

Crossover Plugging Chart

Crossover Connectors ()

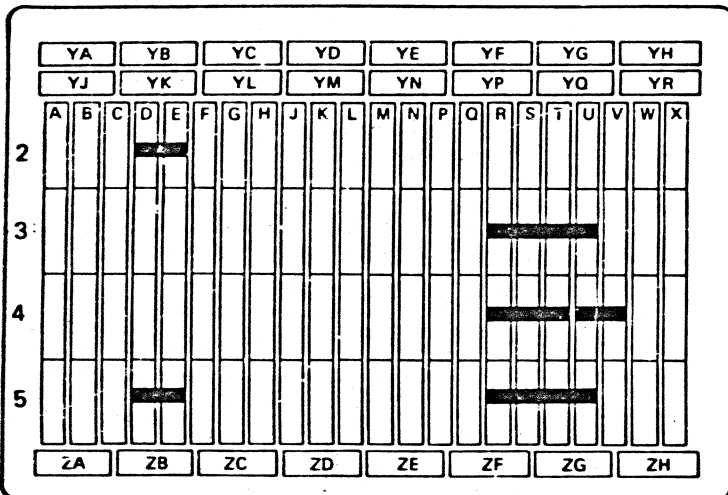
This page emphasizes the positioning of the crossover connectors. These connectors are wired 1 to 1, thus are interchangeable with the exception of two connectors in board A2, see Note 1.

Notes:

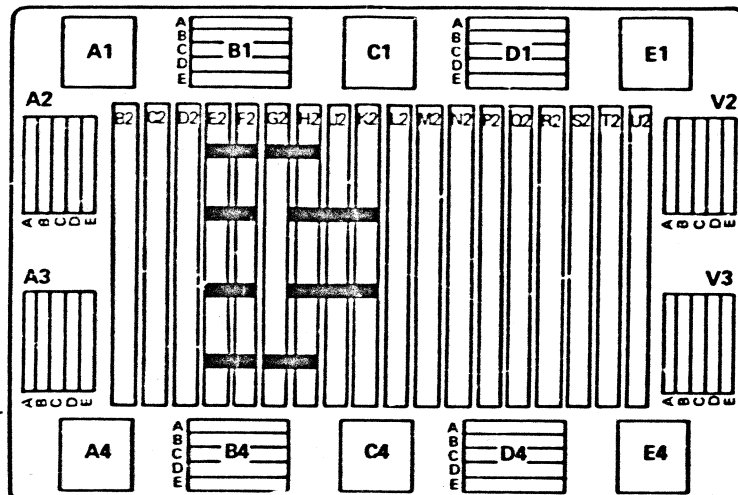
1. These two connectors are not wired 1 to 1 and therefore are not interchangeable. For more details refer to 'Power Manual', Section REF.
2. These card plug positions supply a special voltage on a signal pin. Any other cards than the specified one, plugged into these positions can be destroyed.
3. Two-position crossover if MPX without CA installed.
4. Three-position crossover if MPX with CA installed.

Gate 01A

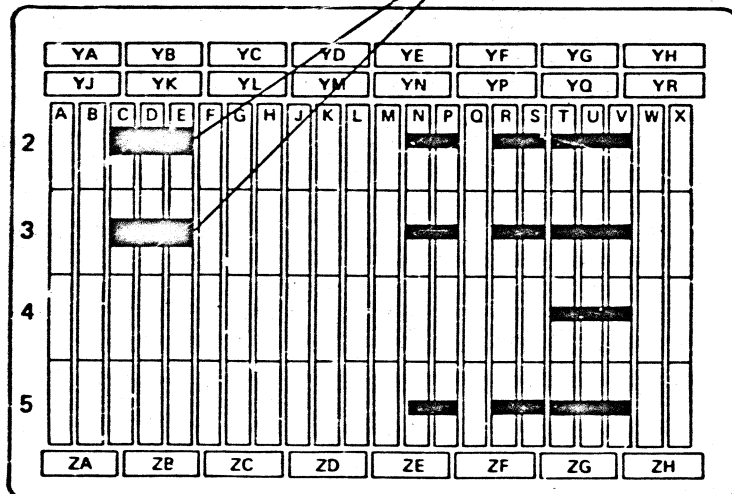
Board A1



Board B1

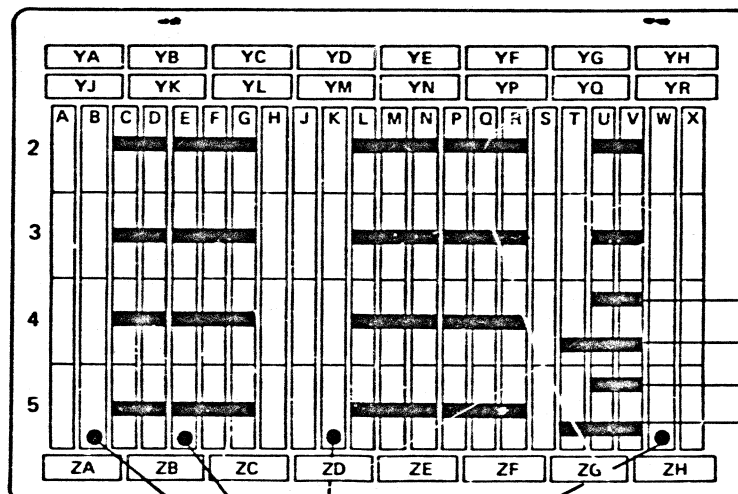


Board A2



Note 1

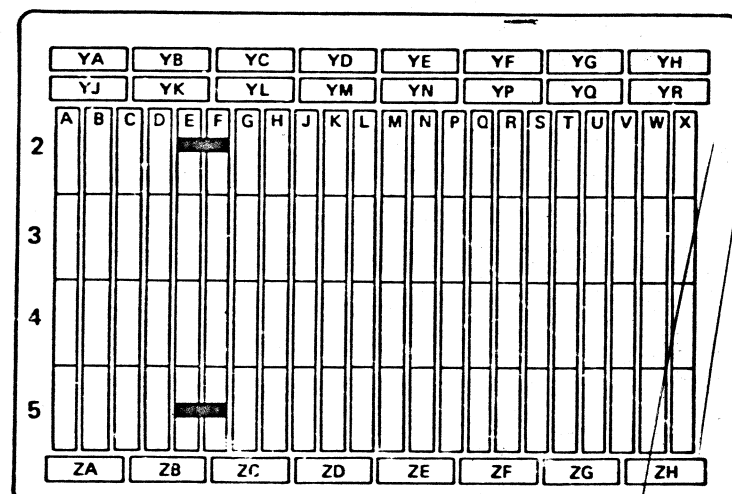
Board B2



FTA 2
FTA 3
MPX/CA

Attention see Note 2

Board C2



Note 4

Note 3

DATE
27 Mar 80

EC No
366284

HOW TO READ PLUGLISTS, CARD WHERE-USED LIST PA013, AND CARD REFERENCE LIST PA010.

- THE PAGE NUMBER OF THE PLUGLIST IDENTIFIES THE CORRESPONDING BOARD ①
- THE PHYSICAL LOCATION ② MAY BE YOUR ENTRY POINT, IN CASE THE MAP ASKS YOU, TO SWAP OR TO REPLACE A CARD.
- THE PARTNUMBER HISTORY ③ SHOWS YOU ALL FUNCTIONAL LEVELS OF A CARD/BOARD.
- THE PARTNUMBER IN THE TOPLINE ④ REPRESENTS THE LOWEST FUNCTIONAL LEVEL INSTALLED VIA REA ⑤.
- THE LINE ⑥ REPRESENTS THE INTERMEDIATE FUNCTIONAL LEVEL, INSTALLED VIA REA ⑤ OR EC ⑦.
- THE LINE ⑧ REPRESENTS THE HIGHEST FUNCTIONAL LEVEL, INSTALLED VIA EC ⑦

A2-BOARD
===== PLUG LIST ***** ① PAGE PA210 ==

PHYS. LOCAT.	ID	FEAT. BM	FEATURE TITLE	NAME	PN ③	REA ⑤	MACHINE/CABLE/TO POS. EC ⑦
1AA2N2	SFXX	8481037	DISKETTE I/O LOGIC	CARD	15555555 44444444	64201111	36611111 <==
1AA2R2	SFXX	8481008	M/SSS GROUP	CARD	11111111 55555555 C 44444444 P	64202222 64201111	36611111 <==
1AA2S2	SFYV	8481008	M/SSS GROUP	CARD ⑮	22222222 77777777 C	64203333 64202222	36611111 <==

HIGHEST FUNCTIONAL LEVEL =
LOWEST FUNCTIONAL LEVEL =

⑫
NOTE : PARTS INSTALLED IN SYSTEM MAY NOT BE ON LATEST PN LEVEL AS SHOWN ON PLUG LIST.
CHARACTER BEHIND PN: S = SUBSTITUTION, C = CONCURRENCE, P = PRE REQUISITE, R = RESTRICTION (COMBINATIONS POSSIBLE) SEE PAGE PA010

- THE CARD IDENTIFIER ⑨ CAN BE USED AS SEARCH ARGUMENT FOR THE CARD WHERE-USED LIST PA013 ⑩ TO FIND FURTHER LOCATIONS, (PROVIDED THE RESPECTIVE FEATURE BM IS INSTALLED) WHERE THE SAME CARD ID IS PLUGGED, IN CASE THE MAP ASKS YOU TO SWAP CARDS.

⑩ CARD WHERE USED LIST

PAGE PA013

ID	PHYS. LOCAT.	FEATURE-BM.
SFXX	1AA2N2	8481037
	1AA2R2	8481008/308

- IN GENERAL: A FAILING CARD SHOULD ONLY BE REPLACED BY, OR SWAPPED WITH THE SAME PARTNUMBER. IMPORTANT: NEVER REPLACE A FAILING CARD BY A LOWER FUNCTIONAL LEVEL CARD, EXCEPT FUNCTIONAL EQUIVALENT CARDS INDICATED BY CHARACTER'S' BEHIND THE PARTNUMBER.
- IT IS POSSIBLE TO INSTALL A HIGHER LEVEL CARD, IF THE SAME PARTNUMBER IS NOT AVAILABLE FOR REPLACEMENT, PROVIDED NO DEPENDENCIES OR RESTRICTIONS EXIST, WHICH ARE INDICATED BY A CHARACTER BEHIND THE PARTNUMBER ⑪.
- IF A CHARACTER APPEARS BEHIND THE PARTNUMBER ⑪ THE BOTTOM NOTE OF THE PLUGLIST ⑫ LEADS YOU TO THE CARD REFERENCE LIST PA010 ⑬, WHERE ALL DEPENDENCIES AND/OR RESTRICTIONS ARE LISTED UNDER THIS CARD ID AND PARTNUMBER.
- MAKE SURE THAT AFTER CARD SWAPPING THE CARDS WILL BE PLUGGED BACK INTO THEIR ORIGINAL POSITION

CARD REFERENCE LISTING ⑬ PAGE PA010

THE FOLLOWING CARD ASSEMBLIES HAVE CONCURRENCES, PREREQUISITES, OR RESTRICTIONS:

ID	ASM.PN.	REMARKS:
SFXX	5555555	CONCURRENT TO SFYY P/N 7777777 M/SSS GROUP ⑭

EXAMPLE: YOU MAY EXCHANGE THE SFXX CARD ④ BY THE HIGH LEVEL CARD ⑧, IF YOU FULLFILL THE DEPENDENCY BETWEEN BOTH FUNCTIONAL LEVELS WHICH IS INDICATED BY A CHARACTER MPN ON THE PARTNUMBER ⑧ IN BETWEEN, WHICH MEANS THE SFYY ⑭ IS A PREREQUISITE PLUGGED IN POSITION 0A1 A2S2 ⑮.

DATE	EC NO	DATE	EC NO	DATE	EC NO
14NOV80	366459				
30OCT81	367234				

CARD REFERENCE LISTING

THIS PAGE 1 OF 2 LISTS FUNCTIONAL COMPATIBLE AND PIN COMPATIBLE CARDS FOR THOSE PART NUMBERS, WHICH ARE IDENTIFIED BY A CHARACTER'S (=SUBSTITUTE PARTNUMBER) IN THE PLUGLISTS. EITHER CARD PARTNUMBER INDICATED FOR THE SAME ID CAN BE PLUGGED IN THE SAME PLUGPOSITION.

ID	ASM.PN.	COMPATIBLE ASM.PN.	COMPATIBLE ASM.PN.	COMPATIBLE ASM.PN.	REMARKS
QB30	5683978	8484641	8641715	8488712	PN. 8641715 AND 8488712 HAVE ID QB30.
QB40	5683976	8488872			
QC30	4263782	8489782			
QD50	5683980	8488711	8641715	8488712	PN. 8641715 AND 8488712 HAVE ID QD50. PN. 5683978 AND 8484641 HAVE ID QB30.
QD70	8641715	8488712	5683978	8484641	PN. 5683978 AND 8484641 HAVE ID QD30. PN. 8528470 INTERCHANGEABLE WITH LOWER LEVEL CARDS, PN. 8528453/42 IN JAPAN ONLY.
QE40	8528470	8528453	5683978		
QF20	8562696	8489655			
QH30	8562674	8488704			
QH60	8562782	4266946			
QP90	5683940	8562706			PN. 6835928 AND PN. 4409905 MAY CAUSE DCA-HANG. IN CASE OF COAX. CABLE LENGTH >1500 METER.
SA20	6835928	4409905			
SA20	8715316	8715317			
SA30	5699968	1745960			
SD30	5664668	5664660			
SD50	8564508	1755001			
SD60	8564509	1756003			
SD70	8564510	1756005			
SD80	5167246	8564479	1756007		PN. 5167246 IS NOT INTERCHANGEABLE WITH PN. 8564479 AND 1756007 IN AFE-COUNTRIES EXCEPT CANADA AND LATIN AMERICA.
SE10	5167248	8564481	1756011		
SE20	5167241	8526518			
SE30	3548788	2399082			
SF40	4862487	5623352			
SF70	4862452	5619704			FOR CONCURRENCIES, SEE TABLE PAGE 2/2
53F0	4178063	8528195			FOR CONCURRENCIES, SEE TABLE PAGE 2/2
1PS	1310350	4432674	4157319		

DATE	EC NO	DATE	EC NO	DATE	EC NO
10MAY80	875040	16JAN81	875014	21JUL81	367117
01AUG80	875011	06APR81	367223		
15AUG80	357207	19MAY81	367213	30OCT81	367226
02AUG80	368032	03JUL81	367720		
14NOV80	368459	10JUL81	368505		

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MACH=4331-Z

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THIS PAGE 2 OF 2 LISTS THOSE CARD-ASSEMBLY-PARTNUMBERS, WHICH ARE IDENTIFIED
BY A CHARACTER C(=CONCURRENT) AND/OR A CHARACTER P(=PREREQUISITE) AND FOR A
CHARACTER R(=RESTRICTED) IN THE PLUGLISTS.
C OR P: THE INDICATED PARTNUMBER (C/P) REQUIRES A SPECIFIC FUNCTIONAL
R: THE INDICATED CARD OR MICROCODE.
PLUGPOSITION ONLY.

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ID	ASM.PN.	REMARKS
QC90	4263798	THIS CARD SOLVES AN FTAI-ALU-CHECK, INDICATED BY REF.-CODE C4200501
QF20	4263763	THIS CARD SOLVES AN FTAI-ALU-CHECK, INDICATED BY REF.-CODE C4200501
QG20	8562767	THIS CARD SOLVES SEVERAL MPX/RMPX PROBLEMS, IF 1442 OR OTHER 360-I/O-DEVICES ARE ATTACHED TO MPX.
SF40	5623352	CONCURRENT TO SF70 PN.5619704.
SF40	4862487	CONCURRENT TO SF70 PN.4862452.
SF40	6028779	PREREQUISITE SF70 PN.4862452. THIS CARD SOLVES INTERCHANGEABILITY/READABILITY PROBL.ON I/O-DISKETTE
SF40	6062420	PREREQUISITE SF70 PN.4862452. THIS CARD SOLVES INTERCHANGEABILITY/READABILITY PROBL.ON I/O-DISKETTE
SF70	5619704	CONCURRENT TO SF40 PN.5623352
SF70	4862452	CONCURRENT TO SF40 PN.4862487 OR PN.
53FD	4178065	NEW FILE CONTROL CARD. SEE TIE DOWN LIST PA201 OR PA221
53FD	4178068 8528195	OLD FILE CONTROL CARDS. SEE TIE DOWN LIST PA201 OR PA221 THESE CARDS CAN ONLY BE USED ON 53FD DRIVES WITH OLD SOLENOID; PN.5562064 INSTALLED. ORDER NEW PN. 4178065 IF PN. 4178068 OR 8528195 IS DEFECTIVE.

DATE	EC NO	DATE	EC NO	REA	LEVEL: 015
16MAY80	875040	16JAN81	875014		
01AUG80	875011	06APR81	367223		
15AUG80	367207	19MAY81	367213		
22AUG80	368032	03JUL81	367220	21JUL81	367117
14NOV80	366459	10JUL81	366505	30DCT81	367226

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P/N 8489913

[illegible]

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LIST OF 4331-002 MICROCODE FEATURES				
FEATURE/ B/M	SALES FEATURE	FEATURE B/M TITLE	REMARKS	
84813801	BASIC	FUNCTIONAL MICROCODE		
84867981	MODEL K02	MICROCODE 2 MB BSM		
84867991	MODEL KJ2	MICROCODE 3 MB BSM		
84868001	MODEL L02	MICROCODE 4 MB BSM		
84865051	3401	MICROCODE DISKETTE I/O		
84865071		MICROCODE M/SSS GROUP PDL5		
84865081	2001	MICROCODE 8 THRU 15 PORTS		
84865111	3901	MICROCODE 5424		
84865131	3201	MICROCODE FIRST FTA		
84865141	4910	MICROCODE SECOND FTA		
84865151	5248	MICROCODE BYTE MPX		
84865201	7851	MICROCODE 3340 DISK		
84865211	9202	MICROCODE 3310 DISK		
84865221	9291	MICROCODE 3370 DISK		
84865231	7901	IM-CODE D.A.S. COMPATIBILITY ON 3310/3370		
84865291	3950	MICROCODE 14XX COMPATIBILITY		
84865301		MICROCODE 1052 COMPATIBILITY		
84865311		MICROCODE PU CONTROL STORE 32K	IS BASIC W/C KATAKANA (STAUFEN)	
84865331	9671-9678	MICROCODE BSC LINE CONTROL		
84865341	9681-9688	MICROCODE START/STOP LINE CONTROL		
84865351	9691-9698	MICROCODE SDLC LINE CONTROL		
C A LINE 1			LINE ADDRESS 30	
84865361	9531	EXTERNAL MODEM INTERFACE:		
84865371	9521	MICROCODE CCA W/O CLOCK	EIA	
84865381	9501	MICROCODE CCA WITH CLOCK	EIA	
		MICROCODE HIGH SPEED LINE	V 35	
84865391	9651	INTEGRATED MODEMS:		
84865411	9641	MICROCODE SWITCHED NETWORK AUTO ANSWER	IM-SNA4 US AND CANADA	
84865421	9631 OR	MICROCODE LEASED LINE SWITCHED BACKUP	IM-LLSB US AND CANADA	
		MICROCODE LEASED LINE	IM-LL US AND CANADA	
84865431	9661	MICROC. LEASED LINE SW-BACKUP MAN ANSWER	IM-LLSM US AND CANADA	
84865441	0901	MICROCODE SWITCHED NETWORK AUTO ANSWER	IM-SNA4 MT W/O CANADA	
84865451	9471	MICROCODE LEASED LINE	IM-LL MT W/O CANADA	
84865461	9444	MICROCODE DDS ADAPTER <9600 BPS	IDDSA US ONLY	
84865471	9451	MICROCODE DDS ADAPTER >9600 BPS		
84865481	9451	MICROCODE LOCAL ATTACHMENT		
84865491	9671	MICROCODE BSC LINE 1		
84865491	9681	MICROCODE START/STOP LINE 1		
84865501	9691	MICROCODE SDLC LINE 1		
84867551	0931	MICROCODE X21 LEASED LINE FOR < 9600 BPS	MT ONLY (I.E. JAPAN)	
84867831	9831	MICROCODE X21 LEASED LINE FOR > 9600 BPS	MT ONLY (I.E. JAPAN)	
C A LINE 2			LINE ADDRESS 31	
84865511	9532	EXTERNAL MODEM INTERFACE:		
84865521	9522	MICROCODE CCA W/O CLOCK	EIA	
		MICROCODE CCA WITH CLOCK	EIA	
84865531	9652	INTEGRATED MODEMS:		
84865551	9642	MICROCODE SWITCHED NETWORK AUTO ANSWER	IM-SNA4 US AND CANADA	
84865551	9642	MICROCODE LEASED LINE SWITCHED BACKUP	IM-LLSB US AND CANADA	
84865561	9632 OR	MICROCODE LEASED LINE	IM-LL US AND CANADA	
		MICROC. LEASED LINE SW-BACKUP MAN ANSWER	IM-LLSM US AND CANADA	
84865571	0902	MICROCODE SWITCHED NETWORK AUTO ANSWER	IM-SNA4 MT W/O CANADA	
84865581	0912	MICROCODE LEASED LINE	IM-LL MT W/O CANADA	
84865591	9472	MICROCODE DDS ADAPTER <9600 BPS	IDDSA US ONLY	
84865601	9452	MICROCODE LOCAL ATTACHMENT		
84865621	9672	MICROCODE BSC LINE 2		
84865631	9682	MICROCODE START/STOP LINE 2		
84865641	9692	MICROCODE SDLC LINE 2		
84867561	0932	MICROCODE X21 LEASED LINE 2	MT ONLY (I.E. JAPAN)	

DATE	EC NO	DATE	EC NO
27MAR80	366284		

USED FOR : FUNCTIONAL MICROCODE
B/M 8487630 (VOL 30)MICROCODE FEATURE CHART
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P/N 5683218

LIST OF 4331-002 MICROCODE FEATURES (CONT.)

FEATURE B/M	SALES FEATURE	FEATURE B/M TITLE	REMARKS
C A L I N E 3			
LINE ADDRESS 32			
8486565	9533	EXTERNAL MODEM INTERFACE: MICROCODE CCA W/O CLOCK	IEIA
8486566	9523	MICROCODE CCA WITH CLOCK	IEIA
INTEGRATED MODEMS:			
8486567	9653	MICROCODE SWITCHED NETWORK AUTO ANSWER	IM-SNAA US AND CANADA
8486569	9643	MICROCODE LEASED LINE SWITCHED BACKUP	IM-LLSB US AND CANADA
8486570	9633 OR	MICROCODE LEASED LINE	IM-LL US AND CANADA
8486571	9663	MICROC. LEASED LINE SW-BACKUP MAN ANSWER	IM-LLSM US AND CANADA
8486572	0903	MICROCODE SWITCHED NETWORK AUTO ANSWER	IM-SNAA MT W/O CANADA
8486573	0913	MICROCODE LEASED LINE	IM-LL US ONLY
8486574	9473	MICROCODE DDS ADAPTER <9600 BPS	DDSA
8486574	9453	MICROCODE LOCAL ATTACHMENT	
8486576	9673	MICROCODE BSC LINE 3	
8486577	9683	MICROCODE START/STOP LINE 3	
8486578	9693	MICROCODE SDLC LINE 3	
8486761	0933	MICROCODE X21 LEASED LINE 3	MT ONLY (I.E. JAPAN)
C A L I N E 4			
LINE ADDRESS 33			
8486579	9534	EXTERNAL MODEM INTERFACE: MICROCODE CCA W/O CLOCK	IEIA
8486580	9524	MICROCODE CCA WITH CLOCK	IEIA
INTEGRATED MODEMS:			
8486581	9654	MICROCODE SWITCHED NETWORK AUTO ANSWER	IM-SNAA US AND CANADA
8486583	9644	MICROCODE LEASED LINE SWITCHED BACKUP	IM-LLSB US AND CANADA
8436584	9634 OR	MICROCODE LEASED LINE	IM-LL US AND CANADA
8486585	9664	MICROC. LEASED LINE SW-BACKUP MAN ANSWER	IM-LLSM US AND CANADA
8486586	0914	MICROCODE SWITCHED NETWORK AUTO ANSWER	IM-SNAA MT W/O CANADA
8486587	9474	MICROCODE DDS ADAPTER <9600 BPS	IM-LL US ONLY
8486588	9454	MICROCODE LOCAL ATTACHMENT	
8486589	9674	MICROCODE BSC LINE 4	
8486590	9684	MICROCODE START/STOP LINE 4	
8486591	9694	MICROCODE SDLC LINE 4	
8486764	0934	MICROCODE X21 LEASED LINE 4	MT ONLY (I.E. JAPAN)
C A L I N E 5			
LINE ADDRESS 34			
8486592	9535	EXTERNAL MODEM INTERFACE: MICROCODE CCA W/O CLOCK	IEIA
8486593	9525	MICROCODE CCA WITH CLOCK	IEIA
INTEGRATED MODEMS:			
8486594	9655	MICROCODE SWITCHED NETWORK AUTO ANSWER	IM-SNAA US AND CANADA
8486596	9645	MICROCODE LEASED LINE SWITCHED BACKUP	IM-LLSB US AND CANADA
8486597	9635 OR	MICROCODE LEASED LINE	IM-LL US AND CANADA
8486598	9665	MICROC. LEASED LINE SW-BACKUP MAN ANSWER	IM-LLSM US AND CANADA
8486599	0905	MICROCODE SWITCHED NETWORK AUTO ANSWER	IM-SNAA MT W/O CANADA
8486600	0915	MICROCODE LEASED LINE	IM-LL MT W/O CANADA
8486601	9475	MICROCODE DDS ADAPTER <9600 BPS	DDSA
8486601	9455	MICROCODE LOCAL ATTACHMENT	
8486602	9675	MICROCODE BSC LINE 5	
8486603	9685	MICROCODE START/STOP LINE 5	
8486604	9695	MICROCODE SDLC LINE 5	
8486767	0935	MICROCODE X21 LEASED LINE 5	MT ONLY (I.E. JAPAN)

DATE EC NO DATE EC NO
27MAR80 366284

USED FOR : FUNCTIONAL MICROCODE
BM 8487630 (VOL 30)MICROCODE FEATURE CHART
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LIST OF 4331-002 MICROCODE FEATURES (CONT.)

FEATURE/ B/M	SALES FEATURE	FEATURE B/M TITLE	REMARKS
C A L I N E 6			
LINE ADDRESS 35			
8486605	9536	EXTERNAL MODEM INTERFACE: MICROCODE CCA W/O CLOCK	IEIA
8486606	9526	MICROCODE CCA WITH CLOCK	IEIA
INTEGRATED MODEMS:			
8486607	9656	MICROCODE SWITCHED NETWORK AUTO ANSWER	IM-SNAA US AND CANADA
8486609	9646	MICROCODE LEASED LINE SWITCHED BACKUP	IM-LLSB US AND CANADA
8486610	9636 OR	MICROCODE LEASED LINE	IM-LL US AND CANADA
8486611	9666	MICROC. LEASED LINE SW.BACKUP MAN ANSWER	IM-LLSM US AND CANADA
8486612	0906	MICROCODE SWITCHED NETWORK AUTO ANSWER	IM-SNAA MT W/O CANADA
8486613	0916	MICROCODE LEASED LINE	IM-LL US ONLY
8486614	9476	MICROCODE DDS ADAPTER <9600 BPS	
8486615	9456	MICROCODE LOCAL ATTACHMENT	
8486616	9676	MICROCODE BSC LINE 6	
8486617	9686	MICROCODE START/STOP LINE 6	
8486770	0936	MICROCODE SDLC LINE 6	
		MICROCODE X21 LEASED LINE 6	MT ONLY (I.E. JAPAN)
C A L I N E 7			
LINE ADDRESS 36			
EXTERNAL MODEM INTERFACE:			
8486618	9537	MICROCODE CCA W/O CLOCK	IEIA
8486619	9527	MICROCODE CCA WITH CLOCK	IEIA
INTEGRATED MODEMS:			
8486620	9657	MICROCODE SWITCHED NETWORK AUTO ANSWER	IM-SNAA US AND CANADA
8486622	9647	MICROCODE LEASED LINE SWITCHED BACKUP	IM-LLSB US AND CANADA
8486623	9637 OR	MICROCODE LEASED LINE	IM-LL US AND CANADA
8486624	9667	MICROC. LEASED LINE SW.BACKUP MAN ANSWER	IM-LLSM US AND CANADA
8486625	0907	MICROCODE SWITCHED NETWORK AUTO ANSWER	IM-SNAA MT W/O CANADA
8486626	0917	MICROCODE LEASED LINE	IM-LL US ONLY
8486627	9477	MICROCODE DDS ADAPTER <9600 BPS	
8486628	9457	MICROCODE LOCAL ATTACHMENT	
8486629	9677	MICROCODE BSC LINE 7	
8486630	9687	MICROCODE START/STOP LINE 7	
8486773	0937	MICROCODE SDLC LINE 7	
		MICROCODE X21 LEASED LINE 7	MT ONLY (I.E. JAPAN)
C A L I N E 8			
LINE ADDRESS 37			
EXTERNAL MODEM INTERFACE:			
8486631	9538	MICROCODE CCA W/O CLOCK	IEIA
8486632	9528	MICROCODE CCA WITH CLOCK	IEIA
INTEGRATED MODEMS:			
8486633	9658	MICROCODE SWITCHED NETWORK AUTO ANSWER	IM-SNAA US AND CANADA
8486635	9648	MICROCODE LEASED LINE SWITCHED BACKUP	IM-LLSB US AND CANADA
8486636	9638 OR	MICROCODE LEASED LINE	IM-LL US AND CANADA
8486637	9668	MICROC. LEASED LINE SW.BACKUP MAN ANSWER	IM-LLSM US AND CANADA
8486638	0908	MICROCODE SWITCHED NETWORK AUTO ANSWER	IM-SNAA MT W/O CANADA
8486639	0918	MICROCODE LEASED LINE	IM-LL US ONLY
8486640	9478	MICROCODE DDS ADAPTER <9600 BPS	
8486641	9458	MICROCODE LOCAL ATTACHMENT	
8486642	9678	MICROCODE BSC LINE 8	
8486643	9688	MICROCODE START/STOP LINE 8	
8486776	0938	MICROCODE SDLC LINE 8	
		MICROCODE X21 LEASED LINE 8	MT ONLY (I.E. JAPAN)
8486646	4910	MICROCODE 8809 TAPE UNIT (FTA 2)	

DATE EC NO DATE EC NO
27MAR80 366284

USED FOR : FUNCTIONAL MICROCODE
BM 8487630 (VOL 30)MICROCODE FEATURE CHART
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LIST OF 4331-002 MICROCODE FEATURES (CONT.)				REMARKS
FEATURE/ B/M	SALES FEATURE	FEATURE B/M TITLE		
KEY BOARD TYPES :				
8486547	9303	MICROCODE TYPEWRITER KEYBOARD	3278-2	
8486648	9301	MICROCODE DATA ENTRY-1 KEYBOARD	3278-2	
8486649	9302	MICROCODE DATA ENTRY-2 KEYBOARD	3278-2	
KEY BOARD LANGUAGES :				
8486650	0956 OR	MICROCODE US ENGLISH	3278-2A	OP CONSOLE
NO SPECIFIC ORDER				
8486651	2956	MICROCODE US ENGLISH	3278-2	
8486652	0951	MICROCODE EBCDIC	3278-2A	OP CONSOLE
8486653	9442 US	MICROCODE EBCDIC	3278-2	
8486653	2951 MT	MICROCODE EBCDIC	3278-2	
8486654	0957	MICROCODE AUSTRIA/GERMANY 76	3278-2A	CP CONSOLE
8486655	2957	MICROCODE AUSTRIA/GERMANY 76	3278-2	
8486656	0948	MICROCODE AUSTRIA/GERMANY 70	3278-2A	OP CONSOLE
8486657	2948	MICROCODE AUSTRIA/GERMANY 70	3278-2	
8486658	0971	MICROCODE BELGIUM	3278-2A	OP CONSOLE
8486659	2971	MICROCODE BELGIUM	3278-2	
8486660	0975	MICROCODE BRAZIL	3278-2A	OP CONSOLE
8486661	2975	MICROCODE BRAZIL	3278-2	
8486662	0965	MICROCODE DENMARK 73	3278-2A	CP CONSOLE
8486663	2965	MICROCODE DENMARK 73	3278-2	
8486664	0942	MICROCODE DENMARK 70	3278-2A	OP CONSOLE
8486665	2942	MICROCODE DENMARK 70	3278-2	
8486666	0966	MICROCODE NORWAY 73	3278-2A	OP CONSOLE
8486667	2966	MICROCODE NORWAY 73	3278-2	
8486668	0941	MICROCODE NORWAY 70	3278-2A	CP CONSOLE
8486669	2941	MICROCODE CANADIAN FRENCH	3278-2	
8486671	2977	MICROCODE FRANCE (QWERTY)	3278-2A	CP CONSOLE
8486672	0970	MICROCODE FRANCE (QWERTY)	3278-2	
8486673	2970	MICROCODE FRANCE (QWERTY)	3278-2A	CP CONSOLE
8486674	0964	MICROCODE FRANCE (AZERTY)	3278-2	
8486675	2964	MICROCODE FRANCE (AZERTY)	3278-2A	CP CONSOLE
8486676	0950	MICROCODE INTERNATIONAL	3278-2	
8486677	2950	MICROCODE INTERNATIONAL	3278-2A	OP CONSOLE
8486679	9441	MICROCODE US ASCII	3278-2	
8486680	0963	MICROCODE FINLAND 73	3278-2A	OP CONSOLE
8486681	2963	MICROCODE FINLAND 73	3278-2	
8486682	0945	MICROCODE FINLAND 70	3278-2A	OP CONSOLE
8486683	2945	MICROCODE FINLAND 70	3278-2	
8486684	0967	MICROCODE SWEDEN 73	3278-2A	OP CONSOLE
8486685	2967	MICROCODE SWEDEN 73	3278-2	
8486686	0946	MICROCODE SWEDEN 70	3278-2A	OP CONSOLE
8486687	2947	MICROCODE SWEDEN 70	3278-2	
8486688	0968	MICROCODE ITALY	3278-2A	OP CONSOLE
8486689	2968	MICROCODE ITALY	3278-2	
8486690	0955	MICROCODE JAPAN ENGLISH	3278-2A	CP CONSOLE
8486691	2955 + 9303	MICROCODE JAPAN ENGLISH 76 KEY	3278-2	
8486692	2955 + 9301	MICROCODE JAPAN ENGLISH 75 KEY	3278-2	
OR 2955 + 9302				
8486693	0959	MICROCODE PORTUGAL	3278-2A	OP CONSOLE
8486694	2959	MICROCODE PORTUGAL	3278-2	
8486695	0960	MICROCODE SPAIN 73	3278-2A	OP CONSOLE
8486696	2960	MICROCODE SPAIN 73	3278-2	
8486697	0940	MICROCODE SPAIN 70	3278-2A	OP CONSOLE
8486698	2940	MICROCODE SPAIN 70	3278-2	
8486699	0969	MICROCODE SPANISH SPEAKING	3278-2A	OP CONSOLE
8486700	2969	MICROCODE SPANISH SPEAKING	3278-2	
8486701	0958	MICROCODE UNITED KINGDOM	3278-2A	OP CONSOLE
8486702	2958	MICROCODE UNITED KINGDOM	3278-2	
8486703	2973	MICROCODE JAPAN KATAKANA 76 KEY	3278-2	
8486707	780123	MICROCODE JUGOSLAV NEW (RPQ)	3278-2	
8486709	780119	MICROCODE JUGOSLAV OLD (RPQ)	3278-2	
8486710	UC1603	MICROCODE SWISS GERMAN (RPQ)	3278-2	
8486711	UC1813	MICROCODE SWISS FRENCH (RPQ)	3278-2	
8486712	X82982	MICROCODE TURKISH (RPQ)	3278-2	
8486717	0973	MICROCODE JAPAN KATAKANA 76 KEY	3278-2	
			3278-2	OP CCNSOLE

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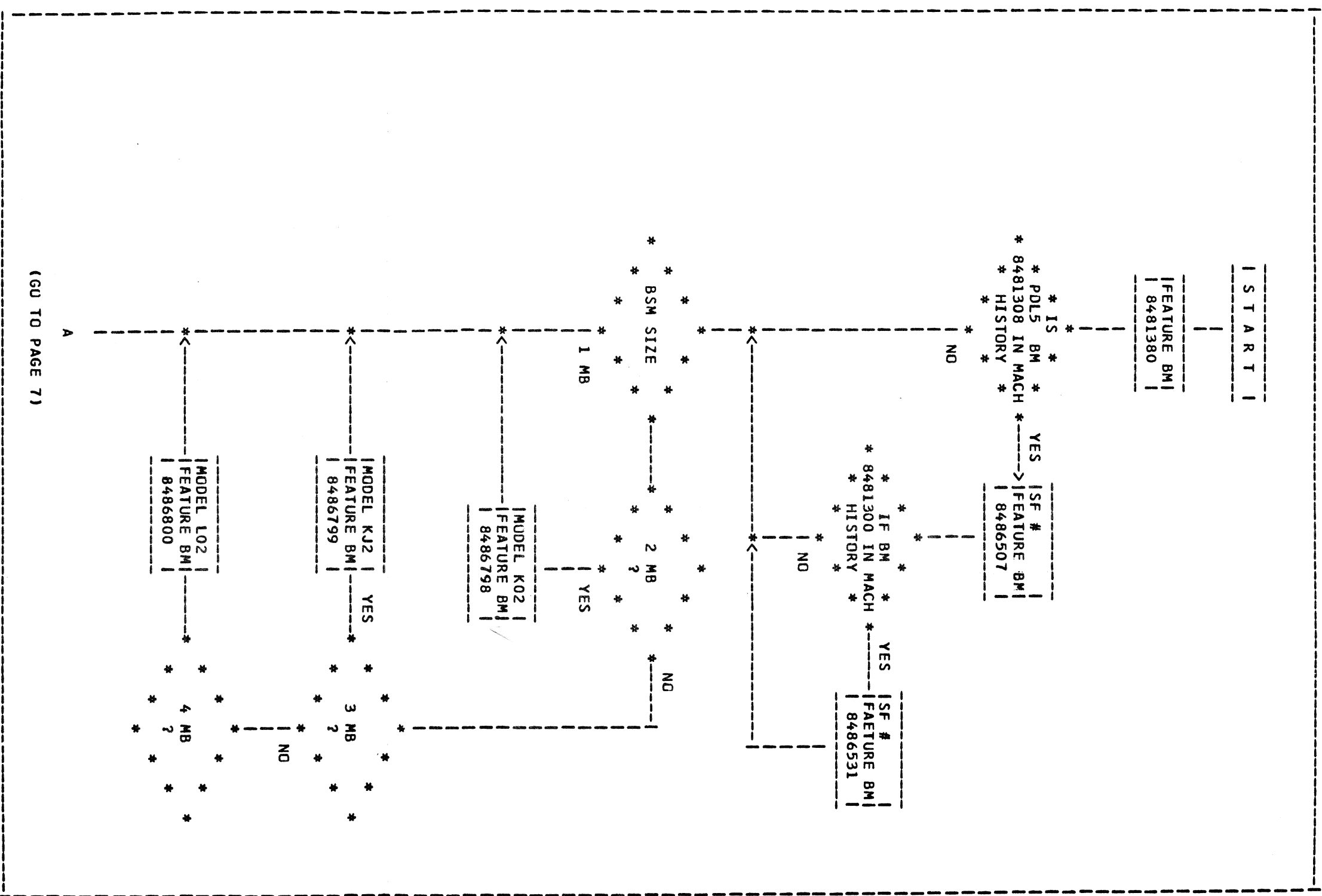
USED FOR : FUNCTIONAL MICROCODE
BM 8487630 (VOL 30)

MICROCODE FEATURE CHART

LIST OF 4331-002 MICROCODE FEATURES (CONT.)

FEATURE/ B/M	SALES FEATURE	FEATURE B/M TITLE	REMARKS
8486704	8701	MICROCODE VM ASSIST	US AND CANADA
8486705	1601	MICROCODE CA IN US OR CANADA	
8486756	9541	MICROCODE FIRST ACU LINE 1	
8486757	9551	MICROCODE SECOND ACU LINE 1	
8486759	9542	MICROCODE FIRST ACU LINE 2	
8486760	9552	MICROCODE SECOND ACU LINE 2	
8486762	9543	MICROCODE FIRST ACU LINE 3	
8486763	9553	MICROCODE SECOND ACU LINE 3	
8486765	9544	MICROCODE FIRST ACU LINE 4	
8486766	9554	MICROCODE SECOND ACU LINE 4	
8486768	9545	MICROCODE FIRST ACU LINE 5	
8486769	9555	MICROCODE SECOND ACU LINE 5	
8486771	9546	MICROCODE FIRST ACU LINE 6	
8486772	9556	MICROCODE SECOND ACU LINE 6	
8486774	9547	MICROCODE FIRST ACU LINE 7	
8486775	9557	MICROCODE SECOND ACU LINE 7	
8486777	9548	MICROCODE FIRST ACU LINE 8	
8486778	9558	MICROCODE SECOND ACU LINE 8	
8486781	9315	MICROCODE STRING SWITCH 3340/3344	
8486785	9316	MICROCODE STRING SWITCH 3370	
8486786	9316	MICROCODE STRING SWITCH 3370	
8486792	5531	MICROCODE SPI	
8486793	9317	MICROCODE 3344 DISK	
8486801	3202	MICROCODE THIRD FTA	
8486802	1421	MICROCODE BLOCK MPX FIRST	
8486803	1422	MICROCODE BLOCK MPX SECOND	
8486804	1431	MICROCODE HIGH SPEED CHANNEL	
8486805		MICROCODE W/O SF #1431 AND W/O SF #4910	
8486806	4910	MICROCODE FOR 8809 TAPE ADAPTER	
8486807	1431	MICROCODE IC ADAPTER WITH HSC	
8486944	SU0165	MICROCODE 8809 REMIND OVERLAY (RPQ)	BOARD PB23 BOARD PB22 BOARD PB24

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USED FOR : FUNCTIONAL MICROCODE
BM 8487630 (VOL 30)

MICROCODE FEATURE CHART

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07 OF 17
P/N 5683218

A (FROM PAGE 6)

```
*      *      *      *      *
```

NDS		YES	SF # 2001
EXTENSION		*-----> FEATURE BM	
8 - 15	*		8486508
*			

1 NO

```

*      *
* 5424 *
* INSTALLED *
* ? *
*      *
* YES *
* -----> *
* |SF # 3901 |
* |FEATURE BM |
* | 8486511 |

```

1 NO

* *

*		*		
* IS BM	*	YES		SF #
* 848136 IN MACH.	*	-----		FEATURE BMM
* HISTORY	*			8486805
*		*		

— NO

* IS BM *	YES	ISF # 4910
* 8481066 IN MACH.*	-----	FEATURE BM
* HISTORY *		8486806
* *		-----

1 NO

```
*      *      *      *      *
*    IS BM      *      YES      |SF # 1431|
* 8481067 IN MACH.*-----|FEATURE BM|
*   HISTORY      *          | 8486807 |
*      *      *
```

— NO

```

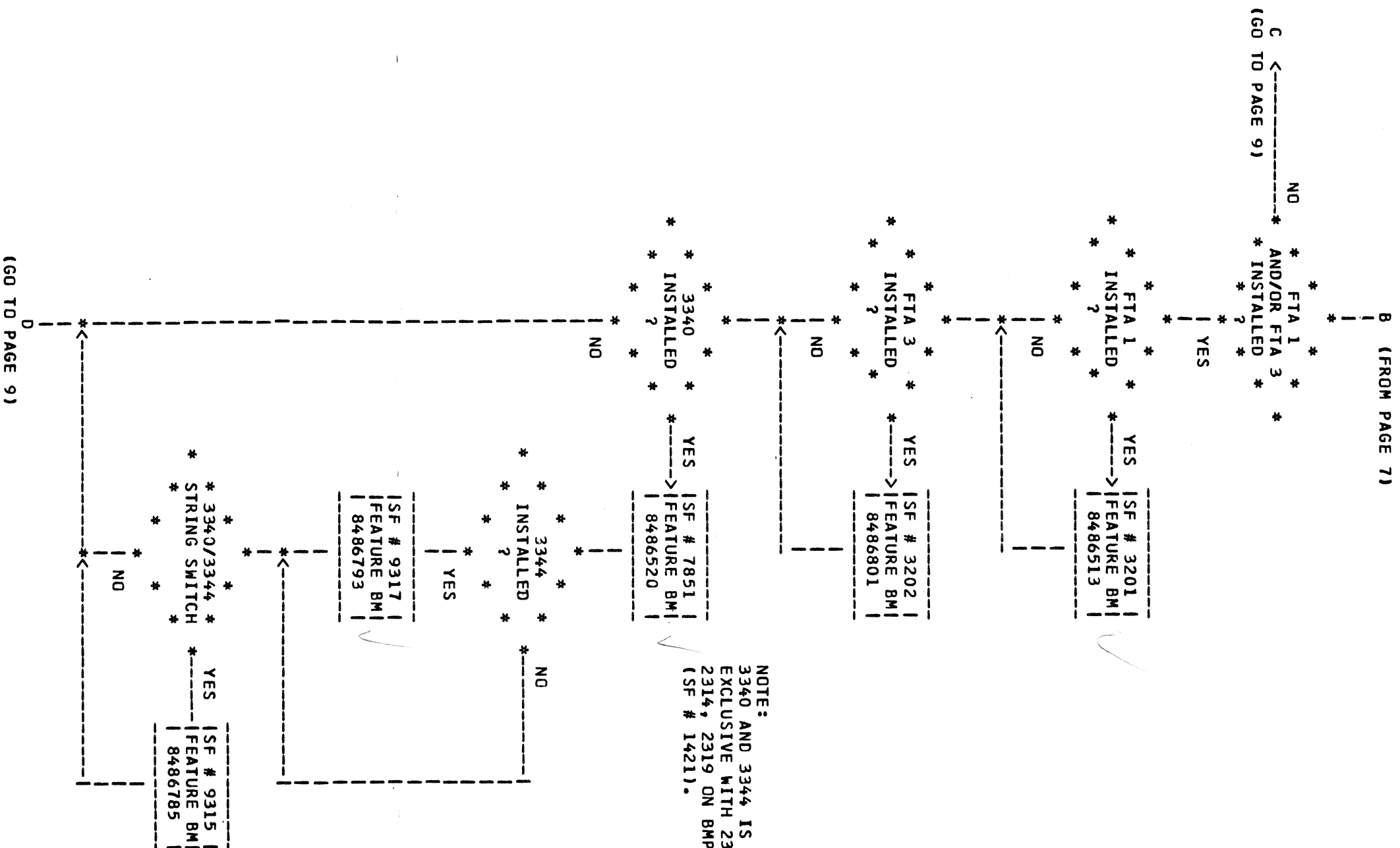
*      *      *      *      *
*      SPI      *      YES      |SF # 5531
*      INSTALLED  *      *----->|FEATURE BM
*      ?      *      *      | 8486792

```

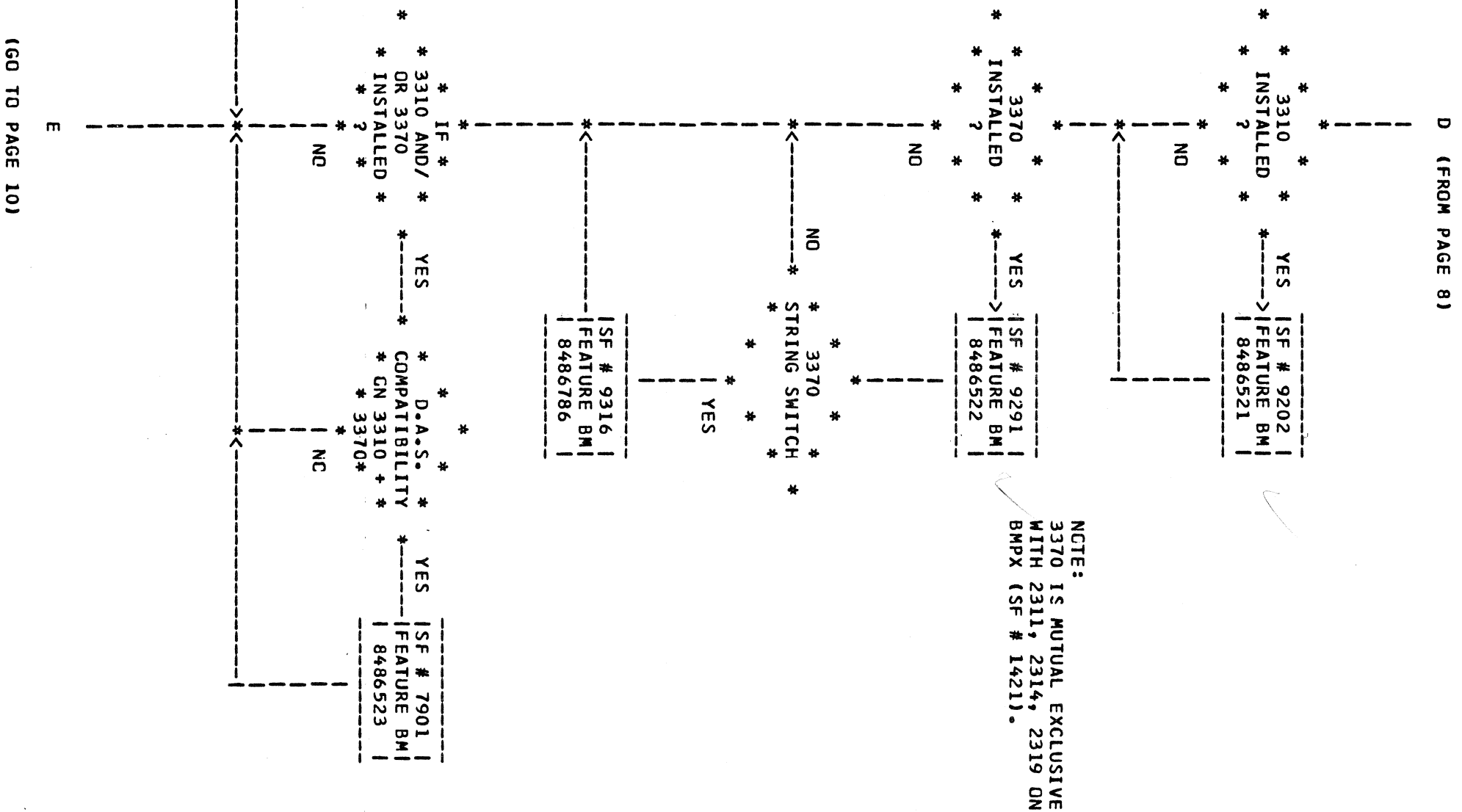
- 2 -

(GO TO PAGE 8)

NOTE:
ONE OF THESE FEATURES
(84801136 OR 8481066
OR 8481067) MUST BE
IN THE MACHINE.

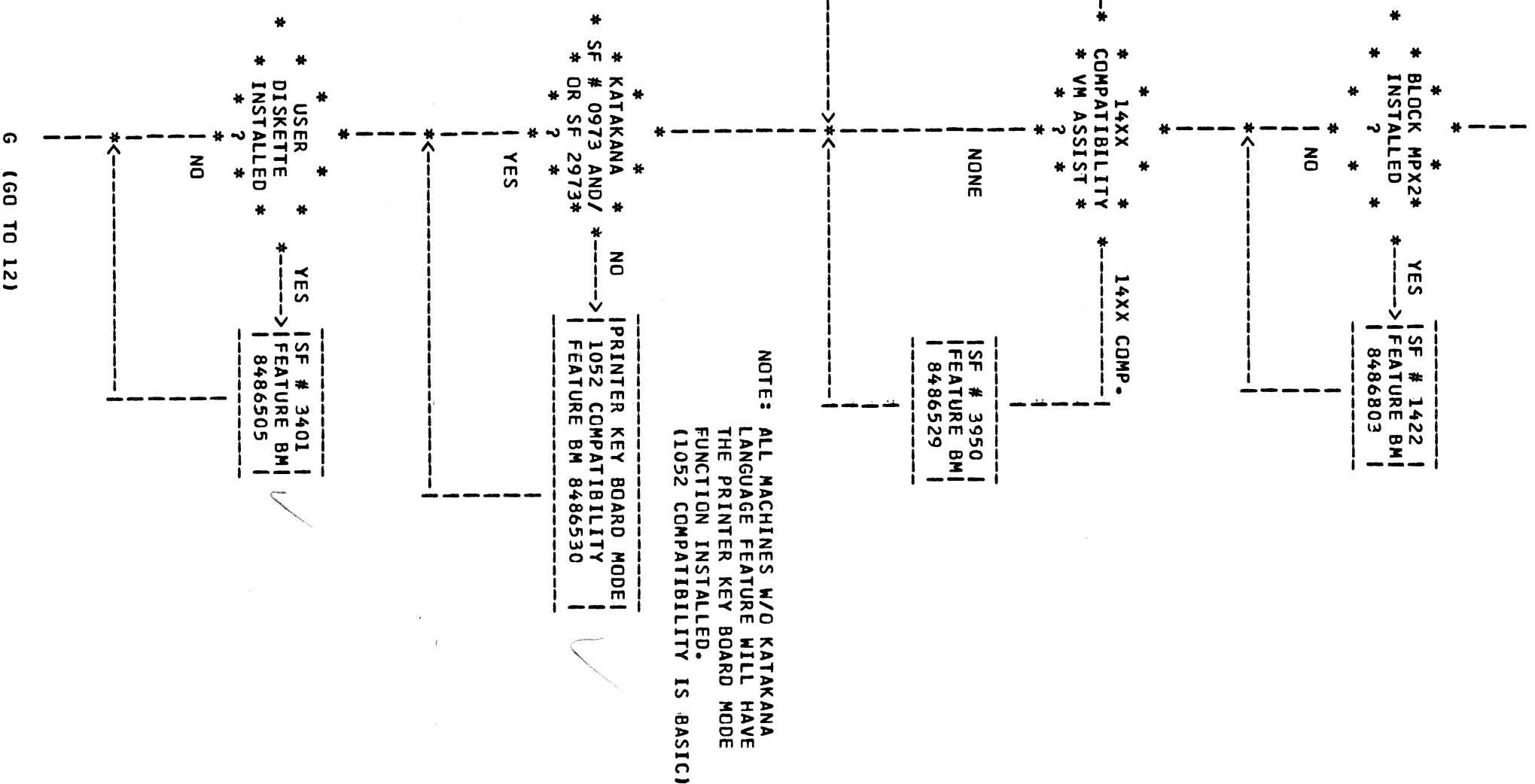


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F (FROM PAGE 10)



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G (FROM PAGE 11)

KEYBOARD LANGUAGE GROUPS

LANGUAGE GROUP	OPERATOR CONSOLE		DISPLAY TERMINAL	
	3278-2A	3278-2	NOTE 1	
	FEATURE B/M	SALES FEATURE	FEATURE B/M	SALES FEATURE
US ENGLISH	84866501	0956	84866511	2956
EBCDIC	84866521	0949	84866531	9442
AUSTRIA/GERMANY 76	84866541	0957	84866551	2957
AUSTRIA/GERMANY 70	84866561	0948	84866571	2948
BELGIUM	84866581	0971	84866591	2971
BRAZIL	84866601	0975	84866611	2975
DENMARK 73	84866621	0965	84866631	2965
DENMARK 70	84866641	0942	84866651	2942
NORWAY 73	84866661	0966	84866671	2966
NORWAY 70	84866681	0944	84866691	2941
CANADIAN/FRENCH	84866721	0964	84866731	2964
FRANCE (QWERTY)	84866741	0970	84866751	2970
FRANCE (AZERTY)	84866761	0950	84866771	2950
INTERNATIONAL	84866781	0955	84866791	9441
US ASCII	84866801	0963	84866811	2963
FINLAND 73	84866821	0945	84866831	2945
FINLAND 70	84866841	0967	84866851	2967
SWEDEN 73	84866861	0946	84866871	2947
SWEDEN 70	84866881	0968	84866891	2968
ITALY	84866901	0955	84866911	2955 AND
JAPAN ENGLISH 76K	84866921	2955 AND	9303	
JAPAN ENGLISH 75K	84866941	2955 AND	9301 OR	
	84866961	2959	9302	
PORTUGAL	84866981	2960	9302	
SPAIN 73	84866991	2940	9302	
SPAIN 70	84867011	2969	9302	
SPANISH SPEAKING	84867021	2958	9302	
UNITED KINGDOM	84867031	2973	9302	
JAPAN KATAKANA 76	84867041	2973	9302	
NO SPECIFIC ORDER	84867051	2973	9302	
JUGOSLAV NEW (RPQ)	84867061	2973	9302	
JUGOSLAV OLD (RPQ)	84867071	2973	9302	
SWISS GERMAN (RPQ)	84867081	2973	9302	
SWISS FRENCH (RPQ)	84867091	2973	9302	
TURKISH (RPQ)	84867101	2973	9302	

KEYBOARD TYPE:

DATA ENTRY 1	84866481	9301
DATA ENTRY 2	84866491	9302
TYPEWRITER NOTE 21	84866471	9303

NOTE 2 :
REQUIRED IF 3278-2
TYPEWRITER KEYBOARD
IS ORDERED IN ANOTHER
LANGUAGE THAN THE
CP CONSOLE 3278-2A

H (GO TO PAGE 13)

DATE EC NO DATE EC NO
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H (FROM PAGE 12)

* CA * NO
* INSTALLED * ----->| E N D |
* ? *
* *
* | YES

* US * YES |SF # 1601 |
* OR * ----->|FEATURE BM|
* CANADA * | 8486705 |
* *
* | NO

SELECT THE FEATURE BM DEPENDING ON THE
TRANSMISSION MODE AND LINES INSTALLED.
NOTE: ONLY 2 (OUT OF 3) MODES CAN BE INSTALLED

	B	S	C	START/STOP	S	O	L	C
LINE	SALES	FEATURE	SALES	FEATURE	SALES	FEATURE		
ADDR	FEAT.	B/M	FEAT.	B/M	FEAT.	B/M		
BASIC:	8486533		8486534		8486535			
30	9671	8486548	9681	8486549	9691	8486550		
31	9672	8486562	9682	8486563	9692	8486564		
32	9673	8486576	9683	8486577	9693	8486578		
33	9674	8486589	9684	8486590	9694	8486591		
34	9675	8486602	9685	8486603	9695	8486604		
35	9676	8486615	9686	8486616	9696	8486617		
36	9677	8486628	9687	8486629	9697	8486630		
37	9678	8486641	9688	8486642	9698	8486643		

* LOCAL * NO
* ATTACHMENT *
* INSTALLED *
* ? *
* | YES

SELECT THE FEAT. BM DEPENDING ON THE LINES INSTALLED.
SF # 4801
LINE SALES FEATURE
ADDR FEAT. B/M
30 9451 8486547
31 9452 8486560
32 9453 8486574
33 9454 8486588
34 9455 8486601
35 9456 8486614
36 9457 8486627
37 9458 8486640

(GO TO PAGE 14)

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27MAR80 366284

K (FROM PAGE 14)

*
*
* DDSA *
* INSTALLED *
* (US ONLY) *
* ? *

NO

SELECT THE FEATURE BM DEPENDING ON THE LINES INSTALLED.	
SF # 5650	LINE SALES FEATURE REMARKS
ADDR FEAT. B/M	
30	9471 8486545 < 9600 BPS
30	9444 8486546 > 9600 BPS
31	9472 8486559 < 9600 BPS
32	9473 8486573 < 9600 BPS
33	9474 8486587 < 9600 BPS
34	9475 8486600 < 9600 BPS
35	9476 8486613 < 9600 BPS
36	9477 8486626 < 9600 BPS
37	9478 8486639 < 9600 BPS

*
*
* 1200 BPS *
* INTEGRATED *
* MODEM *
* ? *

NO

> L (GO TO PAGE 17)

YES

*
*
* US *
* OR *
* CANADA *
* ? *

NO

*
*
* NON *
* SWITCHED LINE *
* (LEASED) *
* ? *

NO

SELECT THE FEATURE BM DEPENDING ON THE LINES INSTALLED. WT EXCEPT CANADA SF # 2832	
LINE SALES FEATURE BM	
30	0911 8486544
31	0912 8486558
32	0913 8486572
33	0914 8486586
34	0915 8486599
35	0916 8486612
36	0917 8486625
37	0918 8486638

*
*
* S N A A *
* ? *

YES

*
*
* NO *
* ? *

SELECT THE FEATURE BM DEPENDING ON THE LINES INSTALLED. SWITCHED NETWORK-AUTO ANSWER IN WT EXC. CANADA AND UK.	
SF # 2831	LINE SALES FEATURE BM
ADDR FEAT.	
30	0901 8486543
31	0902 8486557
32	0903 8486571
33	0904 8486585
34	0905 8486598
35	0906 8486611
36	0907 8486624
37	0908 8486637

(GO TO PAGE 16)

I E N D I

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USED FOR : FUNCTIONAL MICROCODE
BM P/N 8487630 (VOL 30)

MICROCODE FEATURE CHART

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16 OF 17
P/N 5283218

M (FROM PAGE 15)

SELECT THE FEATURE BM DEPEND-
ING ON THE LINES INSTALLED. NON
SWITCHED WITH OR W/O SWITCHED
BACKUP AND MANUAL ANSWER IN US
AND CANADA.

	SF # 4781	L L S M	SF # 4787
LINE SALES	FEATURE	SALES	FEATURE
30	9631 8486542	9661 8486542	
31	9632 8486556	9662 8486556	
32	9633 8486570	9663 8486570	
33	9634 8486584	9664 8486584	
34	9635 8486597	9665 8486597	
35	9636 8486610	9666 8486610	
36	9637 8486623	9667 8486623	
37	9638 8486636	9668 8486636	

SELECT THE FEATURE BM
DEPENDING ON THE LINES
INSTALLED. NON SWITCHED
NETWORK WITH SWITCHED
BACKUP IN US AND CANADA

	SF # 4788	LINE SALES	FEATURE BM	ADDR	FEAT.
30	9641 8486541				
31	9642 8486555				
32	9643 8486569				
33	9644 8486583				
34	9645 8486596				
35	9646 8486609				
36	9647 8486622				
37	9648 8486635				

SELECT THE FEATURE BM
DEPENDING ON THE LINES
INSTALLED. SWITCHED
NETWORK AUTO ANSWER IN
US AND CANADA.

	SF # 4782	LINE SALES	FEATURE BM	ADDR	FEAT.
30	9651 8486539				
31	9652 8486553				
32	9653 8486567				
33	9654 8486581				
34	9655 8486594				
35	9656 8486607				
36	9657 8486620				
37	9658 8486633				

END

DATE EC NO DATE EC NO
27MAR80 366284

USED FOR : FUNCTIONAL MICROCODE
BM P/N 8487630 (VOL 30)

MICROCODE FEATURE CHART

L (FROM PAGE 15)

* X21 *
* LEASED LINE *
* ? *
* YES *
* SF # 5655 *

SELECT THE FEATURE BM DEPENDING
ON THE LINES INSTALLED. LEASED
LINE X21 INTERFACE IN WT ONLY
(F.E. JAPAN)

NO

LINE SALES FEATURE B/M
ADDR FEAT.

30	0931	8486755
30	9831	8486783
31	0932	8486758
32	0933	8486761
33	0934	8486764
34	0935	8486767
35	0936	8486770
36	0937	8486773
37	0938	8486776

END

DATE EC NO DATE EC NO
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THIS IS A DESCRIPTION OF THE D-CONST'S IN THE LINKLIST
THE MODULE IS LOADED IN THE CONTROL STORE WITH ID 0700

		ADDR
D001	POWER AND RAS	00 - 1F
D009	MSSS	30 - 35
	RPQ'S RESERVED	36 - 39
D002	PROCESSOR ID	3A - 3B
D050	CA	20 - 2F
	CA	180 - 197
D011	MPX +CA	108 - 10F
D012	FTA 2	110 - 117
D013	SPARE	118 - 11F
D014	FTA 1	120 - 127
D015	BMPX	128 - 12F
D016	BBAO + BBA1	130 - 137
D080	BMPX (SS4 OR SS8)	198 - 1B8
D090	FTA1 CONFIGURATION TABLE	1B8 - 1C2
D091	FTA1 CONFIGURATION TABLE	CAD=1 1C2 - 1CC
D092	FTA1 CONFIGURATION TABLE	CAD=2 1CC - 1D6
D093	FTA1 CONFIGURATION TABLE	CAD=3 1D6 - 1E0
D094	FTA1 CONFIGURATION TABLE	CAD=4 1E0 - 1EA
D095	FTA1 CONFIGURATION TABLE	CAD=5 1EA - 1F4
D096	FTA1 CONFIGURATION TABLE	CAD=6 1F4 - 1FE
D097	FTA1 CONFIGURATION TABLE	CAD=7 1FE - 208
D100	FTA2 CONFIGURATION TABLE	CAD=0 208 - 212
D101	FTA2 CONFIGURATION TABLE	CAD=1 212 - 21C
D102	FTA2 CONFIGURATION TABLE	CAD=2 21C - 226
D103	FTA2 CONFIGURATION TABLE	CAD=3 226 - 230
D104	FTA2 CONFIGURATION TABLE	CAD=4 230 - 23A
D105	FTA2 CONFIGURATION TABLE	CAD=5 23A - 244
D106	FTA2 CONFIGURATION TABLE	CAD=6 244 - 24E
D107	FTA2 CONFIGURATION TABLE	CAD=7 24E - 258
D200	NDS TRANSLATION TABLES	300 - 301
D210	PORT 0 DESCRIPTOR	302 - 309

THE FOLLOWING SPACE IN ID 0700 IS USED TO DESCRIBE THE PORT'S
1 - 15 . THE INITIALIZATION IS DONE VIA NDS-CONFIG-MANOP.

PORT 1 DESCRIPTOR	
PORT 2	30A - 311
PORT 3	312 - 319
PORT 4	31A - 321
PORT 5	322 - 329
PORT 6	32A - 331
PORT 7	332 - 339
PORT 8	33A - 341
PORT 9	342 - 349
PORT A	34A - 351
PORT B	352 - 359
PORT C	35A - 361
PORT D	369 - 371
PORT E	372 - 379
PORT F	37A - 381
CONTROL DISKETTE DEVICE SECTION	382 - 389
USER DISKETTE DEVICE SECTION	38A - 391
	392 - 39A

DATE	EC NO	DATE	EC NO
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USED FOR : FUNCTIONAL MICROCODE
BM 8487615

CONFIGURATION BYTES LAYOUT

D001

BYTE 0: 1X 4331
X2 CS SIZE 16K
X4 CS SIZE 32K

BYTE 2:

BYTE 3: 04 1 MB BSM
02 0.5 MB BSM

BYTE 4: BIT#

0 = 1 UC.5
2 3 = 01 64K SP-MEM
10 80K SP-MEM
11 96K SP-MEM
4 5 = 01 CONTRL DISKETTE DRIVE
6 NDS > 8 PORT'S
7 USER DISKETTE DRIVE INSTALLED

BYTE 6: BIT#

1 2 3 = 001 IOP STORAGE 32K
010 IOP STORAGE 64K
011 IOP STORAGE 96K
4 5424

BYTE 9: BIT#

2 ACC 1
4 MPX
5 CA

BYTE 0A: BIT#

1 ACC 2
4 5 FTA 2

BYTE 0B:

SPARE

BYTE 0C: BIT#

0 ACC 4
4 5 FTA 1

BYTE 0D: BIT#

0 2 ACC 5
4 SCA BMPX

BYTE 0E: BIT#

0 1 ACC 6
4 BBA 0
5 BBA 1

BYTE 18: BIT#

0 MSSS
1 CEC
2 ACU
3 NOT USED
4 5424
5 CA 1 - 3
6 CA 4 - 8
7 CHNL IO

BYTE 1D: BIT#

0 1052
1 DOC
2 FA
3 EMU - SUPPORT
4 2311
5 2314
6 3330
7 3340

BYTE 1F: BIT#

7 = 1 370
7 = C VSE

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| D009 | THIS IS THE DESCRIPTOR OF THE SP-MEM

BYTE #

0 1 2 3 4 5

0080						SP MEM 32K MIXED
0100						SP MEM 64K MIXED
	0040	0080				16K INSTR 32K DATA
	0080	0040				32K INSTR 16K DATA
	0080	0080				32K INSTR 32K DATA

| D002 | | D050 | CA DESCRIPTOR

FOR EACH LINE TWO BYTES IN D002 AND IN D050
THERE ARE 16 FEATURES FOR EACH LINE
THE FEATURES ARE CONDITIONALLY EXCLUSIVE

BYTE 2 3

D002 |1|1|1|1|2|2|2|3|3|3|4|4|4|5|5|5|6|6|6|7|7|7|7|8|8|8|8|

D050 |1|1|1|1|2|2|2|3|3|3|4|4|4|5|5|5|6|6|6|7|7|7|7|8|8|8|8|

BYTE 0 1

FEATURE # | D050 | D002 |
| BYTE 0 | BYTE 1 | BYTE 2 | BYTE 3 |

1				10		
2				18	20	
3		02		20		
4				30		
5				D8	20	
6				98	20	
7				C8	20	
8				A8	20	
9				E8	20	
10				B8	20	
11				80		
12		02		80		
13				90		
14					08	CRED
15					04	CRED
16						UNCHANGED BSC
17					A0	SS

DATE EC NO DATE EC NO

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USED FOR : FUNCTIONAL MICROCODE
BM 8487619CONFIGURATION BYTES LAYOUT
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P/N 8488464

LINE 1	2..3	4..8	FEATURE #	DESCRIPTION
A	A	A	1	WITHOUT CLOCK
A	A	A	2	WITH CLOCK
A	-	-	3	HIGH SPEED LINE
A	A	A	4	INTEGRATED MODEMS 1200 BPS AUTO ANSWER (US)
A	A	A	5	NOT USED
A	A	A	6	LEASED SNBU: AUTO ANSWER (US)
A	A	A	7	LEASED SNBU: MANUAL ANSWER (US)
AX	AX	AX	8	SWITCHED: AUTO ANSWER (WT)
A	A	A	9	LEASED (WT)
A	A	A	10	INTEGRATED DDS ADAPTERS SPEED <= 9600 BPS (US)
A	-	-	11	SPEED >= 9600 BPS (US)
A	A	A	12	LOCAL ATTACHMENT INTERFACE
-	-	-	13	A C U - INTERFACE
C	C	C	14	BSC
CX	CX	CX	15	START/STOP
C	C	C	16	NOT USED

NOTES TO FEATURE CONFLICT/DEPENDENCY - MATRIX

- FEATURE IS NOT SELECTABLE
- A EXACTLY ONE A-FEATURE IS SELECTABLE PER LINE. NEEDS 'C'
- AX NOT MORE THAN 3 ALLOWED PER MACHINE
- B NEEDS FEATURE 1 OR FEATURE 2
- C EXACTLY ONE 'C'-FEATURE MAY BE SELECTED PER LINE. NEEDS 'A', CA BSC, CA SS, MUST BE SPECIFIED RESPECTIVELY, BUT NOT MORE THAN 2 OF THEM ARE PERMITTED PER MACHINE.
- CX START STOP IS INCOMPATIBLE WITH FEATURES 1,3,10,11,12

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| D010 , D011 , D012 , D013 , D014 , D015 , D016 , D017 |

BYTE 0: BITS 0..3

1 MPX/CA
2 BBA
3 FTA
4 BMPX

BITS 4..5 # SCA 2ND MPX

6..7 ADDR RANGE MPX
00 00...1F
01 20...3F
10 40...5F
11 60...7F

BYTE 1: CYCLE STEAL PRIORITY (CHANGEABLE ONLY IN POWERCONF)

EVEN ATTACHMENT 000000

BYTE 2: BITS 16...19
20...23
24...27

AWA #
TRAP #
SCA: #OF SHARED SUBCHNL'S (SS)
FTA : REF TO 2ND UCM (UCW#=REF +16)
BBA : ADDR RANGE / 8
CHNL #
REF TO ADAPT SPEZ BLOCK
BBA: IO-START ADDR

ODD ATTACHMENT 000000

BYTE 5: BITS 40...43
44...47

AWA #
TRAP #

BYTE 6: 48...51
52...55

BBA : ADDR / 8
CHNL #

BYTE 7: 56...63

REF TO ADAPT SPEZ BLOCK
BBA : IO-START ADDR

000000 EVEN AND ODD ATT. ONLY ADAPT 1 AND 6. IN ALL OTHER CASES
CONTAIN THE ODD-FIELD ZEROS

DATE	EC NO	DATE	EC NO
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| D080 | BMPX SUBCHANNEL DESCRIPTOR

EVERYONE OF THE 32 ENTRIES DESCRIBES A RANGE OF 8 SEQUENTIAL
DEVICE ADDRESSES (00...FF)

BIT# 0 BEGIN OF SHARED SUBCHANNELS
1 SUBCHANNEL INSTALLED
2 SELECTOR CHANNEL
3 231X SCA DEVICE
4 UNSHARED SUBCHANNEL
5 0
6 0
7 0

NOTE : DEPENDING ON BIT 0 OF THE DEVICE ADDRESS IS
DECIDED IF THE SS IS SHARED OR UNSHARED
BIT 0 = 1 SHARED
0 = 0 UNSHARED

THERE IS THE POSSIBILITY TO HAVE 4 OR 8 SHARED SUBCHANNELS

CHAIN IMAGE LINK CONSTANTS

CS-REQ PRIORITY

J A1	J A2	J A3	ACC1	4
J B1	J B2	J B3	ACC2	3
J C1	J C2	J C3	ACC3	NOT USED
J D1	J D2	J D3	ACC4	5
J E1	J E2	J E3	ACC5	6
J F1	J F2	J F3	ACC6	1

J S1	+	J S2	11	CS = 32K
J S1			00	CS = 8 K
J S2			01	CS = 16K

J M4			BSM	QD6
J M2			BSM SIZE	0.5 MB
J M3			BSM SIZE	1.0 MB

CHAIN I PRIORITY
CHAIN C CS-SIZE
CHAIN F RED BIT CTL , BSM SIZE

DATE EC NO DATE EC NO
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USED FOR : FUNCTIONAL MICROCODE
BM 8487619CONFIGURATION BYTES LAYOUT
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DO90	UNTIL	D117
-----	-----	-----

THE FTA-CONFIGURATION BLOCK HAS 8 ENTRIES, EACH TEN BYTES WIDE.
EACH ENTRY DESCRIBES A STRING OF UP TO 8 DEVICES.FOR EACH CONFIGURED FTA, ONE FTA-CONFIGURATION-BLOCK IS LINKED
INTO THE CONFIGURATION TABLE. THESE BLOCKS ARE CONTIGUOUS. THEY
ARE ADDRESSABLE BY A POINTER BBAEJA09 THAT POINTS TO THE FIRST
OF THEM.

DCI- CTRL- ADDRESS	0	1	6	7
0	*	*		*
1	*	*		*
2	*I/O-ADDR	A-BOX-TYPE	DEV.TYPE	DEV.TYP
3	*	*		*
4	*	*		*
5	*	*		*
6	*	*		*
7	*	*		*

I/O-ADDR: LOGICAL ADDRESS ('UD'-PART) OF FIRST DEVICE IN STRING
(THE ADDRESS SPECIFIED IN SIO). THIS ADDRESS IS THE
POSSIBLE FIRST DEVICE ADDRESS BUT IS NOT NECESSARILY
ASSIGNED TO A DEVICE.

A_BOX_TYPE :

X'3X'	3333
X'4X'	3340
X'5X'	3350
X'9X'	3310
X'AX'	3370
X'FX'	8809

X: A-BOX FEATURES

BIT 0: SPARE
BIT 1: SPARE
BIT 2: ALTERNATE CONTROLLER
BIT 3: STRING SWITCHDEVICE-TYPE: THE DEVICE-TYPE IS MEANINGFUL ONLY TOGETHER WITH
THE ASSOCIATED A-BOX-TYPE

DEVICE-TYPE MEANS FOR A-BOX-TYPE

	X'3X'	X'4X'	X'5X'	X'9X'
X'80'	3330	-1	3340	-A2
X'81'	3330	-2	3340	-B2
X'82'	3333	-1	3340	-B1
X'83'	3330	-11	3344	-B2
X'84'	X		UNASSIGNED	
X'85'	X		3350	-A2F
X'87'	3333	-11	3344	-B2F

LEFTMOST BIT OF DEVICE TYPE 'OFF' MEANS: NO DEVICE IN THIS
POSITION.SOME DEVICE TYPES MAY CONTAIN A RPS BIT IN POSITION 4. THE ABOVE
DEVICE TYPES ARE SHOWN AFTER DROPPING THAT BIT (TO MAKE THE
TABLE SHORTER).EXAMPLE: DEVICE TYPE X'88' WITH A-BOX TYPE X'4X' MEANS
3340-A2 WITH RPS.

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BM 8487619CONFIGURATION BYTES LAYOUT
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TITLE 'NDS CONFIGURATION TABLE'

D200L02

TWO BYTES KEYBOARD LANGUAGE COMBINATIONS

BYTE: 0 <--- 1ST KEYBOARD LANGUAGE
1 <--- 2ND KEYBOARD LANGUAGE

ENTRY LAYOUT OF NDS PORT 0 - F

BYTE: 0 <--- LOGICAL I/O ADDR LAST BYTE FROM 08-1F
1 <--- DEVICE TYPE
2 <--- DEVICE MODEL
3 <--- RESERVED
4 <--- SPECIAL FEATURES
5 <--- LANGUAGES
6 <--- OPTIONAL FEATURES
7 <--- RESERVED

PORT 0 ENTRY

BAEJC30 EQU *

DC D210L08

SPACE

PORT 1 ENTRY

DC 8X'00'

SPACE

PORT 2 ENTRY

DC 8X'00'

SPACE

PORT 3 ENTRY

DC 8X'00'

SPACE

PORT 4 ENTRY

DC 8X'00'

SPACE

PORT 5 ENTRY

DC 8X'00'

SPACE

PORT 6 ENTRY

DC 8X'00'

SPACE

PORT 7 ENTRY

DC 8X'00'

SPACE

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USED FOR : FUNCTIONAL MICROCODE
BM 8487619

CONFIGURATION BYTES LAYOUT

LOGICAL I/O ADDRESS EQUATES

SPACE 1
H08 EQU X'08'
H09 EQU X'09'
H0A EQU X'0A'
H0B EQU X'0B'
H0C EQU X'0C'
H0D EQU X'0D'
H0E EQU X'0E'
H0F EQU X'0F'
H10 EQU X'10'
H11 EQU X'11'
H12 EQU X'12'
H13 EQU X'13'
H14 EQU X'14'
H15 EQU X'15'
H16 EQU X'16'
H17 EQU X'17'
H18 EQU X'18'
H19 EQU X'19'
H1A EQU X'1A'
H1B EQU X'1B'
H1C EQU X'1C'
H1D EQU X'1D'
H1E EQU X'1E'
H1F EQU X'1F'

DEVICE TYPE EQUATES

SPACE 1
CNIX EQU 0
D3278 EQU 1
D3287 EQU 2
G3289 EQU 3
D3262 EQU 4
DSYSTDSK EQU 5
DUSDSK EQU 6
KEYBOARD
PRINTER
PRINTER
PRINTER

DEVICE MODEL EQUATES

SPACE 1
M782A EQU 1
M782 EQU 2
M87 EQU 3
M87 EQU 4
M89E EQU 5
M89 EQU 6
M89 EQU 7
M622 EQU 8
M62 EQU 9
3278-2A MODEL
3278-2 MODEL
3287-X MODEL
3287-X MODEL
3289-E MODEL
3289-X MODEL
3289-X MODEL
3289-X MODEL
3262-2 MODEL
3262-8 MODEL

3278 EQUATES

SPACE 1

*
* SPECIAL FEATURES
*

TYPW EQU B'00000000'
DAT1 EQU B'00000001'
DAT2 EQU B'00000010'
KATK EQU B'00000011'
TYPEWRITER
DATA ENTRY 1
DATA ENTRY 2
KATAKANA

3287 EQUATES

SPACE 1

3289-E EQUATES

SPACE 1

3262 EQUATES

SPACE 1

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TYPEWRITER LANGUAGE LAYOUT EQUATES

SPACE 1	0	AUSTRIA/GERMANY 70
TYGE70	EQU	
TYGE76	EQU	AUSTRIA/GERMANY 76
TYBE	EQU	BELGIUM
TYBR	EQU	BRAZIL
TYCA	EQU	CANADIAN FRENCH
TYDE70	EQU	DENMARK 70
TYDE73	EQU	DENMARK 73
TYEB	EQU	EBCDIC
TYF170	EQU	FINLAND 70
TYF173	EQU	FINLAND 73
TYFA	EQU	FRANCE AZERTY
TYFQ	EQU	FRANCE QWERTY
TYIN	EQU	INTERNATIONAL
TYIT	EQU	ITALY
TYJA	EQU	JAPAN ENGLISH
TYNO70	EQU	NORWAY 70
TYNO73	EQU	NORWAY 73
TYPO	EQU	PORTUGAL
TYSP70	EQU	SPAIN 70
TYSP73	EQU	SPAIN 73
TYSS	EQU	SPANISH SPEAKING
TYSW70	EQU	SWEDEN 70
TYSW73	EQU	SWEDEN 73
TYUK	EQU	U.K.
TYUS	EQU	U.S.
TYUA	EQU	U.S. ASCII
TYKA	EQU	KATAKANA
SPACE 1	26	

DATA ENTRY I LANGUAGE LAYOUT EQUATES

SPACE 1	64	AUSTRIA/GERMANY 70
DIGE70	EQU	
DIGE76	EQU	AUSTRIA/GERMANY 76
DIBE	EQU	BELGIUM
DIBR	EQU	BRAZIL
DICA	EQU	CANADIAN FRENCH
DIDE70	EQU	DENMARK 70
DIDE73	EQU	DENMARK 73
DIEB	EQU	EBCDIC
DIFI70	EQU	FINLAND 70
DIFI73	EQU	FINLAND 73
DIFA	EQU	FRANCE AZERTY
DIFQ	EQU	FRANCE QWERTY
D1IN	EQU	INTERNATIONAL
D1IT	EQU	ITALY
D1JA	EQU	JAPAN ENGLISH
D1NO70	EQU	NORWAY 70
D1NO73	EQU	NORWAY 73
D1PO	EQU	PORTUGAL
DISP70	EQU	SPAIN 70
DISP73	EQU	SPAIN 73
DISS	EQU	SPANISH SPEAKING
DISW70	EQU	SWEDEN 70
DISW73	EQU	SWEDEN 73
DIUK	EQU	U.K.
DIUS	EQU	U.S.
DIUA	EQU	U.S. ASCII
D1KA	EQU	KATAKANA
SPACE 1	90	

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* DATA ENTRY II LANGUAGE LAYOUT EQUATES *

SPACE 1			
D2GE70	EQU	128	AUSTRIA/GERMANY 70
D2GE76	EQU	129	AUSTRIA/GERMANY 76
D2BE	EQU	130	BELGIUM
D2BR	EQU	131	BRAZIL
D2CA	EQU	132	CANADIAN FRENCH
D2DE70	EQU	133	DENMARK 70
D2DE73	EQU	134	DENMARK 73
D2EB	EQU	135	EBCDIC
D2FI70	EQU	136	FINLAND 70
D2FI73	EQU	137	FINLAND 73
D2FA	EQU	138	FRANCE AZERTY
D2FQ	EQU	139	FRANCE QWERTY
D2IN	EQU	140	INTERNATIONAL
D2IT	EQU	141	ITALY
D2JA	EQU	142	JAPAN ENGLISH
D2NO70	EQU	143	NORWAY 70
D2NO73	EQU	144	NORWAY 73
D2PO	EQU	145	PORTUGAL
D2SP70	EQU	146	SPAIN 70
D2SP73	EQU	147	SPAIN 73
D2SS	EQU	148	SPANISH SPEAKING
D2SW70	EQU	149	SWEDEN 70
D2SW73	EQU	150	SWEDEN 73
D2UK	EQU	151	U.K.
D2US	EQU	152	U.S.
D2UA	EQU	153	U.S. ASCII
D2KA	EQU	154	KATAKANA

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REFERENCE LIST FOR FLAT CABLE INSTALLATION SEQUENCE REQUIRED FOR
22 POSITION BOARDS.

PART 1 FLATCABLE INSTALLATION SEQUENCE

FOR FLAT CABLE ROUTING WITHIN THE MACHINE FRAME 01 REFER TO
REFERENCE DRAWING P/N 4139587(USED IN MANUFACTURING ONLY)

I-- ASSEMBLY PARTNUMBER

I-- CABLE GROUP PARTNUMBER

I-- INSTALLATION SEQUENCE NUMBER

THE FIRST DIGIT IDENTIFIES ONE OF THE FOLLOWING GROUPS
0 - INTRAGATE CABLES WITHIN ONE GATE
1 - INTERGATE CABLES GOING FROM GATE 01A- TO TAILGATE 01D-
2 - INTERGATE CABLES GOING FROM GATE 01A- TO TAILGATE 01E-
***** NOTE: 01A-D1 MEANS CE-PANEL *****

THE LAST THREE DIGITS ARE THE ACTUAL INSTALLATION SEQUENCE
NUMBER. ALL CABLES HAVE TO BE INSTALLED IN UPGRADING
SEQUENCE.

I-- CABLE ASM PARTNUMBER

I--FROM END CABLE PLUG POSITIONS
LAST COLUMN INDICATES
A,B,C,D,E ROW OF HARCON GROUPER.
T TOP OF CARD CONNECTOR.

I--TO END CABLE PLUG POSITION
LAST COLUMN INDICATES
A,B,C,D,E ROW OF HARCON GROUPER.
T TOP OF CARD CONNECTOR.

I-- POSSIBLE REPAIR CABLE
ASM PN UNTIL NEW CABLE
IS AVAILABLE

I-- BILL OF MATERIAL
WHERE THIS CABLE
GROUP IS USED

I-- MACHINE
FEATURE
CONFIGURATION
WHERE THIS
CABLE GROUP
IS USED FOR
IF CONDITION
IS NOT FULL-
FILLED BYPASS
THIS GROUP.

USED IN TO BE USED FOR
MFI BM MACHINES WITH

4264743	8484671	0010	5802225	01A-A2YB	01A-D1A3	5800923	8481008	MSSS	GROUP	PDL4
4264743	8484671	0020	5802225	01A-A2ZB	01A-C1B5	5800924				
4264743	8484671	0030	5802225	01A-C2YA	01A-D1A1	5800920				
4264743	8484671	0050	58022875	01A-A2X2	01A-B2A2	(MOVED TO				
4264743	8484671	0060	5802875	01A-A2X3	01A-B2A3	(MOVED TO				
4264743	8484671	0070	5802225	01A-A2YD	01A-C2YK	5800920				
4264743	8484671	0080	5802225	01A-A2YM	01A-C2YJ	5800920				
4264743	8484671	0080	5802225	01A-A2YM	01A-C2YJ	5800920				

NOTE: SEQUENCE NUMBERS 0050 AND 0060 OF CABLE GROUP P/N 8484671 MAY ALSO BE REPRESENTED
BY SEQUENCE NUMBERS 0082 AND 0084 OF CABLE GROUP 8484195 AS SHOWN BELOW.

NONE	8484195	0082	5802875	01A-A2X2	01A-B2A2	5802125	8481008	MSSS	GROUP	PDL4
NONE	8484195	0084	5802875	01A-A2X3	01A-B2A3	5802125				
	8484195	LATEST	EC LEVEL	368044						

DATE	EC NO	DATE	EC NO
16MAY80	875040		
25JUL80	875043	06APR81	367217A
22AUG80	367214		
14NOV80	366459		
30JAN81	367217		

FLATCABLE INSTALLATION SEQUENCE

ASM PARTN.	CABLE GROUP	INST SEQ	CABLE ASM PN	CABLE FROM POS	CABLE TO POS	REPAIR CABLE	USED IN MFI BM	TO BE USED FOR MACHINES WITH
4264744	8484674	1200	5802140	01D-E1BD	01A-A1W3T	5802155	8481051	5424 PDL4
4264744	8484674	1210	5802140	01D-E1GJ	01A-A1W2T	5802155		
4264744	8484674	1220	5802140	01D-F1BD	01A-A1W4T	5802155		
4264744	8484674	1230	5802140	01D-F1GJ	01A-A1W5T	5802155		
4264744	8484674	LATEST	EC LEVEL 368044					
4264744	8484674	1200	5802140	01D-E1BD	01A-A1W3T	5802155	8481309	5424 PDL5
4264744	8484674	1210	5802140	01D-E1GJ	01A-A1W2T	5802155		
4264744	8484674	1220	5802140	01D-F1BD	01A-A1W4T	5802155		
4264744	8484674	1230	5802140	01D-F1GJ	01A-A1W5T	5802155		
4264745	8484675	LATEST	EC LEVEL 368044					
4264745	8484675	1300	5802161	01A-B2YA	01D-A2BD	5802162	8481029	1ST DASD ADAPTER
4264745	8484675	1310	5802161	01A-B2YB	01D-A2GJ	5802162		
4264745	8484675	1320	5802161	01A-B2YK	01D-B2BD	5802162		
4264745	8484675	1330	5802161	01A-B2YK	01D-B2GJ	5802162		
4264745	8484675	LATEST	EC LEVEL 368044					
4265498	8484172	1400	5802298	01D-C2BD	01A-B2L2T	5803879	8481100	BMPX 2
4265498	8484172	1410	5802298	01D-C2GJ	01A-B2L3T	5803879		
4265498	8484172	1420	5802298	01D-D2BD	01A-B2L4T	5803879		
4265498	8484172	1430	5802298	01D-D2GJ	01A-B2L5T	5803879		
4265498	8484172	LATEST	EC LEVEL 363550					
4264746	8484676	1400	5802161	01A-B2ZA	01D-C2BD	5802162	8481105	8809 ADAPTER
4264746	8484676	1410	5802161	01A-B2ZB	01D-C2GJ	5802162		
4264746	8484676	1420	5802161	01A-B2ZC	01D-D2BD	5802162		
4264746	8484676	1430	5802161	01A-B2ZD	01D-D2GJ	5802162		
4264746	8484676	LATEST	EC LEVEL 368044					
4264742	8484025	0480	5802225	01A-C2ZC	01A-B2X4	5808400	8481053	CA BASIC
4264742	8484025	0490	5802225	01A-C2ZD	01A-B2X5	5808400		
4264742	8484025	LATEST	EC LEVEL 368044					
4264747	8484677	1500	5802298	01D-D3BD	01A-B2W2T	5803879	8481031	MPX
4264747	8484677	1510	5802298	01D-D3GJ	01A-B2W3T	5803879		
4264747	8484677	1520	5802298	01D-E3BD	01A-B2W4T	5803879		
4264747	8484677	1530	5802298	01D-E3GJ	01A-B2W5T	5803879		
4264747	8484677	LATEST	EC LEVEL 368044					
4264748	8484678	1600	5802298	01D-F3BD	01A-B2B2T	5803877	8481379	BMPX 1
4264748	8484678	1610	5802298	01D-F3GJ	01A-B2B3T	5803877		
4264748	8484678	1620	5802298	01D-G3BD	01A-B2B4T	5803877		
4264748	8484678	1630	5802298	01D-G3GJ	01A-B2B5T	5803877		
4264748	8484678	LATEST	EC LEVEL 368044					
4265499	8484173	1700	5802161	01A-B2ZE	01D-E2BD	5802162	8481098	2ND DASD ADAPTER
4265499	8484173	1710	5802161	01A-B2ZF	01D-E2GJ	5802162		
4265499	8484173	1720	5802161	01A-B2ZG	01D-F2BD	5802162		
4265499	8484173	1730	5802161	01A-B2ZH	01D-F2GJ	5802162		
4265499	8484173	LATEST	EC LEVEL 363550					
4264749	8484171	1700	5802298	01D-E2BD	01A-B2P2T	5803880	8481143	HSC
4264749	8484171	1710	5802298	01D-E2GJ	01A-B2P3T	5803880		
4264749	8484171	1720	5802298	01D-F2BD	01A-B2P4T	5803880		
4264749	8484171	1730	5802298	01D-F2GJ	01A-B2P5T	5803880		
4264749	8484171	LATEST	EC LEVEL 363550					
NONE	8484022	2800	5802225	01A-C2YG	01E-A1GJ	5800931	8481274	EXT.MODEM ICA LINE 1
NONE	8484022	LATEST	EC LEVEL 367044					
NONE	8484026	2810	5802220	01A-A2ZH	01E-A1BD	5800931	8481008	MSSS GROUP PDL4
NONE	8484026	LATEST	EC LEVEL 368044					
NONE	8484026	2810	5802220	01A-A2ZH	01E-A1BD	5800931	8481308	MSSS GROUP PDL5
NONE	8484026	LATEST	EC LEVEL 368044					
NONE	8484024	2820	5802225	01A-C2YF	01E-A2GJ	5800931	8481276	EXT.MODEM CA LINE 3
NONE	8484024	LATEST	EC LEVEL 367044					
NONE	8484023	2830	5802225	01A-C2YQ	01E-A2BD	5800931	8481275	EXT.MODEM CA LINE 2
NONE	8484023	LATEST	EC LEVEL 367044					
NONE	8484020	2840	5802225	01A-C2YE	01E-A3GJ	5800931	8481232	EXT.MODEM CA LINE 5
NONE	8484020	LATEST	EC LEVEL 367044					
16MAY80	8750440							
25JUL80	8750443	06APR81		367217A				
22AUG80	3672114							
14NOV80	3664559							
30JAN81	3672117							

MACH=4331-2

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FLATCABLE INSTALLATION SEQUENCE

ASM PARTN.	CABLE GRUP	INST SEQ	CABLE ASM PN	CABLE FROM POS	CABLE TO POS	REPAIR CABLE	USED IN MFI BM	TO BE USED FOR MACHINES WITH
NONE	8484019	2850	5802225 01A-C2YP	01E-A3BD	5800931	8481231	EXT-MODEM CA LINE 4	
NONE	8484019	LATEST	EC LEVEL 367044					
NONE	8484017	2860	5802225 01A-C2YD	01E-A4GJ	5800931	8481229	EXT-MODEM CA LINE 7	
NONE	8484021	LATEST	EC LEVEL 367044					
NONE	8484021	2870	5802225 01A-C2YN	01E-A4BD	5800931	8481233	EXT-MODEM CA LINE 6	
NONE	8484018	LATEST	EC LEVEL 367069					
NONE	8484680	2900	5802225 01A-B2YP	01E-A6GJ	5800931	8481211	EXT-MODEM CA LINE 8	CA WITH ACU 1
NONE	8484680	LATEST	EC LEVEL 367044					
NONE	8484681	2910	5802225 01A-B2YN	01E-A6BD	5800931	8481212	CA WITH ACU 2	
NONE	8484681	LATEST	EC LEVEL 367044					
NONE	8484028	2940	5802225 01A-A1YE	01E-A8BD	5800929	8481073	REMOTE DATA LINK 2	
NONE	8484028	LATEST	EC LEVEL 368044B					
NONE	8484027	2950	5802225 01A-A1YN	01E-A8GJ	5800929	8481072	REMOTE DATA LINK 1	
NONE	8484027	LATEST	EC LEVEL 368044B					

DATE	EC NO	DATE	EC NO
16MAY80	875040		
25JUL80	875043	06APR81	367217A
22AUG80	367214		
14NOV80	366459		
30JAN81	367217		

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AL-BOARD PDL4

MACH=4331
PLUG LIST

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PHYS. LOCAT.	ID	FEAT. BM	FEATURE TITLE	NAME	PN	REA	MACHINE EC	CABLE/TCC TO POS.
=====	=====	=====	=====	=====	=====	=====	=====	=====
1AA1	PA11	8481045	IOSS GROUP	BOARD	8489697 8489931 8487166	6420436 6420485 6420496	368027 368041	
1AA1A4	QH60	8481045	IOSS GROUP	CARD	8488794 8562740 4266946 8562782 S	6420393 6420545 6420592	368017 367204	
1AA1B2	QH40	8481045	IOSS GROUP	CARD	8488793	6420434	367226 368017 367110	
1AA1B2T		8481045	IOSS GROUP	TCC 1 TO 1	8483399			
1AA1B3T		8481045	IOSS GROUP	TCC 1 TO 1	8483399			
1AA1B4T		8481045	IOSS GROUP	TCC 1 TO 1	8483399			
1AA1B5T		8481045	IOSS GROUP	TCC 1 TO 1	8483399			
1AA1C2	SF10	8481045	IOSS GROUP	CARD	2411872		368015	
1AA1D2	SF20	8481045	IOSS GROUP	CARD	2411851		368015	
1AA1D2T		8481045	IOSS GROUP	TCC OVER 2	2633938 OR	2731026		1AA1E2T
1AA1D5T		8481045	IOSS GROUP	TCC OVER 2	2633938 OR	2731026		1AA1E5T
1AA1E2	SF30	8481045	IOSS GROUP	CARD	2411893 6830741	6420517	368015 368049	
1AA1F2 OR	QH80	8481051 8481070	5424 NATIVE ATT. LOOP ADAPTER 1	CARD	8488719 8488719		369477 369477	
1AA1G2	SF50	8481070	LOOP ADAPTER 1	CARD	1588052		368015	
1AA1H2	SF50	8481070	LOOP ADAPTER 1	CARD	1588052		368015	
1AA1J2	SE20	8481070	LOOP ADAPTER 1	CARD	8526518 S 5167241 S		367059 367186	
1AA1K2	SE30	8481070	LOOP ADAPTER 1	CARD	2399082 S 8548788 S		367160 367207	
1AA1K4	SE30	8481070	LOOP ADAPTER 1	CARD	2399082 S 8548788 S		367160 367207	
1AA1L2	SE20	8481071	LOOP ADAPTER 2	CARD	8526518 S 5167241 S		367059 367186	
1AA1M2	SE30	8481071	LOOP ADAPTER 2	CARD	2399082 S 8548788 S		367160 367207	
1AA1M4	SE30	8481071	LOOP ADAPTER 2	CARD	2399082 S 8548788 S		367160 367207	
1AA1R2	QM10	8481051	5424 NATIVE ATT.	CARD	8562595		369429	
1AA1R3T		8481051	5424 NATIVE ATT.	TCC OVER 4	2732453			1AA1U3T
1AA1R4T		8481051	5424 NATIVE ATT.	TCC OVER 3	4134831			1AA1T4T
1AA1R5T		8481051	5424 NATIVE ATT.	TCC OVER 4	2732453			1AA1U5T
1AA1S2	QM20	8481051	5424 NATIVE ATT.	CARD	8488855		367171	
1AA1T2	QM30	8481051	5424 NATIVE ATT.	CARD	8562615		369465	
1AA1U2	QM40	8481051	5424 NATIVE ATT.	CARD	8489589	6420420	368021	

1AA1J4T		8481051	5424 NATIVE ATT.	TCC OVER 2	2633938 OR	2731026		1AA1V4T
---------	--	---------	------------------	------------	------------	---------	--	---------

DATE	EC NO	DATE	EC NO	DATE	EC NO	REA	REA	LEVEL: 018
09MAR79	368001C	26OCT79	368041	14NOV80	366459			
23MAR79	368011	23NOV79	368049	13FEB81	367221			
27APR79	368021	02JUN80	367204	30OCT81	367226			
15JUN79	368027	11JUL80	367212					
02JUL79	368017	15AUG80	367207					

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PLUG LIST

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NOTE : PARTS INSTALLED IN SYSTEM MAY NOT BE ON LATEST PN LEVEL AS SHOWN ON PLUG LIST.
CHARACTER BEHIND PN: S = SUBSTITUTION, C = CONCURRENCE, P = PRE REQUISITE, SEE PAGE PA010
R = RESTRICTION

LEVEL 018

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MACH=4331

JUMPER/TIE DOWN LIST

PAGE PA201
1 OF 1
P/N 8484047

THIS PAGE CONTAINS ONLY JUMPERS AND TIE DOWNS FOR BOARD 1A-42.
USE BLACK WIRE PART NUMBER 811695.

CODE	BOARD P/N	LOWEST BD EC	FROM NET/LOC	TO NET/LOC
JUMPER IF MACHINE WITHOUT FEAT.-9M. 8481037 (DISKETTE 1/0)	8488849 OR HIGHER	368001	SF410AA24 1A-A2N5D10	SF420AA24 1A-A2N5B10
JUMPER IF SYSTEM DISKETTE WITH 53FD FILE CONTROL CARD P/N 4178068 OR P/N 8528195	8488743 OR HIGHER	368001	SF410AAD9 1A-A2R2D08	SF410AAD9 1A-A2R2D09
IF 53FD FILE CTRL.CARD P/N. 4178065 INSTALLED, JUMPER MUST BE REMOVED.				
JUMPER IF MACH. WITH DISKETTE I/O FEAT.-7BM. 8481037 AND WITH 53FD FILE CONTROL CARD P/N 4178068 OR P/N 8528195	8488743 OR HIGHER	368001	SF420AAD9 1A-A2N2D08	SF420AAD9 1A-A2N2D09
IF 53FD FILE CTRL.CARD P/N. 4178065 INSTALLED, JUMPER MUST BE REMOVED.				
JUMPER 4331-2 (FEAT.-9M. 8481025)	8488849 OR HIGHER	368001	1A-A2V2U08	1A-A2V2S09
JUMPER IF MACHINE WITH FEAT.-8BM. 8481358 (RSE INTEGRATED MODEM LEASED LINE 2-WIRE OPERATION-JAPAN ONLY)	8488849 OR HIGHER	368001	SD310AA18 1A-A2X4G02 SD310AA29 1A-A2X4J05	SD310AA16 1A-A2X4G09 SD310AAC2 1A-A2X4J13
ADDITIONAL TIE-DOWNS FOR A2-BUARD ARE LISTED ON YA023, VOLUME 40.				

DATE	EC NO	DATE	EC NO
29JAN79	369001	31OCT79	366272
29JUN79	368026	28FEB80	368047
02JUL79	368017	23MAY80	367198
30OCT81	367234		

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PLUG LIST

PL06 L151

PHYS. LOCAT.	ID	FEAT. 9M	FEATURE TITLE	NAME	PN	REA	MACHINE EC	CABLE/TC TO POS.
IAA2	PA21	8481008	M/SSS GROUP	CARD	8489723 8489767	6420446 6420470	368017	
IAA2A5	Q090	8481008	M/SSS GROUP	CARD	8562709 8562709 NOT INSTAL	6420479 6420491 ED IN AL	368034 MACHINES	
IAA2B2	Q090	8481008	M/SSS GROUP	CARD	8562699 8562706 8562706 5683940 S	6420465 6420473 6420480 6420512	367176 368047	
IAA2C2	Q080	8481008	M/SSS GROUP	CARD	8562681	6420414	368017	
IAA2C2T		8481008	M/SSS GROUP	TCC OVER 3	8482113			IAA2E2T
IAA2C3T		8481008	M/SSS GROUP	TCC OVER 3	8482118			IAA2E3T
IAA2D2	Q080	8481008	M/SSS GROUP	CARD	8562681	6420414	368017	
IAA2E2	Q070	8481008	M/SSS GROUP	CARD	8562695 8562695	6420445 6420481	368030	
IAA2J4	SA30	8481008	M/SSS GROUP	CARD	1745960 S 5699968 S		367159 367183	
IAA2J2	SA30	8481109	DCA-EXTENSION	CARD	1745960 S 5699968 S		367159 367183	
IAA2K2	SA20	8481008	M/SSS GROUP	CARD	4409905 S 6835928 S 8715317 S 8715316 S 6835933 6016034	6420498 6420498 6420505	367168 368030 368038 367195 367230	
IAA2N2	SF40	8481037	DISKETTE I/O LOGIC	CARD	5623352 SC 4862487 SC 6028779 PR 6062420 PR	6420476 6420575 6420820	368017 368046 367223 367231	
IAA2N2T		8481037	DISKETTE I/O LOGIC	TCC OVER 2	2633938 OR	2731026		IAA2P2T
IAA2N3T		8481037	DISKETTE I/O LOGIC	TCC OVER 2	2633938 OR	2731026		IAA2P3T
IAA2N4T		8481037	DISKETTE I/O LOGIC	TCC OVER 1	8483399			
IAA2N5T		8481037	DISKETTE I/O LOGIC	TCC OVER 2	2633938 OR	2731026		IAA2P5T

NOTE : PARTS INSTALLED IN SYSTEM MAY NOT BE ON LATEST PN LEVEL AS SHOWN ON PLUG LIST.
CHARACTER BEHIND PN: S = SUBSTITUTION, C = CONCURRENCE, P = PRE REQUISITE,
: R = RESTRICTION
SEE PAGE PA010

DATE		EC NO	DATE		EC NO	LEVEL: 041
09MAR79	368001C	01JUN79	367176	28FEB80	368047	
23MAR79	368011	02JUL79	368017	20MAY80	367195	
10APR79	368014B	06JUL79	368030	22AUG80	368032	
11APR79	368005B	13AUG79	368034	14NOV80	366459	
11MAY79	368025	31OCT79	368038	06APR81	367223	
18MAY79	368016	01DEC79	367183	19MAY81	367213	
25MAY79	368018	31DEC79	366347	04SEP81	367230	
(C) COPYRIGHT	13M	CORPORATION	1979,	1980,1981		

(C) COPYRIGHT 1979, 1980, 1981

MACH = 4331-2

PLUG LIST

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P/N 8484073

B1-BOARD PDL4

PHYS. LOCAT.	ID	FEAT. BM	FEATURE TITLE	NAME	PN	REA	MACHINE EC	CABLE/TCC TO POS.
=====	=====	=====	=====	=====	=====	=====	=====	=====
1AB1	PB12	8481025	LOGIC GROUP	BOARD	4265464 4265460	6420535	875008	
1AB1A3B		8481370	EXT. SIGNAL FEAT.	CABLE ASM.	4150026			1D81GJ
1AB1A3C		8481025	LOGIC GROUP	CABLE ASM. OR CABLE ASM.	4156764 4156765			1AA2YF
1AB1B32	QC10	8481025	LOGIC GROUP	CARD	8489909	6420487	875002	
1AB1B4B		8481025	LOGIC GROUP	CABLE ASM.	4156754			1AB2YC
1AB1B4C		8481025	LOGIC GROUP	CABLE ASM.	4156756			1AB2YD
1AB1B4D		8481025	LOGIC GROUP	CABLE ASM.	4156764			1AA2YQ
1AB1B4E		8481025	LOGIC GROUP	CABLE ASM.	4156761			1AA2YR
1AB1C2	QA50	8481025	LOGIC GROUP	CARD	8484869		875034	
1A31D2	QA50	8481025	LOGIC GROUP	CARD	8484869		875034	
1AB1D4A		8481025	LOGIC GROUP	CABLE ASM.	4156757			1AB2YH
1AB1D4B		8481143	HIGH SPEED CHANNEL	CABLE ASM.	4156755			1AB2YG
1AB1D4C		8481136 8481066	BMFX2 AND W/D HSC OR W/D HSC/BMPX2	CABLE ASM. CABLE ASM.	4156755 4156755			1AB2YG 1AB2YG
1AB1D4D		8481025	LOGIC GROUP	CABLE ASM. CABLE ASM. OR	4156754 4156755			1AB2YF
1AB1D4E		8481025	LOGIC GROUP	CABLE ASM.	4156756			1AB2YE
1AB1E2	QC50	8481025	LOGIC GROUP	CARD	8484251 4008339		875006 875041	
1AB1E2T		8481025	LOGIC GROUP	TCC OVER 2	4138533			1AB1F2T
1A91E3T		8481025	LOGIC GROUP	TCC OVER 2	4138533			1AB1F3T
1A91E4T		8481025	LOGIC GROUP	TCC OVER 2	4138533			1AB1F4T
1AB1E5T		8481025	LOGIC GROUP	TCC OVER 2	4138533			1AB1F5T
1AB1F2	QC30	8481025	LOGIC GROUP	CARD	84897825 42637825		875001 875045 875046	
1AB1G2	QC20	8481025	LOGIC GROUP	CARD	8484594		875006	
1AB1G2T		8481025	LOGIC GROUP	TCC OVER 2	4138533			1AB1H2T
1A91G5T		8481025	LOGIC GROUP	TCC OVER 2	4138533			1AB1H5T
1AB1H2	QC70	8481025	LOGIC GROUP	CARD	8489687		875001	
1AB1H3T		8481025	LOGIC GROUP	TCC OVER 3	4138616			1AB1K3T
1AB1H4T		8481025	LOGIC GROUP	TCC OVER 3	4138616			1AB1K4T

NOTE : PARTS INSTALLED IN SYSTEM MAY NOT BE ON LATEST PN LEVEL AS SHOWN ON PLUG LIST
CHARACTER BEHIND PN: S = SUBSTITUTION, C = CONCURRENCE, P = PRE REQUISITE, SEE PAGE PA010
R = RESTRICTION

DATE	EC NO	DATE	EC NO	DATE	EC NO	REA	REA	LEVEL: 018
16FL379	363350	11JAN80	367112	22AUG80	367214			
14APR79	875000	12FEB80	875005	01OCT80	875041			
06JUL79	875001	20MAY80	366421	14NOV80	366459			
28SEP79	875002	13JUN80	875010	21JUL81	367117			
31OCT79	875003	01AUG80	875011	23OCT81	367234			

PHYS. LOCAT.	ID	FEAT. BM	FEATURE TITLE	NAME	PN	REA	MACHINE EC	CABLE/TCC TO POS.
1AB1J2	QC90	8481025	LOGIC GROUP	CARD	8484483	6420536	875006 875013 875014	
1AB1J2T		8481025	LOGIC GROUP	TCC 1 TO 1	8483399	6420535	875008	
1AB1J5T		8481025	LOGIC GROUP	TCC 1 TO 1	8483399	6420535	875008	
1AB1K2	QD10	8481025	LOGIC GROUP	CARD	8484558 4008314	6420547	875004 875010	
1AB1L2 THRU 1AB1U2	QD70			CARD (512K)	8488712S 8641715S		367085 367112	
SEE TABLE 1 (BELOW)	QD60	NOTE: THIS CARD APPEARS ONLY VIA FIELD UPGRADE 2 FROM MODEL 1		CARD (512K)	8488711S 8641714S 5683980S		367085 367112 367117	
	QB30			CARD (512K)	8484641S 5683978S		875011 367117	
	QB40			CARD (1MB)	8488872S 5683976S		875011 367117	

T A B L E - I

THE CUSTOMER STORE MAY BE REPRESENTED IN VARIOUS CARD COMBINATIONS.
THE POSSIBLE PHYSICAL PLUG COMBINATIONS ARE SHOWN IN THIS TABLE.

8484641
L → R
L = 5683978 *
M-R = 8484641 *
U = 5683978 *
* Single Bit Error
* Cards Found
* 18.11.86

STORE SIZE	FEAT. BM	FEATURE TITLE	PHYSICAL LOCATION	1A-B	B1R2	B1S2	B1T2	B1U2
1MB	8481142	CUST. STORE 1MB	B1L2 B1M2	B1N2 B1P2	B1Q2	B1R2	B1S2	B1T2
2MB	8481138	CUST. STORE 2MB	---	---	512K	512K	---	512K
OR: 2MB	8481410		---	---	---	---	---	---
3MB	8481139	CUST. STORE 3MB	---	---	512K	512K	---	512K
OR: 3MB	8481411		---	---	512K	512K	---	512K
4MB	8481376	CUST. STORE 4MB X	512K	512K	512K	512K	---	512K
OR: 4MB	8481412		512K	512K	512K	512K	---	512K
OR: 4MB	8481413		---	---	---	---	---	---

512K - CARDS : CARD - ID'S QD6, QD7, QB3
1MB - CARD : CARD - ID QB4, ONLY
CARD - PN. HISTORY IS SHOWN ABOVE
(CARD LOCATION 1AB1L2 - 1AB1U2)

NOTE : PARTS INSTALLED IN SYSTEM MAY NOT BE ON LATEST PN LEVEL AS SHOWN ON PLUG LIST.
CHARACTER BEHIND PN: S = SUBSTITUTION, C = CONCURRENCE, P = PRE REQUISITE, SEE PAGE PA010
R = RESTRICTION

DATE	EC NO	DATE	EC NO	DATA	EC NO	REA	REA	LEVEL: 018
16FEB79	363550	11JAN80	367112	22AUG80	367214			
12APR79	875000	12FEB80	875005	01OCT80	875041			
06JUL79	875001	20MAY80	366421	14NOV80	366459			
29SEP79	875002	13JUN80	875010	21JUL81	367117			
31OCT79	875003	01AUG80	875011	23OCT81	367234			

MACH=4.331

C1 BOARD, PDL 4

PLUG LIST

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PHYS-LOCAT.	ID	FEAT. BM	FEATURE TITLE	NAME	PN	REA	MACHINE EC	CABLE/TCG TO POS.
IAC1	PC11	8481005	IPS GROUP	BD STIFF A	5576273 4432603	6420463	366200 366260	
				CROWBAR/SE	5576200		366200	
				TEST STA A	5576207		366200	
IAC1B4								IAA2A2
	OR	8481041	PMR GR 50HZ 4331-1	CABLE ASM	8482900			
	OR	8481042	PMR GR 60HZ 4331-1					
	OR	8481043	PMR GR 50HZ 4331-2	CABLE ASM	8482880			
	OR	8481044	PMR GR 60HZ 4331-2					
IAC1B5		8481008	M/SSS GROUP	CABLE ASM	8484671			IAA2ZB
IAC1C2		8481005	IPS GROUP	CNTL CARD	5865022 4157313 4157319 S 4432674 S 1310350 S	6420477 6420484	366200 366276 366361 366505	
IAC1C4		8481005	IPS GROUP	CNTL CARD	5865022 4157313 4157319 S 4432674 S 1310350 S	6420477 6420484	366200 366276 366361 366505	
IAC1D2		8481005	IPS GROUP	CNTL CARD	5865022 4157313 4157319 S 4432674 S 1310350 S	6420477 6420484	366200 366276 366361 366505	
IAC1D4		8481005	IPS GROUP	CNTL CARD	5865022 4157313 4157319 S 4432674 S 1310350 S	6420477 6420484	366200 366276 366361 366505	
IAC1E3		8481139	CUST. STORE 3 MB	PMR MODULE	1310340		366200	
	OR	8481411	CUST. STORE 3 MB					
	OR	8481376	CUST. STORE 4 MB					
	OR	8481412	CUST. STORE 4 MB					
	OR	8481413	CUST. STORE 4 MB					
IAC1E4		8481005	IPS GROUP	PMR MODULE	1310340		366200	
IAC1F3		8481005	IPS GROUP	PMR MODULE	1310340		366200	
IAC1F5		8481005	IPS GROUP	PMR MODULE	1310340		366200	

[illegible]

IAC1G3	8481005	IPS GROUP	PMR MODULE	I310340	366200
IAC1G5	8481005	IPS GROUP	PMR MODULE	I310340	366200
IAC1H3	8481343	PMR GR 50HZ 4331-2	PMR MODULE	I310340	366200
	8481344	PMR GR 60HZ 4331-2			
IAC1H4	8481005	IPS GROUP	PMR MODULE	I310340	366200
IAC1H5	8481343	PMR GR 50HZ 4331-2	PMR MODULE	I310340	366200
	8481344	PMR GR 60HZ 4331-2			

NOTE : PARTS INSTALLED IN SYSTEM MAY NOT BE ON LATEST PN LEVEL AS SHOWN ON PLUG LIST.
CHARACTER BEHIND PN: S = SUBSTITUTION, C = CONCURRENCE, P = PRE REQUISITE, SEE PAGE PA0101

DATE	EC NO	DATE	EC NO	REA	REA	REA	LEVEL: 003
23MAY80	367198						
10APR81	366390						
10JUL81	366505						

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MEMBER: PC201101

MACH=4331

MFI BM P/1 8487620

JUMPER/TIE DOWN LIST

PAGE PC201
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P/N 8487164

THIS PAGE CONTAINS ONLY JUMPERS AND TIE DOWNS FOR BOARD 1A-C2.
USE BLACK WIRE PART NUMBER 811695.

CODE	BOARD P/N	LOWEST BD EC	FROM NET/LDC NOTE 1	TO NET/LCC NOTE 1
LINE 1 RATE 1200 BPS NOTE 2,3	8484711 OR HIGHER	367151	GND 1A-C2W3D08	SD111AAF6 1A-C2W4B05
LINE 1 RATE 600 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2W3D08	SD111AAF5 1A-C2W4B04
LINE 1 RATE 300 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2W3D08	SD111AAF4 1A-C2W3B13
LINE 1 RATE 150 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2W3D08	SD111AAF3 1A-C2W4D02
LINE 1 RATE 134.5 BPS NOTE 2,3	8484711 OR HIGHER	367151	GND 1A-C2W3D08	SD111AAF2 1A-C2W4B02
LINE 1 RATE 110 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2W3D08	SD111AAF1 1A-C2W4D05
LINE 1 RATE 75 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2W3D08	SD111AAF0 1A-C2W4D04
LINE 1 ASYNCHRONOUS OPERATION. RATE 1200 BPS OR LOWER NOTE 3	8484711 OR HIGHER	367151	GND 1A-C2W4D08	SD111AAD0 1A-C2W4B13
LINE 1 INTEGRATED MODEM. 2 WIRE LEASED LINE	8484711 OR HIGHER	367151	SD311AA18 1A-C2S1E08 OR 1A-C2V3B02 SD311AA29 1A-C2T1C06 OR 1A-C2V3D05	SD311AAC1 1A-C2U1B08 OR 1A-C2V3B09 SD311AAC2 1A-C2V1A06 OR 1A-C2V3D13
LINE 2 RATE 1200 BPS NOTE 2,3	8484711 OR HIGHER	367151	GND 1A-C2U3D08	SD121AAF6 1A-C2U4B05
LINE 2 RATE 600 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2U3D08	SD121AAF5 1A-C2U4B04
LINE 2 RATE 300 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2U3D08	SD121AAF4 1A-C2U3B13
LINE 2 RATE 150 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2U3D08	SD121AAF3 1A-C2U4D02
LINE 2 RATE 134.5 BPS NOTE 2,3	8484711 OR HIGHER	367151	GND 1A-C2U3D08	SD121AAF2 1A-C2U4B02
LINE 2 RATE 110 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2U3D08	SD121AAF1 1A-C2U4D05
LINE 2 RATE 75 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2U3D08	SD121AAF0 1A-C2U4D04
LINE 2 ASYNCHRONOUS OPERATION. RATE 1200 BPS OR LOWER NOTE 3	8484711 OR HIGHER	367151	GND 1A-C2U4D08	SD121AAD0 1A-C2U4B13
LINE 2 INTEGRATED MODEM. 2 WIRE LEASED LINE	8484711 OR HIGHER	367151	SD321AA18 1A-C2S1E13 OR 1A-C2V5B02 SD321AA29 1A-C2T1C11 OR 1A-C2V5D05	SD321AAC1 1A-C2U1B13 OR 1A-C2V5B09 SD321AAC2 1A-C2V1A11 OR 1A-C2V5D13

NOTE 1 IF THE -FROM- OR THE -TO- PIN LOCATION SPECIFIES MORE THAN ONE PIN IN
OR-CONDITION, THAN SELECT A PIN WHICH HAS NO OR AT MAXIMUM ONE DISCRETE WIRE
WRAP BEFORE INSTALLATION OF THIS BLACK WIRE.
NOTE 2 VALID ONLY IF CCA WITH 8M CLOCKING IS USED. ONLY ONE RATE SELECTION PER LINE
IS ALLOWED. IF CCA 'WITHOUT' 8M CLOCKING IS PLUGGED IN REFERENCED POSITION
THESE TIE-DOWNS ARE NOT APPLICABLE.
NOTE 3 IF CCA WITH CLOCK IS INSTALLED THIS LINE IS SHIPPED WIRED TO 1200 BPS FOR
SYNCHRONOUS OPERATION AND TO 134.5 BPS FOR ASYNCHRONOUS (S/S) OPERATION.

DATE	EC NO	DATE	EC NO
16JUN78	367029	30NOV79	366369
29JAN79	368001		
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MEMBER: PC201102

MACH=4331

PAGE 1

AFI BM P/N 8487620

JUMPER/TIE DOWN LIST

PAGE PC201
02 OF 05
P/N 8487164

THIS PAGE CONTAINS ONLY JUMPERS AND TIE DOWNS FOR BOARD 1A-C2.
USE BLACK WIRE PART NUMBER 811695.

CODE	BOARD P/N	LOWEST BD EC	FROM NET/LOC NOTE 1	TO NET/LOC NOTE 1
LINE 3 RATE 1200 BPS NOTE 2,3	8484711 OR HIGHER	367151	GND 1A-C2T3D08	SD131A AF6 1A-C2T4B05
LINE 3 RATE 600 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2T3D08	SD131A AF5 1A-C2T4B04
LINE 3 RATE 300 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2T3D08	SD131A AF4 1A-C2T3B13
LINE 3 RATE 150 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2T3D08	SD131A AF3 1A-C2T4D02
LINE 3 RATE 134.5 BPS NOTE 2,3	8484711 OR HIGHER	367151	GND 1A-C2T3D08	SD131A AF2 1A-C2T4B02
LINE 3 RATE 110 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2T3D08	SD131A AF1 1A-C2T4D05
LINE 3 RATE 75 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2T3D08	SD131A AF0 1A-C2T4D04
LINE 3 ASYNCHRONOUS OPERATION. RATE 1200 BPS OR LOWER NOTE 3	8484711 OR HIGHER	367151	GND 1A-C2T4D08	SD131A D0 1A-C2T4B13
LINE 3 INTEGRATED MODEM. 2 WIRE LEASED LINE	8484711 OR HIGHER	367151	SD331A A18 1A-C2Q1A08 OR 1A-C2S3B02 SD331A A29 1A-C2Q1D06 OR 1A-C2S3D05	SD331A AC1 1A-C2R1C08 OR 1A-C2S3B09 SD331A AC2 1A-C2S1B06 OR 1A-C2S3D13
LINE 4 RATE 1200 BPS NOTE 2,3	8484711 OR HIGHER	367151	GND 1A-C2R3D08	SD141A AF6 1A-C2R4B05
LINE 4 RATE 600 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2R3D08	SD141A AF5 1A-C2R4B04
LINE 4 RATE 300 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2R3D08	SD141A AF4 1A-C2R3B13
LINE 4 RATE 150 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2R3D08	SD141A AF3 1A-C2R4D02
LINE 4 RATE 134.5 BPS NOTE 2,3	8484711 OR HIGHER	367151	GND 1A-C2R3D08	SD141A AF2 1A-C2R4B02
LINE 4 RATE 110 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2R3D08	SD141A AF1 1A-C2R4D05
LINE 4 RATE 75 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2R3D08	SD141A AF0 1A-C2R4D04
LINE 4 ASYNCHRONOUS OPERATION. RATE 1200 BPS OR LOWER NOTE 3	8484711 OR HIGHER	367151	GND 1A-C2R4D08	SD141A D0 1A-C2R4B13
LINE 4 INTEGRATED MODEM. 2 WIRE LEASED LINE	8484711 OR HIGHER	367151	SD341A A18 1A-C2Q1A13 OR 1A-C2S5B02 SD341A A29 1A-C2Q1D11 OR 1A-C2S5D05	SD341A AC1 1A-C2R1C13 OR 1A-C2S5B09 SD341A AC2 1A-C2S1B11 OR 1A-C2S5D13

NOTE 1 IF THE -FROM- OR THE -TO- PIN LOCATION SPECIFIES MORE THAN ONE PIN IN
OR-CONDITION, THAN SELECT A PIN WHICH HAS NO OR AT MAXIMUM ONE DISCRETE WIRE
WRAP BEFORE INSTALLATION OF THIS BLACK WIRE.
NOTE 2 VALID ONLY IF CCA WITH 84 CLOCKING IS USED. ONLY ONE RATE SELECTION PER LINE
IS ALLOWED. IF CCA 'WITHOUT' 84 CLOCKING IS PLUGGED IN REFERENCED POSITION
THESE TIE-DOWNS ARE NOT APPLICABLE.
NOTE 3 IF CCA WITH CLOCK IS INSTALLED THIS LINE IS SHIPPED WIRED TO 1200 BPS FOR
SYNCHRONOUS OPERATION AND TO 134.5 BPS FOR ASYNCHRONOUS (S/S) OPERATION.

DATE	EC NO	DATE	EC NO
16JUN78	367029	30NOV79	366369
29JAN79	368001		
11MAY79	368025		

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MEMBER: PC201103

MACH=4331

MFI BM P/N 8487620

JUMPER/TIE DOWN LIST
*****PAGE PC201
03 OF 05
P/N 8487164THIS PAGE CONTAINS ONLY JUMPERS AND TIE DOWNS FOR BOARD 1A-C2.
USE BLACK WIRE PART NUMBER 811695.

CODE	BOARD P/N	LOWEST BD EC	FROM NET/LDC NOTE 1	TO NET/LDC NOTE 1
LINE 5 RATE 1200 BPS NOTE 2,3	8484711	367151	GND 1A-C2Q3D08	SD151AAF6 1A-C2Q4B05
LINE 5 RATE 600 BPS NOTE 2	8484711	367151	GND 1A-C2Q3D08	SD151AAF5 1A-C2Q4B04
LINE 5 RATE 300 BPS NOTE 2	8484711	367151	GND 1A-C2Q3D08	SD151AAF4 1A-C2Q3B13
LINE 5 RATE 150 BPS NOTE 2	8484711	367151	GND 1A-C2Q3D08	SD151AAF3 1A-C2Q4D02
LINE 5 RATE 134.5 BPS NOTE 2,3	8484711	367151	GND 1A-C2Q3D08	SD151AAF2 1A-C2Q4B02
LINE 5 RATE 110 BPS NOTE 2	8484711	367151	GND 1A-C2Q3D08	SD151AAF1 1A-C2Q4D05
LINE 5 RATE 75 BPS NOTE 2	8484711	367151	GND 1A-C2Q3D08	SD151AAF0 1A-C2Q4D04
LINE 5 ASYNCHRONOUS OPERATION. RATE 1200 BPS OR LOWER NOTE 3	8484711	367151	GND 1A-C2Q4D08	SD151AAD0 1A-C2Q4B13
LINE 5 INTEGRATED MODEM. 2 WIRE LEASED LINE	8484711	367151	SD351AA18 1A-C2M1B08 OR 1A-C2P3B02 SD351AA29 1A-C2M1E06 OR 1A-C2P3D05	SD351AAC1 1A-C2N1D08 CR 1A-C2P3B09 SD351AAC2 1A-C2P1C06 OR 1A-C2P3D13
LINE 6 RATE 1200 BPS NOTE 2,3	8484711	367151	GND 1A-C2N3D08	SD161AAF6 1A-C2N4B05
LINE 6 RATE 600 BPS NOTE 2	8484711	367151	GND 1A-C2N3D08	SD161AAF5 1A-C2N4B04
LINE 6 RATE 300 BPS NOTE 2	8484711	367151	GND 1A-C2N3D08	SD161AAF4 1A-C2N3B13
LINE 6 RATE 150 BPS NOTE 2	8484711	367151	GND 1A-C2N3D08	SD161AAF3 1A-C2N4D02
LINE 6 RATE 134.5 BPS NOTE 2,3	8484711	367151	GND 1A-C2N3D08	SD161AAF2 1A-C2N4B02
LINE 6 RATE 110 BPS NOTE 2	8484711	367151	GND 1A-C2N3D08	SD161AAF1 1A-C2N4D05
LINE 6 RATE 75 BPS NOTE 2	8484711	367151	GND 1A-C2N3D08	SD161AAF0 1A-C2N4D04
LINE 6 ASYNCHRONOUS OPERATION. RATE 1200 BPS OR LOWER NOTE 3	8484711	367151	GND 1A-C2N4D08	SD161AAD0 1A-C2N4B13
LINE 6 INTEGRATED MODEM. 2 WIRE LEASED LINE	8484711	367151	SD361AA18 1A-C2M1B13 OR 1A-C2P5B02 SD361AA29 1A-C2M1E11 OR 1A-C2P5D05	SD361AAC1 1A-C2N1D13 CR 1A-C2P5B09 SD361AAC2 1A-C2P1C11 CR 1A-C2P5D13

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NOTE 1 IF THE -FROM- OR THE -TO- PIN LOCATION SPECIFIES MORE THAN ONE PIN IN OR-CONDITION, THAN SELECT A PIN WHICH HAS NO OR AT MAXIMUM ONE DISCRETE WIRE WRAP BEFORE INSTALLATION OF THIS BLACK WIRE.
NOTE 2 VALID ONLY IF CCA WITH BM CLOCKING IS USED. ONLY ONE RATE SELECTION PER LINE IS ALLOWED. IF CCA 'WITHOUT' BM CLOCKING IS PLUGGED IN REFERENCED POSITION THESE TIE-DOWNS ARE NOT APPLICABLE.
NOTE 3 IF CCA WITH CLOCK IS INSTALLED THIS LINE IS SHIPPED WIRED TO 1200 BPS FOR SYNCHRONOUS OPERATION AND TO 134.5 BPS FOR ASYNCHRONOUS (S/S) OPERATION.

DATE	EC NO	DATE	EC NO
16JUN78	367029	30NOV79	366369
29JAN79	368001		
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MACH=4331

MEMBER: PC201104

MFI BM P/N 8487620

JUMPER/TIE DOWN LIST
*****PAGE PC201
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P/N 8487164THIS PAGE CONTAINS ONLY JUMPERS AND TIE DOWNS FOR BOARD 1A-C2.
USE BLACK WIRE PART NUMBER 811695.

CODE	BOARD P/N	LOWEST BD EC	FROM NET/LOC NOTE 1	TO NET/LOC NOTE 1
LINE 7 RATE 1200 BPS NOTE 2,3	8484711 OR HIGHER	367151	GND 1A-C2M3D08	SD171AF6 1A-C2M4B05
LINE 7 RATE 600 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2M3D08	SD171AF5 1A-C2M4B04
LINE 7 RATE 300 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2M3D08	SD171AF4 1A-C2M3B13
LINE 7 RATE 150 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2M3D08	SD171AF3 1A-C2M4D02
LINE 7 RATE 134.5 BPS NOTE 2,3	8484711 OR HIGHER	367151	GND 1A-C2M3D08	SD171AF2 1A-C2M4B02
LINE 7 RATE 110 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2M3D08	SD171AF1 1A-C2M4D05
LINE 7 RATE 75 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2M3D08	SD171AF0 1A-C2M4D04
LINE 7 ASYNCHRONOUS OPERATION. RATE 1200 BPS OR LOWER NOTE 3	8484711 OR HIGHER	367151	GND 1A-C2M4D08	SD171AD0 1A-C2M4B13
LINE 7 INTEGRATED MODEM. 2 WIRE LEASED LINE	8484711 OR HIGHER	367151	SD371AA18 1A-C2J2C08 OR 1A-C2L3B02	SD371AAC1 1A-C2K1E08 OR 1A-C2L3B09
			SD371AA29 1A-C2K1A06 OR 1A-C2L3D05	SD371AAC2 1A-C2L1D06 OR 1A-C2L3D13
LINE 8 RATE 1200 BPS NOTE 2,3	8484711 OR HIGHER	367151	GND 1A-C2K3D08	SD181AF6 1A-C2K4B05
LINE 8 RATE 600 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2K3D08	SD181AF5 1A-C2K4B04
LINE 8 RATE 300 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2K3D08	SD181AF4 1A-C2K3B13
LINE 8 RATE 150 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2K3D08	SD181AF3 1A-C2K4D02
LINE 8 RATE 134.5 BPS NOTE 2,3	8484711 OR HIGHER	367151	GND 1A-C2K3D08	SD181AF2 1A-C2K4B02
LINE 8 RATE 110 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2K3D08	SD181AF1 1A-C2K4D05
LINE 8 RATE 75 BPS NOTE 2	8484711 OR HIGHER	367151	GND 1A-C2K3D08	SD181AF0 1A-C2K4D04
LINE 8 ASYNCHRONOUS OPERATION. RATE 1200 BPS OR LOWER NOTE 3	8484711 OR HIGHER	367151	GND 1A-C2K4D08	SD181AD0 1A-C2K4B13
LINE 8 INTEGRATED MODEM. 2 WIRE LEASED LINE	8484711 OR HIGHER	367151	SD381AA18 1A-C2J1C13 OR 1A-C2L5B02	SD381AAC1 1A-C2K1E13 OR 1A-C2L5B09
			SD381AA29 1A-C2K1A11 OR 1A-C2L5D05	SD381AAC2 1A-C2L1D11 OR 1A-C2L5D13

NOTE 1 IF THE -FROM- OR THE -TO- PIN LOCATION SPECIFIES MORE THAN ONE PIN IN
OR-CONDITION, THAN SELECT A PIN WHICH HAS NO OR AT MAXIMUM ONE DISCRETE WIRE
WRAP BEFORE INSTALLATION OF THIS BLACK WIRE.
NOTE 2 VALID ONLY IF CCA WITH BM CLOCKING IS USED. ONLY ONE RATE SELECTION PER LINE
IS ALLOWED. IF CCA 'WITHOUT' BM CLOCKING IS PLUGGED IN REFERENCED POSITION
THESE TIE-DOWNS ARE NOT APPLICABLE.
NOTE 3 IF LCA WITH CLOCK IS INSTALLED THIS LINE IS SHIPPED WIRED TO 1200 BPS FOR
SYNCHRONOUS OPERATION AND TO 134.5 BPS FOR ASYNCHRONOUS (S/S) OPERATION.

DATE	EC NO	DATE	EC NO
16JUN78	367029	30NOV79	366369
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MEMBER: PC201105

MACH=4331

MFI BM P/N 8487620

JUMPER/TIE DOWN LIST

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P/N 8487164

THIS PAGE CONTAINS ONLY JUMPERS AND TIE DOWNS FOR BOARD 1A-C2.
USE BLACK WIRE PART NUMBER 811695.

CODE	BOARD P/N	LOWEST BD EC	FROM NET/LOC NOTE 1	TO NET/LOC NOTE 1
MSSS UC START ADDRESS X'800'	8484711 OR HIGHER	367151	QH619A17 1A-C2B5B11	SF100AA1004 1A-C2G3B05 OR 1A-C2G5B03 OR 1A-C2H5B03 OR 1A-C2J5B03
NOTE 2				

NOTE 1 IF THE -FROM- OR THE -TO- PIN LOCATION SPECIFIES MORE THAN ONE CNE PIN IN
OR-CONDITION, THAN SELECT A PIN WHICH HAS NO OR AT MAXIMUM ONE DISCRETE WIRE
NOTE 2 START ADDRESS X'800' FACTORY INSTALLED.

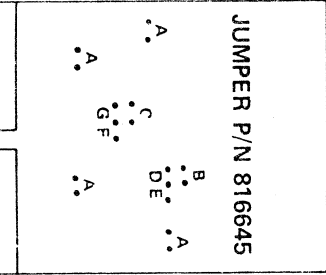
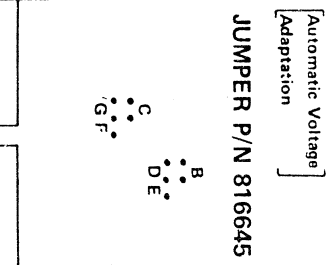
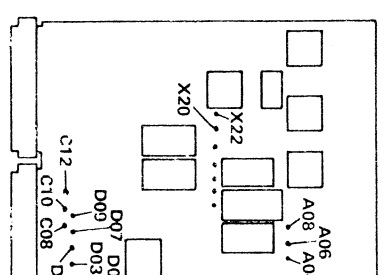
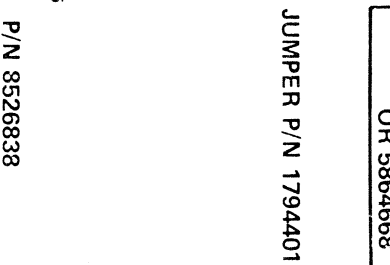
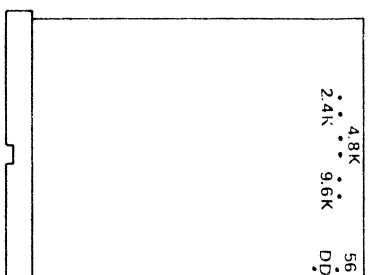
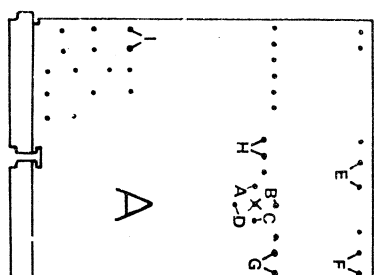
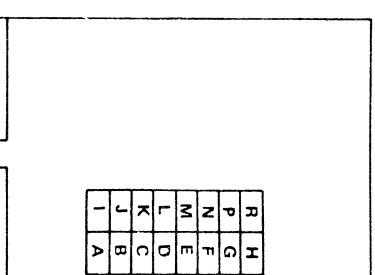
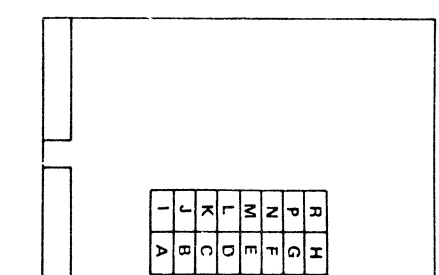
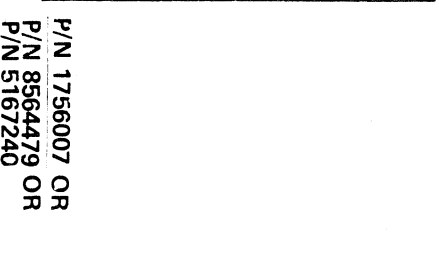
DATE	EC NO	DATE	EC NO
16JUN78	367029	30NOV79	366369
29JAN79	368001		
11MAY79	368025		

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MACH: 4331
CALA CARD JUMPING LIST

PAGE PC202
01 OF 03
P/N 8489590

THIS PAGE CONTAINS ONLY FACTORY SETTING OF SWITCHES AND JUMPERS FOR CA CARDS OF BOARD
1A-B2 AND 1A-C2. USE JUMPER ASM P/N 1794401 OR P/N 816645.
IF ONE OR MORE OF THESE CARDS ARE INSTALLED AND THE CUSTOMER REQUIREMENTS DIFFER
FROM THIS SETTING REFER TO "CA SUPPLEMENT TO MAP" FOR JUMPER OPTIONS.

ID	ADAPTER	USED IN FEATURE BM	USED IN POSITION	FUNCTION	SWITCH/JUMPER		CARD LAYOUT (COMPONENT SIDE)
					OFF FROM	ON TO	
SD3	ACU I/F	8481211	01A-B2S2	IF FEATURE BM 8481107 IS INSTALLED: -12V	A		 JUMPER P/N 816645
		8481212	01A-B2S4				
	EIA I/F	8481274	01A-C2V2	IF FEATURE BM 8481056 (50Hz) OR BM 8481057 (60Hz) IS INSTALLED: -8.5V		A	 JUMPER P/N 816645 Automatic Voltage Adaptation
		8481275	01A-C2V4				
		8481276	01A-C2S2			D	
		8481231	01A-C2S4	CARD WRAP:			
		8481232	01A-C2P2	DCE CLOCKING FOR EIA I/F:		F	
		8481233	01A-C2P4	FOR ACU I/F:		G	
		8481229	01A-C2L2				
		8481230	01A-C2L4				
	ROCF/RSF	8481035	01A-A2X4				
		8481361	01A-A2X4				
	REM. DATA	8481368	01A-A2X4				 CARD P/N 5864363
		8481073	01A-A1P2				
QE3	V35 I/F	8481280	01A-C2V2	IF FEATURE BM 8481107 IS INSTALLED: -12V	D01 D05	D03 D07	 CARD P/N 5864660 OR 5864668
SD4	DOSA I/F	8481271	01A-C2V2	TRANSMISSION RATE: 4800BPS			 JUMPER P/N 1794401
		8481272	01A-C2V4			4.8K	
		8481273	01A-C2S2				
		8481208	01A-C2S4				
		8481209	01A-C2P2				
		8481210	01A-C2P4				
		8481206	01A-C2L2				
		8481207	01A-C2L4				
QE4	LOCAL ATT.	8481277	01A-C2V2	TRANSMISSION RATE: 4800BPS			 JUMPER P/N 8527032
		8481278	01A-C2V4		A		
		8481279	01A-C2S2		B		
		8481166	01A-C2S4			C	
		8481167	01A-C2P2		D		
		8481168	01A-C2P4			E	
		8481164	01A-C2L2			F	
		8481165	01A-C2L4			G	
						H	
						I	
SD8	IM-SNAA WT	8481259	01A-C2V2	TRANSMISSION RATE: 4800BPS			 JUMPER P/N 1794401
		8481260	01A-C2V4		A		
		8481261	01A-C2S2		B		
		8481196	01A-C2S4			C	
		8481197	01A-C2P2		D		
		8481198	01A-C2P4			E	
		8481194	01A-C2L2			F	
		8481195	01A-C2L4			G	
		8481034	01A-A2X4		H		
		8481360	01A-A2X4			I	
				LOW FREQUENCY DELAY ENABLED			 JUMPER P/N 1756007 OR P/N 8564479 OR P/N 5167240
				HIGH FREQUENCY DELAY ENABLED			 JUMPER P/N 1756007 OR P/N 8564479 OR P/N 5167240
				CARD TEST SWITCH ON			 JUMPER P/N 1756007 OR P/N 8564479 OR P/N 5167240
				NORMAL DELAY ENABLED			 JUMPER P/N 1756007 OR P/N 8564479 OR P/N 5167240
				MID FREQUENCY DELAY ENABLED			 JUMPER P/N 1756007 OR P/N 8564479 OR P/N 5167240

THIS PAGE CONTAINS ONLY FACTORY SETTING OF SWITCHES AND JUMPERS FOR CA CARDS OF BOARD
1A-B2 AND 1A-C2. USE JUMPER ASM P/N 1794401 OR P/N 816645.
IF ONE OR MORE OF THESE CARDS ARE INSTALLED AND THE CUSTOMER REQUIREMENTS DIFFER
FROM THIS SETTING REFER TO "CA SUPPLEMENT TO MAP" FOR JUMPER OPTIONS.

ID	ADAPTER	USED IN FEATURE BM	USED IN POSITION	FUNCTION	SWITCH/JUMPER		CARD LAYOUT (COMPONENT SIDE)
					OFF FROM	ON TO	
SE1	IM-LL	8481256 8481257 8481258 8481202 8481203 8481204 8481200 8481201	01A-C2V2 01A-C2V4 01A-C2S2 01A-C2S4 01A-C2P2 01A-C2P4 01A-C2L2 01A-C2L4		A		Equalizer Switches R H P G N E M L D C K J B A P/N 1756011 OR P/N 8564481 OR P/N 5167248
					B		
					C		
				TRANSMIT LEVEL TO:10 DBM	D	E	
				TRANSMIT LEVEL TO:10 DBM	F	G	
				TRANSMIT LEVEL TO:10 DBM	H	I	
				4 WIRE CONNECTION	J		
				CLEAR TO SEND DELAY 30MS		K	
				ECHO CLAMP DELAY 50MS	M	L	
						N	
SD5	IM-SNAA US	8481262 8481263 8481264 8481172 8481173 8481174 8481170 8481171 8481033	01A-C2V2 01A-C2V4 01A-C2S2 01A-C2S4 01A-C2P2 01A-C2P4 01A-C2L2 01A-C2L4 01A-A2X4	NORMAL DELAY ENABLED	A	DD	
					B		
					C		
				TRANSMIT LEVEL TO:10 DBM	D	E	
				TRANSMIT LEVEL TO:10 DBM	F	G	
				TRANSMIT LEVEL TO:10 DBM	H		
					I	J	
				IF AUTO ANSWER (CBS): IF MANUAL ANSWER (CDT): CARD TEST SWITCH ON	J	K	
					L		
					M		
SD7	IM-LLSM OR IM-LL	8481268 8481269 8481270 8481190 8481191 8481192 8481188 8481189	01A-C2V2 01A-C2V4 01A-C2S2 01A-C2S4 01A-C2P2 01A-C2P4 01A-C2L2 01A-C2L4		A		Equalizer Switches R H P G N E M L D C K J B A
					B		
					C		
				TRANSMIT LEVEL TO:10 DBM	D	E	
				TRANSMIT LEVEL TO:10 DBM	F	G	
				TRANSMIT LEVEL TO:10 DBM	H		
					I		
					J	K	
				4 WIRE CONNECTION		L	
				ECHO CLAMP DELAY 50MS	M		
SD6	IM-LLSB	8481265 8481266 8481267 8481184 8481185 8481186 8481182 8481183	01A-C2V2 01A-C2V4 01A-C2S2 01A-C2S4 01A-C2P2 01A-C2P4 01A-C2L2 01A-C2L4		A		Equalizer Switches R H P G N E M L D C K J B A
					B		
					C		
				TRANSMIT LEVEL TO:10 DBM	D	E	
				TRANSMIT LEVEL TO:10 DBM	F		
				TRANSMIT LEVEL TO:10 DBM	H	G	
					I		
					J	K	
				4 WIRE CONNECTION		L	
				ECHO CLAMP DELAY 50MS	M		
				CLEAR TO SEND DELAY 30MS	N	P	

SD5 P/N 1756001 OR
P/N 8564508

SD7 P/N 1756005 OR
P/N 8564510 OR
P/N 6173448

SD6 P/N 1756003 OR
P/N 8564509

MACH=4331

PLUG LIST

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C2-BOARD PDL4

PHYS. LOCAT.	ID	FEAT. BM	FEATURE TITLE	NAME	PN	REA	MACHINE EC	CABLE/TCG TO POS.
=====	=====	=====	=====	=====	=====	=====	=====	=====
IAC2	PC21	8481008	M/SSS GROUP	BOARD	8489696	6420435	368026	
IAC2B4	QH60	8481008	M/SSS GROUP	CARD	8488794	6420393	368017	
					8562740	6420545	367204	
					4266946	6420592		
					8562782		367226	
IAC2C2	QH40	8481008	M/SSS GROUP	CARD	8488793	6420434	368017	
							367110	
IAC2C2T		8481008	M/SSS GROUP	TCC 1 TO 1	8483399			
IAC2C3T		8481008	M/SSS GROUP	TCC 1 TO 1	8483399			
IAC2C4T		8481003	M/SSS GROUP	TCC 1 TO 1	8483399			
IAC2C5T		8481008	M/SSS GROUP	TCC 1 TO 1	8483399			
IAC2D2	SF10	8481008	M/SSS GROUP	CARD	2411872		367168	
IAC2E2	SF20	8481008	M/SSS GROUP	CARD	2411851		367168	
IAC2E2T		8481008	M/SSS GROUP	TCC OVER 2	2633938	2731026		
IAC2E5T		8481008	M/SSS GROUP	TCC OVER 2	2633938	2731026		IAC2F2T
IAC2F2	SF30	8481008	M/SSS GROUP	CARD	2411893		367059	IAC2F5T
					6830741	6420517	368049	
IAC2G2	QH70	8481008	M/SSS GROUP	CARD	8488764	6420452	368011	
IAC2H2	SF50	8481008	M/SSS GROUP	CARD	1588052	6420322	367160	
IAC2J2	SF50	8481008	M/SSS GROUP	CARD	1588052	6420362	367160	
IAC2K2	SD10	8481152	LINE 8 WITH CLCK	CARD	8526485		368001	
	SD20	8481158	LINE 8 W/O CLCK	CARD	8523016		368001	
IAC2L2	QE40	8481164	LOC. ATT. I/F	CARD	8526839		367062	
					8528453	6420376	368004	
					8528470	6420543	367202	
					8564508		368016	
					8564510		368016	
					6173448		367228	
					8564479		368016	
					5167246		367213	
					1756011		366218	
					8564481		368032	
					8527032		368001	
					8564561		368037	
					5864660		368005	
					5864668		366347	
IAC2L4	QE40	8481165	LOC. ATT. I/F	CARD	PN AND REA	6420321		
	SD50	8481171	IM-SNAA	CARD	"	6420507		
	SD60	8481183	IM-LLSB	CARD	"			
	SD70	8481189	IM-LLSM	CARD	"			
	SD80	8481195	IM-SNAA	CARD	"			
	SE10	8481201	IM-LL	CARD	"			
	SD40	8481207	DDSA I/F	CARD	"			
	SE40	8481220	X21 LEASED	CARD	"			
	SD30	8481230	EIA I/F	CARD	"			
IAC2M2	SD10	8481151	LINE 7 WITH CLCK	CARD	8526485		368001	
	SD20	8481157	LINE 7 W/O CLCK	CARD	8523016		368001	
IAC2N2	SD10	8481155	LINE 6 WITH CLCK	CARD	8526485		368001	
	SD20	8481161	LINE 6 W/O CLCK	CARD	8523016		368001	

NOTE : PARTS INSTALLED IN SYSTEM MAY NOT BE ON LATEST PN LEVEL AS SHOWN ON PLUG LIST.
CHARACTER BEHIND PN: S = SUBSTITUTION, C = CONCURRENCE, P = PRE REQUISITE, SEE PAGE PA010

DATE	EC NO	DATE	EC NO	DATE	EC NO	DATE	EC NO	LEVEL: 022
09MAR79	368001C	29JUN79	368026	20MAY80	367202			
23MAR79	368011	02JUL79	368017	02JUN80	367204			
11APR79	3680058	23NOV79	368049	22AUG80	368032	30OCT81	367226	
23APR79	368004B	31DEC79	366347	14NOV80	366459			
30APR79	368016	31JAN80	368037	19MAY81	367213			

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PHYS. LOCAT.	ID	FEAT. 3M	FEATURE TITLE	NAME	PN	REA	MACHINE EC	CABLE/TC TO POS.
IAC2P2	Q440 SD50 SD60 SD70 SD80 SD90 SE40 SD30	8481167 8481173 8481185 8481191 8481197 8481203 8481209 8481217 8481232	LOC. ATT. I/F IM-SNAA IM-LLSB IM-LLSM IM-SNAA IM-LL DDSA I/F X21 LEASED EIA I/F	CARD CARD CARD CARD CARD CARD CARD CARD CARD	PN AND REA	HISTORY	SEE LOCATION	C2L2
IAC2P4	Q440 SD50 SD60 SD70 SD80 SE10 SD40 SE40 SD30	8481168 8481174 8481186 8481192 8481198 8481204 8481210 8481218 8481233	LOC. ATT. I/F IM-SNAA IM-LLSB IM-LLSM IM-SNAA IM-LL DDSA I/F X21 LEASED EIA I/F	CARD CARD CARD CARD CARD CARD CARD CARD CARD	PN AND REA	HISTORY	SEE LOCATION	C2L2
IAC2Q2	SD10 SD20	8481154 8481160	LINE 5 WITH CLCK LINE 5 W/O CLCK	CARD CARD	8526485 8523016		368001 368001	
IAC2R2	SD10 SD20	8481153 8481159	LINE 4 WITH CLCK LINE 4 W/O CLCK	CARD CARD	8526485 8523016		368001 368001	
IAC2S2	SE40 SE10 SD80 SD50 SD60 SD70 SD40 SD30 Q440	8481215 8481258 8481261 8481264 8481267 8481270 8481273 8481276 8481279	X21 LEASED IM-LL IM-SNAA IM-SNAA IM-LLSB IM-LLSM DDSA I/F EIA I/F LOC. ATT. I/F	CARD CARD CARD CARD CARD CARD CARD CARD CARD	PN AND REA	HISTORY	SEE LOCATION	C2L2
IAC2S4	Q440 SD50 SD60 SD70 SD80 SE10 SD40 SE40 SD30	8481166 8481172 8481184 8481190 8481196 8481202 8481208 8481216 8481231	LOC. ATT. I/F IM-SNAA IM-LLSB IM-LLSM IM-SNAA IM-LL DDSA I/F X21 LEASED EIA I/F	CARD CARD CARD CARD CARD CARD CARD CARD CARD	PN AND REA	HISTORY	SEE LOCATION	C2L2
IAC2T2	SD10 SD20	8481254 8481255	LINE 3 WITH CLCK LINE 3 W/O CLCK	CARD CARD	8526485 8523016		368001 368001	
IAC2U2	SD10 SD20	8481252 8481253	LINE 2 WITH CLCK LINE 2 W/O CLCK	CARD CARD	8526485 8523016		368001 368001	

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R = RESTRICTION

DATE	EC NO	DATE	EC NO	DATE	EC NO	LEVEL: 022
09MAR79	368001C	29JUN79	368026	02MAY80	3672202	
23MAR79	368011	02JUL79	368017	02JUN80	3672204	300CT81
11APR79	368005H	23NOV79	368049	22AUG80	3680302	
23APR79	368004B	31DEC79	368347	14NOV80	366459	
30APR79	368016	31JAN80	368037	19MAY81	367213	

C2-BUARD PDL4

MACH=4331
PLUG LIST

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PHYS. LOCAT.	ID	FEAT. BM	FEATURE TITLE	NAME	PN	REA	MACHINE EC	CABLE/TC
=====	=====	=====	=====	=====	=====	=====	=====	=====
1AC2V2	SE40	8481213	X21 LEASED	CARD	PN AND REA	HISTORY	SEE LOCATION C2L2	
OR	SE10	8481256	IM-SNAA	CARD	"	"	"	"
OR	SD80	8481259	IM-SNAA	CARD	"	"	"	"
OR	SD50	8481262	IM-SNAA	CARD	"	"	"	"
OR	SD60	8481265	IM-SNAA	CARD	"	"	"	"
OR	SD70	8481268	IM-SNAA	CARD	"	"	"	"
OR	SD40	8481271	IM-SNAA	CARD	"	"	"	"
OR	SD30	8481274	IM-SNAA	CARD	"	"	"	"
OR	QE40	8481277	LOC. ATT. I/F	CARD	"	"	"	"
OR	QE30	8481280	V35-I/F	CARD	"	"	"	"
OR	WH10	8481395	RPQ ML4707(HSD1)	CARD	"	"	"	"
1AC2V4	SE40	8481214	X21 LEASED	CARD	PN AND REA	HISTORY	SEE LOCATION C2L2	
OR	SE10	8481257	IM-SNAA	CARD	"	"	"	"
OR	SD80	8481260	IM-SNAA	CARD	"	"	"	"
OR	SD50	8481263	IM-SNAA	CARD	"	"	"	"
OR	SD60	8481266	IM-SNAA	CARD	"	"	"	"
OR	SD70	8481269	IM-SNAA	CARD	"	"	"	"
OR	SD40	8481272	IM-SNAA	CARD	"	"	"	"
OR	QE40	8481275	LOC. ATT. I/F	CARD	"	"	"	"
OR	QE40	8481278	LOC. ATT. I/F	CARD	"	"	"	"
1AC2W2	SD10	8481250	LINE 1 WITH CLK	CARD	8526485		368001	
OR	SD20	8481251	LINE 1 W/O CLK	CARD	8523016		368001	
1AC2YA		8481008	M/SSS GROUP	CABLE GRP.	8484671			1AD1A1
1AC2YD		8481229	EIA I/F LINE 7	CABLE GRP.	8484017			1EA4GJ
OR		8481219	INT. MODEM LINE 7	CABLE GRP.	8482840			1EA4GJ
1AC2YE		8481232	EIA I/F LINE 5	CABLE GRP.	8484020			1EA3GJ
OR		8481217	INT. MODEM LINE 5	CABLE GRP.	8482847			1EA3GJ
1AC2YF		8481276	EIA I/F LINE 3	CABLE GRP.	8484024			1EA2GJ
OR		8481215	INT. MODEM LINE 3	CABLE GRP.	8482845			1EA2GJ
1AC2YG		8481274	EIA I/F LINE 1	CABLE GRP.	8484022			1EA1GJ
OR		8481213	INT. MODEM LINE 1	CABLE GRP.	8482841			1EA1GJ
1AC2YJ		8481008	M/SSS GROUP	CABLE GRP.	8484671			1AA2YM
1AC2YK		8481008	M/SSS GROUP	CABLE GRP.	8484671			1AA2YD
1AC2YM		8481230	EIA I/F LINE 8	CABLE GRP.	8484018			1EA5BD
OR		8481220	INT. MODEM LINE 8	CABLE GRP.	8482842			1EA5BD
1AC2YN		8481233	EIA I/F LINE 6	CABLE GRP.	8484021			1EA4BD
OR		8481218	INT. MODEM LINE 6	CABLE GRP.	8482848			1EA4BD
1AC2YP		8481231	EIA I/F LINE 4	CABLE GRP.	8484019			1EA3BD
OR		8481216	INT. MODEM LINE 4	CABLE GRP.	8482846			1EA3BD
1AC2YQ		8481275	EIA I/F LINE 2	CABLE GRP.	8484023			1EA2BD
OR		8481214	INT. MODEM LINE 2	CABLE GRP.	8482843			1EA2BD

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DATE	EC NO	DATE	EC NO	DATE	EC NO
09MAR79	368001C	29JUN79	369026	20MAY80	367202
23MAR79	368011	02JUL79	368017	02JUN80	367204
11APR79	3680053	23NOV79	368049	22AUG80	368032
23APR79	3680048	31DEC79	368347	14NOV80	368459
30APR79	368016	31JAN80	368037	19MAY81	367213

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DATE 30OCT81 EC NO 367226 LEVEL: 022

