	+5V	A5A1(8)	B(22)			8			7, 14	2	2, 10												To Main Frame Logic Line 1
5	-7.5V	A5A1(15)				15			6, 13														To Memory Line 4
6	+50V	A5A2(5)					5																To Display Section Line 9
7	-50V	A5A2(14)					14																To Display Section Line 7
8	+200V	A5A2(6)					6																To Display Section Line 8
9	GRD	Chassis	3(1)			1	1		1,8	1,9 8,16	1,9 8,16												To All Sections
10	+19.5	J3(10)	A(2)					-	10		6												From Memory Voltage Reg.
11	-19.5	J3(11)	A(1)						11		14												From Memory Voltage Reg.
12	RESET LAMP DR	A4A1A(3)	A(3)																				To Reset Lamp DS2
13	STOP PBM	A4S2(2)	A(10) B(4)											вв									Tied to Line 27, Set L Stop
14	DISPLAY PBM	A4S4(2)	A(14)											cc									
15	STOP LAMP DR.	A4A1B(13)	B(13)																				To Stop Lamp A4DS2
16	DISPLAY LAMP DR.	A4A1B(18)	B18)															·					To Display Lamp A4DS4
17	RECORD LAMP DR.	A4A1B(20)	3(20)																				To Record Lamp A4DS5
18	RECORD PBM	A4S5(2)	A(16)									47		DD									To LPI Line 200
19	L DISPLAY	A4A1B(19)	B(19)									38											To LPI Line 139
20	L STOP	A4A1B(14)	B(14)									40											To LPI Line 153
21	DISPLAY PBH	A4A1A(21)	A(21)									33											To LPI Line 151
22	RECORD PBH	A4A1A(22)	A(22)									34											To LPI Line 152
23	SET-L DISPLAY	J23(28)	B(8)								-	28											From LPI Line 157
24	L RECORD	A4A1B(21)	B(21)									39			5								To LPI Line 145 & API Line 93
25	SET-L RECORD	J23(29)	B(10)									29											From LPI Line 158
26	STOP PBH	A4A1A(19)	A(19)									35											To LPI Line 146
27	SET- L STOP	J23(30)	3(4)									30											From LPI (156 See Line 13
28	START PBH	Á4A1A(18)	A(18)									31											To LPI Line 143
29	SET-L START	J23(26)	B(2)									26											From LPI Line 154
30	L START	A4A1B(15)	B(15)		•							36											To LPI Line 84

Table 4-2. Wiring Lists (Cont'd)

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PA	RT E 5480A	/B (CONT'I																				
Z. Z.	and the second second	and Strick	Total State	San San San San San San San San San San					/ /s		./3	, /ş	- / s		./				/		/	REMARKS
31	START	A4A1B(12)	1	ı				_														To Start Lamp
32	START PBM	A4S1(2)	A(8)									41		z.								From Ext Source
33	LINE SYNC	AST1								3												To LPI Line 2
34	+16V								10													To Memory Line 8
35	+35 V								2													To Memory Line 9
36	POWER SENSE	AST1							2													To Memory Line 76
37	POWER SENSE	AST1							9													To Memory Line 77
38	CLEAR 1	A4A1A(15)	A(15)																			To Memory Line 13
39	INTER- LACE	58										10										To LPI Line 16: & API Line 62
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PART F (Cont'd)

Table 4-2. Wiring Lists (Cont'd)

PART F — 5 Wiring Diagra	480A/B INPUT/OUTP nm: none	OUT CONNECTORS	
1. MATING (CONNECTORS		
	Instrument Conne	ector Mating Connector	
Reference Designator	Type (HP Part No.	Type (HP Part No.)	
J4-11, 13, 14, 19, 29-35	BNC Female	Standard BNC male	
J15-18	Body: Winchester MRAC 50 S6 (1251-1921) Pin, female, 2-v Winchester 100-1 (1251-1911) Pin, female, 1-v Winchester 100-1 (1251-1909) Mtg. screws (set Winchester J602 (1251-1911)	MRAC 50P8 (1251-1918) vire: Pin, male: 1016S Winchester 100-1022P (1251-1908) vire: Hood: Winchester 1022S 45-50H33/ES69 (1251-1922) t): Shell: Winchester XMRE 50-1000 (1251-1924)	
	·	Mating Cable: (05495-60038)	
J20	Connector: Power 3-pin male (1251-0148)	er, Power cord (8120-0078)	
J36	Connector: fema ribbon, 14-conta Amphenol or Cin type 57-40140 (1251-0143)	ct, ribbon, 14-contact,	
A1J1	Connector: bana female (1251-0463)	na, Connector: banana, male	
2. CONNECT	OR WIRING		
Connector	Signal Name	Signal Description	Connection
J4	SAMPLE INPUT	Frequency: < 20 kHz Pulses, L = 0V or more negative, H = +2V or more positive	J27(15) API line 94
J5	SAMPLE OUTPUT	Sample pulses, 1000 pulses per sweep. $L = \pm 0.4V$ or more negative, $H = \pm 2.5V$ or more positive	J23(23) LPI line 166
J6	NOISE OUTPUT	Train of voltage pulses whose amplitude equals difference between INPUT and AVERAGE. Amplitude is proportional to CRT display of NOISE (0.5V per cm of deflection). Can be gated with Z-AXIS OUTPUT	J27(25) API line 24

Table 4-2. Wiring Lists (Cont'd)

	·		
Connector	Signal Name	Signal Description	Connection
J7	NEG SYNCH OUTPUT	Negative pulse at start of each sweep (before PRE-ANALYSIS DELAY). Level: -12V; Width: >0.5 usec	J27(14) API line 98
J8	POS SYNCH OUTPUT	Positive paise at start of each sweep (before PRE-ANALYSIS DELAY). Level: +12V; Width: >0.5 usec	J27(39) API ling 97
J9	HORIZ DAC OUTPUT	Sweep ramp. 0V to +10V; 0.2% linearity	J26(45) Display line 3
J10	VERT DAC OUTPUT	-4V to +4V, proportional to CRT display)1. 9V per cm deflection); 0.2% linearity	J33 (BNC) Memory line 23
J11	Z AXIS OUTPUT	+5V blanking pulses (can be used to gate NOISE OUTPUT)	A1A1(15) Display line 21
J12	EXTERNAL DATA INPUT		
J12(1-12)	Not used		J27(1-12)
J12(13-24)	Not used		J27(26-37)
J13 (not on 5480A/B with serial prefix 928 or higher)	POINT PLOTTER SEEK	Positive pulse tells Point Plotter to seek a null. Level: +10V; Width: >50 usec	J27(44) API line 101
J14 (not on 5480A/B with serial prefix 928 or higher)	POINT PLOTTER PLOT	Positive pulse from Point Plotter indicates plot is complete. Level: >+2V; Width: 200 nsec	J27(45) API line §2
J15-J18	SYSTEM LOGIC INTERCONNECTION		

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J15-J18 NOTES:

H = +2.5V c	r m	ore	positive	voltage level
$L = \div 0.4V c$	r m	ore	negative	voltsge level

N = negative pulse, 200 nsec wide (H to L to H) P = positive pulse, 200 nsec wide (L to H to L)

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A = voltage step from L to H (positive step)B = voltage step from H to L (negative step)

LE = trigger (clock) on leading edge of pulse TE = trigger (clock) on trailing edge of pulse

J15 and J17 are only on 5480A's with serials prefixed 852- and below.

Table 4-2. Wiring Lists (Cont'd)

Connector	Signal Name	Signal Description	Connection
J15(k)	EXT AR 5	L=TRUE	A3A10(E) MFL line 176
J15(m)	Not used		
J15(n)	CS ATTACHED	L=TRUE	J23(7), J27(19 LPI line 107 API line 79
J15(p)	L STOP	Output, L=TRUE	J23(8) LPI line 153
J15(r)	EXT AR 6	L=TRUE	A3A11(B) MFL line 177
J15(s)	Not used		
J15(t)	Not used		
J15(u)	Not used		
J15(v)	EXT AR 7	L=TRUE	A3A11(C) MFL line 178
J15(w)	Not used		•
J15(x)	Not used		
J15(y)	Not used		
J15(z)	EXT AR 8	L=TRUE	A3A11(D)
715/AAN	ENABLE PAR	L=TRUE	MFL line 179 A3A12(T)
J15(AA)	TO HOLD	L-IRUE	MFL line 192
J15(BB)	Not used		
J15(CC)	Not used	L=TRUE	A3A11(E)
J15(DD)	EXT AR 9	L=TRUE	MFL line 180
J15(EE)	Not used		MI D INIC 100
J15(FF)	GRD		
J15(HH)	GRD		
J16 SYSTEM	A LOGIC INTERCONNECT	TION B	
J16(A)	EN SHIFT LEFT	N, LE	A3A2(C)
J16(B)	EN SHIFT RIGHT	N, LE	MFL line 6 A3A2(D)
			MFL line 8
J16(C)	ENABLE COUNT	N, LE	A3A2(B) MFL line 4
J16(D)	Same as J15(D)		$\sqrt{1}$
J16(E)	EN OPEN LOOP	N, LE	A3A2(F) MFL line 27
J16(F)	Same as J15(F)		
J16(H)	Same as J15(H)		
J16(J)	EN C UP A	N, TE	A3A2(V)
740(77)		· .	MFL line 21
J16(K)	EN C DN A	N, TE	A3A2(W) MFL line 25
J16(L)	EN SHIFT RT PAR	N, LE	A3A12(F)
a ro(m)	DII WILL I IVI I FIII		MFL line 14
J16(M)	EN COUNT PAR	N, LE	A3A12(E) MFL line 14
J16(N)	Same as J15(N)		WE I IIIG I'I
J16(P)	ADVANCE PAR +1	N, TE	A3A9(D)
		·	MFL line 180
4	ADVANCE PAR -1	N, TE	A3A9(E)
J16(R)	IID VIII QUI IIMU I		# # # # # # # # # # # # # # # # # # #
J16(R) J16(S)	EN DAR TO PAR	N, LE	MFL line 188 A3A12(10)

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Connector	Signal Name	Signal Description*	Connection
15 SYSTEM	LOGIC INTERCONNEC	TION A	
15(A)	Not used		
15(B)	Not used	NIE	J2(45)
15(C)	CYCLE	N, LE	Mem line 38
15(D)	EN SHIFT IN	N, LE	A3A2(E)
			MFL line 10
15(E)	SET VERT	L=TRUE	J2(15) Mem line 26
15(F)	CLEAR 1	L=TRUE	A3A2(S)
4.5 ()			MFL line 13
15(H)	SHIFT 1	N, LE	A3A2(R) MFL line 15
15(J)	Not used		= 1
15(K)	Not used		
15(L)	Not used		
15(M)	EXT AR 0	L=TRUE	A3A9(M)
			MFL line 171
15(N)	SHIFT PAR A	N, LE	A3A12(14)
15(P)	EN C UP 20 MHz	L=TRUE	MFL line 156 A3A2(X)
			MFL line 17
15(R)	EN C DN 20 MHz	L=TRUE	A3A2(Y)
15(S)	EXT AR 1	L=TRUE	MFL line 23 A3A9(N)
10(0)	2111 1111 1	2 11102	MFL line 172
15(T)	CLEAR PAR A	N, LE	A3A12(12)
15(U)	SET DAR	L=TRUE	MFL line 214 J2(39)
10(0)	DDI DAL	1-1101	Mem line 126
15 (V)	SET HORIZ	N, LE	J2(42)
15(W)	EXT AR 2	L=TRUE	Mem line 40 A3A10(B)
13(11)	IMI AIL 2	D-11tOB	MFL line 173
15(X)	READ	N, LE	P2(43)
			Mem line 34
15(Y)	WRITE	N, LE	P2(44)
		·	Mem line 36
15(Z) 15(a)	Not used EXT AR 3	L=TRUE	A3A10(C)
τυ (α)	TINE 1311 O	≈- 1110 m	MFL line 174
15(b)	EN SHIFT	L=TRUE	A3A12(H)
15(c)	IN PAR EXT PREP	N, LE	MFL line 146 J23(1)
10(0)	PAL FREF	14, 1111	123(1) LPI line 106
15(d)	EXT AVE	N, LE	J23(2)
(15/6)	EXT AR 4	t -motte	LPI line 105
15(e)	TOT VIL 4	L=TRUE	A3A10(D) MFL line 175
15(f)	Not used		
15 (h)	SET I. DISPLAY	Output, N, LE	J23(3)
15(j)	START ADC	Output, L=TRUE	LPI line 157 J23(6)
-5(3)	~1.mvmv	outputy a- actual	LPI line 73

PART F (Cont'd)

Table 4-2. Wiring Lists (Cont'd)

onnector	Signal Name	Signal Description	Connection
16(T) 16(U)	Same as J15(T) Same as J15(U)		
16(V) 16(W)	Same as J15(V) MOD HOLD	N, TE	J2(16) Men. line 51
16(X)	Same as J15(X)	•	
16(Y) 16(Z)	Same as J15(Y) AR 9	Output; L=TRUE	A3A11(5) MFL line 202
716(a)	PAR 0	Output; L=TRUE	A3A9(K) MFL line 205
716(b)	SHIFT RT PAR C	L=TRUE	A3A11(14) MFL line 209
716(c)	SAAR 0	L=TRUE	J2(28) Mem line 125
T16(d)	SBAR 0	L=TRUE	J2(29) Mem line 124
J16(e)	SBAR 1	L=TRUE	J2(30) Mem line 122
J16(f)	SAAR 1	L=TRUE	J2(31) Mem line 123
J16(h)	AR 0	Output; L=TRUE	A3A9(Y) MFL line 193
J16(j)	AR 1	Output; L=TRUE	A3A9(X) MFL line 194
J16(k)	MAIN SRQ	L=TRUE	J23(43) LPI line 193
J16(m)	SUB SRQ	L=TRUE	J23(44) LPI line 194
J16(n)	MBSL	Output; L=TRUE	J23(46) LPI line 39
J16(p)	OUTPUT MPX	Output; L=TRUE	J23 (12) LPI line 110
J16(r)	L DISPLAY	Output; L=TRUE	J23(11) LPI line 190
J16(s)	CHANNEL COMMAND	L=TRUE	J27(18) API line 40
J16(t) J16(u)	+5 volts SAAR 2	Output L=TRUE	J2(32) Mem line 128
J16(v)	SAAR 3	L=TRUE	J2(33) Mem line 129
J16(w)	ADVANCE PAR +4	L=TRUE	A3A9(H) MFL line 216
J16(x)	ADVANCE PAR +2	L=TRUE	A3A9(F)
J16(y)	INTENSITY MOD	L=TRUE	MFL line 217 A1A1(13) Dien line 16
J16(z)	START PBM	L=TRUE	Disp line 16 A4A1A(8) LD & FF line 32
J16(AA) J16(BB)	Same as J15(AA) STOP PBM	L=TRUE	A4A1A(8) LE & FF line 13
J16(CC)	DISPLAY PBM	L=TRUE	A4A1A(14)
J16(DD)	RECORD PBM	L=TRUE	LD & FF line 14 A4A1A(16) LD & FF line 18

Table 4-2. Wiring Lists (Cont'd)

Connector	Signal Name	Signal Description	Connection
J16(EE)-	CLEAR DISPLAY	L=TRUE	A4A1A(15), A4A1B LD & FF line 1
J17, J18 SYS at indicated p	STEM INTERCONNECTION of either connector.	ON C1, C2. These connectors are wired	in parallel. Signal appear
A	EXT AC 0	L=TRUE	A3A3(7)
В	AC 0	Output, H=TRUE	MFL line 72 A3A3(20)
С	EXT AC 12	L=TRUE	MFL line 97 A3A6(7)
			MFL line 84 A3A6(20)
D	AC 12	Output, H=TRUE	MFL line 109
Е	EXT AC 1	L=TRUE	A3A3(6)
173	AC 0	Output, H=TRUE	MFL line 73 A3A3(X)
F	AC 0	Output, H=TRUE	MFL lite 98
Н	EXT AC 13	L=TRUE	A3A6(6)
_	4.57.40	O. J. A. II MDUD	MFL line 85 A3A6(X)
J	AC 13	Output, H=TRUE	MFL line 110
K	EXT AC 2	L=TRUE	A3A3(5)
			MFL line 74
L	AC 2	Output, H=TRUE	A3A3(21) MFL line 99
M	EXT AC 14	L=TRUE	A3A6(5)
142			MFL line 86
N	AC 14	Output, H=TRUE	A3A6(21) MFL line 111
P	EXT AC 3	L=TRUE	A3A3(4)
F	EXT AC 5	H-11ton	MFL line 75
R	AC 3	Output, H=TRUE	A3A3(Y)
	EXT AC 15	r _mprip	MFL line 100 A3A6(4)
S	EAT AC 15	L=TRUE	MFL line 87
T	AC 15	Output, H=TRUE	A3Å6(Y)
		•	MFL line 112
U	EXT AC 4	L=TRUE	A3A4(7)
**	AC 4	Output, H=TRUE	MFL line 76 A3A4(20)
V	AC 4	Output, H-IROE	MFL line 101
w	EXT AC 16	L=TRUE	A3A7(7)
		O day de 17 mpus	MFL line 88 A3A7(20)
X	AC 16	Output, H=TRUE	MFL line 113
Y	EXT AC 5	L=TRUE	A3A4(6)
			MFL line 77
Z	AC 5	Output, H=TRUE	A3A4(X) MFL line 102
a	EXT AC 17	L=TRUE	A3A7(6)
			MFL line 89
þ	AC 17	Output, H=TRUE	A3A7(X) MFL line 114
		N.	4140 w 4414 A A

PART F (Con	t'd)		
Connector	Signal Name	Signal Description	Connection
C	EXT AC 6	L=TRUE	A3A4(5)
	•		MFL line 78
i	AC 6	Output, H=TRUE	A3A4(21) MFL line 103
9	EXT AC 18	L=TRUE	A3A7(5)
Ī	AC 18	Output, H=TRUE	MFL line 90 A3A7(21)
L	AC 16	Output, H=TROE	MFL line 115
1	EXT AC 7	L=TRUE	A3A4(4)
			MFL line 79
	AC 7	Output, H=TRUE	A3A4(Y) MFL line 104
ς.	EXT AC 19	L=TRUE	A3A7(4)
			MFL line 91
n	AC 19	Output, H=TRUE	A3A7(Y) MFL line 116
1	EXT AC 8	L=TRUE	A3A5(7) MFL line 80
)	AC 8	Output, H=TRUE	A3A5(20)
•	EXT AC 20	t-motte	MFL line 105 A3A8(7)
?	EXT AC 20	L=TRUE	MFL line 92
3	AC 20	Output, L=TRUE	A3A8(20)
			MFL line 117
;	EXT AC 9	L=TRUE	A3A5(6)
1	AC 9	Output, H=TRUE	MFL line 81 A3A5(X)
	514750 A 63 64	- •	MFL line 106
7	EXT AC 21	L=TRUE	A3A8(6) MFL line 92
v	AC 21	Output, H=TRUE	A3A8(X)
			MFL line 118
¢	EXT AC 10	L=TRUE	A3A5(5)
7	AC 10	Output, H=TRUE	MFL line 82 A3A5(21)
		Output, II-Ittob	MFL line 107
Z	EXT AC 22	L=TRUE	A3A8(5)
AA	AC 22	Output, H=TRUE	MFL line 93 A3A8(21)
		- m . m	MFL line 119
ВВ	EXT AC 11	L=TRUE	A3A5(4)
cc	AC 11	Output, H=TRUE	MFL line 83
		Output, n=1ROE	A3A5(Y) MFL line 108
DD	EXT AC 23	L=TRUE	A3A8(4)
EE	AC 23	Output, H=TRUE	MFL line 94 A3A8(Y)
			MFL line 120
FF	GRD		
нн	GRD		
J19	SWEEP VOLTAGE	Sweep ramp, 0V to +1V (0V to any	J27(33)
	OUTPUT	value 10V obtainable by changing	API line 96

CAL SCOPE UT JET CONTROL NPUT t 5480B erial pre- 08A or) C PROBE 3 with serial 1108A or) ANCE OUTPUT TER DAC Output DAC Ground nnection ift Control	AC power input 115 or 230V -5V to +5V, proportional to CRT display. API POSTTION control determines dc offset of this signal Output, +5V = Pen UP; 0V = Pen DOWN (5480A only, see J36(4) for 5480B.) Signal input for MCS FUNCTION. Pulses; amplitude between 2V and 20V; max rep rate 1 MHz; min width 500 nsec; pulse pair resolution 500 nsec; input impedance 3K ohms minimum +5V Power for HP 10525A/B Logic Probe Square of noise signal. Available only when variance option installed in API (5485A Option 01) Same as J9 Ground	J26(49) API line 78 J23(24) LPI line 208 J27(49) API line 91 A5A1(8) Pwr. Sup. line 4 J27(46) API line 88
UT JFT CONTROL NPUT t 5480B erial pre- 08A or) C PROBE 3 with serial 1108A or c) ANCE OUTPUT TER DAC Output DAC Ground nnection	play. API POSITION control determines dc offset of this signal Output, +5V = Pen UP; 0V = Pen DOWN (5480A only, see J36(4) for 5480B.) Signal input for MCS FUNCTION. Pulses; amplitude between 2V and 20V; max rep rate 1 MHz; min width 500 nsec; pulse pair resolution 500 nsec; input impedance 3K ohms minimum +5V Power for HP 10525A/B Logic Probe Square of noise signal. Available only when variance option installed in API (5485A Option 01)	J23(24) LPI line 208 J27(49) API line 91 A5A1(8) Pwr. Sup. line 4 J27(46) API line 88
NPUT t 5480B erial pre- 08A or) C PROBE 3 with serial 1108A or c) ANCE OUTPUT TER DAC Output DAC Ground	(5480Å only, see J36(4) for 5480B.) Signal input for MCS FUNCTION. Pulses; amplitude between 2V and 20V; max rep rate 1 MHz; min width 500 nsec; pulse pair resolution 500 nsec; input impedance 3K ohms minimum +5V Power for HP 10525A/B Logic Probe Square of noise signal. Available only when variance option installed in API (5485A Option 01)	LPI line 208 J27(49) API line 91 A5A1(8) Pwr. Sup. line 4 J27(46) API line 88
t 5480B erial pre- DBA or TER DAC Output DAC Ground arial pre- DAC Ground	Pulses; amplitude between 2V and 20V; max rep rate 1 MHz; min width 500 nsec; pulse pair resolution 500 nsec; input impedance 3K ohms minimum +5V Power for HP 10525A/B Logic Probe Square of noise signal. Available only when variance option installed in API (5485A Option 01) Same as J9	API line 91 A5A1(8) Pwr. Sup. line 4 J27(46) API line 88
3 with serial 1108A or c) ANCE OUTPUT TER DAC Output DAC Ground	Probe Square of noise signal. Available only when variance option installed in API (5485A Option 01) Same as J9	Pwr. Sup. line 4 J27(46) API line 88 J26(45)
TER DAC Output DAC Ground nnection	when variance option installed in API (5485A Option 01) Same as J9	API line 88 J26(45)
DAC Output DAC Ground nnection		
DAC Ground		
nnection	Ground	
ift Control		
	Contact closure to ground during sweep only, in OUTPUT RECORD mode, lowers pen at start of sweep. Max current: 50 mA.	J23(24) LPI line 208
Enable/ le Output	(Record Light Output) In OUTPUT RECORD mode: > +2.4V from TT1 logic during sweep only, for enable; < +0.8V at < 5 mA sinking current for disable of recorder servo.	A4A1B(21) LD&FF line 24
· ·	>+2V, 200 nsec pulse, from point plotter after point is plotted. Input impedance 3K ohms, nominal. External SWEEP TIME setting required for use.	J27(45) API line 92
nnection		
DAC Output	Same as J10	J33 (BNC) Memory line 23
DAC Ground	Ground	
nnection		
	nnection DAC Output DAC Ground	In OUTPUT RECORD mode:>+2.4V from TT1 logic during sweep only, for enable;<+0.8V at <5 mA sinking current for disable of recorder servo. >+2V, 200 nsec pulse, from point plotter after point is plotted. Input impedance 3K ohms, nominal. Exter- nal SWEEP TIME setting required for use. DAC Output Same as J10 DAC Ground Ground Innection

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Model 5480A/B

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Table 4-2. Wiring Lists (Cont'd)

Connector	Signal Name	Signal Description	Connection
J36(12)	No connection		
J36(13)	Seek	5V into 1K ohm load, 50 μ sec pulse, to point plotter to seek a null	J27(44)
J36(14)	Ground	Ground	2
A1J1	CALIBRATOR	Square wave, 1V P-P. Frequency depends on LPI SWEEP TIME setting.	Display line 20

PART G - 5485A TWO CHANNEL INPUT (API)

Wiring Diagram: Figure 4-11

This part of the table lists all connections in the 5485A Two Channel Input (Analog Plug-in) unit.

Note:

Shading at line 79 indicates that the C.S. Attached signal was an input from 5480A rear-panel connector J15 (serials prefixed 852- and below). The 5485A wiring was not changed when the 5480A rear panel was changed (by deleting J15 and J17).

Table 4-2. Wiring Lists (Cont'd)

	7	7	7		7	7	7	7	/o-	7	7	7	7	7	7	7	7	7	7	7		7	/ / /
,	Signer.	State of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state	20 Mag	Tank Jos				ine line			/ ;;/	//		//	!	//		//	//		//		
<u>/</u> :	Way Rep		/\$	~/3		\$ /£	\$ 6	5/5	\$\\\ \\ \\ \\ \	\$ / A		V / 4	المُ الْمُ	*/	\angle	\angle	\angle	\angle	/	/	\$/\{	\$ /\$	REMARK
1	+12V	P28(4)	9.K						<u> </u>				4	_	<u> </u>			-			_	ļ	From Main Frame
2	-12 V	P28(12)	20, X								<u> </u>	<u> </u>	12	ļ	_		ļ	<u> </u>	<u> </u>	_	<u> </u>		
3	+5V	P28(2, 10)					<u> </u>		-				2, 10					<u> </u>					Also on Pin A
4	<u>G</u> RD	P28(1, 9, 8, 16)	17, U 19, W			<u> </u>	17. U		==	<u> </u>			1, 9, 8, 16										From Main Frame
. 5	+19.5V	P28(6)			ļ				11, N			<u> </u>	6										From Memor Regulator
6	-19.5V	P28(14)			В	<u> </u>	<u> </u>		<u> </u>			ļ	14			<u> </u>	<u>L</u>		<u> </u>				
7	INPUT A	A8P1	Ji		_	ļ	<u> </u>					<u> </u>		<u> </u>	<u> </u>								From J1
8	T	A9P1	J2_		<u> </u>		<u> </u>						<u> </u>										From J2
9	"A" POLARITY	S3	5											L									
tò	"B" POLARITY	S10	10																		<u> </u>		
	DC BAL A		16													ļ						Τ	
12	DC BAL B	R5	13																ļ			T	
	A+B/ALT		4															† 	1			1	
	CHẨN "A"		6			10				·						ļ			 		-	\vdash	
	INPUT AMPL	A1(1)	1															\vdash	†	\vdash	\vdash	 	
16	SWAVE	P25(2)		18						2												27.	From LPI
17	START (T0)	P25(15)		3						15												40	From LPI Line 166
	STOPT	P25(44)		4																		19	From LPI
	VERTICAL			11		-					47								<u> </u>		 	18	Line 59 From Mem L
	BASELINE										13.	 							ļ —	-			23 thru J33
		R6 R4		10								 						-		\vdash		\vdash	<u> </u>
		A2(7)		7	 					—	-			_								\vdash	
						_					-	-							 	_		-	To R4 & R6
	NOISE	A2(8)		8											-				 			 	Halance To Rear
	SAMPLED	A2(22)			22		3					25	\vdash						ļ	<u> </u>		\vdash	Panel J6
	SIGNAL DATA	A2(6)		6	-		2					-	- 						 			<u> </u>]]
26		A2(14)		14	_		1												<u> </u>	_	_	<u> </u>	
27	ADC	P25(19)			13		-	13		19	_	<u> </u>			_						6	14	From LPI Line 73
28	TBB1	P25(7)		•	2					7													From LPI Line 33
		P25(8)	_		3					8												33	From LPI Line 34
٠,٠	RESET ADC	P25(20)	- 1		14					20	l	1				į					1	45	From LPI Line 117

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							1	Cable	e 4-	2. 1	Wiri	ng L	ists	(Co	nt'd))							
PAR	r G 5485A (C	(D'TNO																					
/s	S. THEIGH	STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE 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32	COUNT UP	A3(21)									17									36, 10			To MFL Line 189
33		A3(18)			18			R 10		35	11											10	To LPI Line 179
	7 BITS	A3(1)																				11	To LPI Line 180
	9 BITS	A3(6)			6			11		36		-											From Memory
36	SAARI	P27(43)	\vdash		 	S						43			-								Line 123 From Memory
37	SBARI	P27(22)			_	R		<u> </u>			 	22										_	Line 122 From Memory
38	SBARO	P27(42)				15		<u> </u>				42						\dashv			 		Line 124 From Memory
39	SAARO CHANNEL	P27(21)	-			14					-	21	-									 	Line 125 From EXT
40	COMMAND	P27(18)				Т		<u> </u>			┼	18		<u> </u>	F				-				Source From MFL
41	ĀR0	P26(14)				E					14	 											Line 193 From MFL
42	ĀRĪ	P26(39)			ļ	<u>F</u>					39		_								 —	-	Line 194 From EXT
43	HISTO- GRAM	P25(37)				ប	<u> </u>	4	<u> </u>	37	<u> </u>	 			_			_			<u> </u>		Data J12(24)
44	SET IN MPX	P25(11)	ļ			м_			-	11_	<u> </u>	<u> </u>	<u> </u>									36	From LPI Line 111 From LPI
45	SET VERT	P25(10)			ļ	Ļ.				10	-	<u> </u>	ļ	 	'							35	Line 121
46	L DISPLAY	P25(5)			ļ	1		ļ		5		ļ		ļ								30	From LPI Line 139
47	A.OFF	SIAF (1-1/2)			<u>L.</u> .	13						<u> </u>											From "A" Display SW
_48	"A" DATA SIGNAL	SIAF (5-1/2)										<u> </u>											
49	DA	S2C F(2)			<u> </u>	5					<u> </u>		ļ							ļ.,			From "A" Mem Select
50	CA	S2CF(1)				6	<u> </u>				<u> </u>	<u> </u>											
51	BA.	S2BF(2)	_			7						<u> </u>											
1	AA	S2AF(1)				8																	
	EA	S2DF(7)				22																	From "A" Mem Select (O'lap)
54	1	S4AF (1-1/2)				11																	From "B" Display SW
	"B" DATA SIGNAL					18																	
	DB	S5CF(2)				1								,									From "B" Mem Select
	СВ	S5CF(1)				2		-										- ,					
			\vdash		 	3		1					1										
	BB	S5BF(2)	T	 	 	4	 											_					
	AB	S5AF(1)	†					 		<u> </u>		 	†	 	<u> </u>				<u> </u>	 	 		From "B" Mem
60	l EB	S5DF(7)	ļ	1	1	Lz_	<u> </u>	<u> </u>	Ц		٠	—		Ь	<u></u>	٠			<u> </u>	Ь.	٠	١	Select (O'lan)

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Table 4-2. Wiring Lists (Cont'd)

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61		A4(H)			н			ĺ	34												To LPI
٦	DISPLAY	•			21															3	Line 137 To LPI
		A4(21)			-				12											37	Line 162 To Memory
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65	MBARO	A4(C)			C	-				15										-	To Memory Line 130 To Memory
66	MAARO	A4(D)	 	-	n	├		-		16											Line 131
87	OVERLAY	A4(16)	-		16	16															
68	SEG	A4(17)			17	6	<u> </u>			-		_						_			ļ
	A DISP	, A4(P)		_	Р	13												 			
	"A" NOISE SIGNAL	S1AF (7-1/2)				А															From "A" Display SW
	"A" INPUT SIGNAL	S1AF (3-1/2)				В										ļ		<u></u>			
72	"B" NOISE SIGNAL	S4AF (7-1/2)				D										!					From "B" Display SW
	"B" INPUT SIGNAL	S4AF (3-1/2)				E															
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79.		P27(19)	 	15.5	 -	14_	 		 -		19				—	ā			7	 	Source
<u>80</u>	CLOCK TIME HIS-	P25(41)					v		41											16	From LPI Line 43
81	TOGRAM	S8				<u> </u>	3													<u> </u>	<u> </u>
82	FREQ HIS- TOGRAM	S8	-				1	_	<u> </u>	ļ								 		_	:
63	L STOP	P25(40)	_ _				6	<u> </u>	40											15	From LPI Line 153
	ADCFIN ENABLE	A6(22)			<u> </u>		22	<u> </u>	30		 									5	To LPI Line 1
85	COUNT UP A	A6(15)				<u> </u>	15			33							J			<u> </u>	To MFL Line 21
86	FREQ HIST	A6(S)					S		17											42	To LPI Line 1
	TIME HIST	A6(T)					т		18												To LPI Line 1
	VARIANCE	A6(Y)					Y				46										To J32 (Rear) Variance Out
П	HORIZ	P26(44)	 	_			•	10		44,	1.0									\vdash	From Mem Li 42 to Rear
	RESET	F40(44)	 -					10		45											Panel J9 From LPI

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Table 4-2. Wiring Lists (Cont'd)

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	MCS	P27(49)	7		$\overline{}$			1	3	14		49											From Rear J31 MCS In
_		P27(45)							14			45											From Rear Plot
	LRECORD								21			40									39		From D&F. F. Line 24
	EXT	P27(15)				_			18			15											From Rear J4 (Sample In)
		P27(41)							z			41											From Display Line 21
	Z AXIS SWEEP								8			23	\neg										To Rear J19 Sweep V. Output
	VOLTAGE POSSYNC					-	<u>_</u> 		1			39											To Rear J8
97	OUT NEG SYNC	A7(1)					\neg		7			14	_										. To Rear J7
98	MCS	A7(7)							<u>-</u> -	27			7									2	
99	COUNT UP								22	26				\neg								1	To LPI Line 41
100		A7(22)							13			44											To Rear Panel J13
101	SEEK	A7(13)																					
548)A									-								7					
	C.S.	852- and P27(19)	below		15, S		14					19											From EXT Source J15(u)
79	ATTACHEE		<u> </u>		/-				<u> </u>														
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PART H - 5486A/B Table 4-2 (Cont'd)

This part of the table is divided into two sub-parts. Sub-part H1 lists signal connections for the 5486B; sub-part H2 lists signal connections for the 5486A.

The signal list for the 5486B was derived from the list for the 5486A. Signals that are the same for both the A and B models have the same line reference number. Note, however, that there is not necessarily a line-for-line correspondence between the two lists; in some cases, a signal that appears in the 5486B only may be listed where a signal that was only in the 5486A was "deleted". All signals referenced from other lists (other portions of this table) keep the same reference for A and B models. Blank spaces in the B list occur because of signals that were in the A model only, with no replacement signal in the B model.

Table 4-2. Wiring Lists (Cont'd)

ART H1 5486B	CONTROL (LOGIC	PLUC	3 IN) V	Viring 7	Diagr	am: 1	Figure	4-12	,	/-	/-	7	,	, . .	,		,	,		,	/ / /
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John Control	S. Handle								A 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							\\ \disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\din\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\disp\{\din\{\disp\{\disp\{\disp\{\disp\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\din\{\\\\\\\\\\	/ ES	4/2	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	_		REMARK
1 +12V	P21(4)	2, B													4							To R1
2 -12V	P21(12)	3, C													12							To R1
3 +5	P21(2)	1.A										!	-		2							From M. F. Power Suppl
4 GRD	P21(1, 9, 8, 16)	22, 2											_		1, 9 8, 16							
NEG EXT 5 TRIGGER	55AF(4).	18																				
+EXTRIG	S5AF(6)	19, 20					-				Ì				-							
6 LINE INT.	\$5A F(2)																\neg					
7 TRIGGER TRIGGER		17_			\neg									\neg	-							From J1 thr S10 & S5
B INPUT TRIGGER	S5	1				\neg							\neg			"						
9 LEVEL COUNT U		5											\neg						_			From MFL Line 212
10 PAR C	P22(43)	6												12		43						aum ele .
POST ANA	Y	13																				
12 DELAY PLUG-IN SYNC	R2	8												_								
SYNC CONT	P24(14)	14																14	39			Not Used
14 CHAN A	P24(13)	16						!										.13	38			Not Used
15 PAD FIN	A1(15)	15												13								
16 SYNC	A1(21)	21									5			M _						-		
17 PRADX2	SGAF(4)	-	2																			
18 PRÁDX5	S6A F(3)	 -	3																			
19 PRADXI	S6AR(15)	-	4_													<u> </u>			_			
20 PRADX10	S6AR(12)	1-	5	<u> </u>						<u> </u>										_		
21 PRADX10	S6AR(9)	 	6						<u> </u>		ļ								_			
22 PRADX1K	S6AR(6)	1	7														_		<u> </u>			
23 SWTX2	S4A F(2)	<u> </u>	В													_		ļ	_	<u> </u>		
24 SWTX5	54AF(1)	_	<u></u>					_		_												
25 SWTX1	S4AR(15)	<u> </u>	D																			
26 SWTX10	S4AR(12)	<u> </u>	E			L										_			<u></u>	ļ		
27 SWTX100			F	<u> </u>																		
28 SWTX1K	\$4AR(6)		н																			
29 10µsB	A3(16)		т	16						8		ļ										
30 10# sA	A3(15)	1	s	15		Γ_				T"	15	T	l									

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Table 4-2. Wiring Lists (Cont'd)

					····			Tab	le 4	-2.	Wir	ing	List	s (C	ont'	d) 							
'AR'	Г Н1 5486В	(CONT'D)																					-
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31	RESET	A3(17)		υ	17														ĺ			\frown	(
						-		<u> </u>	-		1		1			-			 	\vdash	╁┈	┼	
	CLEAR	A3(14)	╁	R	14		 	9	\vdash	-	1			-			-	-	-	-	-	\vdash	To API
33	TBB1	A2(L)		L	 	 		-		-	 				-	-	 		32_	7	-	-	Line 28 To API
34	TBB2 PRE-	A2(K)		K	-	\vdash			\vdash	-	 	-		-	 	-		-	33	8	┼─	-	Line 29
35	SAMPLE A	A2(V)	 	v	3		├-	\vdash	┼	╁				-			-	-		-	-		
36	SAMPLE B 20 MHZ	A3(6)	├		6		-	-	.	ļ	К	w	<u> </u>	-	-			<u> </u>	-	ļ		 	
37	CLOCK RESET	P22(24)	├	-	11	_	-	\vdash		-	<u> </u>	ļ			_		24	ļ <u>.</u>		-	-	<u> </u>	From MFL Line 19
.3	TB 1	A13(P)	 	ļ	19		 _		-	-		20			Р	_	_	<u> </u>	39	14	<u> </u>		To API Line 90
39	MBSL	A13(J)	 -	<u> </u>	20	<u> </u>	 	ļ	_		-	<u> </u>		ļ	J_		<u> </u>	46	_	<u> </u>	ļ	_	To Ext Source J16(5)
40	RESET TB2	A6(20)			_	<u> </u>	ļ	20	_			<u> </u>	<u> </u>	ļ			ļ		_		<u> </u>	<u> </u>	
41	SAMPLE	P21(1)	<u> </u>		4		<u> </u>	<u> </u>		ļ	<u> </u>	<u> </u>				<u> </u>	ļ		<u> </u>	26_	<u> </u>	<u> </u>	From MPI Line 100
42	ENABLE EXT TB	S4AR(18)	ļ		2	<u> </u>	<u> </u>	<u> </u>	<u> </u>									16	31_	6			From J15 (HI J16(HH) Rear
43	10 MHZ CLOCK	A3(J)			J	<u> </u>				<u> </u>				J					16	41			To API Line 80
44	TBI	A3(L)			L	10																	
45	TB2	A3(M)			м	11																	
46	тв3	A3(N)			N	12																	
47	TB4	A3(P)			Р	13												·					
	TB5	A3(R)		 	R	14				<u> </u>												<u> </u>	
	TB6	A3(S)	ļ		s	15																	
	TB7	A3(T)			т		<u> </u>			 -	<u> </u>							_				 	
	TB7		<u> </u>			16	 											_			1		· · · - - · ·
		A3(U)			<u>u</u>	17	<u> </u>				-	 						-					
ĺ	TB9	A3(V)		\vdash	V_	18	-			 				-		_	\vdash				 	-	
	TB10	A3(W)			W	19	-				 	\vdash	_			—		_	<u> </u>	 	 	 	
	TB11	<u>A3(X)</u>			X	20	-					 -								\vdash	-	<u> </u>	<u> </u>
55	TB12	A3(Y)	 -	ļ	Y	21	 -					 								<u> </u>	-		
56	T0	A4(E)		-	 	E.	5	5	5		ļ	ļ						_		_	 		
57	T2	A4(F)		ļ		F	G	6	ß	<u> </u>	<u> </u>	<u> </u>									<u> </u>	ļ	
58	T4	A4(H)				H	7	7	7	<u> </u>	_									<u> </u>	ļ	_	
59	T12	A4(J)				1_	8	8	8			н							19_	44		_	To API Line 18
60	T14	A4(K)				ĸ	9		9		<u> </u>								<u></u> _				

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Table 4-2. Wiring Lists (Cont'd)

ART	ні 5486В (С	CONT'D)						,	_	, ,	 -		 ,	 ,			, 				,	7	///
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		ļ							1					- 1	8								
61		A4(L)	-			<u> </u>	<u>10 </u>		10						-								
		A4(M)		-			11						1										
63	T28	A4(N)				N	12		12						.								
-	<u>T34</u>	A4(P)				P	13		13													<u> </u>	
65	T36	A4(R)					14	15	14	i	\neg		\neg										
66	T40	A4(5)				S	15	15	15			14											
67.	T50	A4(T)				Т		16	16			_											
68_	J58	A4(U)			 	U	17	17	117					_									
69	T60	A4(V)			-	<u>v</u>	<u> </u>	18	18														
70	T80	A4(W)				w_	19	19	19													 	
71	T86	A4(X)	ļ			×	16	 	20						_					_	-		
72	T90 START	A4(Y)				<u> </u>	21	21_	21		<u> </u>		_										API Line 27 EXT Source
73	ADC	A5(P)		 	 -	<u> </u>	p											6	44	19		1	To MFL
74	TOTALIO	1	 			2		 -	-	-	<u> </u>						15				-	1	To MFL
75	TOTAL 10	S3AF(2)	-	 	-	3		-	╁								16		-	-		1	To MFL
76	TOTAL 10	S3AF(3)	 	ļ	-	4		-}	╂								17				 -	. 	To MFL
_77.	PRESET TOTAL 10	53AF(4)	 		ļ	iı	 	-		-	<u> </u>			-			18			-	-	 -	Line 136 To MFL
78	PRESET TOYAL 10	S3AF(5)			ļ	6	 	 -	 	 -				-		_	19			\vdash	╁	╁	Line 137 To MFL
. 79	PRESET TOTAL 10	S3AF(6)	 	ļ.,	 -	7	ļ		-								20			-	-		To API
80	SWAVE _	S1AF(3)	-	<u> </u>	-	<u> </u>	F,	Р	3	┼-	2					-	-		27	\vdash	+		Line 16
81	DISPLAY	A8(20, X)		-	-	 -	x	x	<u>x</u>	20 <u>. X</u>		-		 		 	 	-	<u> </u>	-	+-	-	
82	SUM	A8(16, T)	ļ	-	-	ļ	Т	Т	т	16, T	-				_	-	╁		-	+	-	+	-
83	AVE	A8(15, 5)	<u> </u>	ļ	-	<u> </u>	s	s	S	15, S	ļ	<u> </u>		 -	ļ		-	-		 	+		-
84		<u> </u>	-	_	_	_	<u> </u>		+	-	<u> </u>	-	 		-	-	-	 	-	-	+	+	
83	LSTARTA	A 10(D)	_	_	\perp	<u> </u>	В	\bot	2	-	-	D_	-	-	u_	-	-	36		+	+	+-	 -
Be	SENS MUI	L S2BR(13)_	ļ]	<u> </u>	1_	4_	1		_	_	ļ	<u> </u>	-		-		-	<u> </u>	-	+	-	
	[AB(21, Y)		_			Y	Y	Y	21.3	n	<u> </u>	s_	15	ļ	╀	-	-	ļ	-	-	_	
ļ	HIST BEGIN	A8(18, V)	-				v	<u> </u>	v	18.3		18	_	_		_	_	_	_		-	\bot	
89														\perp				ļ	_	1	_		
	Start SYNC	A1(12)	12	7	-	1	J					17			1								

							Tab	le 4	-2.	Wir	ing	List	s (C	ont'	d)							
PAR	т ні 5486в	(CONT'D)				 																
	Stowar M.	Strain S. Davids	1 50 St. 15 1.						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	PROPERTY SELF		SHIP TO THE TOP			1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2			7 / 23	T 			REMARKS
10_		S1AF(7)				D		P		D				ĺ.		<u> </u>		Ĺ	[
	MCS	A8(U)				υ	ប	U	17, U					15				26_	1		ļ	
93	HIST END	AB(19, W)				w	w	w	19, W		19											· · · · · · · · · · · · · · · · · · ·
94	P/D	A10(E)				С	R	4	1	12	E			2								
95	ADVPARI	A9(E)				F.				E												
_96	PRESET SHIFT CONT	A5(3)				3						14										
Į.	START- SHIFT	A5(2)				2							ту								Note:	Reset Preset Reached(A12(T1))
98	SET SCALE	A5(L)				L	_						F									
99	CLEAR HOLD	A5(N)				N_			<u> </u>			13										
100	COUNT UP A	A5(M)				M										9						To MFL Line 20
101	ADVANCE PAR 2	A5(R)				R	ļ							U						<u> </u>		
102	SWSUM	S1AF(1)					N_	ļ		3							_	28	3	<u> </u>	<u></u>	Not Used
103	ADCFIN	P24(5)				 	_				В							5	30		<u> </u>	From API Line 84
104	ADCFIN				_		M	_	<u> </u>		c						_			<u> </u>	ļ	
105	EXTAVE	P23(2)						<u> </u>	в								2			ļ		
106	EXTPREP	P23(1)					<u> </u>		С			ļ					1					
107						 					· · · · · · · · · · · · · · · · · · ·		 									
108	ENCT PAR	A6(B)	_				В						ļ			31			_			To MFL Line 143
109	PAR A	A6(F)				 	F.								_	38	_				-	To MFL Line 153 To EXT Source 116(P) & MFL Line 11
110.	ENCLLP OUTPUT - MPX SET IN	A6(D)					D	<u> </u>					M			6	12					II6(P) & MFL Line 11 To API
111	MPX SET	A6(E)				 	E										_	36	_			Line 44
112	PAR A SET SWEET	A6(C)		-			c							В		39		ļ 		-	_	To MFL Line 157
113	NUM INHIBIT -	A6(H)					н	-					<u>. </u>				_		<u> </u>	<u> </u>	-	
	STATE ALLOW- STATE		-				J		M													
							К		11										_		\vdash	
1	RESET	A 13(14)				 	2		12		F	6		14					9			Not Used To API
		A7(N)						N										45	20			Line 30 To Memory
	ENOPLP	A7(L)				\dashv		L								_	4					Line 39 To Memory Line 37
119		A7(D)						Ď.									20					TO MFL
120	CLEAR 1	A7(E)	LI	1	لا	l		E								7			L	l	L	Line 12

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Table 4-2. Wiring Lists (Cont'd)

								Tab!	e 4-	-2.	Wir.	ing I	ists	5 (C	ont'c	1)							
PAR	T H1 5486B ((CONT'D)									,	,		,	,		.,		,	,		,	,
1	Trylog	ans. Solvar	J. Solling St.	A STATE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PAR	ING SHA	THE BENT WAY			2 4 MATERIAL SECTION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PR	18. 18. 18. 18. 18. 18. 18. 18. 18. 18.	As WANT SELEC	10 ST 18 18 50 51.	Alo Anthrope COR			,		//				/	
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121	SET VERT	A7(K)							ĸ		_							5	35	10			APJ Line 45 Mem Line 25
122	SET HORIZ	A7(M)							м									17					To Mem Line 40
123	ENSHIFT RIGHT	A7(J)							t								3						To MFL Line 7
124	ENSHIFT LEFT	A7(H)							H				,				2	<u> </u>			L		To MFL Line 5
125	ENABLE COUNT	A7(F)							F								1	<u> </u>					To MFL Line 3
126	WRITE	A7(C)							С	ļ								19					To Memory Line 35
127	READ	A7(B)							В	_							_	18					To Memory Line 33
128	SETAVE	A9(F)								2	F								<u> </u>				
129	SETSUM	A9(H)								3	н	!						_					
130	SETMCS	A 10(16)								4		16						_					
131	SET HIST BEGIN	A10(12)								5		12						_					
132	SET HIST END	A10(13)	_							6		13											
133	SET DISP	A9(C)								7	Ç.							_	<u> </u>	_			
134	SET- PREPARE	A9(B)								8	В						ļ		<u> </u>	<u> </u>			
135	SETNOP	A9(M)	Ш							9	M												
136	STATE ENABLED	A8(10)								10	J	к											
137	CHAN OK	P24(9)					H		R		10	v							9	34			From API Line 61
13B	PSD2	P22(46)								<u> </u>	9	J				ļ	46		_				From MFL Line 140
139	LDISPLAY	P23(33)								<u></u>	4			к	9			38	30	5			From LD&FF Line 19, to API Line 46
140	SAMPLE	A10(N)									11	N				<u> </u>							
141	PROCESS	A10(10)									6	10						<u> </u>					
142	NON PROCESS	A10(11)									7	11				_							
143	START PBH	P23(31)									20		1		х			31					From LD&FF Line 28
144										_						ļ		_		<u>_</u>			
145	LRECORD	P23(39)									18	Þ			19			39	<u> </u>				From LD&FF Line 24
146	STOP PBH	P23(35)									19						<u> </u>	35			<u> </u>		From LD&FF Line 26
147		S9AF								<u> </u>	s			s						<u> </u>			ļ <u></u>
146	PRESET REACHED	A12(U)					20				т			u									
149		P22(21)									p						21						From MFL Line 139
150	SWHIST & EN20MHZ	\$1A F(5)									13				6				12	37			To MFL Line 18 and API Line 43

Table 4-2. Wiring Lists (Cont'd)

\vdash												5		s (C		-7							7. A-1
PAR	T H1 5486 (C	ONTID)	,_		,	,		, .	,	,	,	,		,			,	, .	,	,			
/3	Salanti (Salanti Alaman)	Start Solver	1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1							1 1 2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Para Series		Sale summer of the							/ *!			
/ ~	DISPLAY	/		<u> </u>		7	7	7	7 45	ÿ ' <u>`</u>	7.5		7 '	7	775	<u>"~</u>	/ ^{&}	/ ^{&}	/ ² '	/ s	/	_	REMARKS
151	PBH RECC ^D D	P23(33)								<u> </u>	16			<u> </u>				33		L	ļ	_	From LD&FF Line 21
152	PBH	P23(34)									17							34					From LD&FF Line 22
153	LSTOP	P23(40)						<u>.</u>			15			_	Ÿ			8, 40	15	40			From LD&FF Line 20 to J1S(P)
154	SET- L START	A9(X)									x			_			<u> </u>	26			<u> </u>	<u> </u>	To LD&FF Line 29
155		_																			<u> </u>		
156	SET - L STOP	A9(W)									w							30	ļ		<u> </u>		To LD&FF Line 27
157	SET - L DISPLAY	A9(U)						<u> </u>			υ						<u> </u>	3, 28					To LD&FF Line 23, and J1S(U)
158	SET - L RECORD	P23(29)									v							29					To LD&FF Line 25
159	FREQ -	P24(42)										4							42	17			From API Line 86
160	TIME - HIST	P24(43)										6							43	18			From API Line 87
161																				1			
162	DISPLAY DEFEAT	P23(10)						10				8						10	37	12			From MF Interlace Sec.
163	PROCESS INHIBIT	A13(N)										M			N								
164	PAR3	A10(U)										ប			17								
165	ADVANCE DAR + 1	A10(R)										R					27						To MFL Line 181
166	START	A10(9)										9							40	15			To API Line 17
167	<u>sci</u>	AJ2(8)											j	8									
168	SC2	A12(9)											к	9							<u> </u>		
169	SC3	A12(10)											<u>L</u>	10									
170	SC4	A12(11)											м	11									
171	SC5	A12(12)											N	12						_			
172	SC6	A11(P)											p	13									
173	SC7	A11(R)											R	14									
174	SC9	All(T)											т	16								į	· <u></u>
175	5C10	A11(U)			ļ								U	17									
176	SC11	A12(18)											v	18									
177	SC12	A12(19)											w	19									
178	SC13	A11(X)											х	20									
179	7 BITS	P24(10)											15						10	35			From API Line 34
180	9 BITS	P24(11)											16						11	,74			From API Line 35

Table 4-2. Wiring Lists (Cont'd)

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PAF	T H1 5486B	(CONT'D)																					
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181	SWEEP NUM 20	S8AF(17)												2				ĺ					
182	SENS MULT 2 ⁰	S2AF(14)		-										В									
183	SWEEP NUM 2 ¹	58AF(16)												3									
184	SENS MULT 2	S2AF(15)												С									
185	SWEEP NUM 2 ²	S8AR(18)												4									
186	SENS MULT 2 ²	S2AR(12)												D									
187	SWEEP NUM 2 ³	S8BF(18)												5									
188	SENS MULT 2 ³	S2BF(15)												E									
189	SWEEP NUM 2 ⁴	S8BR(20)			<u> </u>			<u> </u>						7									
190	L DISPLAY	A12(L)	ļ			<u> </u>								ւ				11					To EXT source J16(r)
191	SHIFT I	A12(P)		ļ	_									р			8						To MFL Line 14
192	CLACI9 SETAC 18	A12(W)		ļ	ļ			<u> </u>						w			14						To MFL Line 215
193	MAIN SRQ	P23(43)	ļ		<u> </u>					ļ	L_				7			43				!	From EXT source J16(k)
194	SUB SRQ	P23(44)		ļ											8			44					From EXT source J16(m)
195																	ļ					_	
196	AC19	P22(22)		<u> </u>		<u> </u>		ļ						x		<u> </u>	22						From MFL Line 96
197	ENABLE PAR TO HOLD	P22(41)				 	-								3		41_						From MFL Line 150
198	PSDi	P22(45)		<u> </u>						_					D_		45						From MFL Line 141
199	RECORD			ļ. <u>-</u>	 						<u> </u>						ļ	_					
	PBM	P23(47)													ν			47				!:	From LD&FF Line 18
	MDSSL NOT	A13(11)	 .		 										Н		ļ	45		_			Fo memory Line 50
202	ASSIGNED SET	······																		_		/	NOT ASSIGNED
203	DAR B	A13(5)	- 	<u> </u>				_			_				5	<u></u>	48			_		1	To MFL Line 158
	DAR TO HOLD ADVANCE	A13(C)													С		40			_		;1	TO MFL Line 151
205	PAR + 1 ADVANCE	A13(T)													T		32			\dashv		—ļ¹	To MFL Line 185
206	PAR - 1 CLEAR	A13(16)							_						16		35	_				- -	To MFL Line 187
207	DAR A PEN	A13(20)													20		26			·		- 11	Fo MFL Line 154 Fo rear
	LIFTER	A13(W)											\dashv		w			24	_	_			To rear 130 (pen lift control)
209	SW HIST GO DN 20 MH2 DAR CONEN	A13(F)	<u> </u>			-				_	-		_		F	_	47 37,	13		\dashv		17	Fo MFL Line 190 Fo MCM Line 49 From MFL
210	CONEN	P22(37)									L						12					Įį	From MFL Line 191 to 1FL Line 22

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Table 4-2. Wiring Lists (Cont'd)

_								Tab	1e 4	-2.	Wii	ring	List	s (C	ont'	d)							
PAR	T H1 5486B	(CONT'D)									_,											_	
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	GD UP 20	l .	厂	1	7	7 -	7	7	1		7	7-	7	"	"	7	36.		/ *	/ 	7	/	From MFL line 189 to MFL line
	MHz DAR LINE SYNC	P22(36)	 			-		-	<u> </u>	<u> </u>	-	 	 	-		-	10	ļ	\vdash	_	┝	-	From pwr supply to S5AF(3-42)
	CAL ZERO	P23(15)			1			11			\vdash	 				3	_	15	-	\vdash	-	-	S5AF(3-42)
214	RESET HORIZ	A6(12)						12					<u> </u>	 				21		 		 	
215	T94	A4(B)				В					5		<u> </u>	\vdash	к	1		-		 		╁┈╴	
216	SAMP OUT	A19(L)										L						23					To rear panel J5
217	INH SHFT 1	A11(Y)											Y	н									
218	PEN LIFT RETURN	A13(21)													21			22					<u> </u>
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Table 4-2. Wiring Lists (Cont'd)

							T	able	4-2	2. V	Virir	ıg Li	ISES	(Co	nt'a)								
PAR	T 112 5486A	CONTROL	(LOGI	C PLU	G-1N)	Wirin	g Diag	gram:	Figu	re 4-1	2							,	,		,	,	, , , ,
/	St. Dr. W.	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t			, akse 'a''	K Sold /						\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	All Marries Com			Par Alis Marins							
		/ ^{kg}	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		Y~~~	<u> </u>				<u>/_</u> ,	/4° iò	/~*	/_/		/\ ³ .5	₹	_{\hat{k}}^{\hat{k}}		\\ e^{\infty}	<u> </u>	<u>/</u> ,	_	REMARKS
L	+12V	P21(4)	2, B													4							To R1
2	-12V	P21(12)	3, C										Ì			12_							To R1
		P21(2)	1, A		18				\exists			T	_		_	2				[From MF power supply
	GRD	(1, 9 P21 8, 16)			\rightrightarrows	_		\dashv			\dashv				-	1, 9 8, 16							
	NEG EXT	S5AF(4)	18								一						_						
		S5AF(6) S5AF(2)	19, 20									\neg											
	INT TRIGGER	S5AF(8)	17		\dashv				_		\neg												
	TRIGGER INPUT	S5	4									\neg			\neg								From J1 thru S10 & S5
—	TRIGGER LEVEL	RI	5						_		\neg												
_	COUNT	P22(43)	6												12		43						From MFL Line 212
	PAD OFF	S7	13																				
	POST ANAI DELAY	R2	8																				
	PLUG-IN SYNC CON	P24(14)	14																14	39			Not Used
14	CHAN A	P24(13)	16																13	38			Not Used
15	PAD FIN	A1(15)	15												3								
16	SYNC	A1(21)	21									s			М								
17	PRADX2	56AF(4)		2																			
18	PRADX5	S6AF(3)		3																			
19	PRADXI	S6AR(15)		4																			
20	PRADX10	56AR(12)		5																			
21	PRADX100			6																			
22	PRADXIK	S6AR(6)		7																			
23	SWTX2	S4AF(2)		В																			
24	SWTX5	S4AF(1)		С																			
25	SWTX1	£4AR(15)		D																			
26	SWTX10	S4AR(12)		E																			
27	SWTX100	S4AR(9)		F																			
28	SWTXIK	S4AR(6)		н																L			
29	10µsB	A3(16)		Т	16						8												
30	10µsA	A3(15)		S	15							15											

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Table 4-2. Wiring Lists (Cont'd)

	RT H2 5486A	7	7		7	7	7	7	7	7	7	7	7	7	7	7	7	_	7	7	7	7	/ / /
/47	Signature State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of	Sur Control			A BENEFICIAL SERVICES					1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	./		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			2	. / 			/ ;/\$			
_			_		$\overline{}$	7	<u> </u>	7 1	7 1	<u>' </u>	/	/ <u>*</u> *	<u>"</u>	_	" "	<u>" </u>	/ ``	/ ~	/ ~	/ 	\leftarrow	_	REMARK
31	RESET	A3(17)	-	U	17	-		-			+	├				-	-				 		
32	CLEAR	A3(14)		R	14	_		-	-		╁┈	 	<u> </u>	<u> </u>	-		1	-		-	<u> </u>		То АРІ
33	TBBI	AC(L)	\vdash	L	-	-			-	-	 	-		 	-	-	 	 	32	7			Line 28 To API
34	TBB2 PRE-	A2(K)	-	K	-		-	<u> </u>		-	\vdash	-		-	-	-			33	8	<u> </u>		Line 29
35	SAMPLE A		 	\ <u>\</u>	3	<u> </u>			┢	-	-		_	 	_	-	├	 					
36	SAMPLE B	A3(6)	ļ	 	6	<u> </u>	 			ļ	-	w		<u> </u>		-		_			-		From MEI
37	CLOCK	P22(24)	ļ	 	11	<u> </u>	ļ	-		<u> </u>	-	├				<u> </u>	24			_			From MFL Line 19
38	TB 1	A13(P)	_	 	19		 		-		<u> </u>	20	<u> </u>	ļ	p		<u> </u>	<u> </u>	39	14		<u> </u>	To API Line 90
39	MBSL	A13(J)		ļ	20	<u> </u>	ļ		-	<u> </u>	<u> </u>	ļ	_	_	J	ļ	ļ	46				ļ	To EXT Source J16(K
40	RESET TB 2	A6(20)	ļ	_	21			20			<u> </u>					<u> </u>				<u> </u>			
41	SAMPLE	P24(1)	<u></u>		4	<u></u> .	<u> </u>				L.	<u> </u>				ļ			1	26			From API Line 100
42	ENABLE EXT TB	S4AR(18)			2_			_		<u> </u>					_			16	31	6			From J15(HI J16(HH) rear
43	10MHZ CLOCK	A3(J)	_		7	ļ	<u> </u>							J	<u> </u>				16	41			To API Line 80
44	тві	A3(L)		<u> </u>	L	10		<u> </u>															•
45	TB2	(M)EA			M	11																	
46	твз	A3(N)			N	12																	
47	тв4	A3(P)			P	13			<u> </u>					<u> </u>									
48	TB5	A3(R)	 		R	14														_			
49	TB6	A3(S)			s	15							_										
_	ТВ7	A3(T)		-	т	16			_	 -													
	TB8	A3(U)			บ	17			<u> </u>														
	TB9	A3(V)			v	18	_		-	 	 	 											
	TB10	A3(W)			w	19										<u> </u>							
	TBII	A3(X)			x	20	-			 													
											ļ					ļ <u>.</u>		_					
	TB12	A3(Y)		\vdash	Y	21				<u>L</u>									-			<u>. </u>	
56		A4(E)			5	E	5	5	5	<u> </u>													
57	T2	A4(F)		_		F	6	6	6	-								·					
58	T4	A4(H)			-	н	7	7	7						s								m- a m-
59	T12	A4(J)				J	8	8	8			н							19	44			To API Line 18
10	T14	A4(K)				к	9		9	L													

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Table 4-2. Wiring Lists (Cont'd)

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PAI	RT H2 5486A	(CONT'D)					.,		,			,	,	,	<u>, </u>	,	,	,	,	,		7	, , , , , , . , . , . , . , . , . , . ,
	J. Trades	and Strange	T SUMMENT						1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	10 / 37 / 38 / 38 / 38 / 38 / 38 / 38 / 38	410 Maria 1981			1				//	//		
3	/ §	/ 👸	_	_	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	7/5/5	<i>نة ال</i> غ	135	./ [%] :	10.5		\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	18.	1	7.5	<u>Z</u> ,	<u>_</u> _{4\cdots}	/ 4 [®]	<u> </u>	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<u> </u>	Д,	REMARKS
61	T16	A4(L)				L	10		10		i				18								
62	T26	A4(M)				м	11		11														
63	T28	(N) FA				N	12		12														
64	T34	A4(P)				P	13	13	13						4								
65	T36	A4(R)				н	14	14	14										_				
66	T40	A4(S)				s	15	15	15			14									-		
67	T50	A4(T)				Т	16	16	16									<u> </u>					
68	T58	A4(U)				บ	17	17	17														
69	T60	A4(V)		-,		v	18	18	18														
70	T80	A4(W)				W	19	19	19	<u> </u>								<u> </u>					
71	T86	A4(X)				х	20		20													ļ	
72	T90	A4(Y)				Y	21	21	21		L				к								
73	START ADC	A5(P)					p											6	44	19			API Line 27 Ext Source
74	PRESET TOTAL 10 ²	S3AF(1)				2											15						To MFL Line 133
75	PRESET TOTAL 10 ³	S3AF(2)				3											16						To MFL Line 134
76	PRESET TOTAL 10 ⁴	S3AF(3)				4											17						To MFL Line 135
77	PRESET TOTAL 10 ⁵	S3AF(4)				5											18						To MFL Line 136
78	PRESET TOTAL 10 ⁶	S3AF(5)				6											10	 	<u> </u>				To MFL Line 137
79	PRESET TOTAL 10 ⁷	S3AF(6)				7											20						To MFL Line 138
80	SWAVE	S1AF(3)					E	P	3		2								27				To API Line 16
81	DISPLAY	A8(20, X)			С		х	x	x	20, X													
82	SUM	A8(16, T)	 				т	т	т	16, T										_			
83	AVE	AB(15, S)					5	s	s	15, S								_					
84	L START	P23(36)				ļ				ļ	<u> </u>	2	ļ				ļ	36	<u> </u>				From LD&FF Line 30
85	L START A					ļ	В		2			D			iı						<u></u> _		
86	SENS MULT AUTO	S2BR(13)		_			4																
87	PREPARE	AB(21, Y)					Y	Y	Y	21, Y	R		s	15				<u> </u>				<u> </u>	_,
88	HIST BEGIN	A8(18, V)					v	v	v	18, V		18							_		<u> </u>		
89	AMP - HIST	P24(41)	ļ		<u> </u>	_	н		<u> </u>			5		_		_			41	16			
90	MCS COUNT UP	P24(2)					J						<u> </u>						2	27	ľ		From API Line 99

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and the second control of the second

Table 4-2. Wiring Lists (Cont'd)

PA	RT H2 5486/	(CONT'D)																					
	a Tungg	**************************************	/ · · ·		//				2 4 4 18 18 18 18 18 18 18 18 18 18 18 18 18		THE WASTER	# E E E E E E E E E	Sale Maria Sales					/ \$\/\displaystar	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	/ - -	 	/ /	REMARKS
91	SWMCS	S1AF(7)					D					7			L								
92	MCS	A8(U)					U	υ	U	17, U					15								
93	HIST END	A8(19, W)				<u> </u>	w	w	w	19, W	N	19											
94	P/D	A10(E)					С	R			12	E			2								
95	ADV PAR1	A9(E)					F				E												
96	PRESET SHIFT CON	A5(3)	<u> </u>			<u> </u>	3						14										
97	START- SHIFT	Á5(2)		<u> </u>			2							т. ч									Note: Reset P set reached [A12(T1)]
98	SET SCALE NUMBER	A5(L)				<u> </u>	ւ					<u> </u>		F									
99	CLEAR- HOLD	A5(N)					N						13										
00	COUNT UP A	A5(M)					M										9						To MFL Line 20
101	ADVANCE PAR 2	A5(R)					R								U								
102	SWSUM	SIAF(I)						N			3								28	3			Not used
103	ADCFIN	P24(5)		<u></u>								В							5	30			From API Line 84
104	ADCFIN	A10(C)						M				С									<u> </u>		
105	EXT AVE	P23(2)						10		В								2					
	EXT PREP	P23(1)						11		С								ι	<u> </u>				-
107	CS ATTACHED	P23(7)						4										7					From J1500
108	ENCLLP& ENCT PAR	A6(B)						В									5,31						To MFL Lines 11, 143
109	CLEAR- PAR A	AG(F)						F									38						To MFL Line 153
10		A6(D)						D						M				12					To Ext Source J16(戸)
111	SET IN MPX	A6(E)						E											36				To API Line 44
112 l	PAR A	A13(E) A6(C)						С							E		39						To MFL Line 157
13	SET SWEEP NUM	A6(II)						11	i]			G									
14	INHIBIT- STATE							j		М		-1											
15	ALLOW- STATE							К		11				7]							
10		A13(14)						2		12		F			14				34	9			Not used
17	RESET ADC	A7(N)							N]		45	20			To API Line 30
18	S'VT MSB	Å7(L)							Ĺ]]					4					To memory Line 39
19	CYCLE	A7(D)							D									20					To memory Line 37
20	CLEAR I	Á7(E)							Е	\neg							7						To MFL Line 12

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PART H2 5486A (CONT'D)

A10(U)

A12(10)

169 SC3

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Table 4-2. Wiring Lists (Cont'd)

		· ,						Tabl	e 4-	-2.	Wir	ing l	_ists	5 (C	ontio	l)								
P.	ART H2 5486.	A (CONT'D))					,					,	,	, -	,	,	.,		,	.,	, -		
/\$	Solut. A.	Signal Company	Sulley, /			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				2 4 7 44 17 18 18 18 18 18 18 18 18 18 18 18 18 18	As Was Select	80, San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San Se San S	14 10 Maria 100 100 100 100 100 100 100 100 100 10			, Standard				/ /ş	//	/	REMARKS	
						<u>у</u> 				y 12\	7	7 1	/ _		7 %	7							API Line 45	
121	SET VERT	A7(K)	-	-			-		K									5	35_	10			Mem Line 25 To Mem Line 40	
122	ENSHIFT	A7(M)	\vdash			-			M								3	17		-			To MFL Line 7	
	HIGHT	A7(J)	 				-		J								2						To MFL Line 5	
124	ENABLE COUNT	A7(H) A7(F)			-		-		H		<u> </u>	-					1						To MFL Line 3	
126	WRITE	A7(C)							c								•	19					To Memory Line 35	
<u> </u>	READ	A7(B)	 		-				В									18					To Memory Line 33	
128	SET AVE	A9(F)								2	F							ا ا				<u> </u>		
	SET SUM	A9(H)		_						3	н						\Box					\Box		
	SET MCS	A10(16)								4		16												
131	SET-	A10(12)								5		12												Ĥ.
132	SET- HIST END	A10(13)								6		13												
133	SET DISP	A9(C)								7	С													
134	SET- PREPARE	A9(B)		Ĺ						В	В													
135	SET NOP	A9(M)								9	М													
136	STATE ENABLED	A8(10)		<u> </u>	<u> </u>	<u> </u>				10	j	к												
137	CHAN OK	P24(9)									10	<u> </u>							9	34			From API Line 61	
138	PSD 2	P22(46)			В		<u> </u>				9						46						From MFL Line 140	
139	L DISPLAY	P23(33)	ļ		E						4			к	9			38	30	5			From LD&FF Line 19, to API Line 46	
140	SAMPLE	A10(N)									11	N											· .	
141	PROCESS	A10(10)					ļ				6	10										_		
142	NON PROCESS	A10(11)									7	11_												
143	START PBH	P23(31)			_				<u> </u>		20	<u> </u>	ļ		x			31				ļ	From LD&FF Line 28	
144	PBH CONTINUE	P23(32)							_		21							32				<u> </u>		
145	L RECORE	P23(39)			<u> </u>	ļ					18	Þ			19			39				ļ	From LD&FF Line 24	
146	STOP PBH	P23(35)			ļ						19	<u> </u>						35		<u> </u>			From LD&FF Line 26	
147	NORMAL PRESET	S9ÅF	_		ļ						5	_									_	<u></u>		,
148	REACHED	Á12(V)		<u> </u>							т			v										1, (
149	PRESET TOTAL	P22(21)							_		Þ		ļ				21					_	From MFL Line 139	İ
150	SW HIST & EN 20MHZ	S1ÅF(5)					<u> </u>			L	13				6				12	37	L		To MFL Line 18 and API Line 43	

Table 4-2. Wiring Lists (Cont'd)

REMARKS DISPLAY 151 PBH From LD&FF Line 21 P23(33) RECORD 152 PBH From LD&FF Line 22 From LD&FF Line 20 to J15(P L 153 STOP P23(40) 154 ESTART To LD&FF Line 29 A9(X)

SET- L 155 CONTINUE A9(Y) 156 SET-L STOP To LD&FF Line 27 A9(W) 157 SET-LDISPLAY A9(U) To LD&FF Line 23, and J15(U) To LD&FF Line 25 P24(42)

From API Line 87 P24(43) 161 CONTINUE P23(37) Not used DISPLAY 162 DEFEAT From API Line 62 P24(37) PROCESS 163 INHIBIT A13(N) 164 RAR 3

ADVANCE 165 DAR + 1 To MFL Line 181 A10(R) To API Line 17 & rear panel J5 166 START 23 40 A10(9) 167 SC1 A12(8) 168 SC2 A12(9)

170 SC4 A12(11) 171 SC5 A12(12) 172 SC6 A11(P) 173 SC7 A11(R) 174 SC9 A11(T)

175 SC10 A11(U) 176 SC11 A12(18) 177 SC12 A12(19)

178 SC13 A11(X) From API Line 34 179 7 BITS P24(10) From API Line 35 180 9 BITS P24(11)

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Table 4-2. Wiring Lists (Cont'd)

							1	able	4-2	۷. ۱	WIFI	ng L	1515	(00	nt'a)								
PA	RT H2 5486A	(CONT'D)									,		,	,	, ,							7	77
1	The Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract of the Contract o	Strings S. S. S. S. S. S. S. S. S. S. S. S. S.												Tail S		13 May 21	/r ² /	/ ~~/	/	//	//	/	REMARKS
	SWEEP NUM 20								\neg					2									
181	G. T. 10	S8AF(17)	\dashv		\neg		_	_						В									
	MULT 20 SWEEP	S2AF(14)							\neg	'		_		3									
183	NUM 2 ¹ SENS	S8AF(16)							_					С				_					
184	MULT 2 ¹ SWEEP NUM 2 ²	S2AF(15)				\dashv	\dashv	\dashv				_		4									
185	CENE	S8AR(18)			-				-					D		\dashv	_	$\neg \dagger$					
186	MULT 2 ²	S2AR(12)														-+		\neg	7			-	
187	SWEEP NUM 2 ³ SENS	S8BF(18)						1						5				_	-	_ -	_	_	
188	MULT 23	S2BF(15)							_					E		\dashv		-			-	\dashv	
189	SWEEP NUM 2 ⁴	S8BR(20)												7		\dashv		_		\dashv	-		To Ext Source
190	LDISPLAY	A12(L)												L				11		-		_	J16(F) To MFL
191	SHIFT 1	A12(P)												P			8			-	\dashv	-	Line 14 To MFL
192	CLACI9 SETACI8	A12(W)											<u> </u>	w		_	14		-				Line 215 From Ext
193	MAIN SRQ	P23(43)													7	_	_	43			-		Source J16(k) From Ext
194	SUB SRQ	P23(44)													8_			44	_	_	_		Source J16(而)
195	SAWTOOT TRIANGL	H/ P23(9)								<u></u> .	ļ				10			9			_	4	From Rear 56
196	AC19	P22(22)			İ									x			22	_			_	_	From MFL Line 96
197	ENABLE PAR TO	P22(41)													3		41						From MFL Line 150
198		P22(45)													D		45						From MFL Line 141
199	COUNT O	-													R		44						From MFL Line 199
	RECORD	P23(47)	1		 		-								v			47					From LD&FF Line 18
200			1	1				T			1				11			45					To Memory Line 50
201	Not	A13(11)	-	_		 	\vdash	 		-	1												Not Assigned
202	Assigned SET		+	 -	 	\vdash	-				+	 	1	1-			40						To MFL Line 158
203		A13(5)	-	\vdash	-	-	-	\vdash	-	\vdash	-	1			5		48						To MFL Line 151
204	HOLD	NI3(C)	-	-	-	┼	┢	-	\vdash	 	+-	\vdash	+-	-	C		40 32						To MFL Line 185
20		A13(T)	1-	-	+	-		┼─	\vdash	+	+-	+	+	-	Т							<u> </u>	To MFL
20	PAR - 1		 	-	╁—	-	-	-	\vdash	-	+	┼─	╁-	+	16		35		_	-			To MFL
20		A13(20)	_	 		-	-	-	\vdash	-	-	-	\vdash	-	20		26	 	-			 	To Rear BNC J30 (pen lift contro)
20		A13(W)	<u> </u>	_	1	-	_		_	1_	╁-	-	 	+	w		-	24		_			contro)
20		A13(F)	\perp		_	-	_	<u> </u>	_	ļ	\bot	-	-	\perp	F	_	47	13	<u> </u>	-		-	To Mem Line 49
21	GD DN 2 MHZ DA CONEN	R P22(37)															37, 1	4	ļ	1.		L	From MFL Line 191 to MFL Line 22

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Table 4-2. Wiring Lists (Cont'd)

								Tab	le 4	-2.	Wi	ring	List	s (C	ont'	d)							
PA	RT H2 5486	A (CONT'D)	'		_				7			_			_					,			
	a lawer	Street, Harrison	/ Day		//	//	//	//	//	//	//	//	//		//		/ 	/ }	//	//	//	//	REMARKS
	GD UP 20	1		$\overline{}$		$\overline{}$	$\overline{}$	_		\leftarrow	$\overline{}$	_	\leftarrow	\leftarrow	/	\leftarrow		/	\leftarrow	/	\leftarrow	_	From MFL Line 189 to MFL Line 16
1	MHZ PAR LINE SYNC		╁	\vdash	\vdash	\vdash	\vdash	\vdash	┼	┼	+	 	-	-	╁	<u> </u>	36, 10		-			-	From pwr supp to S5AF(3-42)
?	SYNC	P21(3)	\vdash		-	\vdash		-	\vdash	╁	 	<u> </u>	-	<u> </u>	ļ	3		-	-	-	ļ	\vdash	to S5AF(3-42)
			-	-	-		-	-	├	-	-		ļ	<u> </u>	<u> </u>	<u> </u>	ļ	ļ			-		
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PART I — 5487A FOUR CHANNEL INPUT Table 4-2 (Cont'd) (ANALOG PLUG-IN)

Wiring Diagram: Figure 4-13

This part of the table lists all connections in the 5487A FOUR CHANNEL INPUT (Analog Plug-In) unit.

This list is based on the list for the 5485A (Part C of this table). All signals that are common to both units, and referenced from other lists, have the same line reference number in both lists. Note, however, that there is not necessarily a line-for-line correspondence between the two lists; in some cases, a signal that appears only in the 5487A may be listed where a different signal in the 5485A was listed, because the 5485A signal is not in the 5487A; this explanation also applies to blank spaces in the table, a signal was deleted with no other signal to replace it.

Table 4-2. Wiring Lists (Cont'd)

								Tabl	le 4-	-2.	Wir	ing :	List	s (C	ont'	d)							
PAF	T I 5487A	(CONT'D)																					·
/.	Solver, M.	and Through	Balley Jan		10 44 15 15 15 15 15 15 15		1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2		2 (50 mg/s) 24 mg/s	Navara V	5.7 / £	V / 4	\$ / 6		/	<i> </i>				//	//	7 	REMARKS
1		P28(4)	9, K						-		_			4	_							1	From Main
		P28(12)	20, X						-					12	\vdash	 			-	 	 	\vdash	Frame From Main
3		P28(2, 10)		12, N					-			-	-	2, 10						 - 	-	1	Also on Pin A1
4	GRD	P28(1, 9, 8, 16)		17, U 19, W			-	19.W	19,W					1, 9, 8, 16								<u> </u>	from Main Frame
5	+19.5V	P28(6)							11					6								-	From Memory Regulator
6	-19.5 V	P28(14)			8, J									14									From Memory Regulator
_ 3	INPUT A	A8	11, M														Ī						From J1 thru A8
8	INPUT B	A9	14, R																				From J2 thru A9
9	INPUT C	A10	17, U																				
_ 10	INPUT D	A11	22, Z							ļ													
11	DI DISP MULT	A4(13)				.13	v_				<u> </u>			<u> </u> _						<u> </u>			
12	D2 DISP MULT	¥4(14)				14	<u></u>			<u> </u>		_	_	<u> </u>								<u> </u>	
13	II INPUT	A4(15)	<u>B</u>			15					_		_			_				<u> </u>			
_14	12 INPUT MULT	A4(16)	7			16						ļ						_		ļ	ļ	<u> </u>	
15	INPUT AMPLOUT	A1(1)	1	1		1					_							ļ					
_16	SWAVE	P25(2)		18							2		L			<u> </u>		_			ļ	27	From LPI Line 80
17	START (TO)	P25(15)		3						· · · · · · ·	15		_	<u> </u>								40	From LPI Line 166
<u>18</u>	STOP (T12)	P25(44)		4, D							44		_									19	From LPI Line 59
19	VERTICAL DAC BASELINE	.P26(47)		.11, M								47_	_			<u> </u>					_	 	From Mem Line 23 thru 233
20	ADJ	R1		13												_							
21	DCBAL	R2		10, L							ļ		_			<u> </u>	_			ļ			
	+REF	A2(7, H)		7, N						_										-			To R4 & R6
	•REF NOISE	A2(8, J)		8, J													_				-	_	Balance To Rear
	SIGNAL SAMPLED	A2(22, Z)		22	22, Z		В		\dashv				25										Panel J6
	SIGNAL DATA	A2(6)	\dashv	6	-	H	A					<u> </u>						<u> </u>			-	-	
	SIGNAL START	A2(14)		14		\vdash	C	\dashv													ļ	-	From LPI
	ADC	P25(19)			13, P	\vdash		13			19					-					6	44	Line 73 From LPI
	TBBI	P25(7)		_	2, B		-				1										_	32	Line 33 From LPI
	TBB2	P25(8)		\neg	3, C						8							-				33_	Line 34 From LPI
311	ADC	P25(20)			14	أسسنا			لمنين		20		L			نــــا	نـــــــا					45	Line 117

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							,	Tabl	e 4-	2.	Wir	ing I	ists	(Co	nt'd	i)							
PAR	ΓΙ5487A (C	ONT'D)																· · · ·	,	,	.,		
/4	John L.	Salvi.	Sung.		/	\$ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	 		Seichteine		\$ /4				/ /					1	//		REMARKS
31	RAMP FIN	A3(16)			16			16															
32	COUNT DN ENABLE	A3(21)			21_			21			42	42								13, 12		<u>. </u>	MFL 191 LPI 210
	COUNT UP ENABLE	A3(18)			18			R_			17												To MFL Line 189
34	7 BITS	A3(1, A)			1, A			10		35	_											10	To LPI Line 179
35	9 BITS	A3(6, F)		-	6, F			11		36												11	To LPI Line 180
36	36 SAAR1 P27(43) S 43 From Memory Line 123 37 SBAR1 P27(22) V 22 From Mem Line 122															Line 123							
. 37	37 SBARI P27(22) V 22 From Mem Line 122 From Mem Line 122 From Mem Line 124															Line_122							
38	SAAR0 P27(21) V 22 Line 122																						
39		P27(21)				Z					-	21											Line 125 From EXT
40	CHANNEL	P27(18)				F					_	18			8								Source From MFL
41	ARO	P26(14)			_	1					14							_					Line 193 From MFL
42	ARI HISTO-	P26(39)				2		<u> </u>		_	39	ļ				_	_						Line 194 From EXT
43	GRAM SET IN	P25(37)						4		37							····					_	Data J12(24) From LPI
	MPX SET DISP	P25(11)				22			-	11								_				36	Line 111 From LPI
	MULT	P25(10)		-		21				10				-								35	Line 121
46	"A"					_		_															
47	"B"	S4 S5				4					-												
48	ON/OFF "C" ON/OFF		_			5																<u> </u>	
	"D" ON/OFF	57.				6																	
	DISP SW DATA	S3A F(9)				A																	
	DISP SW NOI3E	S3AF(10)					E																
53	DISP SW INPUT	S3A7(11)					D																
54								 		<u> </u>													
_55			_						<u> </u>		_	_										_	
56								_				_		_	_	_							
57			_		_			<u> </u>	_							<u> </u>	_					<u> </u>	
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Table 4-2. Wiring Lists (Cont'd)

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i		A4(11)		<u> </u>	ļ	11	ļ	<u> </u>	ļ	34	_	<u> </u>					<u> </u>		ļ			9	To LPI Line 137
	DISPLAY DEFEAT	A4(B)	<u> </u>	<u> </u>	<u> </u>	В			_	12		ļ						<u> </u>	<u> </u>	<u> </u>	<u> </u>	37	To LPI Line 162
65	MAAR1	GND							<u> </u>	40			WIRE	D_TO	GND								To Memory Line 133
64	MBARI	GND	<u></u>	<u></u>			<u></u>	<u> </u>		41			WIRE	D.TO	GND								To Memory
65	MBARO	GND		ĺ							15												
66	MAARO	GND									16												
67			Ţ	Γ																	1		
68						_	_	-		<u> </u>			 										
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69			- -	-	 	 			 -		-						 		-	\vdash		 	<u> </u>
\neg	"A" GAIN		-	<u> </u>	<u> </u>		J		├─	├		 							<u> </u>			-	
71	POSITION	R4		-	-		L_	<u> </u>									—						
72	"B" GAIN	A9R10		 			R			ļ	ļ											<u> </u>	
73	POSITION	115	ļ		<u> </u>	<u> </u>	<u>s</u>		ļ		<u> </u>	<u> </u>					ļ				ļ	ļ	
74	"Ç" GAIN	A10810	ļ <u>.</u>	ļ <u>.</u>	<u> </u>	ļ	2	ļ	<u> </u>	_	<u> </u>	<u> </u>					_					ļ	····
75	"C" POSITION	RG		<u> </u>	<u> </u>	_		<u> </u>	<u> </u>	1													
76	"D" GAIN	Alirio	<u></u> .	<u> </u>		ļ L.	м	<u> </u>				<u> </u>							<u> </u>				<u> </u>
77	"D" POSITION	R7			ĺ		P	ĺ															
	VERT DE- FLECTION					-	21				49										<u> </u>		To Disp Sect Vert Scope O
- 1	C.S. AT- TACHED	P27(19)			 	ļ	z		_	<u> </u>	17-	19									7	-	From EXT Source
	10 MHZ CLOCK	P25(41)	†··· -	-	 		-	 v	 	41	ļ	<u> </u>					 				 	16	From LPI Line 42
╗	TIME HIS-							3		<u> </u>	Τ-											<u></u>	2 15
	FREQHIS-			 -	 					 	\vdash										 		····
	TOGRAM		 -	 - -	 	-		1_		 	\vdash						ļ					\vdash	From LPI
83	L STOP	P25(40)	 			-	 	6		40		-	\vdash		-						ļ <u>.</u>	15	Line 153 To LP1
-84	ADC FIN ENABLE COUNT	A6(22)	-	-	 	 		22	_	30_	—	_	-							<u> </u>	_	5	Line 103 To MFL
851	UP.A.	A6(15)	├		<u> </u>	-	 	.15		_	33	<u> </u>	\vdash	-				1			ļ	_	Line 21
86	FREQ	A6(S)	-		<u> </u>			s		17									<u> </u>	_		42	To LPI Line 159
87	TIME HIST	A6(T)	<u> </u>				ļ	τ_	<u> </u>	18											ļ	43	To LPI Line 160
88	VARIANCE OUTPUT	A6(Y)	<u> </u>		L			Y			<u></u>	46											To J52(Rear) Variance Out
	HORIZ DAC	P26(44)			L	L			1Ò		44									[From Mem 1 42 to Rear Panel J9
7	RESET	,,	Ι		Γ_	Γ					<u> </u>	l								l	l	1	From LPI

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					_			Tabl	e 4-	2.	Wir	ing I	Lists	(C	ont'd	l)							
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/:	Signal.	su kan kan kan kan kan kan kan kan kan kan			//	//	//	//	/	A MARINA SA	;/ ;/	1	//	//	//	//					/	/ 3/\$	REMARKS
91	MCS INPUT	P27(49)							/			49_											From Rear J31 MCS In
	PLOT	P27(45)	 				<u> </u>		14			45											From Rear J14 Plot
93	L RECORD	P27(40)							21, Y			40									39		From L. DR Line 24
94	EXT. SAMPLE	P27(15)							18			15											From Rear J4(Sample In)
95	Z AXIS	P27(41)							z			41_											From Display Line 21
96	SWEEP VOLTAGE	A7(8)	ļ						B			23			L.		_						To Rear J19 Sweep V Output
_97	POS SYNC OUT	A7(1)	<u> </u>	<u> </u>					<u>. </u>			39					 						To Rear J8
98	NEG SYNC	A7(7)	.	<u> </u>					7			14											To Rear J7
29	MCS COUNT UP	A7(4)	ļ				_	_	4	27_					ļ							2	
100	SAMPLE	A7(22)		 	ļ				22	26										_		1	Ta LPI Line 41
_101	SEEK _	A7(13)		 		 		_	13_		<u> </u>	44			ļ								To Rear Panel J13
			ļ	<u> </u>				_	_	ļ										_		_	
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PART J - 5488A AVERAGE/CORRELATION INPUT (ANALOG PLUG-IN) Table 4-2 (Cont'd)

Wiring Diagram: Figure 4-14

This part of the table lists all connections in the 5487A AVERAGE/CORRELATION INPUT (Analog Plug-In) unit.

This list is based on the list for the 5485A (Part C of this table). All signals that are common to both units, and referenced from other lists, have the same line reference number in both lists. Note, however, that there is not necessarily a line-for-line correspondence between the two lists; in some cases, a signal that appears in the 5488A may be listed where a different signal was listed for the 5485A, because the 5485A signal is not in the 5488A; this explanation also applies to blank spaces in the table, a signal was deleted with no other signal to the table, a signal was deleted with no other signal to replace it.

In most cases, this list also applies directly to the ${\tt H01-5485A.}$

Table 4-2. Wiring Lists (Cont'd)

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PAF	TJ 5488A	(CONT'D)									,.	,		,		-, -	,	,	,	,	,	,	,,
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\\ \tag{\frac{1}{3}}					\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	5 4:/5 5 7 7	\$ 4:/ \$	\$ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	\$ 9/2 \$/2		\$ \\ \$	N A	?/å					\angle	_	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	<u> </u>	<u> </u>	REMARKS
1	+12V	P28(4)	9, K								-				4								From Main Frame
2	-12V	P28(12)	20, X						-		20, X				12								From Main Frame
3		P28(2, 10)	12, N								-				2, 10								Also on Pin A1(14) Thru 1005
4		(1,9	17. U	2, 14 17, 21	19, W	17, U 19, W	17, U 19, W	19.W	17, U 19, W	17, U 19, W	19, W				1,9 8,16								From Main Frame
		P28(6)			Ė										5								From Main Frame
6	-19.5V	P28(14)					8								14								From J1 Thru A8
7	INPUT	A10	14, R	\Box																			From J2 Thru A9
	INPUT B	A11	18. V						Γ														
	CORRE-	57	5, E			2, B			ļ				 										
		A1(15,S)	15, S																				To S1, 2, 4, 5, 7, 8
	SAMPLE INTERVAL		1, A_																				
	PRODUCT				18	8,1																	
13						,,,	<u> </u>			····													
_	CHAN	16(10)	6, F		 			10	一												-		
	INPUT AMPL OUTPUT		22. 2				_																
		A1. (22Z)	22. Z	22		18. V																	From LPI
	SWAVE START (T0)	P25(2) P25(15)	2, B		<u> </u>	3,C				\vdash		15											Line 80 From LPI Line 106
	STOP		,,,,,	_			_	\vdash										_				i	From LPl
	(T12) VERTICAL	P25(44)		 	_	4.D			-		\vdash	44	<u> </u>										Line 59 From Mem
	BASELINE	P26(47)	-			11,M 15,S			-				47_	 									Line 23 Thru 33
		R1 R2				7,11				-													
			\vdash		-	1,11	ļ	 -														-	
******	· *** *** · · · ·	A4(10, L)	\vdash	\vdash	_	\vdash	-			-	\vdash	—	\vdash	_	\vdash		_		Front				To R4 & R6 To R6A+B
	-REF NOISE EIGNAL	A4(5, E)	╁	 		-			_		 	_		25	 -			To	Front	Panel	Cunli	_	Balance To Rear
	SAMPLED	A4(22, Z)	 			22, Z	22	 					 	25					-		-	\vdash	Panel J6
	BIGNAL DATA BIGNAL	A4(6, F)	T		-	6, F	 	 	-			_	-	-						-	<u> </u>		
	STÄRT ADC	P25, (19)	Γ				13			13		19		Γ					 		6	44	From LPI Line 73
		P25(7)				1	2		T			7									<u> </u>	_	From LPI Line 33
	T9B2	P25(8)	T				,					, A			\vdash								From LPI Line 34
	RESET	P25(20)					14					20		-	T								From LPI Line 117

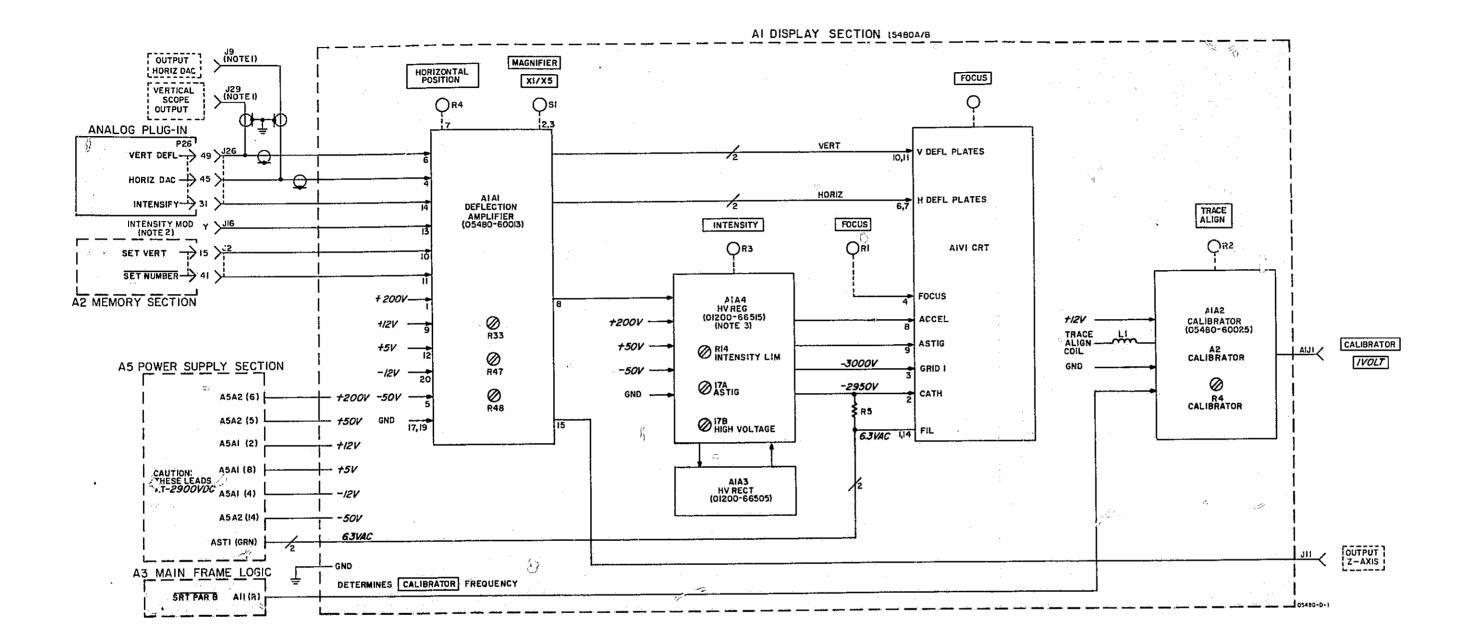
Table 4-2. Wiring Lists (Cont'd)

							7	Table	e 4-	2. \	Wiri	ng L	ists	(Co	nt'd	1)						
PAI	RT J 5488A	(CONT'D)																				
/\$	Solution A.	SH COS THE SE	20 Mg / 12 V		\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		4.5 (4.4.5) (2.5) (4.4.5) (4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5) (4.4.5		1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		18 CO CO CO CO CO CO CO CO CO CO CO CO CO	Par Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Parish Paris						/ / / / / / / / / / / / / / / / / / /	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	1 2 2 2	/ /s;	REMARKS
31	RAMP FIN	A5(16)					16			16												
32	COUNT DN ENABLE	A5(21)					21			21			42						37, 12			MFL 191 LIVI 210
	COUNT UP	A5(18)					18			R			17						36, 10			To MFL Line 189
		A5(1)					1			10		35									10	To LPI Line 179
35	9 BITS	A5(6)					6			11		36										To LPI Line 180
26	SAARI	P27(43)						s						43								From Mem Line 123
		P27(22)						R						22								From klens Line 122
38	SBARO	P27(42)						15						42								From Mem Line 124
39	SAARO	P27(21)						14						21								From Mem Line 125
40	CHANNEL COMMAND	127(18)						т						18				ន៍				From Ext Source
41	ARO	P26(14)						E					14									From MFL Line 193
42		P26(39)]			F					39									From MFL Line 194
43	HISTO- GRAM	P25(37)						U		4		37										From Ext Data J12(24)
	SET IN MPX	P25(11)						1				11										From LPI Line 111
45	SET VERT	P25(10)					L.,	L_				10				<u> </u>					35	From LPI Line 121
46	L DISPLAY	125(5)						· 				5										From LPI Line 139
		51AF(1 ¹ 2)						13								<u></u>				_		From "A" Display SW
48	A DATA SIGNAL	51AF(5 ^{1 2})						v								ļ						From "A" Display SW
49	DA	52CF(2)						5														From "A" Mem Select
50	CA	52CF(1)						6														From "A" Meni Select
51	ВА	52BF(2)					ļ	7				 		ļ								From "A" Mem Select
52	AA	52AF(1)						a							 					_		From "A" Mem Select
53	EA .	S2DF(7)						22														From "A" Mem Select (O'Lap)
54	Int nama	54AF(1 ^{1,2})	<u> </u>			_	<u> </u>	11	_													From "B" Display SW From "B"
55	B" DATA	54A F (5 ^{1/2})						18				ļ:					<u> </u>			_		Display SW
56	ов	55CF(2)						1											 			From "B" Mem Select From B"
57	СВ	55CF(1)		·			<u> </u>	2						 	ļ							From B" Mem Select From "B"
58	вв	S5BF(2)						3			_			<u> </u>		ļ						From "B" Mem Select From "B"
59	AB	55A F(1)					<u> </u>	4			_	<u></u>		ļ	ļ							Mem Select
60	EB	55DF(7)						z														From "B" Mem Select (O'Lap)

								Tab	le 4	-2.	Wir	ing :	List	s (C	ont'	d)							
P/	RT J 5488A	(כטידיס)																					
/:	a de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de l	and Straight	To the second		24 25 SA SA SA SA SA SA SA SA SA SA SA SA SA		4: (44:00) 4: (44:00)			, 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20 m) 00 (20	A WEARAGE				//	/	/ ! !		/	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	/ / !	REMARKS
61	CHAN	A6(H)	\cap					н				34			_							9	To LPI Line 137
62	DISP	A6(21)	 					21				12										37	To LPI Line 162
63	MAARI	(A)8A						A					40										To Memory Line 133
64	MBARI	A6(B)	_					В					41				_						To Memory Line 132
65	MBARO	AG(C)						<u>c</u>		_	<u> </u>		15	_	_	_							To Memory Line 130
66	MAARO	A6(D)		<u> </u>				D_			-		16				_	<u> </u>	_	_		ļ	To Memory Line 131
67	OVERLAY	A6(16)				—		16	16			 	ļ			ļ	_	<u> </u>				_	
- 68	SEG	A6(17)						17	6	_	-		<u> </u>		 	<u> </u>		_					
	A DISP	A6(P) S1AF(7 ^{1 '2})			-			Р	13	-	_	<u> </u>	 	_	-			-					From "A"
	" 1 " 1 N D I I T	T							A B			_		 						-	-	-	Display SW From "A" Display SW
	"B" NOISE	S4AF(7 ^{1 2})	1						D D	_						_							From "B" Display SW
73	"B" EDIT								E														From "B" Display SW
74	"A" VERNIER	A10R16					w 6 maa		H														
75	"A" POSITION	R5							1.					ļ									
76	"B" VERNIER	A11R10							<u>J</u>				 		<u> </u>			_		_	_	_	
77	"B" POSITION	R6							M	<u> </u>	<u> </u>											_	To Disp Sect &
78	VERT DEFL C.S.	A7(18)					*****		18				49			 		<u> </u>	_	_			Vert Scope Out From Ext
	ATTACHEI 10 MHZ						15,S		14_	ļ	<u> </u>			19			ñ			_	7		Source From LPI
	TIME HIS-	P25(41)	 						\vdash	<u>v</u>	-	41		<u> </u>	<u> </u>	_	<u> </u>					16	Line 43
	FREQ HIS-	58								3	 					<u> </u>					-	 	
	L STOP	P25(40)							 	6		40										15	From LPI Line 153
84	ADC FIN	AB(22)								22		30		<u> </u>		-						5	To LPI Line 103
85	ENABLE COUNT UPA	AB(15)								15			33					J					To MFL Line 21
	FREQ HIST	AB(S)	<u> </u>							s		17										42	To LPI Line 159
87	TIME HIST	A8(T)							ļ	т		18			:							43	To LPI Line 160
88		A8(Y)	<u> </u>					<u> </u>		Y		<u> </u>		46									To J32 (Rear) Variance Cul From Mem Line
89	HORIZ DAC RESET	P26(44)									10		44										42 to Rear Panel J9
90	TBI	P25(14)									2	14							L		<u> </u>	39	From LPI Line 38

Table 4-2. Wiring Lists (Cont'd).

P	ART J 5488A	(CONT'D)	,			_	,	,			~		 									
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91	MCS INPUT	P27(49)									3		49									From Rear J31 MCS in
92	PLOT	P27(45)							:		14		45									From Rear J14 Plot
93	L RECORD	P27(40)									21		40							39		From L. DR Line 24
94	EXT SAMPLE	P27(15)									18		15									From Rear J4(Sample In)
95	Z AXIS	P27(41)			<u> </u>						z		41									From Display Line 21
96	SWEEP VOLTAGE	A9(8)	L.								8		 23						L_			To Rear J19 Sweep V. Output
97	POS SYNC OUT	A9(1)		<u></u>	_		<u> </u>				1		39									To Rear J8
98	NEG SYNC	A9(7)		<u> </u>	L.				_		7		 14									To Rear J7
99	MCS COUNT UP	A9(4)		ļ			L.	<u>L</u> .	 		4_	27									2	
100	SAMPLE	A9(22)	_		<u> </u>		<u> </u>			<u> </u>	22	26									1	To LPI Line 41
101	SEEK	A9(13)	<u> </u>	<u> </u>				<u> </u>		<u> </u>	13		 44		<u> </u>							To Rear Panel J13
102	BIT NO.1	A2(4, D)		4.D_	2, 4.	ļ <u>.</u>		ļ	ļ		_	ļ <u>.</u>	 					_				· · · · · · · · · · · · · · · · · · ·
103	BIT NO.2	A2(15, S)	ļ	15,S	1,3		 	<u> </u>			_				ļ							
104	BIT NO.3	A2(16, T)		16, T	5, 16		<u></u>	 	-		ļ		 									
105	DIT NO. 4	A2(13, P)		13. P	6, 13				<u> </u>	<u> </u>	<u> </u>				<u> </u>		<u> </u>					
106	START	A1(8,J)			!		 -	 -	ļ	 			 					ļ				Not Used
107	NO. 1	A1(4, D)		ļ	 			 		<u> </u>			 		_			<u> </u>				Not Used
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NOTES

- I. J9 AND J29 CAN BE USED AS INPUTS TO DISPLAY SECTION WHEN PLUG-INS ARE REMOVED.

 2. CAN BE USED AS INTENSITY MODULATION INPUT AT ANY TIME.

 3. AIA4 WAS (01200-66506) IN OLDER INSTRUMENTS, THE CURRENT BOARD IS A DIRECT REPLACEMENT FOR THE OLDER ONE.

Figure 4-7 5480A/B (Display Section A1) Wiring List: Table 4-2, Part B 4-149

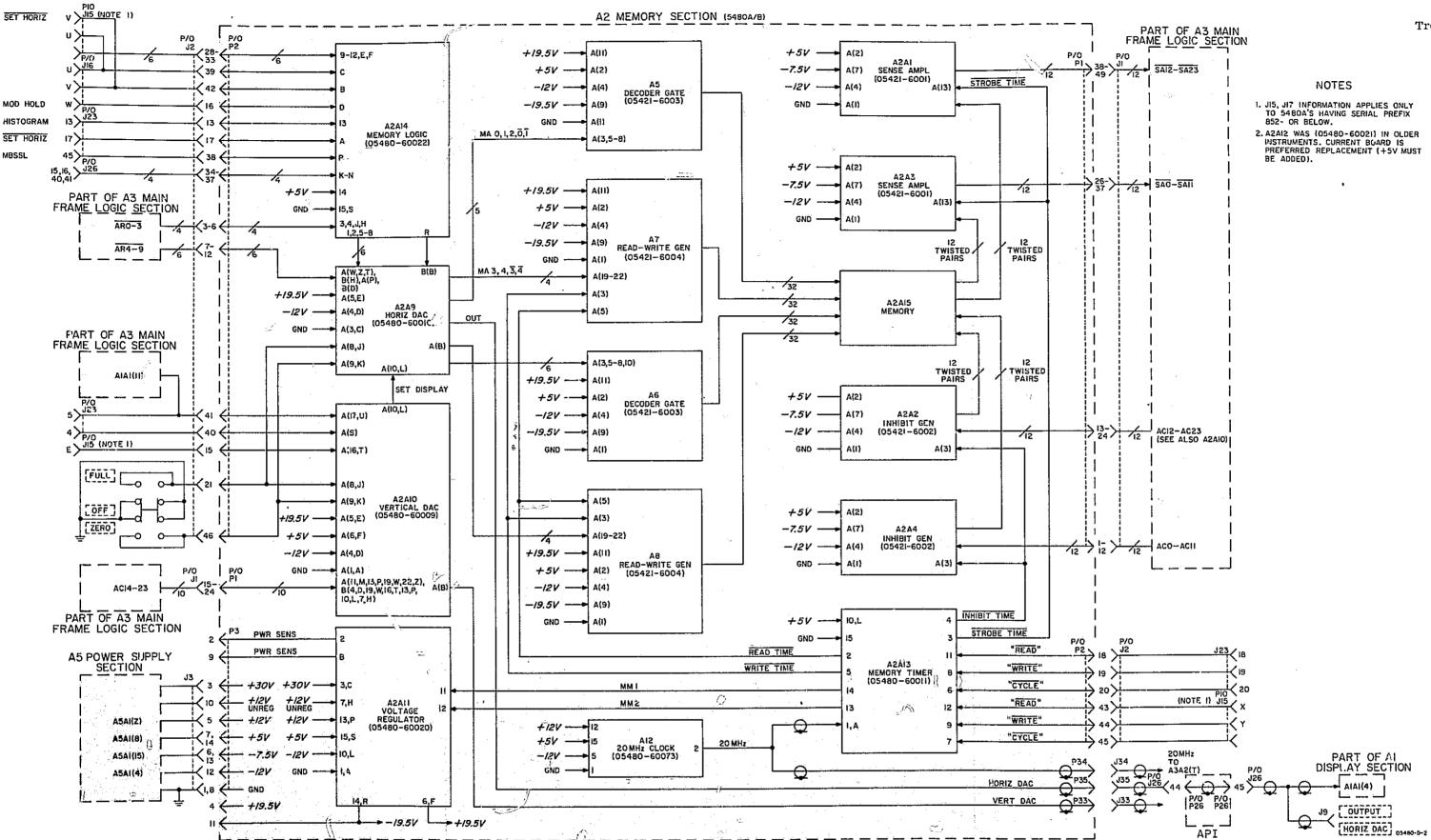


Figure 4-8
5480A/B (Memory Section A2)
Wiring List: Table 4-2, Part C
4-151